

# United States Department of the Interior

# GEOLOGICAL SURVEY Conservation Division P. O. Box 26124 Albuquerque, New Mexico 87125

APR 19 1977

El Paso Hetural Gas Company Attention: Mr. D. M. Canfield P. O. Box 1492 El Paso, Texas 79978

### Gentlemen:

This office has reviewed your 1977 plan of development submitted February 25, 1977, for the Sen Juan 32-9 unit area, Rio Arriba County, New Mexico. Such plan proposes the drilling of one Pictured Cliffs well on lands within an existing participating area.

The San Juan 32-9 unit agreement embracing 34,654.41 acres was approved by the Director, U.S. Geological Survey on June 26, 1953, effective as of the date of approvel. Bince approvel, three perticipating areas have been established. The initial Messverde perticipating area was approved effective as of June 26, 1953, embracing 845.96 acres, of which 725.96 acres were coumitted to the unit agreement. The most recent emlargament, the thirty second revision, effective as of August 1, 1960, increased the Messverde perticipating area to 21,863.77 acres with 21,643.77 acres coumitted. The initial Pictured Cliffs perticipating area and the initial Mecimiento participating area were approved effective as of June 24, 1975, and August 4, 1975, respectively. These participating areas which overlie the Messverde participating area are coterminous embracing 320 acres, of which 260 acres are committed. Neither the Pictured Cliffs nor the Mecimiento perticipating area has ever been revised.

Currently, there are 12,790.64 acres in the San Juan 32-9 unit area which are not within a participating area. Of the nonparticipating lands, approximately 1,920 acres have been tested by six Messwards wells which failed to obtain production in quantities sufficient to qualify as unit production. The Messwards participating have has not been expanded for almost 17 years. Accordingly, your 1977 plan of development which proposes no development of nonparticipating lands is not acceptable under the terms of Section 10 of the unit

agreement which provides in part that "Any plan submitted pursuant to this section shall provide for the exploration of the unitized area and for the determination of the area or areas thereof capable of producing unitized substances in paying quantities in each and every productive formation and shall be as complete and adequate as the Supervisor, the Commissioner and the Commission may determine to be necessary for timely development and proper conservation of the oil and gas resources in the unitized area".

All copies of your 1977 plan of development are returned herewith and you are requested to file, within 30 days, a revised plan proposing as a minimum (1) the drilling of one Messverde or Dakots well on lands outside the Messverde participating area, or (2) that you advise this office of plans to contract the unit to the participating area. In the absence of a plan which meats the foregoing requirements, it will become necessary for this office to recommend that the New Mexico Oil Conservation Commission schedule a formal show cause hearing as to why the San Juan 32-9 unit agreement should not be contracted to eliminate all lands not in a participating area.

Sincerely yours,

(ORIG. SGO.) HATES A AUTHORIZAD

Area Oil and Ges Supervisor

### Maclosures

CC: BLM, Santa Fe
NMOCC, Santa Fe
Com. Pub. Lands, Santa Fe



# United States Department of the Interior

4116

GEOLOGICAL SURVEY

Western Bank Bldg., Room 815 505 Marquette, NW Albuquerque, New Mexico 87102

December 29, 1976

El Paso Natural Gas Company Attention: Mr. Don Wadsworth P. O. Box 1492 El Paso, Texas 79978

## Gentlemen:

Your 1976 Plan of Development and Operation for the San Juan 32-9 unit area, San Juan County, New Mexico, was received in this office on December 29, 1975. Such plan provided no additional development during the year. Our letter of May 28, 1976, requested justification for no additional development and several joint conversations and conferences followed during the balance of the year with no definitive conclusion.

Authority for continuation of operations within the unitized area is derived from an approved Plan of Development and Operations, pursuant to Section 10 of the unit agreement. Accordingly, this office hereby accepts your 1976 Plan for record purposes. As stated previously, the plan is considered less than adequate inasmuch as there appears to be one or more participating areas which are not fully developed within the unitized area and no tangible justification is provided for the absence of additional development drilling in those areas.

You are requested to submit a 1977 Plan of Development and Operation for the San Juan 32-9 unit within 60 days of the receipt of this letter. Such plan, in order to receive favorable consideration by this office, must contain a firm commitment for additional development drilling absent tangible documentation of full development of the unitized area.

Sincerely yours,

C. Timed - JAMES W. SUTHERLAND

Area 011 and Gas Supervisor

Copy of JAMES W. SUTHERLAND Area 011 and Gas Sup NMOCC, Santa Fe Com. Pub. 12-7

JAGILLHAM: 1m: 122976

# OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

January 8, 1976

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

> Re: 1976 Drilling Program, San Juan 32-9 Unit, San Juan County, New Mexico.

### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1976 providing for the drilling of no wells for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the program are returned herewith.

Very truly yours,

JOF D. RAMEY Secretary-Director

JDR/JEK/og

cc: United States Geological Survey
Box 1857
Roswell, New Mexico

Commissioner of Public Lands Santa Fe, New Mexico

# State of New Mexico









Commissioner of Public Lands
January 6, 1976

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

El Paso Hatural Gas Company

P. O. Box 1492

El Paso, Texas 79999

Re: Sen Juan 32-9 Unit 1976 DRILLING PROGRAM Sen Juan County, New Mexico

ATTESTICM: Mr. D. N. Canfield

### Gentlemen:

The Commissioner of Public Lands has this date approved your 1976 Drilling Program for the San Juan 32-9 Unit, proposing the drilling of no wells during the calendar year 1976. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

In the future please submit Three (3) copies of your Plan of Development to this office. We shall retain two copies and return one approved copy to you.

Enclosed is one approved copy of the plan.

Please remit & Three (\$3.00) Dollar filing fee.

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY

RAY D. GRAHAM, Director Oil and Gas Division

PRL/RDG/s encl.

ee :

UNGS-Roswell, New Mexico OCC- Senta Fe, New Mexico

PLO BOX 1492 EL PASO, TEXAS 79073 PHONE: 915-543-2000

December 19, 1975

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1976 DRILLING PROGRAM

Gentlemen:

By letter dated January 14, 1975, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1975. Said programs provided for the drilling of two Pictured Cliffs wells, one prior to the end of 1974 and one in 1975. Well #84 was dually completed as a Pictured Cliffs/Nacimiento Formation Well, and each completion caused the initial expansion of its respective participating area. Well #86 was completed within the boundaries of the Pictured Cliffs Participating Area and did not cause an expansion of the Pictured Cliffs Participating Area.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Pictured Cliffs, Commercial	1
Dual Nacimiento/Pictured Cliffs,	
Commercial	1
Mesaverde, Commercial	<b>6</b> 8
Mesaverde, None-commercial	5
Mesaverde, Plugged & Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde/Dakota, Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-Commercial	1
Envitland Tomponanily Abandonad	· •

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1976 providing for the drilling of no wells during the calendar year 1976.

All the working interest owners have been contacted, and this Drilling Program reflects the desires of a majority of the working interest owners. El Paso Natural Gas Company, as Unit Gerator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

D. N. Canfield Director of Land

Energy Resource Development

! Carefreles

DNC:DW:sas Attachments San Juan 32-9, 3.0

APPROVED:	DATE:
Regional Oil & Gas Supervisor United States Geological Survey Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Commission	•
APPROVED:	DATE:
Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission	
APPROVED:  Oil Conservation Commission Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands	DATE: January 8,1976

The foregoing approvals are for the 1976 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

# SAN JUAN 32-3 UNIT Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3) Denver, Colorado

Amoco Production Company Farmington, New Mexico

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

Suzanne LaForce Baber

Douglas N. Bard

James C. Bard

Ralph A. Bard, Jr.

Roy E. Bard, Jr.

Tom Bolack

G. R. Brainard, Jr.

Brookhaven Oil Company

Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago, Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago, Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Suzette M. Davidson

Eleanor Isham Dunne

Charles W. Farnham

SAN JUAN 32-9 UNIT Working Interest Owners - Page Two

Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Fredrick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Robert S. Macdonald, Angus Macdonald and the Northern Trust Company, Trustees under the Will of Margaret S. Macdonald

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased

Mesa Petroleum Co. (2)

# SAN JUAN 32-9 UNIT Working Interest Owners - Page Three

Mabelle Miller

Northwest Pipeline Corporation

Phillips Petroleum Company

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company

Elizabeth B. Simpson Trust

Mr. William Simpson

Mr. Sydney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Mr. William P. Sutter

Tenneco Oil Company

Texaco Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Miss Mary S. Zick





P.O. BOX 11 @ EL.FAI.O., TERAS 72978 PHONE 1456543 0600

October 28, 1975

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
INITIAL EXPANDED PARTICIPATING AREA
Nacimiento Formation
Effective August 4, 1975

## Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the test date set out below that the following well capable of producing unitized substances in paying quantities from the Nacimiento Formation has been completed upon acreage committed to this unit, and will cause the initial expansion of the Nacimiento Participating Area; this well is as follows:

The San Juan 32-9 Unit #84 Well, located 900' from the South line and 1460' from the West line of Section 14, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, was spudded on January 17, 1975 and completed on June 5, 1975 as a dual Pictured Cliffs/Nacimiento well at a total depth of 3195'. The Nacimiento Formation between the intervals 978'-990' was treated with a sand-water fracturing process on April 27, 1975. The well was shut-in on May 12, 1975, and after being shut-in for gauge for twenty-four (24) days, the Nacimiento

Formation was tested on June 5, 1975, and following a three (3) hour blow-down period gauged 1338 MCFGPD through a 3/4" choke and 1422 MCFGPD by the calculated absolute open-flow method with an SIPT of 427 psia. The connitted drilling block upon which this well is located is described as the W/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M., and consists of 320.00 acres.

Attached is Schedule I showing the Intitial Expanded Participating Area for the Nacimiento Formation for the San Juan 32-9 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of August 4, 1975.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

James R. Permenter

Manager, Land Contracts & Titles

Land Department

Energy Resource Development

JRP:DW:sas Attachment SJ 32-9, 4.1

# SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3) Denver, Colorado

Amoco Production Company Farmington, New Mexico

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

Suzanne LaForce Baber

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

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Continental Oil Company

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

# SAN JUAN 32-9 UNIT Working Interest Owners - Page Two

Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

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Mesa Petroleum Co. (2)

# SAN JUAN 32-9 UNIT Working Interest Owners - Page Three

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Kay B. Towle

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Mr. Frederick F. Webster

Miss Mary S. Zick

SCHEDULE I
INITIAL PARTICIPATING AREA FOR THE NACIMIENTO FORMATION
SAN JUAN 32-9 UNIT AREA

			GAIN JOAN JET ONLL ANDA	D D		
SERIAL NUMBER	DESCRIPTION	NUMBER	DRILLING BLOCK		PERCENTAGE	PRESENT AC
-	-		TRACT 2			
SF 078316-B T	T-31-N, R-10-W	40.00				
ຮູ	Sec. 14: SW/4SW/4	4	Royalty Interest;	12.500000%	12.500000%	15.384616
			Working Interest:			
			El Paso Natural Gas Co.;	43.750000%	43.750000%	
			Amoco Production Co.;	25.520833%*	25.520833%*	
			Brookhaven Oil Co.:	18.229167%*	18.229167%*	
			ORRI;	. 000000%	.000000%	
*El Paso recove	*El Paso recovers Amoco & Brookhaven's	okhaven's	TOTAL	100.000000%	100.000000%	
share of costs	of costs out of 1/2 of their interest	r interest				
			TRACT 29 B			
NM 01594 T	T-31-N, R-10-W	120.00	Royalty Interest;	12.500000%	12.500000%	23.076923
SI	SE/4 NW/4	1	El Paso Natural Gas Co.;	42.000000%	42.000000%	
			L. C. Kelly;	21.000000%*	.000000%	
			Dorothy Kelly;	5.250000%*	.000000%	
			L. B. Kelly;	5.250000%*	.000000%	
			R. L. Kelly;	5. 250000% *	.000000%	
			G. L. Kelly;		. 000000%	
*El Paso recove	*El Paso recovers L.C. Kellv.et als	als	ORRI; TOTAL	100.000000%	55, 500000%	
share of costs	of costs out of 1/2 of their interest	r interest				
			TRACT 68			
Fee S	T-31-N <sub>f</sub> R-10-W Sec. 14: SW/4NW/4	40,00 4	Royalty Interest;	12.500000%	12.500000%	15.384615
		-	Working Interest:			
			El Paso Natural Gas Co.;	43.750000%	43.750000%	
-			Amoco Production Co.;	•		
			Brookhaven Oil Co.;	19.140625%*	19.140625%*	
•			ORRI;	. 000000%	.000000%	
*El Paso recov	*El Paso recovers Amoco & Brookhaven's	khaven's	TOTAL	100.0000%	100.00000%	

share of costs out of 1/2 of their interest

# SCHEDULE I

		NUMBER	DRILLING BLOCK	OCK	PERCENTAGE	PRESENT AC
SERIAL NUMBER		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPA
			TRACT 68 A			
Fee	T-31-N, R-10-W	80.00				
	Sec. 14: E/2SW/4		Royalty Interest;	12.500000%	12.500000%	30.7692315
			Working Interest:			•
			El Paso Natural Gas Co.;	43.750000%	43.750000%	
			Amoco Production Co.;	24,609375%	24.609375%	
			Brookhaven Oil Co.;	19.140625%	19.140625%	
			ORRI;	. 000000%	<b>,</b> 000000%	
			TOTAL	100.000000%	100.000000%	
Fee	T-31-N, R-10-W	40.00	TRACT 68 B			
	Sec. 14: NW/4SW/4	4	Royalty Interest; Working Interest:	12.500000%	12.500000%	15.384615
•			El Paso Natural Gas Co.;	43.750000%	43.750000%	
			Amoco Production Co.;	24.609375%	24.609375%	
			Brookhaven Oil Co.;	19.140625%	19.140625%	:
			ORRI;	. 500000%	. 500000%	
			TOTAL	100.000000%	100.000000%	
	•					

PAGE 2

# RECAPITULATION

Description of Lands in Participating Area

T-31-N, R-10-W, N.M.P.M. Section 14: W/2

Total Number of Acres in Participating Area
Total Number of Acres Committed in Participating Area

320.00 260.00

# El Paso Natural Gas Company

El Paso, Texas 79978

July 22, 1975



Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELL, Pictured Cliffs Formation

# Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in commercial quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the subject Unit. This well is as follows:

The San Juan 32-9 Unit #86 well, located 1840' from the North line and 1620' from the West line of Section 14, Township 31 North, Range 10 West, N.M.P.M., was spudded on January 5, 1975, and completed July 4, 1975, in the Pictured Cliffs Formation at a total depth of 3258'. The Pictured Cliffs Formation at the intervals of 3116', 3118', 3120', 3134', 3136' and 3140' was treated with a sand-water fracturing process on June 17, 1975. The well was shut-in on June 19, 1975, and after being shut-in for fifteen (15) days the well was tested on July 4, 1975, and following a three (3) hour blowdown period, the Pictured Cliffs Formation gauged 3559 MCF/D through a 3/4" choke and 4141 MCF/D by the calculated absolute open-flow method, with an SIPC of 922 psia. The spacing unit for this well is described as

Regional Oil & Gas Supervisor Commissioner of Public Lands Oil Conservation Commission July 22, 1975 Page 2

the W/2 of Section 14, Township 31 North, Range 10 West, containing 320.00 acres.

The spacing unit for this well was included in the San Juan 32-9 Unit, Initial Expanded Pictured Cliffs Participating Area effective June 24, 1975 and the completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

James Rhume t

/ James R. Permenter
Manager, Land Contracts & Titles
Land Department

Energy Resource Development

JRP:DW:nm Attachment San Juan 32-9 Unit, 4.1 NM-373

cc: Mr. Antonio Martinez Executive Director

New Mexico Oil & Gas Accounting Commission

P. O. Box 2308

Santa Fe, New Mexico 87501

SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas

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Amoco Production Company Farmington, New Mexico

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

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Mesa Petroleum Co. (2)

# SAN JUAN 32-9 UNIT Working Interest Owners - Page Three

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# El Paso Natural Gas Company

El Paso, Texas 79978

July 21, 1975

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit, #14-08-001-569
San Juan County, New Mexico
INITIAL EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective June 24, 1975

# Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the test date set out below that the following well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to this unit, and will cause the initial expansion of the Pictured Cliffs Participating Area, this well is as follows:

The San Juan 32-9 Unit #84 Well, located 900' from the South line and 1460' from the West line of Section 14, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, was spudded on January 17, 1975 and completed on June 5, 1975 as a dual Pictured Cliffs/Nacimiento well at a total depth of 3195'. The Pictured Cliffs Formation between the intervals 3050-74' was treated with a sand-water fracturing process on April 27, 1975. The well was shut-in on May 12, 1975, and after being shut-in for gauge for sixteen (16) days, the Pictured Cliffs Formation was tested on May 28, 1975, and following a three (3) hour blow-down period gauged 3197 MCFGPD through a 3/4" choke and 5972 MCFGPD by the calculated absolute open-flow method with an SIPT

Regional Oil and Gas Supervisor Commissioner of Public Lands Oil Conservation Commission July 21, 1975 Page 2

of 912 psia. The committed drilling block upon which this well is located is described as the W/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M., and consists of 320.00 acres.

The Nacimiento Formation is currently being evaluated to determine if it is commercial and cause an expansion of the Formation.

Attached is Schedule I showing the Initial Expanded Participating Area for the Pictured Cliffs Formation for the San Juan 32-9 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of June 24, 1975.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Yours very truly,

James R. Permenter

Jame & lument

Manager, Land Contracts & Titles

Land Department

Energy Resource Development

JRP:DW:nm Attachment SJ 32-9, 4.1 August 11, 1975

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
Initial Expanded Participating Area
Pictured Cliffs Formation
Effective June 24, 1975

# Gentlemen:

Please refer to the referenced expansion, which was submitted on July 21, 1975. In reviewing the expansion, it has been discovered that Schedule I, showing the breakdown of ownership and tracts, was incorrect insofar as the percentage of participation is concerned. Attached is a corrected copy of Schedule I to be substituted for the copy you received.

Copies of this letter and corrected schedules are being sent to the working interest owners.

Very truly yours,

Don Wadsworth

Landman

Land Department

Energy Resource Davelopment

DW:sas Enclosure SJ 32-0, 4.1

INITIAL PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 32-9 UNIT AREA SCHEDULE I

			SAN JUAN 32-9 UNIT AREA	A		
SERIAL NUMBER DESCR	DESCRIPTION		DRILLING BLOCK	CX	PERCENTAGE	PRESENT ACTU
		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATIO
SF 078316-B T-31-N.	R-10-W	40-00	TRACT 2			
Sec. 14:	Sec. 14: SW/4SW/4		Royalty Interest;	12.500000%	12.500000%	15.384616%
			Working Interest:			
			El Paso Natural Gas Co.;	43.750000%	43.750000%	
			Brookhaven Oil Co.:	18,229167%*	18,229167%*	
*El Paso recovers Amoco & Brookhaven's share of costs out of 1/2 of their interest	oco & Brool 1/2 of their	chaven's interest	TOTAL	100.000000%	100.000000%	
			TRACT 29 B			
NM 01594 T-31-N, R-10-W Sec. 14: N/2 NW/	T-31-N, R-10-W Sec. 14: N/2 NW/4.	120.00	Royalty Interest; Working Interest:	12.500000%	12,500000%	23.076923%
SE/4 NW/4	/4	•	El Paso Natural Gas Co.; L. C. Kelly;	42.000000% 21.000000%*	42.000000%	
			֓֞֝֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֝֓֓֡֡֝֓֓֓֡֡֝֓֡֓֡֡֡֡֝֓֡֡֡֡֝֡֡֡֡֡֡	5.250000%*	• 000000%	
			G. L. Kelly; ORRI;	5.250000% * 5.250000% * 3.500000%	. 000000% . 000000%	
*El Paso recovers L.C. Kelly, et als share of costs out of 1/2 of their interest	. Kelly, et a	ils interest	TOTAL	100.000000%	55,500000%	
Fee T-31-Nr	R-10-W	40.00	TRACT 68			
	Sec. 14: SW/4NW/4	-	Royalty Interest; Working Interest:	12.500000%	12.500000%	15.384615%
•		,	El Paso Natural Gas Co.;	43.750000% 24.609375%*	43.750000% 24.609375%*	
			Brookhaven Oil Co.;	19.140625%*	19.140625%*	
recovers.	oco & Brook 1/2 of their	haven's interest	TOTAL	100.00000%	100.000000%	
Fifective June 24, 1975	75					

# SCHEDULE I

		NUMBER	DRILLING BLOCK	OX	PERCENTAGE	PRESENT AC
SERIAL NUMBER	DEVC XIVIION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPA
			TRACT 68 A			
Fee	T-31-N, R-10-W	80.00				
•	Sec. 14: E/2SW/4		Royalty Interest;	12.500000%	12.500000%	30.769231%
			Working Interest:			•
	v		El Paso Natural Gas Co.;	43.750000%	43.750000%	
			Amoco Production Co.;	24.609375%	24.609375%	
			Brookhaven Oil Co.;	19.140625%	19.140625%	
		•	ORRI;	. 000000%	.000000%	
			TOTAL	100.000000%	100.000000%	
1			TRACT 68 B			
ree	1-31-N, K-10-W	40.00			•	
	Sec. 14; NW/4SW/4		Royalty Interest;	12.500000%	12.500000%	15.384615
			Working Interest:			
			El Paso Natural Gas Co.;	43.750000%	43,750000%	
	•		Amoco Production Co.;	24.609375%	24.609375%	
	·		Brookhaven Oil Co.;	19.140625%	19.140625%	
•			ORRI;	500000%	.500000%	
,			TOTAL	100.000000%	100.000000%	

PAGE 2

# RECAPITULATION

Description of Lands in Participating Area

T-31-N, R-10-W, N.M.P.M. Section 14: W/2

Total Number of Acres in Participating Area Total Number of Acres Committed in Participating Area

> 320.00 260.00

# El Paso Natural Gas Company

El Paso, Texas 1915

May 16, 1975

United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Re: 1975 Drilling Programs

# Gentlemen:

The 1975 Drilling Programs for the listed units were approved by the Regulatory Agencies on the dates indicated.

# DATE OF APPROVAL

<u>Unit</u>	<u>USGS</u>	<u>0CC</u>	<u>CPL</u>
San Juan 27-5	5-7-75	3-24-75	3-11-75
San Juan 28-5	5-7-75	3-24-75	1-15-75
San Juan 28-6	4-24-75	1-13-75	
San Juan 28-7	4-24-75	1-27-75	1-23-75
∕San Juan 32-9	4-24-75	1-27-75	1-23-75
Allison	5-6-75	4-14-75	4-2-75
Canyon Largo	4-23-75	1-27-75	1-23-75

Copies of this letter are being sent to the working interest owners of the units.

Yours very truly

Don Wadsworth

Landman

Land Department

Energy Resource Development



# United States Department of the Interior

# GEOLOGICAL SURVEY

Drawer 1357 Abswell, New Mexico 88201

April 24, 1975

- CO SPAVAREN COP A

El Paso Natural Gas Company Attention: Mr. D. N. Canfield

P. O. Box 1492

El Paso, Texas 79978

### Gentlemen:

Three approved copies of your 1975 plan of development for the San Juan 32-9 unit area, San Juan County, New Mexico, proposing the drilling of no additional wells other than the drilling of unit well No. 84, previously approved under your 1974 plan, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

JORIG, SGD. J CARL C. TRAYWICK

C. C. TRAYWICK
Acting Area 011 & Gas Supervisor

cc:

Durango (w/cy plan)
NMOCC, Santa Fe (ltr. only)
Commissioner of Public Lands, Santa Fe (ltr. only)

JAGillham/hr

# OIL CONSERVATION COMMISSION

P. O. BOX 2088

## SANTA FE NEW MEXICO 87501

4/5

January 27, 1975

El Paso Natural Gas Company Box 1492 El Paso, Texas 79978

Attention: Mr. D. N. Canfield

Re: 1975 Drilling Program, San Juan 32-9 Unit,

San Juan County, New Mexico.

# Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1975 for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

### ALP/JEK/og

cc: Commissioner of Public Lands Santa Fe, New Mexico

United States Geological Survey Roswell, New Mexico

State of New Mexico







Commissioner of Public Lands
January 23, 1975

PHIL R. LUCERO COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

El Pase Metural Gas Company

P. O. Box 1492

El Pase, Texas 79999

Re: San Juan 32-9 Unit San Juan County, New Mexico 1975 DRILLING PROGRAM

ATTEMPION: Mr. D. N. Confield

### Gent legen:

The Commissioner of Public Lands has this date approved your 1975 Drilling Program for the Sam Jean 32-9 Unit, proposing the drilling of no wells during the calendar year 1975 other than those being previously listed as being earried forward from the 1974 Drilling Program. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy of the plan.

Floor remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

PHIL R. LUCIERO COMMISSIONER OF PUBLIC LANDS

M:

RAY D. GRAHAM, Director Gil and Gas Division

PRL/RBG/e encl.

661

WGS-Rosvell, New Mexico OCC- Senta Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79978

January 14, 1975

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1975 DRILLING PROGRAM

### Gentlemen:

By letters dated February 20, 1974 and April 15, 1974, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program and a Supplemental Drilling Program on the captioned Unit for the calendar year 1974. Said programs provided for the drilling of two Pictured Cliffs wells during 1974. Well #86 is currently drilling and well #84 will be drilled during 1975 due to a shortage of tubular goods during 1974.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	68
Mesaverde, Non-Commercial	5
Mesaverde, Plugged & Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde-Dakota, Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Temporarily Abandoned	2
•	81

Regional Oil and Gas Supervisor Commissioner of Public Lands Oil Conservation Commission Page Two

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1975 providing for the drilling of no wells during the calendar year 1975 other than those being previously listed as being carried forward from the 1974 Drilling Program.

All working interest owners have been contacted and this Drilling Program reflects the desires of a majority of the working interest owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners shown on the attached sheet.

Yours very truly

D. N. Canfield Director of Land

Energy Resource Development

DNC:DW:km Enclosures

San Juan 32-9, 3.0

Regional Oil and Gas Supervisor Commissioner of Public Lands Oil Conservation Commission Page Two

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1975 providing for the drilling of no wells during the calendar year 1975 other than those being previously listed as being carried forward from the 1974 Drilling Program.

All working interest owners have been contacted and this Drilling Program reflects the desires of a majority of the working interest owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

D. N. Canfield
Director of Land
Energy Resource Development

DNC:DW:km Enclosures San Juan 32-9, 3.0

APPROVED:	Regional Oil & Gas Supervisor United States Geological Survey Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Commission	DATE:
APPROVED:	Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission	DATE:
APPROVED:	Oil Conservation Commission Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands	DATE: <u>Samury 27, 1</u> 97

The foregoing approvals are for the 1975 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

#### SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3) Denver, Colorado

Amoco Production Company Farmington, New Mexico

Atlantic Richfield Company (3)

Aztec 0il & Gas Company

Suzannce LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago, Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago, Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

SAN JUAN 32-9 UNIT Working Interest Owners - Page Two

Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Fredrick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Robert S. Macdonald, Angus Macdonald and the Northern Trust Company, Trustees under the Will of Margaret S. Macdonald

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased

Mesa Petroleum Co. (2)

#### SAN JUAN 32-9 UNIT Working Interest Owners - Page Three

Mabelle Miller

Northwest Pipeline Corporation

Phillips Petroleum Company

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company

Elizabeth B. Simpson Trust

Mr. William Simpson

Mr. Harold Byron Smith

Mr. Sidney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Mr. William P. Sutter

Tenneco Oil Company

Texaco Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Miss Mary S. Zick

# El Paso Natural Gas Company

El Paso, Texas 79978

May 30, 1974

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

1974 SUPPLEMENTAL DRILLING PROGRAM

#### Gentlemen:

This is to advise that the captioned supplemental drilling program was approved by the regulatory agencies on the following dates:

United States Geological Survey Commissioner of Public Lands Oil Conservation Commission May 22, 1974 April 23, 1974

April 23, 1974 April 22, 1974

Copies of this letter will be sent to the working interest owners of the San Juan 32-9 Unit.

Yours very truly,

Robert G. Clark

Landman

Land Department

Energy Resource Development

RGC:sn

S.J. 32-9, 3.0



### United States Department of the Interior

## GEOLOGICAL SURVEY Drawer 1857 Roswell, New Mexico 88201

May 22, 1974

El Paso Natural Gas Company Attention: Mr. D. N. Camfield P.O. Box 1492 El Paso, Texas 79978

#### Gentlemen:

Your supplement dated April 15, 1974, to the 1974 plan of development for the San Juan 32-9 unit area, San Juan County, New Mexico, wherein you propose to drill Pictured Cliffs well No. 86, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Approved copies of such supplemental plan are being distributed to the appropriate Federal effices and three approved copies are enclosed.

Sincerely yours,

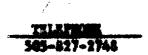
(ORIG. SGL.) N. O. FRELEATOK

N. O. FREDERICK Area Oil and Gas Supervisor

cc:
NMOCC, Santa Fe (1tr only)
Com. Pub. Lands, Santa Fe (1tr only)
Farmington (w/cy plan)

JAGillham:ds

### State of New Mexico





ALEX J. ARMIJO COMMISSIONER



Commissioner of Public Lands

P. O. BOX 1148 SANTA FE, NEW MEXICO

El Paso Matural Gas Company

2. O. Box 1492

El Paso, Texas 79999

Re: San Juan 32-9 Unit San Juan County, New Mantico,

1974 SUPPLEMENTAL DRILLING

PROGRAM

ATTEMPION: Mr. D. M. Confield

Gent lessen:

The Commissioner of Public Lends has this date approved your 1974 Supplemental Drilling Program for the San Juan 32-9 Unit, proposing the drilling of the San Juan 32-9 Unit Com # 86 Well in the W/2 of Section 14, Tourship 31 North, Range 19 West. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one epproved copy of the plan.

Please remit a Three (\$3.00) Dellar filing fee.

Very truly yours,

RAY D. GRAMM, Director Oil and Gas Department

AJA/MDG/s encl.

661

USGS-Recommendation New Mexico

### OIL CONSERVATION COMMISSION P. O. BOX 2088

#### SANTA FE, NEW MEXICO 87501

2/15

April 22, 1974

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

Attention: Mr. D. N. Canfield

Re: 1974 Supplemental Drilling Program San Juan 32-9 Unit, San Juan County, New Mexico.

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1974 providing for the drilling of one Pictured Cliffs well for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Vary truly yours,

A. L. PORTER, Jr. Secretary-Director

#### ALP/JEK/og

cc: Commissioner of Public Lands Santa Fe, New Mexico

United States Geological Survey Roswell, New Mexico

### El Paso Natural Gas Company

El Paso, Texas 79978

April 15, 1974

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico, 1974 SUPPLEMENTAL DRILLING PROGRAM

#### Gentlemen:

By letter dated February 28, 1974, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1974. Said program provided for the drilling of one (1) Pictured Cliffs well during 1974.

Pursuant to Section 10 of the San Juan 32-9 Unit Agricument, Ill Paso Natural Gas Company, as Unit Operator, now wishes to supplement its 1974 Drilling Program to provide for the drilling of the following described well during the 1974 calendar year:

#### Location

#### Formation

San Juan 32-9 Unit Com #86 Well, W/2 Sec. 14, T-31-N, R-10-W

Pictured Cliffs

All working interest owners have been contacted and this Drilling Program reflects the desires of a majority of the working interest and the Paso Natural Gas Company, as Unit Operator, and the majority of the working interest owners believe that all current obligations have been satisfied.

Regional Oil & Gas Supervisor Commissioner of Public Lands Oil Conservation Commission Page Two

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

D. N. Canfield

Manager

Land Department

Energy Resource Development

DNC:AA:lj Enclosures SJ 32-9 Unit 3.0

APPROVED:		DATE:
	Regional Oil & Gas Supervisor United States Geological Survey Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Commission	
APPROVED:	Commissioner of Public Lands Subject to like approval by the United States Geological Survey	DATE:

APPROVED:

Oil Conservation Commission Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands

and the Oil Conservation Commission

DATE: (4rd 22, 1974

The foregoing approvals are for the Supplemental 1974 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

#### SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3)

Denver, Colorado

Amoco Production Company Farmington, New Mexico

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

Suzanne LaForce Baber

Mr. James C. Bard

Mr. Ralph A. Bard

Mr. Ralph Austin Bard, Jr.

Douglas N. Bard

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Mrs. Nancy H. Gerson

Mr. J. C. Halls, Trustee

Mrs. Ruth N. Halls, Trustee

Mr. Cortlandt T. Hill

Elsie F. Hill

Louis W. Hill, Jr.

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keys

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee

Robert S. Macdonald, Angus Macdonald and the Northern Trust Company, Co-Trustees under the Will of Margaret S. Macdonald

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased

Mesa Petroleum Co. (2)

Mr. Forrest B. Miller and Mabelle M. Miller

Phillips Petroleum Company

Northwest Pipeline Corporation

Nora B. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company

Mr. William Simpson

Mr. Harold Byron Smith

Mr. Sidney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Elizabeth B. Simpson Trust

Miss Mary S. Zick

基金表

## El Paso Natural Gas Company

El Paso, Texas 7905 April 4, 1974 219

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 #14-08-001-569

San Juan County, New Mexico 1974 DRILLING PROGRAM

#### Gentlemen:

This is to advise that the captioned Drilling Program was approved by the Regulatory Agencies on the following dates:

United States Geological Survey
Commissioner of Public Lands
Oil Conservation Commission

March 15, 1974 March 18, 1974

March 25, 1974

Copies of this letter are being sent to the working interest owners of the San Juan 32-9 Unit.

Yours very truly,

Alan Alexander

Landman

Land Department

Energy Resource Development

AA:sn S.J. 32-9

## OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

March 18, 1974

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

Attention: Mr. D. N. Canfield

Re: 1974 Drilling Program
San Juan 32-9 Unit,

San Juan County, New Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Brilling Program providing for the drilling of one Fictured Cliffs well during the calendar year 1974 for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Servey and the Commissioner of Public Lands of the State New Mexico.

One approved copy of the program is returned

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

#### ALP/JEK/og

es: Commissioner of Public Lands Santa Fe, New Mexico

U. S. Geological Survey Roswell, New Mexico

State of New Mexico

305-827-2748



ALEX J. ARMIJO COMMISSIONER



Commissioner of Public Lands

475

P. O. BOX 1148 SANTA FE, NEW MEXICO

El Puco Notural Gas Company F. O. Bom 1402 El Puco, Tomas 79999

> Re: Sen Juan 32-9 Unit Sem Juan County, New Mexico 1974 DRILLING PROGRAM

ATTRICTION: Mr. D. W. Confield

Centlemen:

The Commissioner of Public Lands has this date approved your 1974 Duilling Program for the Sun Juan 32-9 Unit, proposing the drilling of one Pictured Gliffs well. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Inclosed is one approved copy of the plan.

Please remit a Three (\$3.00) Bollar filing fee.

Very truly yours,

BAY D. GRAHAM, Director 011 and Gas Department

AM/MS/s emsl.

-

UNCO-Result, New Maxico OCC- Sents Fe, New Mexico

MAR 11

## El Paso Matural Gas Company

El Paso, Texas 79978

March 7, 1974

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico 1974 DRILLING PROGRAM

#### Gentlemen:

By letter dated February 28, 1974, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the above referenced unit for the calendar year 1974. Said program provided for the drilling of the San Juan 32-9 #84 well located on the W/2 of Section 14, T-32-N, R-10-W. Please correct the township and range to read T-31-N, R-10-W.

We apologize for any inconvenience that may have been incurred.

Yours very truly,

Alán Alexander,

Landman

Land Department

Energy Resource Development

AA:mcv SJ 32-9, 3.0 SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3) Denver, Colorado

Amoco Production Company Farmington, New Mexico

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

Suzanne LaForce Baber

Mr. James C. Bard

Mr. Ralph A. Bard

Mr. Ralph Austin Bard, Jr.

Douglas N. Bard

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Mrs. Nancy H. Gerson

Mr. J. C. Halls, Trustee

Mrs. Ruth N. Halls, Trustee

Mr. Cortlandt T. Hill

Elsie F. Hill

Louis W. Hill, Jr.

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee

Robert S. Macdonald, Angus Macdonald and the Northern Trust Company, Co-Trustees under the Will of Margaret S. Macdonald

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased

#### SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Mesa Petroleum Corporation (2)

Mr. Forrest B. Miller and Mabelle M. Miller

Phillips Petroleum Company

Northwest Pipeline Corporation

Nora B. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company

Mr. William Simpson

Mr. Harold Byron Smith

Mr. Sidney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Mr. William P. Sutter

Tenneco Oil Company

Texaco Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Elizabeth B. Simpson Trust

Miss Mary S. Zick



Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1974 DRILLING PROGRAM

#### Gentlemen:

By letter dated May 9, 1973, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1973. Said program provided for the drilling of two (2) Fruitland wells during 1973. The #80 and #81 wells were completed in the Fruitland Formation. Test results indicated that these wells would not be capable of producing unitized substances in paying quantities from this formation. An attempt will be made to plug the Fruitland Formation and recomplete these wells in the Pictured Cliffs Formation.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	68
Mesaverde, Non-Commercial	5
Mesaverde, Plugged & Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde-Dakota, Dual	
(Plugged back to Mesaverde)	7
(Plugged and Abandoned)	1
Dakota, Non-Commercial	7
Fruitland, Temporarily Abandoned	2
•	81

Regional Oil & Gas Supervisor Commissioner of Public Lands Oil Conservation Commission Page Two

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1974 providing for the drilling of the following described well:

#### Location

Formation

San Juan 32-9 Unit #84 Well W/2 Sec. 14, T 32 N, R-10-W

Pictured Cliffs

All working interest owners have been contacted and this Drilling Program reflects the desires of a majority of the working interest owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Faso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

D. N. Canfield

Manager

Land Department

Energy Resource Development

DNC:AA:mcv Enclosures S.J. 32-9, 3.0

Company (4 hours)

APPROVED:	Regional Oil & Gas Supervisor United States Geological Survey Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Commission	DATE:	
<b>APPROVE</b> D:	Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission	DATE:	

APPROVED:

Oil Conservation Commission
Subject to like approval by the
United States Geological Survey
and the Commissioner of Public Lands

DATE: March 19, 1978

The foregoing approvals are for the 1974 Drilling Program for the San Juan 52-9 Unit, #14-08-001-569, San Juan County, New Mexico.

#### SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3) Denver, Colorado

Amoco Production Company Farmington, New Mexico

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

Suzanne LaForce Baber

Mr. James C. Bard

Mr. Ralph A. Bard

Mr. Ralph Austin Bard, Jr.

Douglas N. Bard

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank
& Trust Company of Chicago
Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Mrs. Nancy H. Gerson

Mr. J. C. Halls, Trustee

Mrs. Ruth N. Halls, Trustee

Mr. Cortlandt T. Hill

Elsie F. Hill

Louis W. Hill, Jr.

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Ishan, Jr.

Mr. R. Melson Ishta

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson Laforce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee

Robert S. Macdonald, Angus Macdonald and the Northern Trust Company, Co-Trustees under the Will of Margaret S. Macdonald

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased



### State of New Mexico

TELEPHONE 505-827-2748



Commissioner of Public Lands

Hey 24, 1973

P. O. BOX 1148 SANTA FE, NEW MEXICO

ALEX J. ARMIJO COMMISSIONER

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79999

Re: San Juan 32-9 Unit

San Juan County, New Mexico

1979 DRILLING PROCRAM

ATTENTION: Mr. D. N. Canfield

#### Gentlemen:

The Commissioner of Public Lands has this date approved your 1973 Drilling Program for the San Juan 32-9 Unit, proposing the drilling of two Fruitland wells. Both the United States Geological Survey and the New Mexico Oil Conservation Commission have given their approval.

Enclosed is one approved copy of the plan.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

BAY D. GRAHAM, Director Oil and Gas Department

AJA/REG/s

ec:

OCC-Sents Fe, New Mexico / UBGS-Roovell, New Mexico

### OIL CONSERVATION COMMISSION P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 18, 1973

El Paso Natural Gas Company Box 1492 El Paso, Texas 79978

Re: 1973 Drilling Program
San Juan 32-9 Unit, San
Juan County, New Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1973 providing for the drilling of two wells for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

#### ALP/JEK/og

cc: United States Geological Survey - Roswell Commissioner of Public Lands - Santa Fe



## United States Department of the Interior

GEOLOGICAL SURVEY

#### Drawer 1857 Roswell, New Mexico 88201

May 21, 1973

El Paso Hatural Gas Company Attention: Mr. D. M. Canfield P. O. Box 1492 El Paso, Texas 79978

#### Gentlemen:

Two approved copies of your 1973 plan of development for the Sen Juan 32-9 unit area, San Juan County, New Mexico, proposing the drilling of two Fruitland wells, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SOD)

CARL C. TRAYWICK Acting Area Oil and Gas Supervisor

Washington (thru Denver) (w/cy plan) Parmington (w/cy plan) MMOCC, Santa Fe (ltr. only) Com. Pub. Lands, Santa Fe (1tr. only)

JAG111ham: 1h

### El Paso Natural Gas Company

El Paso, Texas 19978

May 9, 1973

pervisor
cal Survey

OIL CONSERVATION Constants Fe

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1973 DRILLING PROGRAM

#### Gentlemen:

By letter dated March 20, 1972, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1972. Said program provided for the drilling of one (1) Mesaverde well during 1972. The Mesaverde #32-Y well was timely drilled and completed within the existing Mesaverde Participating Area. This well is the replacement well for the #32 Mesaverde well which will be permanently abandoned.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	68
Mesaverde, Non-Commercial	5
Mesaverde, Plugged & Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde-Dakota, Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-Commercial	1
•	79

Regional Oil & Gas Supervisor Commissioner of Public Lands Oil Conservation Commission Page Two

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1973 providing for the drilling of the following described wells:

Location	Formation
32-9 Unit #80 Well 23, T-32-N, R-10-W	Fruitland
 32-9 Unit #81 Well 26, T-32-N, R-10-W	Fruitland

All working interest owners have been contacted and this Drilling Program reflects the desires of a majority of the working interest owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

D. N. Canfield

Manager, Land Department Energy Resource Developmen-

DNC:AEA:dkc Enclosures S.J. 32-9, 3.0

APPROVED	Regional Oil and Gas Supervisor United States Geological Survey Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Commission	DATE:	•
APPROVED	: Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission	DATE:	
APPROVED	: A Rutur, Sommission	DATE: May 12	3 <sub>, 1</sub> 973

The foregoing approvals are for the 1973 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

Subject to like approval by the United States Geological Survey and the Commissioner of Public

Lands

### SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3) Denver, Colorado

Amoco Production Company Farmington, New Mexico

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

Suzanne LaForce Baber

Mr. James C. Bard

Mr. Ralph A. Bard

Mr. Ralph Austin Bard, Jr.

Estate of Roy E. Bard
The Northern Trust Company
and James C. Bard

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mr. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farmham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Mrs. Nancy H. Gerson

Mr. J. C. Halls, Trustee

Mrs. Ruth N. Halls, Trustee

Mr. Cortlandt T. Hill

Elsie F. Hill

Louis W. Hill, Jr.

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee

Robert S. Macdonald, Angus Macdonald and the Northern Trust Company, Co-Trustees under the Will of Margaret S. Macdonald

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Mr. Forrest B. Miller and Mabelle M. Miller

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company

Mr. William Simpson

Mr. Harold Byron Smith

Mr. Sidney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Mr. William P. Sutter

Tenneco Oil Company

Texaco Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Elizabeth B. Simpson Trust

Miss Mary S. Zick

## El Paso Natural Gas Company

El Paso, Texas 79999

August 16, 1972

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

> San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico NOTICE OF COMPLETION OF ADDITIONAL WELL, Mesaverde Formation

4/11

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in commercial quantities from the Mesaverde Formation has been completed upon acreage committed to the subject Unit. This well is as follows:

The San Juan 32-9 Unit #32-Y Well, located 990' from the South line and 850' from the West line of Section 31, Township 32 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on June 29, 1972 and completed in the Mesaverde Formation on July 13, 1972 at a total depth of 6311'. The Mesaverde Formation from 5502'-5510', 5524'-**5530', 5544'-5552', 5566'-5572', 5898'-5910', 5924'-5932', 5944'-5956', 5974'-5986', 6004'-6024', 6050'-6058', 6160'-**6180' was treated with a sand-water fracturing process on July 12, 1972. The well was shut-in on July 13, 1972, and after being shut-in for eleven (11) days, the Mesaverde Formation was tested on July 24, 1972, and following a three (3) hour blow-down period gauged 4166 MCFGPD through a 3/4" choke and 10,331 MCFGPD by the calculated absolute open-flow method, with an SIPC of 876 psia and an SIPC of 543 psia. The committed spacing unit upon which this well

### El Paso Natural Gas Company

El Paso, Texas 79999

August 16, 1972

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

> San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico NOTICE OF COMPLETION OF ADDITIONAL WELL, Mesaverde Formation

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in commercial quantities from the Mesaverde Formation has been completed upon acreage committed to the subject Unit. This well is as follows:

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Regional Oil & Gas Supervisor Commissioner of Public Lands Oil Conservation Commission Page Two

is located is described as Lots 7, 8, 9, 10, 15, 16, 17, 18 (W/2) Sec. 31, Township 32 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, containing 205.66 acres, more or less.

The acreage upon which the San Juan 32-9 Unit #32-Y Well is located was included in the Twelfth Expanded Participating Area for the Mesaverde Formation effective September 1, 1955, and the completion of this well does not warrant any further expansion of the Mesaverde Participating Area.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

James R. Permenter
Supervising Landman
Land Department

Energy Resource Development

JRP:CTR:dks San Juan 32-9 Unit 4.2.1 NM-929

cc: Mrs. Pepita O. Jeffus
Executive Director
New Mexico Oil & Gas Accounting Commission
P. O. Box 2308
Santa Fe, New Mexico 87501

SAN JUAN 32-9 UNIT Working Interest Owner

American Petrofina Company of Texas

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company Farmington, New Mexico

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

Suzanne LaForce Baber

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Austin Bard, Jr.

Estate of Roy E. Bard
The Northern Trust Company and
James C. Bard

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mr. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago
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Continental Oil Company

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Suzette M. Davidson

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Mr. Charles W. Farnham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Mr. Jay C. Halls, Trustee

Ruth N. Halls, Trustee

Nancy H. Haskins

Mr. Cortlandt T. Hill

Elsie F. Hill

Louis W. Hill, Jr.

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Fredric P. G. Lattner, Trustee

Robert S. Macdonald, Angus Macdonald and The Northern Trust Company, Co-Trustees under the Will of Margaret S. Macdonald

#### SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased

Mr. Forrest B. Miller and Mabelle M. Miller

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company

Mr. William Simpson

Mr. Harold Byron Smith

Mr. Sidney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Mr. William P. Sutter

Tenneco Oil Company

Texaco Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw Mr. Frederick F. Webster

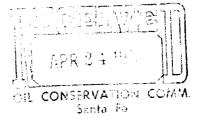
Mr. Frederick F. Webster and Mr. John M. Simpson, Trustees Estate of James Simpson, Jr.

Miss Mary S. Zick

### El Paso Natural Gas Company

El Paso, Texas 71978

April 19, 1972



Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569

Rio Arriba County, New Mexico

1972 DRILLING PROGRAM

#### Gentlemen:

The 1972 Drilling Program for the San Juan 32-9 Unit dated March 20, 1972, was approved by the regulatory bodies on the following dates:

United States Geological Survey - April 14, 1972 Commissioner of Public Lands - March 29, 1972 Oil Conservation Commission - March 30, 1972

Copies of this letter are being sent to the working interest owners of the referenced Unit.

Yours very truly,

James R. Permenter Supervising Landman Land Department

Energy Resource Development

JRP:dks S.J. 32-9, 3.0, 4.3



United States Department of the

GEOLOGICAL SURVEY



Prawer 1857 Reswell, New Mexico 88201

Santa Fe

April 14, 1972

R1 Page Matural Gas Company P.O. Box 1492 R1 Page, Touse 79978

Attention: Mr. D. N. Canfield

Gentlemen:

Your 1972 plan of development for the San Juan 32-9 unit area, San Juan County, New Mexico, proposing the drilling of one Mesaverde well, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(OR.

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:

Washington (w/cy plan)
Farmington (w/cy plan)
NeiOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)

JWillock:ds

#### OIL CONSERVATION COMMISSION

P. O. BOX 2088

#### SANTA FE, NEW MEXICO 87501

March 30, 1972

475

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79978

Attention: Mr. D. N. Canfield

Re: 1972 Drilling Program

San Juan 32-9 Unit

San Juan County, New Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program providing for the drilling of a Mesaverde well during the calendar year 1972 for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

#### ALP/JEK/og

cc: United States Geological Survey Roswell, New Mexico

Commissioner of Public Lands Santa Fe, New Mexico

MAR : 0 197;

4/1

March 29, 1972

El Paso Matural Gas Company P. O. Box 1492 El Paso, Texas 79999

> Re: San Juan 32-9 Unit San Juan County, New Mexico 1972 DRILLING PROGRAM

ATTENTION: Mr. D. M. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1972 Drilling Program for the San Juan 32-9 Unit, proposing the drilling of one Mesaverde well in the W/2 of Section 31, Township 32 North, Range 9 West, San Juan County, New Mexico. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy of the plan.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director Oil and Gas Department

AJA/RDG/s engls.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico

## El Paso Natural Gas Company

El Paso, Texas 79978

March 20, 1972

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1972 DRILLING PROGRAM

#### Gentlemen:

By letter dated January 6, 1971, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1971. Said Program provided for the drilling of no wells during 1971, but a Supplemental 1971 Drilling Program was submitted on March 22, 1971, providing for the drilling of one (1) Mesaverde Well in 1971 as a replacement well. However, this proposed San Juan #17-Y Mesaverde replacement Well was subsequently deleted from the 1971 Drilling Program, and no wells were drilled in the subject Unit during the calendar year 1971.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	67
Mesaverde, Non-commercial	5
Mesaverde, Plugged & Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde-Dakota, Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-commercial	1
	$\overline{78}$

APPROVED:		DATE:	
	Regional Oil and Gas Supervisor United States Geological Survey Subject to like approval by the Commissioner of Public Lands and		
APPROVED:	Commissioner of Public Lands Subject to like approval by the	DATE:	
APPROVED:	United States Geological Survey and the Oil Conservation Commission  Oil Conservation Commission  Subject to like approval by the	DATE:	
	United States Geological Survey and		

The foregoing approvals are for the 1972 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

the Commissioner of Public Lands

#### SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3)

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

Suzanne LaForce Baber

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Austin Bard, Jr.

Estate of Roy E. Bard The Northern Trust Company and James C. Bard

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Mr. Jay C. Halls, Trustee

Ruth N. Halls, Trustee

Nancy H. Haskins

Mr. Cortlandt T. Hill

Elsie F. Hill

Louis W. Hill, Jr.

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Fredric P. G. Lattner, Trustee

Robert S. Macdonald, Angus Macdonald and The Northern Trust Company, Co-Trustees under the Will of Margaret S. Macdonald

#### SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased

Mr. Forrest B. Miller and Mabelle M. Miller

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company

Mr. William Simpson

Mr. Harold Byron Smith

Mr. Sidney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Mr. William P. Sutter

Tenneco Oil Company

Texaco Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw Mr. Frederick F. Webster

Mr. Frederick F. Webster and Mr. John M. Simpson, Trustees Estate of James Simpson, Jr.

Miss Mary S. Zick

## El Paso Natural Gas Company

El Paso, Texas 79978

June 2, 1971

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Re: 1971 SUPPLEMENTAL DRILLING PROGRAM

San Juan County, New Mexico

#### Gentlemen:

The 1971 Supplemental Drilling Program for the following Unit was approved by the Regulatory Bodies on the dates indicated.

<u>Unit</u>	USGS	CPL	<u>occ</u>
San Juan 32-9 Unit #14-08-001-569	4-6-71	3-29-71	5-28-71

Copies of this letter are being sent to the working interest owners of the above described Unit.

Yours very truly,

Charles T. Richardson

Senior Landman Land Department

Energy Resource Development

CTR:khs

S.J. 32-9 Unit - 3.0

#### OIL CONSERVATION COMMISSION

P. O. BOX 2088

#### SANTA FE, NEW MEXICO 87501

May 28, 1971

4/5

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1971 Supplemental Drilling Program, San Juan 32-9 Unit, Rio Arriba County, New Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1971 Supplemental Drilling Program dated March 22, 1971, for the San Juan 32-9 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

#### ALP/JEK/og

cc: United States Geological Survey Roswell, New Mexico

Commissioner of Public Lands Santa Pe, New Mexico

#### Drawer 1857 Reguell, New Mexico 88201

April 5, 1971

4/1

El Paso Matural Gas Company

P. O. Ben 1492

El Paso, Texas 79999

Attention: Mr. T. W. Bittick

#### Gentlemen:

Your 1971 supplemental plan of development for the San Juan 32-9 unit area, San Juan County, New Mexico, proposing the drilling of one Messwerde well, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

N. O. FREDERICK Regional Oil and Gas Supervisor

cc:

Washington (w/cy plan)
Farmington (w/cy of plan)
NMOCC, SantaFe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)



#### March 29, 1971

El Page Matural des Company P. O. Box 1493

11 Page, Taxas 79999

Re: San Juan 32-9 Unit Rio Arriba County, New Mexico 1971 SUPPLEMENTAL DRILLING PROGRAM

MERCHERON: Mr. T. W. Mittick

Centlemen:

The Commissioner of Public Lands has this date approved your 1971 Supplemental Drilling Program for the San Juan 19-0 Unit, proposing the drilling of a Mesaverde well in the W/2 of Section 8, Township 31 North, Range 9 West, Rio Arriba County, New Mexico. This approval is subject to like approval by the United States Geological Survey and the Dil Conservation Commission.

Emelesed is one approved copy of the plan.

Please remit three (\$3.00) Dollars filing fee.

Sincerely yours,

GORDON G. MARCUM, II, Director Oil and Gas

AM/COL/o

Will-Resull, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79999

March 22, 1971

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 Rio Arriba County, New Mexico 1971 SUPPLEMENTAL DRILLING PROGRAM

#### Gentlemen:

By letter dated January 6, 1971, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1971. This Program provides for the drilling of no wells during 1971, and you previously approved same.

El Paso Natural Gas Company now desires, as Unit Operator with the concurrence of a majority of the Unit working interest owners, to amend this 1971 Program and provide for the drilling of a Mesaverde Formation well in the W/2 of Section 8, T-31-N, R-9-W, N.M.P.M. during 1971. This Well will be designated the San Juan 32-9 Unit #17-Y Mesaverde Well and will be drilled within the boundaries of the existing Mesaverde Participating Area. The #17-Y Well will be located on the same spacing unit as our San Juan 32-9 Unit #17 Mesaverde Well, in which production has been decreasing due to water problems.

In addition to the #17-Y Well, El Paso Natural Gas Company, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances, and any other well deemed necessary or desirable by the Unit Operator or the working interest owners.

Regional Oil & Gas Supervisor Commissioner of Public Lands Oil Conservation Commission Page 2

If this 1971 Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to this office.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

T. W. Bittick

Director

Lands and Administration Energy Resource Development

TWB:CTR:1j

**S.J.** 32-9 Unit - 3.0

APPROVED:	<u> </u>	DATE:	
	Regional Oil and Gas Supervisor United States Geological Survey Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Commission		
APPROVED	:	DATE:	
111 - 1	Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission		
APPROVED	I. S. Cartin	DATE:	ź
	Oil Conservation Commission	•	
	Subject to like approval by the		

The foregoing approvals are for the 1971 Supplemental Drilling Program for the San Juan 32-9 Unit #14-08-001-569, Rio Arriba County, New Mexico.

United States Geological Survey and the Commissioner of Public Lands

#### SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3)

Atlantic Richfield Company (3)

Aztec Oil & Gas Company

Suzanne LaForce Baber

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Auston Bard, Jr.

Estate of Roy E. Bard
The Northern Trust Company and
James C. Bard

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23949

Continental Oil Company

Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Mr. Jay C. Halls, Trustee

Ruth N. Halls, Trustee

Nancy H. Haskins

Mr. Cortlandt T. Hill

Elsie F. Hill

Louis W. Hill, Jr.

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Fredric P. G. Lattner, Trustee

Robert S. Macdonald, Angus Macdonald and The Northern Trust Company, Co-Trustees under the Will of Margaret S. Macdonald

#### SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased Mr. Frederick F. Webster

Miss Mary S. Zick

Mr. Forrest B. Miller and Mabelle M. Miller

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company Elizabeth B. Simpson Trust

Mr. Harold Byron Smith

Mr. Sidney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Sunset International Petroleum Corp.

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Drawer 1857 Magnell, New Mexico 88201

February 23, 1971

II. Name Material Can Company J. G. Bass 1492 II: China. Manage 78989

Attention: Mr. T. W. Bittick

Bert Errer:

Book Mill plan of development for the San Juan 32-9 unit county. New Mexico, proposing the drilling of the additional unit, has been approved on this date and just to like approval by the appropriate State officials.

The approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SGD.) N. O. FREEDING

N. O. FREDERICK Regional Oil and Gas Supervisor

Technolom (w/cy plan)

January 15, 1971

Hi Page Mitarel Cas Company P. O. Bon 1492 Hi Dago, Touse 75009

> Re: San Juan 32-9 Unit San Juan County, New Mexico 1971 DRILLING PROGRAM

Memphe: Mr. T. W. Bittick

Contlemen:

The Countesiener of Public Lands has this date approved year 1971 Brilling Program for the San Juan 32-9 Unit, San Juan Gounty, New Mexico, proposing the drilling of no additional units. This approval is subject to like approval by the United Santas Goolegical Survey and the Oil Conservation Commission.

Enclosed is one approved copy of the plan.

Phones would Three (\$3.00) Dollars filing fee.

Sincerely yours,

GORDON G. MARCUM; II, Director Oil and Gas Department

ada/tem/o mark, 1

**WAS-Reguell,** New Mexico  $\phi$ CC-Sumbs Fe, New Mexico  $\omega$ 

#### OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 15, 1971

o Matural Gas Company R 1492 O. **Terras** 79999

**Milon:** Mr. T. W. Bittick

1971 Drilling Program San Juan 32-9 Unit Re:

Rio Arriba County, New Mexico

This is to advise that the New Mexico Oil Conservation design has this date approved the Drilling Program for calendar year 1971, providing for the drilling of no wells the year for the San Juan 32-9 Unit, San Juan County, same, subject to like approval by the United States Lati Survey and the Commissioner of Public Lands of ate of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. B. PORTER, Jr. Secretary-Director

mitted States Geological Survey Spenier 1857 Recvell, New Mexico 88201

Commissioner of Public Lands P. O. Box 1148 Sente Pe, New Mexico 87501

# El Paso Matural Gas Company

El Paso, Texas 79999

January 6, 1971

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1971 DRILLING PROGRAM

#### Gentlemen:

By letter dated January 6, 1970, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1970. Said Program provided for the drilling of no wells and none were drilled in subject Unit during 1970.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	67
Mesaverde, Non-commercial	5
Mesaverde, Plugged & Abandoned	1
Mesaverde, Temporarily Abandoned	2
Mesaverde-Dakota, Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-commercial	1
	78

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1971, providing for the drilling of no wells during the year.

Regional Oil & Gas Supervisor Commissioner of Public Lands Oil Conservation Commission Page Two

All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

T'. W. Bittick

Manager

Land Department

TWB:AT:ec Enclosures SJ 32-9, 3.0

APPROVED:		DATE:
	Regional Oil and Gas Supervisor	
	United States Geological Survey	
	Subject to like approval by the	
	Commissioner of Public Lands and	
	the Oil Conservation Commission	
APPROVED:		DATE:
	Commissioner of Public Lands	
	Subject to like approval by the	
	United States Geological Survey and	
	the Oil Conservation Commission	
	1	
APPROVED:	4. Tickette	DATE: 1.15-71
	Oil Conservation Commission	
	Subject to like approval by the	
	United States Geological Survey and	

The foregoing approvals are for the 1971 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

the Commissioner of Public Lands

SAN JUAN 32-9 UNIT Working Interest Owners Page 1

American Petrofina Company of Texas

Atlantic Richfield Company

Aztec Oil & Gas Company

Suzanne La Force Baber

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Austin Bard, Jr.

Estate of Roy E. Bard The Northern Trust Company and James C. Bard

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Continental Oil Company

Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Mr. Jay C. Halls, Trustee

Ruth N. Halls, Trustee

Nancy H. Haskins

Mr. Cortlandt T. Hill

Elsie F. Hill

Louis W. Hill, Jr.

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederic P. G. Lattner, Trustee

Robert S. Macdonald, Angus Macdonald and The Northern Trust Company, Co-Trustees under the Will of Margaret S. Macdonald

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased

SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Mr. Forrest B. Miller and Mabelle Miller

Pan American Petroleum Corporation (3)

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company

Mr. William Simpson

Mr. Harold Byron Smith

Mr. Sidney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Sunset International Petroleum Corp.

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Mr. Frederick F. Webster and Mr. John M. Simpson, Trustees Estate of James Simpson, Jr.

Miss Mary S. Zick

# El Paso Natural Gas Company

El Paso, Texas 79999

MAR

February 26, 1970

3

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

> Re: 1970 DRILLING PROGRAM, San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico

#### Gentlemen:

The 1970 Drilling Program for the referenced Unit was approved by the Regulatory Bodies on the dates indicated:

United States Geological Survey Oil Conservation Commission Commissioner of Public Lands February 18, 1970 January 22, 1970 January 15, 1970

Copies of this letter are being sent to the working interest owners of the above described Unit.

Yours very truly,

Charles Higgins Supervising Landman

Land Department

CH:AT:sf S.J. 32-9, 3.0



# United States Department of the Interior

#### GEOLOGICAL SURVEY

Drawer 1857 Service Roswell, New Mexico 88201

February 18, 1970

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1970 plan of development for the San Juan 32-9 unit area, San Juan County, New Mexico, proposing to drill no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

WILL SON MAY . SHOER

BILLY J. SHOGER Acting Oil and Gas Supervisor

cc; Washington (w/cy plan) Farmington (w/cy plan) NMOCC, Santa Fe (ltr. only) Com, Pub. Lands, Santa Fe (ltr. only)



# United States Department of the Interior

#### GEOLOGICAL SURVEY

Drawer 1857 = Roswell, New Mexico 88201

February 18, 1970

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79999

Attention: Mr. T. W. Bittick

#### Gentlemen:

Your 1970 plan of development for the San Juan 32-9 unit area, San Juan County, New Mexico, proposing to drill no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

WILLE SON MAST STOCK

BILLY J. SHOGER Acting Oil and Cas Supervisor

cc; Washington (w/cy plan) Farmington (w/cy plan) NMOCC, Santa Fe (ltr. only) Com, Pub. Lands, Santa Fe (ltr. only)

#### OIL CONSERVATION COMMISSION

P. O. BOX 2088

#### SANTA FE, NEW MEXICO 87501

January 22, 1970

El Paso Natural Gas Company

P. O. Bost 1492

El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1970 Drilling Program

San Juan 32-9 Unit,

San Juan County, New Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell Commissioner of Public Lands - Santa Fe

internation

#### January 15, 1970

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79999

Re: San Juan 32-9 Unit
San Juan County, New Mexico
1970 ORILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

#### Gentlemen:

The Commissioner of Public Lands has this date approved your 1970 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico, proposing the drilling of no additional wells.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed herewith.

Very truly yours,

Ted Bilberry, Director Oil and Gas Department

TB/ML/s encls.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico



El Paso, Texas 79999

January 6, 1970

Mr. John A. Anderson Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1970 DRILLING PROGRAM

#### Gentlemen:

By letter dated January 6, 1969, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1969. Said Program provided for the drilling of no wells and none were drilled in subject Unit during 1969.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	67
Mesaverde, Noncommercial	5
Mesaverde, Plugged and Abandoned	1
Mesaverde, Temporarily Abandoned	2
Mesaverde-Dakota, Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Noncommercial	1
·	78

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1970, providing for the drilling of no wells during the year.

Mr. John A. Anderson Commissioner of Public Lands Oil Conservation Commission Page 2

All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

T. W. Bittick

Manager

Land Department

TWB:AT:sf Enclosures San Juan 32-9, 3.0

APPROVED	·	DATE:
	Regional Oil and Gas Supervisor	
	United States Geological Survey	
	Subject to like approval by the	
	appropriate State officials.	
APPROVED		DATE:
	Commissioner of Public Lands	
	Subject to like approval by the United	
	States Geological Survey and the Oil	
	Conservation Commission,	
	ANDY)	
APPROVED	: What Torres	DATE: La March 19 15
	Oil Conservation Commission	· · · · · · · · · · · · · · · · · · ·
	Subject to like approval by the United	ν
	States Geological Survey and the	
	Commissioner of Dublic Lands	

The foregoing approvals are for the 1970 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

American Petrofina Company of Texas

Atlantic Richfield Company

Aztec Oil & Gas Company

Suzanne La Force Baber

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Austin Bard, Jr.

Estate of Roy E. Bard
The Northern Trust Company
and James C. Bard

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Continental Oil Company

Eleanor Isham Dunne

Mr. Charles W. Farnham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Mr. Jay C. Halls, Trustee

Ruth N. Halls, Trustee

Nancy H. Haskins

Mr. Cortlandt T. Hill

Elsie F. Hill

Louis W. Hill, Jr.

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederic P. G. Lattner, Trustee

Robert S. Macdonald, Angus Macdonald and The Northern Trust Company, Co-Trustees under the Will of Margaret S. Macdonald

Mrs. Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased

Mr. Forrest B. Miller and Mabelle Miller

Pan American Petroleum Corporation (3)

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Sabine Royalty Corp.

Shaw, Isham & Company

Mr. William Simpson

Mr. Harold Byron Smith

Mr. Sidney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart

Sunset International Petroleum Corp.

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

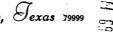
Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw Mr. Frederick F. Webster

Mr. Frederick F. Webster and Mr. John M. Simpson, Trustees Estate of James Simpson, Jr.

Miss Mary S. Zick

Mrs. Suzette M. Zurcher

# El Paso Natural Gas Company El Paso, Texas 79999 \$\frac{3}{25}\$



March 3, 1969

Mr. John A. Anderson Regional Oil and Gas Supervisor Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Re: 1969 DRILLING PROGRAMS

San Juan County, New Mexico

#### Gentlemen:

The 1969 Drilling Programs for the following Units were approved by the regulatory bodies on the dates indicated:

	Units	United States Geological Survey	Commissioner of Public Lands for the St. of N.M.	Oil Conservation Commission of the St. of N.M.
1.	San Juan 32-8 Unit #14-08-001-446	February 26, 1969	January 8, 1969	January 23, 1969
2.	San Juan 32-9 Unit #14-08-001-569	February 26, 1969	January 8, 1969	January 23, 1969

Copies of this letter are being sent to the working interest owners of the above described Units.

Yours very truly,

Charles Higgins Supervising Landman Land Department

CH: CTR: ec SJ 32-8, 3.0 SJ 32-9, 3.0



#### **UNITED STATES DEPARTMENT OF THE INTERIOR**

GEOLOGICAL SURVEY Drawer 1857 Roswell, dev Mexico \$8201

February 26, 1969

El Paso latural Gas Company P. 0. 3ox 1492 El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

163 FEB 27 MY C Your 1969 plan of development for the San Juan 32-9 unit agreement, San Juan County, Men Mexico, proposing to will no additional cells has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours.

PART OF THE PROPERTY OF

JOHN A. ANDERSON Regional Oil and Gas Supervisor

cc: Washington (w/cy plan) Farmington (w/cy plan) NMOCC, Santa Fe (ltr. only) Com. Pub. Lands, Santa Fe (1tr. only)

#### OIL CONSERVATION COMMISSION

P. O. BOX 2088

#### SANTA FE, NEW MEXICO 87501

January 23, 1969

El Paso Matural Gas Company

P. O. Box 1492

El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1969 Drilling Program
San Juan 32-9 Unit,
San Juan County, New
Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1969 for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe United States Geological Survey - Roswell

\*69 Jan 13 An 8 24

January 8, 1969

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79999

Re: San Juan 32-9 Unit San Juan County, New Mexico 1969 Drilling Program

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1969 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico, proposing the drilling of no additional wells.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed herewith.

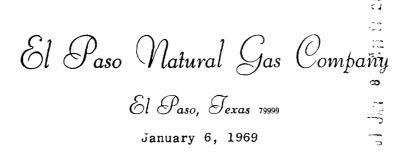
Very truly yours,

ALEX J. ARMIJO COMMISSIONER OF PUBLIC LANDS

BY: Ted Bilberry, Director Oil and Gas Department

AJA/TB/ML/s encl.

cc: USGS-Roswell, New Mexico OCC- Santa Fe, New Mexico



Mr. John A. Anderson Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1969 DRILLING PROGRAM

#### Gentlemen:

By letter dated January 5, 1968, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1968. Said Program provided for the drilling of no wells and none were drilled in subject Unit during 1968.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Mesaverde,	Commercial	67
Mesaverde,	Noncommercial	5
Mesaverde,	Plugged & Abandoned	1
Mesaverde,	Temporarily Abandoned	2
Mesaverde-I	Dakota, Dual	
(Plugged	back to Mesaverde)	1
(Plugged	& Abandoned)	1
Dakota, Nor	ncommercial	1
ŕ		$\overline{78}$

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1969, providing for the drilling of no wells during the year.

APPROVED:		DATE:
	Supervisor, United States Geological Survey	<del></del>
	Subject to like approval by the appropriate State Officials.	
	State Officials.	
APPROVED	:	DATE:
	Commissioner of Public Lands	
	Subject to like approval by the United	
	States Geological Survey and the Oil	
	Conservation Commission.	
	CIP-1	
APPROVED		DATE: Same 27, 1969
	Oil Conservation Commission	
	Subject to like approval by the United	•
	States Geological Survey and the	

The foregoing approvals are for the 1969 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

Commissioner of Public Lands.

American Petrofina Company of Texas P. O. Box 2159
Dallas, Texas 75221

Atlantic Richfield Company Attention: Mr. A. D. Kloxin P. O. Box 1978 Roswell, New Mexico 88201

Aztec Oil & Gas Company Attention: Mr. H. L. Snider, Jr. 2000 First National Bank Building Dallas, Texas 75202

Suzanne LaForce Baber 217 South Lassen Street Willows, California 95988

Mr. James C. Bard 2124 Kenilworth Avenue Wilmuth, Illinois 60091

Mr. Ralph A. Bard, Jr. Room 1220 10 South LaSalle Street Chicago, Illinois 60603

Mr. Ralph Austin Bard, Jr. Room 1220 10 South LaSalle Street Chicago, Illinois 60603

Estate of Roy E. Bard
The Northern Trust Company
and James C. Bard
Real Estate Division No. 91
50 South LaSalle Street
Chicago, Illinois 60690

Mr. Roy E. Bard, Jr. 925 South Lincoln Avenue Park Ridge, Illinois 60068

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico 87401

Mr. G. R. Brainard, Jr. P. O. Box 521 Tulsa, Oklahoma 74101 Brookhaven Oil Company P. O. Box 1267 Scottsdale, Arizona 85251

Mrs. Grace M. Brown 2400 Savannah Avenue El Paso, Texas 79930

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935 Attention: Real Estate Department Oil & Mineral Division 231 South LaSalle Street Chicago, Illinois 60604

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949 Attention: Real Estate Department Oil & Mineral Division 231 South LaSalle Street Chicago, Illinois 60604

Continental Oil Company Attention: Mr. W. C. Blackburn 200 N. Wolcott Casper, Wyoming 82601

Mr. Charles W. Farnham 135 South LaSalle Street Chicago, Illinois 60603

Elizabeth B. Farrington 18 Sherman Avenue Summit, New Jersey 07901

Minnie A. Fitting 250 E. Alameda, Apt. 404 E Bldg. Santa Fe, New Mexico 87501

Mr. Robert D. Fitting 504 Vaughn Building Midland, Texas 79701

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased P. O. Box 782 Midland, Texas 79701

Mr. Jay C. Halls, Trustee One North LaSalle Street Chicago, Illinois 60602

Ruth N. Halls, Trustee 460 El Cielito Road Santa Barbara, California 93105

Nancy H. Haskins Room 3300 One North LaSalle Street Chicago, Illinois 60602

Mr. Cortlandt T. Hill P. O. Box 1588 Monterey, California 93940

Elsie F. Hill 30 Crocus Place St. Paul, Minnesota 55102

Louis W. Hill, Jr. W. 1453 First National Bank Building St. Paul, Minnesota 55101

Mr. Albert L. Hopkins, Jr. Room 3300 One North LaSalle Street Chicago, Illinois 60602

Eleanor Isham Dunne Room 1007 38 South Dearborn Street Chicago, Illinois 60603

Mr. George S. Isham Room 1007 38 South Dearborn Street Chicago, Illinois 60603

Mr. Henry P. Isham, Jr. Room 1007 38 South Dearborn Street Chicago, Illinois 60603

Mr. R. Nelson Isham Room 1007 38 South Dearborn Street Chicago, Illinois 60603 Mr. Robert T. Isham Room 1007 38 South Dearborn Street Chicago, Illinois 60603

Josephine C. Jacobson 4430 Belclaire Dallas, Texas 75205

Mr. Robert Jones 730 Petroleum Life Building Midland, Texas 79701

Nancy LaForce Keyes
P. O. Box 25
Glenmoore, Pennsylvania 19343

Mr. W. Watson LaForce, Jr. P. O. Box 353 Midland, Texas 79701

Mr. Claude R. Lambe 621 Union National Building Wichita, Kansas 67202

Fredric P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor 3401 John Lynde Rd.
Des Moines, Iowa 50312

Robert S. MacDonald, Angus MacDonald and the Northern Trust Company, Executors of the Estate of Margaret S. MacDonald, Deceased c/o Trust Department Trust #23-15659, Northern Trust Co. 50 South LaSalle Street Chicago, Illinois 60609

Mrs. Catherine B. McElvain Individually and as Executrix of the Estate of T. H. McElvain, Deceased Box 2148 Santa Fe, New Mexico 87501

Mr. Forrest B. Miller and Mabelle Miller 1224 Lois Street P. O. Box 1445 Kerrville, Texas 78028

Pan American Petroleum Corporation (3) Mr. Frederick F. Webster and Attention: Mr. T. M. Curtis Security Life Building Denver, Colorado 80202

Pubco Petroleum Corporation (2) Attention: Mr. Ivan E. Kercher Attention: Mr. Robert C. Youngmun P. O. Box 869 Albuquerque, New Mexico 87003

Phillips Petroleum Company Attention: Mr. R. A. Wolgast 1300 Security Life Building Denver, Colorado 80202

Nora R. Ranney RFD Casey Road Libertyville, Illinois 60048

Koch Industries, Inc. P. O. Box 2256 Wichita, Kansas 67201

Catherine H. Ruml Room 3300 One North LaSalle Street Chicago, Illinois 60602

Mr. Edward L. Ryerson, Jr. 71 Washington Avenue Cambridge, Massachusetts 62140

Shaw, Isham & Company 135 South LaSalle Street Chicago, Illinois 60603

Tenneco Oil Company Attention: Mr. C. W. Nance Lincoln Tower Building, Suite 1200 1860 Lincoln Street Denver, Colorado 80203

Tenneco Oil Company Attention: Mr. J. P. Wasinger P. O. Box 2410 Denver, Colorado 80201

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw Room 3710 135 South LaSalle Street Chicago, Illinois 60603

Mr. John M. Simpson, Trustees Estate of James Simpson, Jr. Room 910 30 West Monroe Street Chicago, Illinois 60603

Mr. William Simpson Room 910 30 West Monroe Street Chicago, Illinois 60603

Sunset International Petroleum Corp. 2400 Fidelity Union Tower Dallas, Texas 75201

Mr. Sidney Stein, Jr. 135 South LaSalle Street Chicago, Illinois 60603

Mr. R. Douglas Stuart 345 Merchandise Mart Chicago, Illinois 60654

Mr. John Stuart 345 Merchandise Mart Chicago, Illinois 60654

Mr. William P. Sutter One North LaSalle Street Chicago, Illinois 60602

Sabine Royalty Corp 1210 Mercantile Bank Bldg. Dallas, Texas 75201

Texaco Inc. P. O. Box 2100 Denver, Colorado 80201

Kay B. Towle 784 Lincoln Avenue Winnetka, Illinois 60093

Mr. Frederick F. Webster 30 West Monroe Street, Room 910 Chicago, Illinois 60603

Mrs. Suzette M. Zurcher 110 North Wacker Drive, Room 510 Chicago, Illinois 60606

Chevron Oil Company (2)
Attention: Mr. E. M. Kipp
Manager of Production

P. O. Box 599

Denver, Colorado 80201

Chevron Oil Company
Attention: Mr. L. R. Morris
Unitization Coordinator

P. O. Box 599 Denver, Colorado 80201

Miss Mary S. Zick 436 Glendale Winnetka, Illinois 60093

Mr. William J. Kastrin 3940 Flamingo Drive El Paso, Texas

Mr. Harold Byron Smith 2501 North Keeler Avenue Chicago, Illinois

### El Paso Natural Gas Company

El Paso, Texas 79999

May 2, 1968

Mr. John A. Anderson Regional Oil and Gas Supervisor Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

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Train Brown

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Re: 1968 DRILLING PROGRAMS
San Juan and Rio Arriba
Counties, New Mexico

#### Gentlemen:

The 1968 Drilling Programs for the following Units were approved by the regulatory bodies on the dates indicated:

1.	San Juan 30-4 Unit, #14-08-001-1056: United States Geological Survey Commissioner of Public Lands Oil Conservation Commission	January 29, 1968 None Required February 19, 1968
2.	San Juan 32-5 Unit, #14-08-001-534: United States Geological Survey Commissioner of Public Lands Oil Conservation Commission	February 2, 1968 February 5, 1968 February 19, 1968
3.	San Juan 32-7 Unit, #14-08-001-441: United States Geological Survey Commissioner of Public Lands Oil Conservation Commission	February 20, 1968 February 21, 1968 February 28, 1968
4.	San Juan 32-8 Unit, #14-08-001-446: United States Geological Survey Commissioner of Public Lands Oil Conservation Commission	February 19, 1968 February 20, 1968 February 27, 1968

Mr. John A. Anderson Commissioner of Public Lands Oil Conservation Commission Page Two

- 5. San Juan 32-9 Unit, #14-08-001-569:
  United States Geological Survey
  Commissioner of Public Lands
  Oil Conservation Commission
- 6. Rosa Unit, 1 Sec. No. 587:
  United States Geological Survey
  Commissioner of Public Lands
  Oil Conservation Commission

February 27, 1968 February 28, 1968 March 18, 1968

February 20, 1968

February 23, 1968

February 28, 1968

Copies of this letter are being sent to the working interest owners of the above described Units.

Yours very truly,

Charles Higgins Supervising Landman Land Department

CH:CTR:ec

San Juan 30-4, 32-5, 32-7, 32-8, 32-9, Rosa Unit 3.0

#### OIL CONSERVATION COMMISSION

P. O. BOX 2088

#### SANTA FE, NEW MEXICO 87501

February 28, 1968

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1968 Drilling Program

San Juan 32-9 Unit, San Juan County, New Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1968 providing for the drilling of no wells for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/JEK/og Enclosure

cc: United States Geological Survey

Roswell, New Mexico

Commissioner of Public Lands Senta Fe, New Mexico

### State of New Mexico



### Commissioner of Public Lands

February 23, 1966

P. O. BOX 1148 SANTA FE, NEW MEXICO

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79999

> Re: San Juan 32-9 Unit San Juan County, New Mexico 1968 Plan of Development

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1968 Plan of Development for the San Juan 32-9 Unit, San Juan County, New Mexico, proposing the drilling of no additional wells.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed herewith.

Very truly yours,
GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY: Eddic Lopez, Supervisor Unit Division

160 FEB 26 111 6 1

COMMISSIONER

JUYTON B. HAYS



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

#### Drawer 1857 Roswell, New Mexico 88201

**February 20, 1968** 

El Paso Hatural Gas Company

P. O. Box 1492

El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1968 plan of development for the San Juan 32-9 unit agreement, San Juan County, New Mexico, proposing to drill no additional wells has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SSC.' JOHN A. ANDERSON

JOHN A. ANDERSON Regional Oil and Gas Supervisor

cc:

Washington (w/cy. plan)
Farmington (w/cy. plan)
MMOCC, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)

168 FEB 23 AH . 11.

### El Paso Natural Gas Company

El Paso, Texas 79999

January 5, 1968

Mr. John A. Anderson Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

1968 DRILLING PROGRAM

#### Gentlemen:

By letter dated January 3, 1967, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1967. Said Program provided for the drilling of no wells and none were drilled in subject Unit during 1967.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	67
Mesaverde, Noncommercial	5
Mesaverde, Plugged & Abandoned	1
Mesaverde, Temporarily Abandoned	2
Mesaverde-Dakota, Dual	
(Plugged back to Mesaverde)	1
(Plugged & Abandoned)	1
Dakota, Noncommercial	1
	78

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1968, providing for the drilling of no wells during the year.

All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

T. W. Bittick

Manager

Land Department

TWB:CTR:cjt Attachments

S/J 32-9 Unit, 3.0

APPROVED		DATE:
	Supervisor, United States Geological Survey Subject to like approval by the appropriate State Officials.	
APPROVED	Commissioner of Public Lands	DATE:
	Subject to like approval by the United States Geological Survey and the Oil Conservation Commission.	
APPROVED	Oil Conservation Commission	DATE: 226 25/1968

Subject to like approval by the United

States Geological Survey and the Commissioner of Public Lands.

The foregoing approvals are for the 1968 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

American Petrofina Company of Texas P. O. Box 2159 Dallas, Texas 75221

Atlantic Richfield Company
P. O. Box 1978
Roswell, New Mexico 88201
Attention: Mr. A. D. Kloxin

Aztec Oil & Gas Company 2000 First National Bank Building Dallas, Texas 75202 Attention: Mr. H. L. Snider, Jr.

Suzanne LaForce Baber 1070 French Street Willows, California 95988

Mr. Ralph A. Bard, Jr. 10 South La Salle Street Room 1220 Chicago, Illinois 60603

Estate of Roy E. Bard
The Northern Trust Company
Attention: Mr. James A. Shute
5 South La Salle Street
Chicago, Illinois 60603

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico 87401

Mr. G. R. Brainard, Jr. P. O. Box 521 Tulsa, Oklahoma 74101

Brookhaven Oil Company P. O. Box 1267 Scottsdale, Arizona 85251

Mr. John S. Brown & Grace M. Brown c/o Brown - Olds Corp.
2000 Myrtle Avenue
El Paso, Texas 79901

Continental Illinois National Bank & Trust Co. of Chicago
Trustee for Trust No. 23935
Attn: Real Estate Department
Oil & Mineral Division
231 South La Salle Street
Chicago, Illinois 60604

Continental Illinois National Bank & Trust Co. of Chicago
Trustee for Trust No. 23949
Attn: Real Estate Department
Oil & Mineral Division
231 South La Salle Street
Chicago, Illinois 60604

Continental Oil Company Attention: Mr. W. O. Blackburn P. O. Box 680 Casper, Wyoming 82601

Mr. Charles W. Farnham 135 South La Salle Street Chicago, Illinois 60603

Mr. Robert D. Fitting 201 West Building Midland. Texas 79701

Mr. Ralph U. Fitting, Jr. 711 Petroleum Life Building Midland, Texas 79701

Mr. Jay C. Hall, Trustee One North La Salle Street Chicago, Illinois 60602

Ruth N. Halls, Trustee 460 El Cielito Road Santa Barbara, California 93105

Nancy H. Haskins One North La Salle Street Room 3300 Chicago, Illinois 60602

Mr. Cortlandt T. Hill P. O. Box 1588 Monterey, California 93940

Elsie F. Hill W. 1453 First National Bank Building St. Paul, Minnesota 55101

Louis W. Hill, Jr. W. 1453 First National Bank Building St. Paul, Minnesota 55101

Mr. Albert L. Hopkins, Jr. One North La Salle Street Room 1007 Chicago, Illinois 60602

Eleanor Isham 38 South Dearborn St. Chicago, Illinois 60603

Mr. George S. Isham 38 South Dearborn St. Chicago, Illinois 60603

Mr. Henry P. Isham, Jr. 38 South Dearborn St. Chicago, Illinois 60603

Mr. R. Nelson Isham 38 South Dearborn St. Chicago, Illinois 60603

Mr. Robert T. Isham 38 South Dearborn St. Chicago, Illinois 60603

Josephine C. Jacobson 4430 Belclaire Dallas. Texas 75205

Mr. Robert Jones 730 Petroleum Life Building Midland, Texas 79701

Nancy LaForce Keyes
P. O. Box 25
Glenmoore, Pennsylvania 19343

Mr. W. Watson LaForce, Jr. P. O. Box 353 Midland, Texas 79701

Mr. Claude R. Lambe 621 Union National Building Wichita, Kansas 67202

Robert S. Macdonald, Angus Macdonald and The Northern Trust Company as Trustee under the Will of Margaret S. Macdonald, Deceased Real Estate Division #267 50 South LaSalle Street Chicago, Illinois 60690 Mrs. Catherine B. McElvain Individually and as Executrix of the Estate of T. H. McElvain, Deceased Box 2148 Santa Fe, New Mexico 87501

Mr. Forrest B. Miller & Mabelle Miller 1224 Lois Street, P. O. Box 1445 Kerrville, Texas 78028

Mr. Sterling Morton 110 N. Wacker Drive Chicago, Illinois 60606

Pan American Petroleum Corporation (3) Attention: Mr. T. M. Curtis Security Life Building Denver, Colorado 80202

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 869
Albuquerque, New Mexico 87103

Phillips Petroleum Company Attention: Mr. R. A. Wolgast 1300 Security Life Building Denver, Colorado 80202

Nora R. Ranney RFD Casey Road Libertyville, Illinois 60048

Rock Island Oil & Refining Company 321 West Douglas Wichita, Kansas 67202

Catherine H. Ruml One North La Salle Street Chicago, Illinois 60602

Mr. Edward L. Ryerson, Jr. 71 Washington Avenue Cambridge, Massachusetts 62140

Shaw, Isham & Company 135 South La Salle Street Chicago, Illinois 60603

Tenneco Oil Company Attention: Mr. R. E. Siverson P. O. Box 1714 Durango, Colorado 81302

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle Street Room 3710 Chicago, Illinois 60603

Mr. Frederick F. Webster, Trustee Estate of James Simpson, Jr. 30 West Monroe Street, Room 910 Chicago, Illinois 60603

Mr. William Simpson 30 West Monroe Street Chicago, Illinois 60603

Mr. Harold Byron Smith 2501 North Keeler Street Chicago, Illinois 60639

Sunset International Petroleum Corp. Sunset International Building 8920 Wilshire Boulevard Beverly Hills, California 90211

Mr. Sidney Stein, Jr. 135 South La Salle Street Chicago, Illinois 60603

Mr. R. Douglas Stuart 345 Merchandise Mart Chicago, Illinois 60654

Mr. John Stuart 345 Merchandise Mart Chicago, Illinois 60654

Mr. William P. Sutter One North La Salle Street Chicago, Illinois 60602

Texaco, Inc. P. O. Box 2100 Denver, Colorado 80201

Mr. Frederick F. Webster 30 West Monroe Street, Room 910 Chicago, Illinois 60603 Mary S. Zick 436 Glendale Winnetka, Illinois 60093

Mrs. Suzette M. Zurcher 110 North Wacker Drive, Room 510 Chicago, Illinois 60606

Tenneco Oil Company Attention: Mr. Weaver W. Ralls 900 Wilco Building Midland, Texas 79701

Chevron Oil Company
P. O. Box 599
Denver, Colorado 80201
Attn: Mr. E. M. Kipp

Manager of Production (2)

Attn: Mr. L. R. Morris

Unitization Coordinator (1)

### El Paso Natural Gas Company

470

El Paso, Texas 79999

February 28, 1967

Mr. John A. Anderson Regional Oil and Gas Supervisor Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission F State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Re: 1967 DRILLING PROGRAMS

Rio Arriba and San Juan Counties,

New Mexico

#### Gentlemen:

The 1967 Drilling Programs for the following Units were approved by the regulatory bodies on the dates indicated:

√1.	San Juan 30-4 Unit, #14-08-001-1056: Commissioner of Public Lands - Oil Conservation Commission - United States Geological Survey -	January 18, 1967 January 26, 1967 February 6, 1967
2.	San Juan 30-5 Unit, #14-08-001-346: United States Geological Survey - Commissioner of Public Lands - Oil Conservation Commission -	February 7, 1967 February 9, 1967 February 22, 1967
3.	San Juan 30-6 Unit, #14-08-001-538: United States Geological Survey - Commissioner of Public Lands - Oil Conservation Commission -	February 14, 1967 February 16, 1967 February 22, 1967
4.	San Juan 32-5 Unit, #14-08-001-534: United States Geological Survey - Commissioner of Public Lands - Oil Conservation Commission -	February 3, 1967 February 7, 1967 February 9, 1967

5.	San Juan 32-8 Unit, #14-08-001-446:	
	United States Geological Survey -	January 26, 1967
	Commissioner of Public Lands -	February 6, 1967
	Oil Conservation Commission -	February 22, 1967

/6.	San Juan 32-9 Unit, #14-08-001-569:	
	United States Geological Survey -	February 13, 1967
	Commissioner of Public Lands -	February 16, 1967
	Oil Conservation Commission -	February 22, 1967

7. Rosa Unit,   Sec. No. 587:	
United States Geological Survey -	February 6, 1967
Commissioner of Public Lands -	February 9, 1967
Oil Conservation Commission -	February 22, 1967

Copies of this letter are being sent to the working interest owners of the above described Units.

Yours very truly,

Supervising Landman
Land Department

HG:CTR:jm

\$an Juan 30-4, 30-5, 30-6, 32-5, 32-8, 32-9 and Rosa Units - 3.0

#### OIL CONSERVATION COMMISSION

P. O. BOX 2088

#### SANTA FE, NEW MEXICO

February 22, 1967

El Paso Natural Gas Company P. O. Box 1492

El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re:

1967 Drilling Program

San Juan 32-9 Unit, San Juan

County, New Mexico



Gentlemen:



This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1967 Drilling Program dated January 3, 1967, for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/JEK/og Enclosure

cc: Commissioner of Public Lands Santa Fe, New Maxico

> United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

#### February 16, 1967

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas

Re: San Juan 32-9 Unit
San Juan County, New Mexico
1967 Drilling Program

ATTENTION: Mr. T. W. Bittick

#### Gentlemen:

The Commissioner of Public Lands has this date approved your 1967 Drilling Program for the captioned unit. This Drilling Program proposes the drilling of no additional wells during 1967.

The Commissioner approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

Very truly yours,

GUYTON B. HAYS CONMISSIONER OF PUBLIC LANDS

BY: Ted Bilberry, Director Oil and Gas Depastment

GBH/MMR/s encl. 1.

cc: USGS- Roswell OCC- Santa Pe



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Drawer 1857 Rossell, New Mexico 83201

February 13, 1967

El Pago Hobustal Gos Computary

P. O. Box 1492

21 Paso, Texas 79999

Attention: Mr. T. W. Bittick

#### Gentlemen:

Your 1967 plan of development dated January 3, 1967, for the Sam Juan 32-9 unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON Regional Oil and Gas Supervisor

cc:

Washington (w/cy of plan)
Farmington (w/cy of plan)
MMDCC, Sents Fe (ltr. only)
Com. of Pub. Lands, Sants Fe (ltr. only)

## El Paso Natural Gas Company

El Paso, Texas 79999

January 3, 1967

Mr. John A. Anderson Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico

1967 DRILLING PROGRAM

#### Gentlemen:

By letter dated March 2, 1966, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1966. Said program provided for the drilling of no wells and none were drilled in subject Unit during 1966.

As of this date, the total number of wells drilled in the San Juan 32-9 Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	67
Mesaverde, Noncommercial	5
Mesaverde, Plugged and Abandoned	1
Mesaverde, Temporarily Abandoned	2
Mesaverde-Dakota, Dual	
(Plugged back to Mesaverde)	1
(Plugged and abandoned)	1
Dakota, Noncommercial	1
	78

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1967, providing for the drilling of no wells during the year.

All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

T. W. Bittick

Manager

Land Department

TWB:CTR:sb

APPROVED:		DATE:
	Supervisor, United States Geological Survey Subject to like approval by the appropriate State officials.	
APPROVED:	Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission.	DATE:
APPROVED:	Oil Conservation Commission Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.	DATE: 22, 1907

The foregoing approvals are for the 1967 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

American Petrofina Company of Texas P. O. Box 2159 Dallas 21, Texas

Atlantic Richfield Company
P. O. Box 1978
Roswell, New Mexico
Attention: Mr. A. D. Kloxin

Aztec Oil & Gas Company 2000 First National Bank Building Dallas, Texas 75202 Attention: Mr. H. L. Snider, Jr.

Suzanne LaForce Baber 1070 French Street Willows, California

Mr. Ralph A. Bard 210 South La Salle Street Room 1220 Chicago 3, Illinois

Mr. Ralph Austin Bard, Jr. 210 La Salle Street Room 1220 Chicago 3, Illinois

Estate of Roy E. Bard
The Northern Trust Company
Attention: Mr. James A. Shute
5 South La Salle Street
Chicago 90, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Donald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

Mr. G. R. Brainard, Jr. P. O. Box 35366
Dallas 30, Texas

Brookhaven Oil Company P. O. Box 1267 Scottsdale, Arizona Mr. John S. Brown & Grace M. Brown c/o Brown - Olds Corp.
2000 Myrtle Avenue
El Paso, Texas

Continental Illinois National Bank & Trust Co. of Chicago Trustee for Trust No. 23935 231 South La Salle Street Chicago 90, Illinois

Continental Illinois National Bank & Trust Co. of Chicago Trustee for Trust No. 23949 231 South La Salle Street Chicago 90, Illinois

Continental Oil Company Attention: Mr. H. D. Haley P. O. Box 1621 Durango, Colorado

Mr. Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

Mr. Robert D. Fitting 201 West Building Midland, Texas

Mr. Ralph U. Fitting, Jr. 711 Petroleum Life Building Midland, Texas

Mr. Jay C. Hall, Trustee One North La Salle Street Chicago 2, Illinois

Ruth N. Halls, Trustee 460 El Cielito Road Santa Barbara, California

Nancy H. Haskins One North La Salle Street Room 3300 Chicago 2, Illinois

Mr. Cortlandt T. Hill P. O. Box 1588 Monterey, California

### SAN JUAN 32-9 UNIT Working Interest Owners (Continued)

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1, Minnesota

Louis W. Hill, Jr. W. 1453 First National Bank Building St. Paul 1, Minnesota

Mr. Albert L. Hopkins, Jr. One North La Salle Street Room 1007 Chicago 3, Illinois

Eleanor Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. George S. Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. Henry P. Isham, Jr. 38 South Dearborn Street Chicago 3, Illinois

Mr. R. Nelson Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. Robert T. Isham 38 South Dearborn Street Chicago 3, Illinois

Josephine C. Jacobson 4430 Belclaire Dallas, Texas 75205

Mr. Robert Jones 730 Petroleum Life Building Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Mr. W. Watson LaForce, Jr. P. O. Box 353 Midland, Texas

Mr. Claude R. Lambe 621 Union National Building Wichita 2, Kansas

Margaret S. MacDonald c/o Trust Department Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

Mrs. Catherine B. McElvain Individually and as Executrix of the Estate of T. H. McElvain, Deceased Box 2148 Santa Fe, New Mexico

Mr. Forrest B. Miller & Mabelle Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Sterling Morton 110 N. Wacker Drive Chicago 6, Illinois

Pan American Petroleum Corporation (3) Attention: Mr. T. M. Curtis Security Life Building Denver, Colorado 80202

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 869
Albuquerque, New Mexico

Phillips Petroleum Company Attention: Mr. R. A. Wolgast 1300 Security Life Building Denver, Colorado 80202

Nora R. Ranney RFD Casey Road Libertyville, Illinois

Rock Island Oil & Refining Company 321 West Douglas Wichita, Kansas

### SAN JUAN 32-9 UNIT Working Interest Owners (Continued)

Catherine H. Ruml One North La Salle Street Chicago 2, Illinois

Mr. Edward L. Ryerson, Jr. 71 Washington Avenue Cambridge, Massachusetts 62140

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

Tenneco Oil Company Attention: Mr. R. E. Siverson P. O. Box 1714 Durango, Colorado

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle Street Room 3710 Chicago 3, Illinois

Mr. Frederick F. Webster, Trustee Estate of James Simpson, Jr. 30 West Monroe Street, Room 910 Chicago 3, Illinois

Mr. William Simpson 30 West Monroe Street Chicago 3, Illinois

Mr. Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Sunset International Petroleum Corp. Sunset International Building 8920 Wilshire Boulevard Beverly Hills, California 90211

Mr. Sidney Stein, Jr. 135 South La Salle Street Chicago, Illinois

Mr. R. Douglas Stuart 345 Merchandise Mart Chicago, Illinois Mr. John Stuart 345 Merchandise Mart Chicago, Illinois

Mr. William P. Sutter One North La Salie Street Chicago, Illinois

Texaco, Inc. P. O. Box 2100 Denver 1, Colorado

Mr. Frederick F. Webster 30 West Monroe Street, Room 910 Chicago 3, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

Mrs. Suzette M. Zurcher 110 North Wacker Drive, Room 510 Chicago 6, Illinois

Tenneco Oil Company Attention: Mr. Weaver W. Ralls 4th Floor, 201 Wall Building Midland, Texas 79701

Chevron Oil Company
P. O. Box 599
Denver, Colorado 80201
Attention: Mr. E. M. Kipp,

Manager of Production (2)

Attention: Mr. L. R. Morris,

Unitization Coordinator (1)

### El Paso Natural Gas Company

El Paso, Texas 79999

August 12, 1966

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1966 DRILLING PROGRAM

15 f.c 12 1/2 - -

Gentlemen:

The 1966 Drilling Program for the San Juan 32-9 Unit #14-08-001-569 was approved by the regulatory bodies on the following dates:

- 1. United States Geological Survey April 7, 1966
- Commissioner of Public Lands State of New Mexico
- March 24, 1966
- 3. Oil Conservation Commission State of New Mexico
- August 5, 1966

Copies of this letter are being sent to the working interest owners of the San Juan 32-9 Unit.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Harry Gevertz Supervising Landman Land Department

HG:CTR:sb

San Juan 32-9 Unit 3.0

### OIL CONSERVATION COMMISSION P. O. BOX 871

#### SANTA FE, NEW MEXICO

August 5, 1966

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1966 Drilling Program
San Juan 32-9 Unit, San
Juan County, New Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1966 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

#### ALP/JEX/og

cc: Commissioner of Public Lands Santa Fe, New Mexico

United States Geological Survey P. O. Brawer 1857
Roswell. New Mexico 88201



#### UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

/Sh S as Drawer 1857 Roswell, New Mexico 80201

April 7, 1966

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1966 plan of development dated March 2, 1966, for the San Juan 32-9 unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ONG. **ANDERSON** 

> JOHN A. ANDERSON Regional Oil and Gas Supervisor

cc:

Washington (w/cy of plan) Farmington (w/cy of plan) NMOCC - Santa Fe (ltr. only) Com. of Pub. Lands - Santa Fe (ltr. only)

RPearcy: jh:4-7-66

## El Paso Natural Gas Company

El Paso, Texas 79999 MA 3 M

07

March 2, 1966

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell. New Mexico

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico 1966 DRILLING PROGRAM

#### Gentlemen:

By letter dated December 29, 1964, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program covering the captioned unit for the calendar year of 1965. Said Program provided for the drilling of no wells and no wells were drilled in the subject Unit during the year.

As of this date, the total number of wells located in the San Juan 32-9 Unit on acreage committed or partially committed to the unit is as follows:

Mesaverde, Commercial	69
Mesaverde, Noncommercial	6
Dakota, Noncommercial	1
Dual, Mesaverde-Dakota	l (Dakota dry, plugged back to Mesaverde)
Plugged and Abandoned	$\frac{1}{78}$

Pursuant to Section 10 of the San Juan 32-9 Unit, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1966 providing for the drilling of no wells during the year.

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current unit obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners in the affected drilling blocks.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return one approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Βv

T. W. Bittick, Manager Land Department

TWB: GWO: sb

Attachments

APPROVED:		DATE:
	Supervisor, United States Geological Survey	
	Subject to like approval by the appropriate	
	State Officials.	
4		To A 2000
APPROVED:	Company of Public London	DATE:
	Commissioner of Public Lands	
	Subject to like approval by the United	
	States Geological Survey and the Oil	
	Conservation Commission.	
	11 & Jacks	0.5-66
APPROVED:	u.n. Cour	DATE: 8-5-66
	Oil Conservation Commission	
	Subject to like approval by the United	
	States Geological Survey and the	

The foregoing approvals are for the 1966 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

#### SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas P. O. Box 2159 Dallas 21, Texas

The Atlantic Refining Company Attention: Gas Accounting Section P. O. Box 2819 Dallas, Texas 75221

Aztec Oil & Gas Company Attention: Mr. H. L. Snider, Jr. 2000 First National Bank Building Dallas, Texas 75202

Suzanne LaForce Baber 1070 French Street Willows, California

Mr. Ralph A. Bard 210 South La Salle St., Room 1220 Chicago 3, Illinois

Mr. Ralph Austin Bard, Jr. 210 South La Salle Street, Room 1220 Chicago 3, Illinois

Estate of Roy E. Bard
The Northern Trust Company
Attention: Mr. James A. Shute
5 South La Salle Street
Chicago 90, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Donald S. Boynton 332 South Michigan Avenue, Room 1500 Chicago 4, Illinois

Mr. G. R. Brainard, Jr. P. O. Box 35366
Dallas 30, Texas

Brookhaven Oil Company P. O. Box 1267 Scottsdale, Arizona Mr. John S. Brown Mrs. Grace M. Brown 2400 Savannah El Paso, Texas 79901

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23935
231 South La Salle Street
Chicago 90, Illinois

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949 231 South La Salle Street Chicago 90, Illinois

Continental Oil Company Attention: Mr. T. N. Weathers P. O. Box 1621 Durango, Colorado 81302

Mr. Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

Mr. Robert D. Fitting 201 West Building Midland, Texas

Mr. Ralph U. Fitting, Jr. 711 Petroleum Life Building Midland, Texas

Mr. Jay C. Halls, Trustee One North La Salle Street Chicago 2, Illinois

Ruth N. Halls, Trustee 460 El Cielito Road Santa Barbara, California

Nancy H. Haskins One North La Salle St., Room 3300 Chicago 2, Illinois

Mr. Cortlandt T. Hill P. O. Box 1588 Monterey, California

#### SAN JUAN 32-9 UNIT Working Interest Owners - Page 2

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1, Minnesota

Louis W. Hill, Jr.
W. 1453 First National Bank Building
St. Paul 1, Minnesota

Mr. Albert L. Hopkins, Jr. One North La Salle Street, Room 1007 Chicago 3, Illinois

Eleanor Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. George S. Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. Henry P. Isham, Jr. 38 South Dearborn Street Chicago 3, Illinois

Mr. R. Nelson Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. Robert T. Isham 38 South Dearborn Street Chicago 3, Illinois

Josephine C. Jacobson 4430 Belclaire Dallas, Texas 75205

Mr. Robert Jones 730 Petroleum Life Building Midland, Texas

Mr. Wm. J. Kastrin 3940 Flamingo Drive El Paso, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois Mr. W. Watson LaForce, Jr. P. O. Box 353 Midland, Texas

Mr. Claude R. Lambe 621 Union National Building Wichita 2, Kansas

Margaret S. MacDonald c/o Trust Department Trust No. 23-15659 The Northern Trust Company 50 South LaSalle Street Chicago, Illinois

Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased P. O. Box 2148
Santa Fe, New Mexico

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Sterling Morton 110 N. Wacker Drive Chicago 6, Illinois

Pan American Petroleum Corporation (7) Attention: Mr. C. E. Brown Security Life Building Denver, Colorado 80202

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 1419
Albuquerque, New Mexico

Nora R. Ranney RFD Casey Road Libertyville, Illinois

Rock Island Oil & Refining Company 321 West Douglas Street Wichita, Kansas

### SAN JUAN 32-9 UNIT Working Interest Owners - Page 3

Catherine H. Ruml
One North La Salle Street
Chicago 2, Illinois

Mr. Edward L. Ryerson, Jr. 71 Washington Avenue Cambridge, Massachusetts

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

Tenneco Oil Company Attention: Mr. R. E. Siverson P. O. Box 1714 Durango, Colorado

Trust #1 for Benefit of John L. Shaw and Rodger D. Shaw 135 South La Salle St., Room 3710 Chicago 3, Illinois

Mr. Frederick F. Webster, Trustee Estate of James Simpson, Jr. 30 West Monroe Street, Room 910 Chicago 3, Illinois

Mr. William Simpson 30 West Monroe Street Chicago 3, Illinois

Mr. Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Standard Oil Company of Texas Attention: Mr. H. W. Mathews P. O. Box 1249 Houston 1, Texas

Standard Oil Company of Texas Attention: Mr. J. R. Graham P. O. Box 1660 Midland, Texas 79701

Mr. Sidney Stein, Jr. 135 South La Salle Street Chicago, Illinois Mr. R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Sunset International Petroleum Corp. Sunset International Building 8920 Wilshire Blvd. Beverly Hills, California 90211

Mr. John Stuart 345 Merchandise Mart Chicago 54, Illinois

Mr. William P. Sutter One North La Salle Street Chicago 2, Illinois

Texaco, Inc. P. O. Box 2100 Denver 1, Colorado

Mr. Frederick F. Webster 30 West Monroe Street, Room 910 Chicago 3, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

Mrs. Suzette M. Zurcher 110 North Wacker Drive, Room 510 Chicago 6, Illinois

Phillips Petroleum Corporation Attention: Mr. R. A. Wolgast 1300 Security Life Building Denver, Colorado 80202



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Drawer 1857 Roswell, New Mexico 88201

April 1, 1965

4/15

El Paso Natural Ges Company

P. O. Box 1492

El Paso, Texas

Attention: Mr. Sam Smith

Gentlemen:

Your 1965 plan of development dated December 29, 1964, for the San Juan 32-9 unit agreement, can Juan county, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ONG. SEE) JOHN A. A. J. 177

JOHN A. ANDERSON
Regional Oil and Cas Supervisor

cc:

Washington (w/cy plan)
Farmington (w/cy plan)
NHOCC, Santa Fe (ltr. only) 
Com. Pub. Lands, Santa Fe (ltr. only)

#### OIL CONSERVATION COMMISSION

P. O. BOX 2088

#### SANTA FE, NEW MEXICO

March 26, 1965

El Pase Natural Gas Company P. O. Box 1492 El Paso, Texas

Attention: Mr. Sam Smith

Re: 1965 Drilling Program
San Juan 32-9 Unit, San
Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1965 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

ALP/JEK/og cc: United States Geological Survey - Roswell

Commissioner of Public Lands - Santa Fe

March 23, 1965

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas

Attention: Mr. Sam Smith

Re: San Juan 32-9 Unit San Juan County, New Mexico 1965 Drilling Program

#### Gentlemen:

The Commissioner of Public Lands approves as of March 23, 1965, your 1965 Drilling Program subject to like approval by the United States Geological Survey and Oil Conservation Commission.

This drilling program provides for no drilling during the calendar year 1965.

We are returning one approved copy of the plan.

Very truly yours,

GUYTON B. HAYS COMMISSIONER OF PUBLIC LANDS

BY :

(Mr.) Ted Bilberry, Director Oil and Gas Department

#### GRH/mmr/d Englosures

QC :

United States Geological Survey
P. O. Drawer 1857, Roswell, New Mexico
Attention: Mr. John A. Anderson
Oil Conservation Commission
P. O. Box 2008, Santa Fe, New Mexico

## El Paso Natural Gas Company

El Paso, Texas

December 29, 1964

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico 1965 DRILLING PROGRAM

#### Gentlemen:

By letter dated February 25, 1964, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program covering the captioned unit for the calendar year of 1964. Said Program provided for the drilling of no wells and no wells were drilled in the subject Unit during the year.

As of this date, the total number of wells located in the San Juan 32-9 Unit on acreage committed or partially committed to the unit is as follows:

Mesaverde, Commercial	69
Mesaverde, Non-Commercial	6
Dakota, Non-Commercial	1
Dual, Mesaverde-Dakota	l (Dakota dry, plugged
	back to Mesaverde)
Plugged and Abandoned	1 (SJ 32-9 #70)
	78

Pursuant to Section 10 of the San Juan 32-9 Unit, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1965 providing for the drilling of no wells during the year.

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current unit obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners in the affected drilling blocks.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return one approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Ву:	<u> </u>	3
	Sam Smith, 1	Manager
	Land Departs	ment

SS:KM:kp

APPROVED:		DATE:_		
	Supervisor, United States Geological Survey			
	Subject to like approval by the appropriate			
	State Officials.			
APPROVED:		DATE:		
AFFROVED.	Commissioner of Public Lands	51112		
	Subject to like approval by the United			
	States Geological Survey and the Oil			
	Conservation Commission.			
	$A/P_{+}$			, .
APPROVED:	M. K. Janter La	DATE:	3. 16	(= v
	Oil Conservation Commission	_		
	Subject to like approval by the United			
	States Geological Survey and the			
	Commissioner of Public Lands.			

The foregoing approvals are for the 1965 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas P. O. Box 2159 Dallas 21, Texas

The Atlantic Refining Company Attention: Mr. W. J. Stewart P. O. Box 2819 Dallas 21, Texas

The Atlantic Refining Company Attention: Mr. Frank P. Castleberry Suite 1500, Security Life Building 1616 Glenarm Denver, Colorado 80202

Aztec 011 & Gas Company Attention: Mr. H. L. Snider, Jr. 920 Mercantile Securities Building Dallas, Texas

Suzanne LaForce Baber 1070 French Street Willows, California

Mr. Ralph A. Bard 210 South La Salle St., Room 1220 Chicago 3, Illinois

Mr. Ralph Austin Bard, Jr. 210 South La Salle Street, Room 1220 Chicago 3, Illinois

Estate of Roy E. Bard
The Northern Trust Company
Attention: Mr. James A. Shute
5 South La Salle St.
Chicago 90, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Donald S. Boynton 332 South Michigan Avenue, Room 1500 Chicago 4, Illinois

Mr. G. R. Brainard, Jr. P. O. Box 35366
Dallas 30, Texas

Brookhaven Oil Company P. O. Box 1267 Scottsdale, Arizona Mr. John S. Brown Mrs. Grace M. Brown 2400 Savannah El Paso, Texas

Continental Illinois National Bank & Trust Co. of Chicago Trustee for Trust No. 23935 231 South La Salle Street Chicago 90, Illinois

Continental Illinois National Bank & Trust Co. of Chicago Trustee for Trust No. 23949 231 South La Salle Street Chicago 90, Illinois

Continental Oil Company Attention: Mr. H. D. Haley P. O. Box 3312 Durango, Colorado

Mr. Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

Mr. Robert D. Fitting 201 West Building Midland, Texas

Mr. Ralph U. Fitting, Jr. 730 Petroleum Building Midland, Texas

Mr. Jay C. Halls, Trustee One North La Salle Street Chicago 2, Illinois

Ruth N. Halls, Trustee 460 El Cielito Road Santa Barbara, California

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Mr. Cortlandt T. Hill P. O. Box 1588 Monterey, California

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1, Minnesota SAN JUAN 32-9 UNIT Working Interest Owners Page 2

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Mr. George S. Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. Henry P. Isham, Jr. 38 South Dearborn Street Chicago 3, Illinois

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Mr. Robert Jones 730 Petroleum Life Building Midland, Texas

Mr. Wm. J. Kastrin 3940 Flamingo Drive El Paso, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Mr. W. Watson LaForce, Jr. P. O. Box 353 Midland, Texas

Mr. Claude R. Lambe 621 Union National Building Wichita 2, Kansas Margaret S. MacDonald c/o Trust Department Trust No. 23-15659 The Northern Trust Company 50 South LaSalle Street Chicago, Illinois

Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, Deceased P. O. Box 2148 Santa Fe, New Mexico

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Phillips Petroleum Company Attention: Mr. A. J. Hintze 623 Frank Phillips Building Bartlesville, Oklahoma

Phillips Petroleum Company Attention: Mr. C. W. Corbett 1200 Denver Club Building Denver, Colorado

Pubco Petroleum Corporation Attention: Mr. Gilbert J. Sevier, Jr. Attention: Mr. Robert C. Youngmun P. O. Box 1419 Albuquerque, New Mexico

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Mary S. Zick 436 Glendale Winnetka, Illinois

Mrs. Suzette M. Zurcher 110 North Wacker Drive, Room 510 Chicago 6, Illinois

### El Paso Natural Gas Company

El Paso, Texas

May 26, 1964

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico

> Re: San Juan 32-9 Unit, #14-08-001-569

San Juan County, New Mexico 1964 DRILLING PROGRAM

#### Gentlemen:

The 1964 Drilling Program for the San Juan 32-9 Unit was approved by the Regulatory Bodies on the following dates:

- 1. United States Geological Survey April 3, 1964
- 2. Commissioner of Public Lands, - April 1, 1964 State of New Mexico
- 3. Oil Conservation Commission, State of New Mexico - April 8, 1964

Copies of this letter are being sent to the working interest owners of the San Juan 32-9 Unit.

Harry Gevertz Regional Landman

Land Department

HG:KM:js

San Juan 32-9, 3.0

#### OIL CONSERVATION COMMISSION

P. O. BOX 871

#### SANTA FE, NEW MEXICO

April 8, 1964

El Faso Matural Gas Company F.O. Box 1492 El Faso, Texas

Attention: Mr. Sam Smith

Re: 1964 Drilling Program San Juan 32-9 Unit San Juan County, New Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1964 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Otelogical Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. Forter, Jr. Secretary-Director

ALP: JEK: SE

ce: Commissioner of Fublic Lands - Santa Fe United States Gaological Survey - Roswell MAIN OFFICE COC

1934 APR 7 AM 9 01

#### Brawer 1857 Result, New Mexico 88201

April 3, 1964

gl Page Matural Gas Company P. O. Don 1492

El Pase, Turas

Attention: Mr. Son Smith

Contlemn:

Your 1964 plan of development dated Pabruary 25, 1964, for the San Juan 12-9 unit ares, San Juan County, New Maxico, proposing the drilling of no additional walls, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(0:16, 90%) ICH ... MINDERSON

JOHN A. ANDERSON Regional Oil & Gas Supervisor

Washington (w/cy of plan) Parmington (w/cy of plan) MEOCC - Senta Pe (itr. only) Com. of Pub. Lands - Santa Fa (ltr. only)

#### April 3, 1964

El Paso Natural Gas Company P. O. Box 1494

El Paso, Texas

Re: San Juan 32-9 Unit San Juan County, New Mexico 1964 Ocilling Program

Attention: Mr. Sam Smith

#### Gentlemen:

The Commissioner of Public Lands approved as of April 1, 1964, the 1964 Orilling Program for the San Juan 32-9 Unit, San Juan County, New Merico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission

We are returning one approved copy of this Plan.

Very truly yours,

E. S. JOHNNY MALKER COMMISSIONER OF PUBLIC LANDS

BY:

(Mrs.) Marian M. Rhea, Supervisor Unit Division

#### ESW/max/v

cc: United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

Oil Conservation Commission Santa Fe New Mexico

## El Paso Natural Gas Company

El Paso, Texas

February 25, 1964

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico

Commissioner of Public Lands State of New Mexico P. O. Box 791 Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1964 DRILLING PROGRAM

#### Gentlemen:

By letter dated February 7, 1963, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program pertaining to the captioned unit for the calendar year 1963. Said program provided for the drilling of no wells.

However, the Wickens No. 1 Dakota Well located in the NE/4 of Section 24, Township 32 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, was drilled by Delhi-Taylor Oil Corporation during the year under Designation of Sub-Operator in accordance with the provisions of Section 13 of the San Juan 32-9 Unit Agreement. This well was spudded on May 18, 1963, and completed June 19, 1963, but a determination was made on August 23, 1963, that said well was non-commercial and the necessary Notice of Completion of Non-Commercial Well in the Dakota Formation of subject Unit was furnished to the United States Geological Survey on November 12, 1963.

As of this date, the total number of wells located in the San Juan 32-9 Unit on acreage committed or partially committed to the unit is as follows:

Mesaverde, Commercial	69
Mesaverde, Non-Commercial	6
Dakota, Non-Commercial	1
Dual, Mesaverde-Dakota	l (Dakota dry, plugged back to Mesaverde)
Plugged and Abandoned	1 (San Juan 32-9 #70)

APPROVED:		DATE:
	Supervisor, United States Geological Survey Subject to like approval by the appropriate State Officials.	
APPROVED:	Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission.	DATE:
APPROVED:	Oil Conservation Commission Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.	DATE 12 1 1 1 1 1

The foregoing approvals are for the San Juan 32-9 Unit, #14-08-001-569, 1964 Drilling Program, San Juan County, New Mexico.

#### SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas P. O. Box 2159 Dallas 21, Texas

The Atlantic Refining Company Attention: Mr. W. J. Stewart P. O. Box 2819 Dallas 21, Texas

The Atlantic Refining Company Attention: Mr. J. K. Letts P. O. Box 1198 Durango, Colorado

Aztec Oil & Gas Company Attention: Mr. H. L. Snider, Jr. 920 Mercantile Securities Building Dallas, Texas

Suzanne LaForce Baber 1070 French Street Willows, California

Mr. Ralph A. Bard 210 South La Salle St., Room 1220 Chicago 3, Illinois

Mr. Ralph Austin Bard, Jr. 210 South La Salle Street, Room 1220 Chicago 3, Illinois

Estate of Roy E. Bard
The Northern Trust Company
Attention: Mr. James A. Shute
5 South La Salle St.
Chicago 90, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Donald S. Boynton 332 South Michigan Avenue, Room 1500 Chicago 4, Illinois

Mr. G. R. Brainard, Jr. P. O. Box 35366
Dallas 30, Texas

Brookhaven Oil Company P. O. Box 1267 Scottsdale, Arizona Mr. John S. Brown Mrs. Grace M. Brown 2400 Savannah El Paso, Texas

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Standard Oil Company of Texas Attention: Mr. H. W. Mathews P. O. Box 1249 Houston 1, Texas

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Mary S. Zick 436 Glendale Winnetka, Illinois

Mrs. Suzette M. Zurcher 110 North Wacker Drive, Room 510 Chicago 6, Illinois

#### Drawer 1857 Noswell, New Mexico 88201

December 11, 1963

2

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Tomes

Attention: Nr. T. V. Bittick

#### Contlemen:

Your motice of Hovember 12, supplemented by your latter of December 9, 1963, advises that El Paso Natural Gas Company as unit operator of the San Juan 32-9 unit agreement, San Juan County, New Mexico, has determined unit well No. 1 Wickens in the MEK sac. 24, T. 32 N., R. 10 W., M.M.P.M., as incapable of producing unitimed substances from the Bekota formation. The well was completed on July 16, 1963, for a calculated open flow potential of 1,116 MCF of gas per day from the Bakota 8,131-8,299 feet.

We concur with your determination that the No. 1 Wickens well is not capable of producing unitised substances in paying quantities from the Dakota formation under existing conditions.

Sincerely yours,

GARL C. TRAYWICK Acting Gil and Gas Supervisor

cc:

Washington (w/cy of notice)
Farmington (w/cy of notice)
MMOCC-Santa Fe (ltr. only)
Com. of Pub. Lands-Santa Fe (ltr. only)

El Paso Natural Gas Company

El Paso, Texas 1993 1197 1. FM 1 23

November 12, 1963

United States Geological Survey P. O. Drawer 1857 Roswell, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico - NOTICE
OF COMPLETION OF NON-COMMERCIAL WELL
IN THE DAKOTA FORMATION

#### Gentlemen:

Under the terms of a Designation of Sub-Operator and in accordance with the provisions of Section 13 of the San Juan 32-9 Unit Agreement approved June 26, 1953, Delhi-Taylor Oil Corporation has drilled the following described well within the San Juan 32-9 Unit Area. El Paso Natural Gas Company, as Unit Operator, has determined that said well is not capable of producing unitized substances in paying quantities from the Dakota Formation:

The Wickens No. 1 Well located 1450' from the North line and 1480' from the East line of Section 24, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on May 18, 1963, and completed on June 19, 1963, at a total depth of 8316'. The Dakota Formation in intervals between 8131' - 8177', 8203' - 8235', 8246' - 8299' was treated with a sand-water fracturing process on June 19, 1963. The well was tested on July 16, 1963, and gauged 1042 MCFGPD through a 3/4" choke and 1116 MCFGPD by the calculated absolute open-flow method with a SIPC of 1526 psig and a SIPT of 1807 psig.

The determination that the foregoing well is non-commercial was made on August 23, 1963.

If this determination meets with your approval, please indicate such approval in the space provided and return an approved copy to El Paso Natural Gas Company.

Copies of this letter are being sent to the Commissioner of Public Lands and the Oil Conservation Commission of the State of New Mexico, and the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T. W. Bittick Assistant Manager Land Department

TWB: MB: js

APPROVED:	DATE:
II IIII.	DATE:

Supervisor, United States Geological Survey

#### SAN JUAN 32-9 UNIT Working Interest\_Owners

American Petrofina Company of Texas P. O. Box 2159 Dallas 21, Texas

The Atlantic Refining Company Attention: Mr. W. J. Stewart P. O. Box 2819 Dallas 21, Texas

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Mrs. Suzette M. Zurcher 110 North Wacker Drive, Room 510 Chicago 6, Illinois

#### DELHI-TAYLOR OIL CORPORATION

FIDELITY UNION TOWER DALLAS 1, TEXAS

May 8, 1963

AIR MAIL

United States Geological Survey P. O. Box 959 Farmington, New Mexico

Attn: Mr. P. T. McGrath

Re: San Juan Unit 32-9

E/2 Sec. 24, T32N-R10W

San Juan County, New Mexico

Gentlemen:

We are enclosing three (3) copies of a Designation of Sub-Operator executed by El Pase Natural as Unit Operator and Delhi-Taylor as Sub-Operator. This designation authorizes Delhi to drill a well on the acreege shown above.

A notice of intention to drill is concurrently being filed with your office.

Sincerely,

DELHI-TAYLOR OIL CORPORATION

Millard F. Carr Land Department

MFC: jn

ce: New Mexico Oil Conservation Commission w/enc (1) Copy for P. O. Box 871 Santa Fe, New Mexico

Commissioner of Public Lands w/enc (2) State Land Office Santa Fe, New Mexico

El Paso Hatural Gas Company w/enc (1)

P. O. Box 1492

El Paso, Texas

Delhi-Taylor Farmington Office w/ene (1)

#### DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this \_\_\_\_\_\_\_ day of \_\_\_\_\_\_\_\_, 1963, by and between EL PASO NATURAL GAS COMPANY, a Delaware corporation, whose address is Post Office Box 1492, El Paso, Texas, hereinafter sometimes referred to as "Operator", and DELHI-TAYLOR OIL CORPORATION, a Delaware corporation, whose address is 2630 Fidelity Union Tower, Dallas 1, Texas, hereinafter sometimes referred to as "Sub-Operator".

WHEREAS, Operator is Unit Operator for the San Juan 32-9 Unit, 14-08-001-569, San Juan County, New Mexico, hereinafter referred to as "said unit"; and

WHEREAS, Delhi-Taylor Oil Corporation has the concurrence of the owners of the oil and gas operating rights as to the Dakota Formation to conduct drilling operations on the following described tract of land:

San Juan County, New Mexico
Township 32 North, Range 10 West, N.M.P.M.
Section 24: E/2
Containing 320.00 acres, more or less; and

WHEREAS, the above described tract of land is committed to the terms and conditions of the San Juan 32-9 Unit Agreement and San Juan 32-9 Unit Operating Agreement, hereinafter referred to as "said Unit Agreement" and "said Unit Operating Agreement", respectively; and

WHEREAS, Sub-Operator desires to drill a Dakota well on the above described tract of land pursuant to the provisions of Section thirteen (13) of the said Unit Agreement; and

WHEREAS, Sub-Operator has been furnished Notice of Operator's election not to drill the said Dakota well as Unit Operator under the terms of the said Unit Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tract; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said Dakota well may be drilled by Sub-Operator.

NOW, THEREFORE, in order to permit Delhi-Taylor Oil Corporation to drill the said Dakota well, El Paso Natural Gas Company, as Unit Operator of the said unit. hereby designates Delhi-Taylor Oil Corporation as

Sub-Operator for the sole and only purpose of drilling the said Dakota well on the above described land pursuant to Section thirteen (13) of the said Unit Agreement.

Sub-Operator indicates its acceptance of this Designation by placing its signature in the space provided below and agrees to drill, complete and/or plug and abandon said Dakota well as a reasonable and prudent operator in accordance with the terms and conditions of the said Unit Agreement and the said Unit Operating Agreement and also agrees to the following conditions:

- Notify Operator when drilling operations are commenced.
- 2. Furnish Operator with complete daily driller's report, at Sub-Operator's expense.
- 3. Furnish Operator at its Farmington Office with daily reports by telephone call or telegram at Sub-Operator's expense, as to the formation or formations penetrated during the previous day's drilling, the depth at which each formation is encountered, and the depth at which the report is made.
- 4. Allow representatives of Operator access to the derrick floor at all times, at Operator's risk.
- 5. Notify Operator of intention to core, drill stem test, run well surveys or other tests in sufficient time to enable Operator's representative to be present. Additionally it is specifically understood that El Paso Natural Gas Company will be notified in sufficient time to enable El Paso's representative to be present for the official test of the well.
- 6. Adequately test and/or core all possible productive formations.
- 7. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three preliminary copies and three final copies of the analysis report to Operator.
- 8. Furnish Operator three field prints and five final prints of all well surveys made during drilling or upon completion of the well.
- 9. Permit Operator, at its sole cost and risk and for its sole use, including full rig time, to make any additional surveys, including a geophysical velocity survey as it may desire.
- 10. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of a well.
- 11. Provide Operator with copies of drilling time records, hole deviation tests and all records required by the governmental agencies having jurisdiction of the well.

- 12. Notify Operator of any intentions to plug and abandon the well and allow Operator twenty-four (24) hours in which to concur.
- 13. Sub-Operator shall carry and pay for and file with Operator for its approval proper and acceptable evidence of the following described insurance:
  - a. Workmen's Compensation and/or Employer's Liability Insurance which shall comply with the laws of the State in which this agreement is to be performed and shall cover all of its employees engaged in the activities to be performed under this agreement.
  - Automobile Public Liability Insurance with not less than \$100/300,000.00 limits covering bodily injury and death, and property damage with a limit of not less than \$50,000.00 to cover all automotive equipment used in connection with performance of this agreement.
  - c. Public Liability Insurance covering activities performed under this agreement with bodily injury and death limits of \$100,000.00 as to any one person and \$300,000.00 as to any one accident. Property Damage Insurance with limits of \$50,000.00.
- 14. Furnish the United States Geological Survey all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey, with a copy to El Paso Natural Gas Company at the addresses hereafter specified.
- 15. Provide the Commissioner of Public Lands of the State of New Mexico and the New Mexico Oil Conservation Commission copies of all reports and other well data submitted to the United States Geological Survey.

All notices, samples, or other information required to be furnished shall be sent to:

El Paso Natural Gas Company Post Office Box 1492 El Paso, Texas Attention: Land Department

With a copy to:
R1 Paso Natural Gas Company
Post Office Box 990
Farmington, New Mexico
Attention: Area Exploration Manager

Sub-Operator shall comply with all applicable laws, rules and regulations of any governmental authority having jurisdiction over operations performed under this Designation, and shall indemnify, protect and hold Operator harmless from and against any and all claims, demands or causes of

action for injuries or death to persons or damage to property occurring in connection with or in any manner incident to operations conducted by the Sub-Operator hereunder.

Sub-Operator and Operator agree that Sub-Operator shall drill and complete or plug and abandon the subject Dakota well pursuant to the provisions of the said Unit Operating Agreement.

The drilling of the said Dakota well is subject to approval by the Oil Conservation Commission of the State of New Mexico as to privately owned lands, the Commissioner of Public Lands of the State of New Mexico as to State lands, and the Supervisor of the United States Geological Survey, Roswell, New Mexico, as to Federal and/or Indian lands.

THIS DESIGNATION shall be effective for a period of time not to exceed three (3) months from the date hereof, or until said Dakota test is completed and/or plugged and abandoned.

THIS DESIGNATION is personal and cannot be assigned in whole or in part by Sub-Operator without the written consent of Operator having first been obtained.

IN WITNESS WHEREOF, this Designation is executed as of the day and year first hereinabove written.

OPERATOR

EL PASO NATURAL GAS COMPANY

Attorney Tract

SUB-OPERATOR

DELHI-TAYLOR OIL CORPORATION

ATTEST:

-

Vice President

140

STATE OF TEXAS	)
COUNTY OF EL PASO	)
The foregoing	nstrument was acknowledged before me this
day of //hay	, 1963, by Sam Smith , Attorney in Fac
for EL PASO NATURAL GAS corporation.	3 COMPANY, a Delaware corporation, on behalf of said
	Matthe Taylor
My commission expires:	Notary Public
NATALIE TAYLOR	
ry Public (n and for El . as . County, r	
STATE OF TEXAS )	
COUNTY OF DALLAS )	
	g instrument was acknowledged before me this
	Juliene Teese
My commission expires:	ROURLY FUDITE
JULIENE NEESE, Notary Public	e,
in and for Dalles county, 1 exas.	<del></del>

My Commission Expires June 1, 1963

El Paso Natural Gas Company

El Paso, Texas

May 7, 1963

Delhi Taylor Oil Corporation 2630 Fidelity Union Tower Dallas 1, Texas

Attention: Er. Killard F. Carr

#### Gentlemen:

In accordance with your recent request we are enclosing eight (8) copies of a Designation of Sub-Operator which have been executed by F1 Paso Natural Gas Company, which covers the drilling of a Dakota well in the 11/2 of Section 24. Township 32 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, and which authorizes the drilling of said well in the San Juan 32-9 Unit.

It will be necessary for you to file three (3) copies of this Designation with the United States Geological Survey and likewise furnish the Oil Conservation Commission with one copy and the Commissioner of Public Lands with two copies. Please furnish this office with a copy of your transmittal letters as well as one fully executed copy of the Designation of Sub-Operator for our files.

We would call to your attention the conditions numbered 1 through 15 in said instrument and point out that it is absolutely necessary that you furnish all of the materials and reports required in the quantities and at the times specified. Additionally it is mandatory that the well be completed in a manner satisfactory to the Oil Conservation Commission and the United States Geological Survey before El Paso Natural Gas Company can take over operation of such well as Unit Operator.

Very truly yours,

Charles T. Richardson

Charles D. Richardin

Area Coordinator

Land Department

CTR: JBB: ag Enclosures

cc: United States Geological Survey

Commissioner of Public Lands Oil Conservation Commission

NK 931 San Juan 32 9 5.0

# El Paso Natural Gas Company

El Paso, Texas

April 10, 1963

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico

Commissioner of Public Lands State of New Mexico P. O. Box 791 Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico P. O. Box 871 Santa Fe, New Mexico

San Juan 32-9 Unit

San Juan County, New Mexico

2/1/

1963 DRILLING PROGRAM

#### Gentlemen:

The 1963 Drilling Program for the San Juan 32-9 Unit was approved by the regulatory bodies on the following dates:

- 1. United States Geological Survey March 27, 1963
- 2. Commissioner of Public Lands March 13, 1963
- 3. Oil Conservation Commission - April 2, 1963

Copies of this letter are being sent to all the working interest owners of the San Juan 32-9 Unit.

Very truly yours,

Charles T. Richardson

Area Coordinator Land Department

CTR: JBB: js

# OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

Maril 2, 1963

ا في ايو الماكي

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

Attention: Mr. Sam Smith

Re: 1963 Drilling Program, San Juan 32-9 Unit, San Juan County, New Mexico

## Gentlemen:

110

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1963 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

ALP/JEK/ig Englosure

cc: United States Geological Survey Roswell, New Mexico

Commissioner of Public Lands Santa Fe, New Mexico Drawer 1857
Roswell, New Mexico

March 27, 1963

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

Attention: Mr. Sam Smith

## Gentlemen:

Your 1963 plan of development dated February 7, 1963, for the San Juan 32-9 unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)
Farmington (w/cy of plan)
NMOCC-Santa Fe (ltr. only)
Com. of Pub. Lands, Santa Fe (ltr. only)

March 13, 1963

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas

Re: San Juan 32-9 Unit, San Juan County, New Mexico. 1963 Drilling Program

Attention: Mr. Sam Smith

### Gentlemen:

The Commissioner of Public Lands has approved as of March 13, 1963, your 1963 Drilling Program for the San Juan 32-9 Unit Area, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning one approved copy of this plan.

Very truly yours,

B. S. Johnny Walker COMMISSIONER OF PUBLIC LANDS

BY:

(Mrs.) Marian M. Rhea Supervisor, Unit Division

ESW/mmr/e encl:

United States Geological Survey Roswell, New Mexico

Oil Conservation Commission Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

INDEED IN M : 20

February 7, 1963

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico

Commissioner of Public Lands State of New Mexico P. O. Box 791 Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico P. O. Box 871 Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico 1963 DRILLING PROGRAM

## Gentlemen:

By letter dated March 9, 1962, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1962. Said Program provided for the drilling of no wells.

As of this date, the total number of wells located in the San Juan 32-9 Unit on acreage committed or partially committed to the unit is as follows:

Mesaverde (Commercial)	69
Mesaverde (Non-Commercial)	6
Dual, Mesaverde-Dakota	1 (Dakota dry, plugged back to
Plugged & Abandoned	Mesaverde) 1 (San Juan 32-9 #70) 77
	77

Pursuant to Section 10 of the San Juan 32-9 Unit, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of no wells during the period from January 1, 1963 to December 31, 1963.

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their desires for additional drilling and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current unit obligations have been satisifed.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and the working interest owners in the affected drilling blocks.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Land Department

SS: JBB: ag

APPROVED:		DATE:
-	Supervisor, United States Geological Survey	
	Subject to like approval by the appropriate	
	State officials.	
APPROVED:		DATE:
-	Commissioner of Public Lands	
	Subject to like approval by the United States	
	Geological Survey and the Oil Conservation Com	mission.
	•	
	$\alpha \alpha $	
	PPP = P	//
APPROVED:	Up Jailer 4	DATE: 4/2/63
,	Oil Conservation Commission	
	Subject to like approval by the United States	
	Geological Survey and the Commissioner of	
	Public Lands.	

The foregoing approvals are for the 1963 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas P. O. Box 2159 Dallas 21, Texas

The Atlantic Refining Company Attention: Mr. W. J. Stewart P. O. Box 2819 Dallas 21, Texas

The Atlantic Refining Company Attention: Mr. J. K. Letts P. O. Box 1198 Durango, Colorado

Aztec Oil 7 Gas Company Attention: Mr. H. L. Snider, Jr. 920 Mercantile Securities Building Dallas, Texas

Suzanne LaForce Baber 1070 French Street Willows, California

Mr. Ralph A. Bard 210 South La Salle St., Room 1220 Chicago 3, Illinois

Mr. Ralph Austin Bard, Jr. 210 South La Salle St., Room 1220 Chicago 3, Illinois

Estate of Roy E. Bard
The Northern Trust Company
Attention: Mr. James A. Shute
5 South La Salle St.
Chicago 90, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Donald S. Boynton 332 South Michigan Avenue, Room 1500 Chicago 4, Illinois

Mr. G. R. Brainard, Jr. P. O. Box 35366
Dallas 30, Texas

Brookhaven Oil Company P. O. Box 1267 Scottsdale, Arizona Mr. John S. Brown Mrs. Grace M. Brown 2400 Savannah El Paso, Texas

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23935
231 South La Salle Street
Chicago 90, Illinois

Continental Illinois National Bank & Trust Company of Chicago
Trustee of Trust No. 23949
231 South La Salle Street
Chicago 90, Illinois

Delhi-Taylor Oil Corporation 2630 Fidelity Union Tower Dallas 1, Texas

Mr. Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

Mr. Robert D. Fitting 201 West Building Midland, Texas

Mr. Ralph U. Fitting, Jr. 730 Petroleum Building Midland, Texas

Mr. Jay C. Halls One North La Salle Street Chicago 2, Illinois

Ruth N. Halls 460 El Cielito Road Santa Barbara, California

Nancy H. Haskins One North La Salle St., Room 3300 Chicago 2, Illinois

Mr. Cortlandt T. Hill P. O. Box 1588 Monterey, California

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1, Minnesota SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Louis W. Hill, Jr. W. 1453 First National Bank Building St. Paul 1, Minnesota

Mr. Albert H. Hopkins, Jr. One North La Salle Street, Room 1007 Chicago 3, Illinois

Eleanor Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. George S. Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. Henry P. Isham, Jr. 38 South Dearborn Street Chicago 3, Illinois

Mr. R. Nelson Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. Robert T. Isham 38 South Dearborn Street Chicago 3, Illinois

Josephine T. Jacobson c/o Republic National Bank Attention: Mr. Dewitt Ray P. O. Box 5961 Dallas 22, Texas

Mr. Robert Jones 730 Petroleum Life Building Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Mr. W. Watson LaForce, Jr. P. O. Box 353 Midland, Texas

Mr. Claude R. Lambe 621 Union National Building Wichita 2, Kansas Margaret S. MacDonald c/o Trust Department Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

Catherine B. McElvain, Individually and as Executrix of the Estate of T. H. McElvain, deceased P. O. Box 2148
Santa Fe, New Mexico

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe. New Mexico

Mr. Sterling Morton 110 N. Wacker Drive Chicago 6, Illinois

Phillips Petroleum Company Attention: Mr. R. F. Rood 402 Bank Building Bartlesville, Oklahoma

Phillips Petroleum Company
Attr: C. W. Corbett, Manager
Exploration & Production Dept.
1200 Denver Club Building
Denver, Colorade

Pubco Petroleum Corporation Attention: Mr. Gilbert J. Sevier, Jr. P. O. Box 1419 Albuquerque, New Mexico

Pubco Petroleum Corporation Attention: Mr. Robert C. Youngmun P. O. Box 1419 Albuquerque, New Mexico

Nora R. Ranney RFD Casey Road Libertyville, Illinois

Rock Island Cil & Refining Company 321 West Douglas Street Wichita, Kansas SAN JUAN 32-9 UNIT Working Interest Owners Page 3

Catharine H. Ruml One North La Salle Street Chicago 2, Illinois

Mr. Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

Trust #1 for Benefit of John I Shaw and Rodger D. Shaw 135 South La Salle St., Room 3710 Chicago 3, Illinois

Mr. Frederick F. Webster, Trustee Estate of James Simpson, Jr. 30 West Monroe Street, Room 910

Mr. William Simpson 30 West Monroe Street Chicago 3, Illinois

Mr. Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Standard Oil Company of Texas Attention: Mr. H. W. Mathews P. O. Box 1249 Houston 1, Texas Sunac Petroleum Corporation 1100 Mercantile Continental Building Dallas, Texas

Mr. Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Mr. R. Douglas Stuart 345 Mercandise Mart Chicago 54, Illinois

Mr. John Stuart 345 Merchandise Mart Chicago 54, Illinois

Mr. William P. Sutter One North La Salle Street Chicago 2, Illinois

Texaco, Inc. P. O. Box 2100 Denver 1, Colorado

Mr. Frederick F. Webster 30 West Monroe Street, Room 910 Chicago 3, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

Mrs. Suzette M. Zurcher 110 North Wacker Drive, Room 510 Chicago 6, Illinois

## Copy to:

Pan American Petroleum Corporation (12) Attention: Mr. T. M. Curtis P. O. Box 480 Farmington, New Mexico



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Drawer 1857 Roswell, New Mexico

May 8, 1962

计机能 医 關 1 分

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas

Attention: Mr. Sam Smith

### Gentlemen:

Your 1962 plan of development dated March 9, 1962, for the San Juan 32-9 unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date, subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

(Orle Sed.) CARL C. TRAYWICK

for JOHN A. ANDERSON Regional Oil & Gas Supervisor

Copy to: Washington (w/cy of plan)

Farmington (w/cy of plan)

NMOCC-Santa Fe (ltr only)

Com. of Pub. Lands-Santa Fe (1tr only)

# P.O. BOX 871 SANTA FE, NEW MEXICO

498

# Merch 26, 1962

El Paso Natural Gas Company Box 1492 El Paso, Texas

# attention: Mr. sam Suith

Re: 1962 Drilling Program
San Juan 32-9 Unit,
San Juan County,
New Mexico

# Gentlemen:

This is to advise that the New Mexico will Conservation Commission has this date approved the 1962 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

n. L. PORTER, Jr., Becretary-Director

ALP/JCK/og

cc: U. S. Geological Survey - Roswell Commissioner of Public Lands - Santa Fe

# March 21, 1962

El Paso Natural Gas Company P. O. Box 1492 El Paso, Taxas

> Re: San Juan 32-9 Unit San Juan County, New Mexico, 1962 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands has of this date approved the 1962 Drilling Program for San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and Oil Conservation Commission.

We are enclosing one approved copy of this Plan.

Very truly yours,

E. S. JOHNNY WALKER COMMISSIONER OF PUBLIC LANDS

ESW/mmr/v

cc: U. S. Geological Survey Roswell, New Mexico

> Oil Conservation Commission Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas

## FAKMIA/KW/XV9.VXIV982X

March 9, 1962

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico

Commissioner of Public Lands State of New Mexico P.O. Box 791 Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico P.O. Box 871 Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

1962 Drilling Program

## Gentlemen:

By letter dated January 20, 1961, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1961. Said Program provided for the drilling of no wells.

As of this date, the total number of wells located in the San Juan 32-9 Unit on acreage committed or partially committed to the unit is as follows:

Mesaverde (Commercial) 69 Mesaverde (Non-commercial) 6

Dual, Mesaverde-Dakota 1 (Dakota dry, plugged back to

Mesaverde)

Plugged & Abandoned 1 (San Juan 32-9 #70)

Pursuant to Section 10 of the San Juan 32-9 Unit, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of no wells during the period from January 1, 1962 to December 31, 1962. However, El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances, and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners in the affected drilling blocks.

All of the working interest owners have been notified and we have received no requests for additional development from said owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this drilling program are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Sam Smith, Manager

Land Department

SS: GA: cah

APPROVED:		DATE :
	Supervisor, United States Geological Survey Subject to like approval by the appropriate	
	State officials.	
APPROVED:		DATE:
	Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Co	
APPROVED:	16 Sailer	DATE: 3 2016 1
	Oil Conservation Commission	
	Subject to like approval by the United States	5
	Geological Survey and the Commissioner of Pul	olic Lands.

The foregoing approvals are for the 1962 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico.

# SAN JUAN 32-9 UNIT Working Interest Owners

American Petrofina Company of Texas P.O. Box 2159 Dallas 21, Texas

The Atlantic Refining Company Attention: Mr. W. J. Stewart P.O. Box 2819 Dallas 21, Texas

The Atlantic Refining Company Attention: Mr. J. K. Letts P.O. Box 1198 Durango, Colorado

Aztec Oil & Gas Company Attention: Mr. H. L. Snider, Jr. 920 Mercantile Securities Building Dallas, Texas

Suzanne LaForce Baber 217 South Lassen Street Willows, California

Mr. Ralph A. Bard 208 South La Salle St., Room 504 Chicago 4, Illinois

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

Estate of Roy E. Bard The Northern Trust Company Attention: Mr. James A. Shute 5 South La Salle St. Chicago 90, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Donald S. Boynton 332 South Michigan Avenue, Room 1500 Chicago 4, Illinois

Mr. G. R. Brainard, Jr. P.O. Box 35366
Dallas 30, Texas

Brookhaven Oil Company P.O. Box 1267 Scottsdale, Arizona Mr. John S. Brown Mrs. Grace M. Brown 2400 Savannah El Paso, Texas

City National Bank & Trust Company Trustee for Trust No. 23935 208 South La Salle Street Chicago 4, Illinois

City National Bank & Trust Company Trustee of Trust No. 23949 208 South La Salle Street Chicago 4, Illinois

Delhi-Taylor Oil Corporation 2630 Fidelity Union Tower Dallas 1, Texas

Mr. Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

Mr. Robert D. Fitting 201 West Building Midland, Texas

Mr. Ralph U. Fitting, Jr. 730 Petroleum Building Midland, Texas

Mr. Jay C. Halls One North La Salle Street Chicago 2, Illinois

Ruth N. Halls 460 El Cielito Road Santa Barbara, California

Nancy H. Haskins One North La Salle St., Room 3300 Chicago 2, Illinois

Mr. Cortlandt T. Hill P.O. Box 1588 Monterey, California

Elsie F, Hill W. 1453 First National Bank Building St. Paul 1, Minnesota SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Louis W. Hill, Jr. W. 1453 First National Bank Building St. Paul 1, Minnesota

Mr. Albert H. Hopkins, Jr.
One North La Salle Street, Room 1007
Chicago 3, Illinois

Eleanor Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. George S. Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. Henry P. Isham, Jr. 38 South Dearborn Chicago 3, Illinois

Mr. R. Nelson Isham 38 South Dearborn Street Chicago 3, Illinois

Mr. Robert T. Isham 38 South Dearborn Street Chicago 3, Illinois

Josephine T. Jacobson c/o Republic National Bank Attention: Mr. Dewitt Ray P.O. Box 5961 Dallas 22, Texas

Mr. Robert Jones 730 Petroleum Life Building Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Mr. W. Watson LaForce, Jr. P.O Box 353 Midland, Texas

Mr. Claude R. Lambe 621 Union National Bank Building Wichita 2, Kansas Margaret S. MacDonald c/o Trust Department Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago. Illinois

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Sterling Morton 110 N. Wacker Drive Chicago 6: Illinois

Phillips Petroleum Company Attention: Mr. V.H. Stone and Mr. R.F. Rood 508 Bank Building Bartlesville, Oklahoma

Phillips Petroleum Company Land and Geological Department 1200 Denver Club Building Denver, Colorado

Pubco Petroleum Corporation Attention: Mr. Gilbert J. Sevier, Jr. P.O. Box 1419 Albuquerque, New Mexico

Pubco Petroleum Corporation Attention: Mr. Robert C. Youngmun P.O. Box 1419 Albuquerque, New Mexico

Nora R. Kanney RFD Casey Road Libertyville, Illinois

Rock Island Oil & Refining Company 321 West Douglas Street Wichita, Kansas

Catharine H. Ruml One North La Salle Street Chicago 2, Illinois SAN JUAN 32-9 UNIT Working Interest Owners Page 3

Mr. Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle St., Room 3710 Chicago 3, Illinois

Mr. Frederick F. Webster, Trustee Estate of James Simpson, Jr. 30 West Monroe Street, Room 910 Chicago 3, Illinois

Mr. William Simpson 30 West Monroe Street Chicago 3, Illinois

Mr. Harold Byron Smith 2501 North Keeler Street Chicago Illinois

Standard Oil Company of Texas Attention: Mr. H. W. Mathews P.O. Box 1249 Houston 1, Texas

Stekoll Petroleum Corporation 1100 Mercantile Continental Building Dallas, Texas Mr. Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Mr. R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Mr. John Stuart 345 Merchandise Mart Chicago 54, Illinois

Mr. William P. Sutter One North La Salle Street Chicago 2, Illinois

Texaco, Inc. P.O. Box 3109 Midland, Texas

Mr. Frederick F. Webster 30 West Monroe Street, Room 910 Chicago 3, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

Mrs. Suzette M. Zurcher 110 North Wacker Drive, Room 510 Chicago 6, Illinois

Copy to:

Pan American Petroleum Corporation Attention: Mr. T. M. Curtis P.O. Box 480 Farmington, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

August 1, 1961

Cast 498

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico

Commissioner of Public Lands State of New Mexico Post Office Box 791 Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> San Juan 32-9 Unit 1961 Drilling Program

### Gentlemen:

The 1961 Drilling Program for the San Juan 32-9 Unit has been approved by the regulatory bodies on the dates indicated:

- 1. United States Geological Survey, July 21, 1961
- 2. Commissioner of Public Lands, March 2, 1961
- 3. Oil Conservation Commission, July 28, 1961

Copies of this letter are being sent to the working interest owners of the San Juan 32-9 Unit.

Very truly yours,

Charles Higgins

Area Coordinator

Land Department

CH: GA: cah

# O . CONSERVATION COMMISSIC.1

P. O. BOX 871

SANTA FE, NEW MEXICO

448

July 28, 1961

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

Attention: Mr. Sam Smith

Re: 1961 Drilling Program San Juan 32-9 Unit San Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1961 Drilling Program for the San Juan 32-9 Unit San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours.

A. L. PORTER, Jr., Secretary-Director

ALP/JEK/ig

cc: U. S. Geological Survey - Roswell Commissioner of Public Lands - Santa Fe

# Drawer 1857 Roswell, New Mexico

July 21, 1961

El Paso Hatural Gas Company

P. O. Box 1492

El Paso, Texas

Attention: Mr. Sam Smith

### Gentlemen:

Your plan of development dated January 20, 1961, for 1961, San Juan 32-9 unit area, San Juan County, New Mexico, which proposes the drilling of no wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

WILLIAM H. FELOMILLER Acting Oil and Gas Supervisor

### Enclosures

Copy to: Washington (w/cy of plan)

Farmington (w/cy of plan)
NMOCC, Santa Fe (ltr only)

Com. of Pub. Lands, Santa Fe (ltr only)

# March 2, 1961

El Paso Natural Gas Company

El Paso, Texas

Re: San Juan 32-9

San Juan County, New Mexico

1961 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

The Coumissioner of Public Lands has of this date approved your Flan of Development for 1961, dated January 20, 1961 for the Sam Juan 32-9 Unit Area, Sam Juan Coumty, New Mexico. The Coumissioner's approval is subject to like approval by the US Geological Survey and the Oil Conservation Commission.

This plan submitted provides for the drilling of no wells during the period from January 1, 1961, to December 31, 1961, due to the uneconomical evaluation of the remaining undrilled locations.

One approved copy of this plan is enclosed.

Very truly yours,

E. S. JOHNNY WALKER COMMISSIONER OF PUBLIC LANDS

ESW/mmx/s

961

US Geologial Survey Rosuell, N.M.

Oil Conservation Commission Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

January 20, 1961

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1961 DRILLING PROGRAM

#### Gentlemen:

By letter dated January 18, 1960, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1960. Said Program provided for the drilling of eight (8) Mesaverde Wells. Five (5) wells have been completed upon lands committed to the unit and three (3) have been admitted to the Participating Area. Two (2) wells were completed as non-commercial wells; and three (3) wells were eliminated from the 1960 Drilling Program because of the insufficient reserves which were attributable to each location.

As of this date, the total number of wells located in the San Juan 32-9 Unit on acreage committed or partially committed to the Unit is as follows:

Mesaverde (Commercial) 69
Mesaverde (Non-Commercial) 6
Dual, Mesaverde-Dakota 1 (Dakota dry, plugged back to Mesaverde)
Plugged & Abandoned 1 (San Juan 32-9 #70)

Pursuant to Section 10 of the San Juan 32-9 Unit, El Paso Natural Gas Company, as Unit Operator, is herewith submitting this Drilling Program providing for the drilling of no wells during the period from January 1, 1961, to December 31, 1961. No wells are being submitted for 1961 in view of the results of the 1960 drilling program and the present uneconomical evaluation of the remaining undrilled locations. However, El Paso Natural Gas Company, as Unit Operator, plans to drill any

offset wells required to prevent drainage of unitized substances, and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners in the affected drilling blocks.

All of the working interest owners have been notified and we have received no requests for additional development from said owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet, and return an approved copy to El Paso Natural Gas Company.

Copies of this drilling program are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Sam Smith, Manager

Land Department

SS:GA: cah

APPROVED:		DATE:	
	United States Geological Survey		
	Subject to like approval by the appropriate		
	State Officials.		
APPROVED:		DATE:	
	Commissioner of Public Lands	_	
	Subject to like approval by the United		
	States Geological Survey and the Oil		
	Conservation Commission.		
APPROVED:	and Senter L	DATE:_	7-28-61
	Oil Conservation Commission		
	Subject to like approval by the United		
	States Geological Survey and the		
	Commissioner of Public Lands.		

The foregoing approvals are for the 1961 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico.

# SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Mr. R. L. Caldwell Delhi-Taylor Oil Corporation 1507 Pacific Avenue Dallas 1, Texas

Mr. W. J. Stewart The Atlantic Refining Company Post Office Box 2819 Dallas 21, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston 1; Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

American Petrofina Company of Texas Post Office Box 2159 Dallas 21, Texas

Mr. Ralph U. Fitting, Jr. 730 Petroleum Building Midland, Texas

Rock Island Oil & Refining Company 321 West Douglas Wichita, Kansas

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Building Dallas, Texas

Mr. T. H. McElvain 220 Shelby St. Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2400 Savannah El Paso, Texas

Mr. Sterling Morton 125 South La Salle St. Chicago: Illinois

John M. Simpson 30 West Monroe St., Room 910 Chicago 3, Illinois Mr. J. C. Gordon Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. J. K. Letts
The Atlantic Refining Company
Post Office Box 1198
Durango, Colorado

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 314 Milam Building San Antonio, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby St. Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 1267 Scottsdale, Arizona

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

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Mr. Gilbert J. Sevier, Jr. Mr. Robert C. Youngmun Pubco Petroleum Corporation P.O. Box 1419
Albuquerque, New Mexico

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle Street, Room 504 Chicago 4, Illinois

Petro-Atlas, Inc. 2000 National Bank of Tulsa Building Tulsa, Oklahoma

Mr. G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas

SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS PAGE 2

Frederick F. Webster 30 West Monroe, Room 910 Chicago 3, Illinois

R. Nelson Isham
38 South Dearborn St., Room 1007
Chicago 3, Illinois

John Stuart 345 Merchandise Mart Chicago 54, Illinois

Catharine H. Ruml
One North La Salle St.
Chicago 2, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

J. Robert Jones 730 Petroleum Life Building Midland, Texas

Claude R. Lambe 621 Union National Bank Building Wichita 2, Kansas

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle St., Room 3710 Chicago 3, Illinois

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Edward L. Ryerson, Jr. 17 Highland St. Cambridge, Massachusetts

Mr. Ralph A. Bard 208 South La Salle St., Room 504 Chicago 4, Illinois

Josephine C. Jacobson c/o Republic National Bank Attention: Dewitt Ray P.O. Box 5961 Dallas 22, Texas Nora R. Ranney RFD Casey Road Libertyville, Illinois

Eleanor Isham 38 South Dearborn St., Room 1007 Chicago 3, Illinois

Jay C. Halls One North La Salle St. Chicago 2, Illinois

Robert D. Fitting 201 West Building Midland, Texas

William P. Sutter One North La Salle St. Chicago 2, Illinois

Suzanne LaForce Baber 217 South Lassen St. Willows, California

F. F. Webster
30 West Monroe
Chicago 3, Illinois

City National Bank & Trust Company Trustee for Trust No. 23935 208 South La Salle Street Chicago 3, Illinois

Margaret S. MacDonald c/o Trust Department Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

Estate of Roy E. Bard
The Northern Trust Company
5 South La Salle St.
Chicago 90, Illinois
Attention: Mr. James A. Shute

W. Watson LaForce, Jr. P.O. Box 353 Midland, Texas

Cortlandt T. Hill P.O. Box 1588 Monterey, California SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS PAGE 3

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1. Minnesota

Donald S. Boynton 332 South Michigan Ave., Room 1500 Chicago 4, Illinois

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Charles W. Farnham 135 South La Salle St. Chicago 3, Illinois

R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Ruth N. Halls 460 El Cielito Road Santa Barbara, California

Suzette M. Zurcher 1301 Astor St. Chicago 10, Illinois

Shaw, Isham & Company 135 South La Salle St. Chicago 3, Illinois Nancy LaForce Keys Route 2, North Madison St. Hinsdale, Illinois

Louis W. Hill, Jr. W. 1453 First National Bank Building St. Paul 1, Minnesota

City National Bank & Trust Company Trustee of Trust No. 23949 208 South La Salle St. Chicago 4, Illinois

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Henry P. Isham, Jr. 38 South Dearborn St., Room 1007 Chicago 3, Illinois

Albert H. Hopkins, Jr. One North La Salle St., Room 1007 Chicago 3, Illinois

William Simpson 30 West Monroe St. Chicago 3, Illinois

Nancy H. Haskins One North La Salle, St., Room 3300 Chicago 2, Illinois

James Simpson, Jr. 30 West Monroe St., Room 910 Chicago 3, Illinois

\* \* \* \* \* \*

with copy to:

Pan American Petroleum Corporation P.O. Box 480 Farmington, New Mexico Attention: Mr. L. O. Speer, Jr.



# DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Part 6721

Beautiful How Hexico

December 29, 1960

El Paso Natural Cas Company P. O. Box 1492 El Paso, Taxas

Attention: Mr. Sem Smith

#### Gentleman:

Your supplemental 1960 drilling program, dated September 30, 1960, for the San Juan 32-9 unit area, San Juan County, New Maxico, which deletes three Meseverde formation wells in secs. 19, 20, 29, T. 32 N., R. 9 W., N.M.P.M., New Memico, has been approved on phis date subject to like approval by the appropriate state officials.

The approved copies of the plan are enclosed.

Very truly yours,

EDWIN M. THOMASSON

Acting Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)

Parmington (w/ay of plan), NMOCC, Santa Fe (ltr only)



# UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

P. O. Box 6721 Boowell, New Mexico

December 29, 1960

Burn Back

El Paso Hatural Gas Company Land Department El Paso, Texas

Attention: Mr. Sam Smith

### Centleman:

Your notice of December 12 advises that El Paso Hatural Gas Company, as unit operator of the Sam Juan 32-9 unit, has determined that unit walls No. 78 and 79 in sec. 17, T. 32 N., R. 9 W., H.M.P.M., San Juan County, New Maxico, are incapable of producing unitized substances in paying quantities from the Messverde formation.

This :effice concurs with your determination that the above described unit wells are inexpeble of producing oil or gas in paying quantities under existing conditions.

Very truly yours,

EDWIN M. THOMASON Acting Regional Oil and Gas Supervisor

Copy te: Washington (w/cy of notice)

Comm. Pub. Lands, Santa Fe (itr only)

-NMOCC, Santa Fe (ltr. only)

# El Paso Natural Gas Company

El Paso, Texas

December 20, 1960

Mr. John A. Anderson Regional Gil and Gas Supervisor United States Geological Survey Post Office Box 6721 Reguell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capital Annex Building Santa Pe, New Mexico

> No: San Juan 32-9 Unit, #14-08-001-869 San Juan County, New Mexico

#### Gentlemen:

El Paso Natural Gas Company has determined that the San Juan 32-9 Unit No. 78 and No. 79 Wells are incapable of producing unitized substances in paying quantities from the Mesaverde Formation.

The determination that these two wells are non-countercial is based on the following factors which include the following estimates as to the original gas-in-place under each drilling block:

	No. 78 Well	No. 79 Well
Pactors	W/2 Sec. 17 T32M, R9W	E/S Sec. 17 T3SH, ROW
Het pay: (determined from well logs)	14 ft.	9 ft.
Average perceity: (field average)	9.1%	9.1%
Interstitial water saturation: (field aver	rage) 28.6%	28.6%
Retinated gas specific gravity:	0.56	0.58
Bottom hole temperature:	1880	1890
Original bottom hole p.s.i.a. pressure:	1343	1243

Estimated gas compressibility at original

eonditions: 0.930 0.930

Retinated original gas-in-place: 900 MaCF 500 MaCF

For the purpose of illustrating the economics involved concerning the ecompletion expense of \$83,000.00 for each well we offer the following information:

Pactors	No. 78 Well	No. 79 Well
Not Interest (excluding overriding royalty and production payments):	87,5%	87.9%
Estimated New Mexico production tames:	5.6%	5.0%
Estimated annual operating empense:	\$720	\$730
Estimated average gas value, conts/Mcf	14	14
Deliverability, Mcf/D:	170	180
Estimated load factor:	76%	70%
Retinated annual production, Med:	43,430 (170 x 365 x 0.70)	40,630 (180 x 365 x 0.70)
Estimated ammual income:	\$8,099 (43,430 x .875 x .944 x .14)	\$4,760 (46,630 x .875 x .944 x .14)
Estimated annual income after operating expense:	\$4,300	\$3,980
Number of years to payout: (Well cost + annual income after expenses)	19.3	20.9
Volume of gross gas required for payout, Mac (Payout years x yearly production)	of 838 m <sup>2</sup> CF	849 H <sup>2</sup> CF

The above economies do not include any expense for interest on the invested capital nor do they provide for decline in future productivity of the well. We have also excepted from our computations, a workover and remedial contingency fund in the amount of \$10,000.00 which we have found to be a reasonable estimate of the remedial expenditures during the life of a well.

These factors, and the fact that the well at times might be off production, would lengthen the indicated payout time.

Therefore, as to the No. 78 Well based on the calculated gas-inplace, the recovery of 838 M<sup>2</sup>ef would require a recovery factor of approximately 90%. In view of the low potential and corresponding expected low
deliverability and anticipated decline in future productivity, it is very doubtful whether the actual recovery factor will approach that required for payout.
As to the No. 79 Well, there is insufficient gas assigned to the well to achieve
payout.

In view of the economic showing, we do not feel that these wells are ecomorcial and submit herewith, in accordance with Section 11(a) of the San Juan 32-9 Unit Agreement, Unit Operator's Notice of Completion of Non-Commercial Wells in the Messverde Formation.

Very truly yours,

KL PASO NATURAL GAS COMPANY

Sam'Smith, Makager Land Department

88 :GA: js

Exclosure

### El Paso Natural Gas Company

El Paso, Texas

December 14, 1960

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
NOTICE OF COMPLETION OF NON-COMMERCIAL
WELLS, MESAVERDE FORMATION

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, has concluded that because of insufficient reserves, the following described wells located within the San Juan 32-9 Unit, are not capable of producing unitized substances in paying quantities from the Mesaverde Formation:

The San Juan 32-9 Unit #78 Well is located 990' from the South line and 990' from the West line of Section 17, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on July 25, 1960, and completed on August 17, 1960, at a total depth of 6015' and a clean out depth of 5965'. The Mesaverde Formation between 5754' - 5764', 5772' - 5782', 5792' - 5796', 5810' - 5826', 5834' - 5846' and 5856' - 5862' was treated with a sand-water fracturing process. This well was shut-in on October 8, 1960, and after being shut-in for gauge for twenty-four (24) days, the well was tested on November 1, 1960, and following a three (3) hour blow-down period gauged 2193 MCFGPD through a 3/4" choke and 2503 MCFGPD by the calculated

absolute open-flow method, with an SIPT of 1090# and an SIPC of 1092#. The committed drilling block upon which this well is located is described as the W/2 of Section 17. Township 32 North, Range 9 West, N.M.P.M., and consists of 320,00 acres.

The San Juan 32-9 Unit #79 Well, located 1227' from the North line and 1090' from the East line of Section 17, Township 32 North, Range 9 West, N.M.P.M., San Juan County. New Mexico, was spudded on July 9, 1960, and completed on July 24, 1960, at a total depth of 6264' and a clean out depth of 6194'. The Mesaverde Formation between 6010' - 6034', 6058' - 6081', 6087' -6102', and 6128' - 6148' was treated with a sand-water fracturing process. The well was shut-in on July 23. 1960, and reshut-in on July 30, 1960. After being shut-in for gauge for thirteen (13) days, the well was tested on August 12, 1960, and following a three (3) hour blow-down period gauged 2024 MCFGPD through a 3/4" choke, and 2376 MCFGPD by the calculated absolute openflow method, with an SIPC of 1008# and an SIPT of 1008#. The committed drilling block upon which this well is located is described as the E/2 of Section 17. Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres.

Inasmuch as this needs no official approval, pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, no provision is made therefor, and in the absence of disapproval, this determination shall be effective as of November 1, 1960, for the #78 Well and August 12, 1960, for the #79 Well, the dates the subject wells were tested.

Copies of this letter are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Sam Smith, Manager

Land Department

SS: GA: cah Attachments SAN JUAN 32-9 Unit Working Interest Onwers

Mr. R. L. Caldwell Delbi-Taylor Oil Corporation 2630 Fidelity Union Tower 1507 Pacific Avenue Dallas 1. Texas

Mr. W. J. Stewart The Atlantic Refining Company Post Office Box 2819 Dallas 21, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston 1. Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

American Petrofina Company of Texas Post Office Box 2159 Dallas 21, Texas

Mr. Ralph U. Fitting, Jr. 730 Petroleum Life Building Midland, Texas

Rock Island Oil & Refining Company 321 West Douglas Wichita, Kamsas

Mr. H. L. Snider, Jr.
Aztec Oil & Gas Company
920 Mercantile Securities Building
Dallas. Texas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mra. Grace M. Brown 2400 Savannah El Paso, Texas

Mr. Sterling Morton 120 South La Salle Street Chicago: Illinois

John M. Simpson 30 West Monroe Street, Room 910 Chicago 3, Illinois Mr. J. C. Gordon Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1. Texas

Mr. J. K. Letts
The Atlantic Refining Company
Post Office Box 1198
Durango, Colorado

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 314 Milam Building San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe. New Mexico

Brookhaven Oil Company Fost Office Box 1267 Scottsdale, Arizona

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Texaco, Inc.
Post Office Box 3109
Midland, Texas

Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. Ton Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle Street Room 504 Chicago 4, Illinois

Petro-Atlas, Inc. 2000 National Bank of Tulsa Building Tulsa, Oklahoma

G. R. Brainard, Jr.6425 Mimosa LaneDallas 30, Texas

SAN JUAN 32-9 UNIT Working Interest Owners Pege 2

Frederick F. Webster 30 West Monroe, Room 910 Chicago 3, Illinois

R, Nelson Isham 38 South Dearborn St., Room 1007 Chicago 3, Illinois

John Stuart 345 Merchandise Mart Chicago 54, Illinois

Catharine H. Ruml One North La Salle Street Chicago 2, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

J. Robert Jones 730 Petroleum Life Building Midland, Texas

Claude R. Lambe
621 Union National Bank Building
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George S. Isham 38 South Dearborn St., Room 1007 Chicago 3, Illinois

Estate of Roy E. Bard
The Northern Trust Company
5 South La Salle Street
Chicago 90, Illinois
Attention: Mr. James A. Shute

Josephine C. Jacobson c/o Republic National Bank Attention: Dewitt Ray Post Office Box 5961 Dallas 22. Texas

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas Nora R. Ranney RFD Casey Road Libertyville, Illinois

Eleanor Isham 38 South Dearborn St., Room 1007 Chicago 3, Illinois

Jay C. Halls One North La Salle Street Chicago 2, Illinois

Robert D. Fitting 201 West Building Midland, Texas

William P. Sutter One North La Salle Street Chicago 2, Illinois

Suzanne LaForce Baber 217 South Lassen Street Willows, California

F. F. Webster30 West MonroeChicago 3, Illinois

City National Bank & Trust Company Trustee for Trust No. 23935 208 South La Salle Street Chicago 4, Illinois

Margaret S. MacDonald c/o Trust Department Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Mr. Ralph A. Bard 208 South La Salle Street, Room 504 Chicago 4, Illinois

Cortlandt T. Hill Post Office Box 1588 Monterey, California SAN JUAN 32-9 UNIT Working Interest Owners Page 3

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1. Minnesota

Donald S. Boynton 332 South Michigan Ave., Room 1500 Chicago 4, Illinois

Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Robert T. Isham 38 South Dearborn Street, Room 1007 Chicago 3, Illinois

Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Ruth N. Halls 460 El Cielito Road Santa Barbara, California

Suzette M. Zurcher 1301 Astor Street Chicago 10, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Louis W. Hill, Jr.
W. 1453 First National Bank Building
St. Paul 1, Minnesota

City National Bank & Trust Company Trustee of Trust No.:23949 208 South La Salle Street Chicago 4, Illinois

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Henry P. Isham, Jr. 38 South Dearborn St., Room 1007 Chicago 3, Illinois

Albert H. Hopkins, Jr. One North La Salle St., Room 3300 Chicago 2, Illinois

William Simpson 30 West Monroe Street Chicago 3, Illinois

Nancy H. Haskins One North La Salle Street, Room 3300 Chicago 2, Illinois

James Simpson, Jr. 30 West Monroe Street, Room 910 Chicago 3, Illinois

\* \* \* \* \*

with copy to:
Pan American Petroleum Corporation
Post Office Box 480
Farmington, New Mexico
Attention: Mr. L. O. Speer, Jr.

#### ( . CONSERVATION COMMISSI )

P. O. BOX 871

#### SANTA FE. NEW MEXICO

October 27, 1960

498

El Paso Natural Gas Company

7 P. O. Box 1492

El Paso, Texas

Attention: Mr. Sam Smith

Re: 1960 Supplemental Plan of

Development San Juan 32-9

Unit San Juan County,

New Mexico

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1960 Supplemental Plan of Development for the San Juan 32-9 Unit San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr. Secretary Director

ALP/JEK/ig

cc: US Geological Survey - Roswell, New Mexico Commissioner of Public Lands - Santa Fe, New Mexico October 19, 1960

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

> Re: Pertaining to 1960 Drilling Program San Juan 32-9 Unit San Juan County, New Mexico

Attention: Mr. Sam Smith

Gentlemen:

in a market

We received your letter dated September 30, 1960 requesting the deletion of three (3) wells from the 1960 Drilling Program for the San Juan 32-9 Unit.

Your stated reason for the determination not to drill these three wells in 1960 being that it would be uneconomical at the present time.

The Commissioner of Public Lands approves the deletion of these three wells and encloses two approved copies of this supplement to the 1960 Drilling Program for the San Juan 32-9 Unit. This approval being subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

> Very truly yours, MURRAY E. MORGAN Commissioner of Public Lands

BY Ted Bilberry, Supervisor Oil and Gas Division

MBM/wat/s

ce:

OCC- Santa Fe

El Paso Natural Gas Company
El Paso, Texas

September 30, 1960

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico

SUPPLEMENTAL 1960 DRILLING PROGRAM

#### Gentlemen:

By letter dated January 18, 1960, El Paso Natural Gas Company, as Unit Operator, submitted a drilling program for the calendar year 1960 for the captioned unit providing for the drilling of eight (8) Mesaverde wells. Included in the plan of development are the following described wells:

Drilling Block	Formation	
W/2 Sec. 20, T-32-N, R-9-W	Mesaverde	
E/2 Sec. 29, T-32-N, R-9-W	Mesaverde	
E/2 Sec. 19, T-32-N, R-9-W	Mesaverde	

El Paso Natural Gas Company re-evaluated the data for this area and has determined that it would be uneconomical to drill the above mentioned wells at the present time, and, in view of this situation, El Paso desires to delete the above listed three (3) wells from the 1960 Drilling Program of the San Juan 32-9 Unit.

If this Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Supplemental Drilling Program are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Sam Smith, Manager Land Department

SS:GA:js

cc: Attached sheet

APPROVED:		DATE
	Supervisor, United States Geological Survey Subject to like approval by the appropriate State officials.	
APPROVED:	Commissioner of Public Lands Subject to like approval by the United States	DATE
	Geological Survey and the Oil Conservation Commission.	
APPROVED:	Oil Conservation Commission	DATE 10-27-60
	Subject to like approval by the United States Geological Survey and the Commissioner of	

The foregoing approvals are for the Supplemental 1960 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico

Public Lands.

San Juan 32-9 Unit Working Interest Owners

Mr. R. L. Caldwell Delhi-Taylor Oil Corporation Fidelity Union Tower 1507 Pacific Avenue Dallas 1, Texas

Mr. W. J. Stewart
The Atlantic Refining Company
P. O. Box 2819
Dallas 21, Texas

Mr. H. W. Mathews Standard Oil Company of Texas P. O. Box 1249 Houston 1, Texas

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Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Petro-Atlas, Inc. 2000 National Bank of Tulsa Building Tulsa, Oklahoma San Juan 32-9 Working Interest Owners Page 2

Estate of Roy E. Bard, Deceased Northern Trust Company 5th South La Salle Street Chicago 90, Illinois, Atten: James A. Shute

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

Cortlandt T. Hill P. O. Box 1588 Monterey, California

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Suzette M. Zurcher 110 North Wakcer Drive Chicago 6, Illinois

Josephine C. Jacobson
Republic National Bank
Atten: DeWitt Ray
Sr. Vice President
P. O. Box 5961
Dallas 22, Texas

Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Mr. Ralph A. Bard 208 South La Salle Street Room 504 Chicago 4, Illinois

W. Watson LaForce, Jr. P. O. Box 353 Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Louis W. Hill, Jr. W. 1453 First National Bank Bldg. St. Paul 1, Minnesota

City National Bank & Trust Company Trustee of Trust No. 23949 208 South La Salle Street Chicago 4, Illinois

Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Henry P. Isham, Jr. 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Albert H. Hopkins, Jr. 12 Robinson Street Cambridge 38, Massachusetts

William Simpson 30 West Monroe Street Chicago 3, Illinois

Nancy H. Haskins One North La Salle Street Room 3300 Chicago 2, Illinois

James Simpson, Jr. 30 West Monroe Street Chicago 3, Illinois

### El Paso Watural Gas Company

El Paso, Texas

September 22, 1960

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELLS AND THIRTY-SECOND EXPANDED
PARTICIPATING AREA
Mesaverde Formation
Effective August 1, 1960

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the test dates set out below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit, and these wells are as follows:

The San Juan 32-9 Unit #70-X Well, located 1563' from the North line and 890' from the East line of Section 21, Township 32 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on July 19, 1959, and completed on September 22, 1959, at a total depth of 8596', and a plug-back total depth of 8285'. The Mesaverde Formation between 5876' - 5886', 5984' - 5990', 6088' - 6098', 6108' - 6128', 6132' - 6156', 6164' - 6172', 6182' - 6191', 6196' - 6198', 6207' - 6210', 6220' - 6224', 6227' - 6229', 6234' - 6236', 6256' - 6258', 6268' - 6271', 6311' - 6315', 6339' - 6342', 6359' - 6362' was treated with a sand-water fracturing process. After being shut-in for gauge for twenty-two (22) days, the well was tested on October 14, 1959, and following a three (3) hour blow-down period gauged 3543 MCFGPD through a 3/4" choke and 3748 MCFGPD by the calculated absolute open-flow

method with an SIPC of 1076# and an SIPT of 1076#. The committed drilling block upon which this well is located is described as the E/2 of Section 21, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres.

The San Juan 32-9 Unit #75 Well is located 1610' from the South line and 890' from the West line of Section 18, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on June 7, 1960, and completed on June 21, 1960, at a total depth of 6120' and a clean out depth of 6069'. The Mesaverde Formation between 5816' - 5822', 5852' -5858', 5932' - 5940', 5954' - 5962', 5976' - 5986', 5992' -6002', 6032' - 6040' was treated with a sand-water fracturing process.on June 18, 1960. After being shut-in for gauge for fourteen (14) days, the well was tested on July 5, 1960, and following a three (3) hour blow-down period gauged 2559 MCFGPD through a 3/4" choke, and 3368 MCFGPD by the calculated absolute open-flow method with an SIPC of 1021# and an SIPT of 1021#. The committed drilling block upon which this well is located is described as Lots 1,2,3,4, E/2 W/2 (W/2) of Section 18, Township 32 North, Range 9 West, N.M.P.M., and consists of 207.92 acres.

The San Juan 32-9 Unit #76 Well is located 890' from the North line and 990° from the East line of Section 13, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on May 14, 1960, and completed on June 5, 1960, at a total depth of 6265 and a clean out depth of 6104'. The Mesaverde Formation at 6065' was treated with a sand-water fracturing process on June 2, 1960, after the casing was cut with a Baash Ross notching tool. After being shut-in for gauge for thirty (30) days, the well was tested on July 5, 1960, and following a three (3) hour blow-down period gauged 2226 MCFGPD through a 3/4" choke, and 2611 MCFGPD by the calculated absolute open-flow method with an SIPC of 1055# and an SIPT of 1055#. The committed drilling block upon which this well is located is described as the E/2 of Section 13, Township 32 North, Range 10 West, N.M.P.M., and consists of 320 acres.

The San Juan 32-9 Unit #77 Well, located 1227' from the North line and 1090' from the East line of Section 18, Township 32 North, Range 9 West, San Juan County, New Mexico, was spudded on June 23, 1960, and completed on July 7, 1960 in the Mesaverde Formation at a total depth of 6120' and a clean out depth of 6098'. The Mesaverde Formation between 5884' - 5895', 5900' - 5910', 5938' - 5944', 5966' - 5974', 5984' - 5996', 6001' - 6008' was treated with a sand-water fracturing process on July 5, 1960. After being shut-in for gauge for fourteen (14) days, the well was tested on July 20, 1960, and following a three (3) hour blow-down period the Mesaverde Formation gauged 3498 MCFGPD through a 3/4" choke, and 5350 MCFGPD by the calculated absolute open-flow

method, with an SIPC of 1059# and an SIPT of 1060#. The committed drilling block upon which this well is located is described as the E/2 of Section 18, Township 32 North, Range 9 West, N.M.P.M., containing 320.00 acres.

The drilling block for the San Juan 32-9 Unit #70-X Well was included in the Twenty-Sixth Expanded Participating Area, effective June 1, 1958 as an intervening drilling block, and the drilling block for the San Juan 32-9 Unit #76 Well was included in the Thirty-First Expanded Participating Area of the Mesaverde Formation for the San Juan 32-9 Unit, effective June 1, 1959, as an intervening drilling block. The drilling blocks for the San Juan 32-9 Unit #75 and #77 Wells are included in this the Thirty-Second Expanded Participating Area of the Mesaverde Formation for the San Juan 32-9 Unit, effective August 1, 1960, and no intervening drilling blocks have been created by the drilling of the above mentioned wells.

Attached is Schedule XXXIII showing the Thirty-Second Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Thirty-Second Expanded Participating Area will become effective as of August 1, 1960.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T. W. Bittick

Assistant Manager Land Department

TWB:GA:js

Attachment

cc: Attached List

method with an SIPC of 1076# and an SIPT of 1076#. The committed drilling block upon which this well is located is described as the E/2 of Section 21, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres.

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The San Juan 32-9 Unit #76 Well is located 890' from the North line and 990' from the East line of Section 13, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on May 14, 1960, and completed on June 5, 1960, at a total depth of 6265 and a clean out depth of 6104'. The Mesaverde Formation at 6065' was treated with a sand-water fracturing process on June 2, 1960, after the casing was cut with a Baash Ross notching tool. After being shut-in for gauge for thirty (30) days, the well was tested on July 5, 1960, and following a three (3) hour blow-down period gauged 2226 MCFGPD through a 3/4" choke, and 2611 MCFGPD by the calculated absolute open-flow method with an SIPC of 1055# and an SIPT of 1055#. The committed drilling block upon which this well is located is described as the E/2 of Section 13, Township 32 North, Range 10 West, N.M.P.M., and consists of 320 acres.

The San Juan 32-9 Unit #77 Well, located 1227' from the North line and 1090' from the East line of Section 18, Township 32 North, Range 9 West, San Juan County, New Mexico, was spudded on June 23, 1960, and completed on July 7, 1960 in the Mesaverde Formation at a total depth of 6120' and a clean out depth of 6098'. The Mesaverde Formation between 5884' - 5895', 5900' - 5910', 5938' - 5944', 5966' - 5974', 5984' - 5996', 6001' - 6008' was treated with a sand-water fracturing process on July 5, 1960. After being shut-in for gauge for fourteen (14) days, the well was tested on July 20, 1960, and following a three (3) hour blow-down period the Mesaverde Formation gauged 3498 MCFGPD through a 3/4" choke, and 5350 MCFGPD by the calculated absolute open-flow

#### C \_ CONSERVATION COMMISSIO .

P. O. BOX 871

#### SANTA FE. NEW MEXICO

#### August 15, 1960

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas

ATTENTION: Mr. Sam Smith

RE: 1960 Plan of Development

San Juan 32-9 Unit San Juan

County, New Mexico.

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1960 Plan of Development for the San Juan 32-9 Unit San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

ALP/JEK/iq

cc: US Geological Survey - Reswell

Commissioner of Public Lands - Santa Fe



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

#### P. O. Box 6721 Roswell, New Mexico

August 5, 1960

El Paso Natural Gas Company

P. O. Box 1492

El Pase, Toxas

.. 2

Attention: Mr. Sam Smith

#### Gentlemen:

Your plan of development for 1960, deted January 18, 1960, for the San Juan 32-9 unit area, San Juan County, New Maxico, which proposes the drilling of eight Mesaverde formation wells, has been approved on this date subject to like approval by the appropriate state efficials.

Ten approved copies of the plan are enclosed.

Very truly yours,

EDWIN M. THOMASSON Acting Oil and Gas Supervisor

Copy to: Washington (w/copy of plan)

Farmington (w/copy of plan)
NMOCC, Santa Fe (letter only)

Com of Pub. Lands, Santa Fe (letter only)

February 19, 1960

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas

ATTENTION: Mr. Sam Smith

Re: San Juan 32-9 Unit

San Juan County

Plan of Development for

Calendar Year 1960

#### Gentlemen:

We are enclosing two copies of the 1960 Plan of Development for the San Juan 32-9 Unit, which was approved by the Commissioner of Public Lands February 19, 1960.

Please furnish us another copy of this document when it is fully executed.

Very truly yours, MURRAY E. MORGAN Commissioner of Public Lands

BY:

Ted Bilberry, Supervisor Oil and Gas Division

MEM/MMR/m

cc:

OCC-Santa Fe USGS-Roswell

## El Paso Natural Gas Company

El Paso, Texas

January 18, 1960

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1960 DRILLING PROGRAM

#### Gentlemen:

By letter dated January 2, 1959, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1959. Said Program provided for the drilling of five (5) Mesaverde Wells. All five (5) wells have been completed upon lands committed to the unit and have been admitted or are in the process of being admitted to the Participating Area. One of the five wells completed in 1959, the San Juan 32-9 Unit #70-X, was drilled through the Dakota Formation to a total depth of 8596'; but after finding the Dakota Formation dry, the well was plugged back to 6400' and completed in the Mesaverde Formation from 5876' - 6362'.

As of this date, the total number of wells in the San Juan 32-9 Unit on acreage committed or partially committed to the Unit is as follows:

Mesaverde (Commercial)	67
Mesaverde (Non-Commercial)	4
Dakota (P&A)	1

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is herewith submitting this Drilling Program providing for the drilling of the following described wells during the period from January 1, 1960 to December 31, 1960:

	DRILLING BLOCK	FORMATION
E/2 Sec.	17, T-32-N, R-9-W	Mesaverde
W/2 Sec.	17, T-32-N, R-9-W	Mesaverde

DRILLING BLOCK		FORMATION			
E/2	Sec,	18,	T-32-N,	R-9-W	Mesaverde
W/2	Sec.	18,	T-32-N,	R-9-W	Mesaverde
W/2	Sec.	20,	T-32-N,	R-9-W	Mesaverde
E/2	Sec.	29,	T-32-N,	R-9-₩	Mesaverde
E/2	Sec.	19,	T-32-N,	R-9-W	Mesaverde
*E/2	Sec.	13.	T-32-N.	R-10-W	Mesaverde

<sup>\*</sup>Intervening drilling block necessary to be drilled in 1960.

In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, also plans to drill any offset wells required to prevent drainage of unitized substances, and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde wells to the base of the Mesaverde Formation using rotary tools. Surface casing of 10 3/4" will be set to approximately 150' below the surface and an intermediate string of 7 5/8" will be set through the Pictured Cliffs Formation to a depth of approximately 3200', A 5 1/2" production string will be set through the Mesaverde Formation, and the casing of the Mesaverde Formation will then be selectively perforated and the Mesaverde will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

All of the Working Interest Owners have been notified and this Drilling Program reflects, insofar as possible, their requests for additional drilling.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet, and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Land Department

APPROVED		DATE:
	Supervisor, United States Geological Survey Subject to like approval by the appropriate State officials	
/ PPROVED		DATE:
	Commissioner of Public Lands	And the same of th
	Subject to like approval by the United States	
	Geological Survey and the Oil Conservation Commission,	
APPROVED	a. L. Potes I	DATE: 8/16/60
	Oil Conservation Commission/2	
	Subject to like approval by the United States	
	Geological Survey and the Commissioner of	
	Public Lands.	

The foregoing approvals are for the 1960 Drilling Program for the San Juan 32-9 Unit San Juan County, New Mexico

### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Mr. R. N. Richey (2) Mr. M. J. Jordan (1) El Paso Natural Gas Company Northwest Division Post Office Box 1526 Salt Lake City 10, Utah

Texaco, Inc. Box 3109 Midland, Texas

Mr. R. L. Caldwell Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. W. J. Stewart The Atlantic Refining Company Post Office Box 2819 Dallas 21, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston 1, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

American Petrofina Company of Texas Post Office Box 2159 Dallas 21, Texas

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Rock Island Oil & Refining Company 321 West Douglas Wichita, Kansas

Mr. Ralph Austin Bard, Jr. 208 South La Salle Street Room 504 Chicago 4, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Petro-Atlas, Inc. 2000 National Bank of Tulsa Building Tulsa, Oklahoma Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation P.O. Box 1419 Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 314 Milam Building San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. Sterling Morton 110 North Wacker Drive Chicago 5, Illinois

Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS PAGE 3

Mr. Roy E. Bard 208 South La Salle Street Po. 510 Chicago 4, Illinois

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

Jay C. Halls 1 North La Salle Street Chicago 2, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

William P. Sutter
1 North La Salle Street
Chicago 2, Illinois

Trust I for Benefit of John I. Shaw John I. Shaw and Rodger D. Shaw 135 South La Salle Street Room 3710 Chic go 3, Illinois

Claude R. Lambe 621 Union National Bank Building Wichita, Kansas

J. Robert Jones 730 Petroleum Life Building Midland, Texas Mr. Ralph A. Bard 208 South La Salle Street Room 504 Chicago 4, Illinois

Margaret S. MacDonald c/o Trust Department Trust #23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

Catharine H. Ruml 38 South Dearborn Street Chicago 2, Illinois

Eleanor Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Suzanne LaForce Baber 217 South Lassen Street Willows, California

F. F. Webster 30 West Monroe Street Chicago 3, Illinois

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

### El Paso Natural Gas Company

El Paso, Texas

August 25, 1959

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit,
#14-08-001-569
San Juan County, New Mexico
NOTICE OF COMPLETION OF
ADDITIONAL WELL

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesawerde Formation has been completed on acreage committed to this unit:

The San Juan 32-9 Unit #71 Well, located 950' from the North line and 890' from the East line of Section 33, Township 32 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on May 30, 1959, and completed on June 15, 1959, at a total depth of 6000'. The Mesaverde Formation between 5432' - 5434'; 5440' - 5446'; 5478' - 5484'; 5496' - 5504'; 5508' - 5522'; 5533' - 5538'; 5544' - 5546'; 5652' - 5658'; 5705' - 5710'; 5790' - 5802'; 5810' - 5834'; 5838' - 5856'; 5865' - 5876'; 5887' - 5890'; 5899' - 5902'; 5913' - 5919'; 5935' - 5942'; 5946' - 5948'; 5961' - 5963'; 5980' - 5982'; 5987' - 5989'; 5992' - 5994' was treated with a sand-water fracturing process. After being shut-in for gauge for fourteen (14) days, the well was tested on July 1, 1959, and following a three hour blow-down period gauged 3451 MCFGPD

through a 3/4" choke and 3656 MCFGPD by the calculated absolute open-flow method with an SIPC of 1089# and an SIPT of 1089#. The committed drilling block upon which this well is located is described as the E/2 of Section 33, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres.

The drilling block was included in the San Juan 32-9 Twenty-Sixth Expanded Participating Area, effective June 1, 1959, as an intervening drilling block. Therefore, the Participating Area is not enlarged, and the percentages allocated to the tracts shown on Schedule XXVII for the Twenty-Sixth Expanded Participating Area remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Βv

Area Landman Land Department

HG:GA:ic Attachment

#### SAN JUAN 32-9 UNIT Working Interest Owners

Mr. R. N. Richey (2)
Mr. M. J. Jordan (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City 10, Utah

Mr. R. L. Caldwell Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. W. J. Stewart The Atlantic Refining Company Post Office Box 2819 Dallas 21. Texas

Mr. H. L. Smider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston 1: Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

American Petrofina Company of Texas Post Office Box 2159 Dallas 21, Texas

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Whood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElwain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1. Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. Ralph Austin Bard, Jr. 208 South La Salle Street Room 504 Chicago 4, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Sterling Morton 110 North Wacker Drive Chicago 6, Illinois

SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Mr. Roy E. Bard 208 South La Salle Street Room 510 Chicago 4, Illinois

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

Cortlandt T. Hill Post Office Box 1588 Monterey, California

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1, Minnesota

Donald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Robert T. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Ruth N. Halls 460 El Cielito Road Santa Barbara, California

Suzette M. Zurcher 110 North Wacker Drive Chicago 6, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Mr. Ralph A. Bard 208 South La Salle Street Room 504 Chicago 4, Illinois

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Louis W. Hill, Jr. W. 1453 First National Bank Building St. Paul 1, Minnesota

City National Bank & Trust Company Trustee of Trust No. 23949 208 South La Salle Street Chicago 4, Illinois

Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Henry P. Isham, Jr. 38 South La Salle Street Room 1007 Chicago 3, Illinois

Albert H. Hopkins, Jr. 12 Robinson Street Cambridge 38, Massachusetts

William Simpson 30 West Monroe Street Chicago 3, Illinois

Nancy H. Haskins One N. La Salle Street Room 3300 Chicago 2, Illinois

James Simpson, Jr. 30 West Monroe Street Chicago 3, Illinois

### El Paso Natural Gas Company

El Paso, Texas

July 20, 1959

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELL AND THIRTY-FIRST EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective June 1, 1959

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Tas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesawerde Formation has been completed upon acreage committed to this unit, and this well is as follows:

The San Juan 32-9 Unit #67 Well is located 1090° from the North line and 1630° from the East line of Section 24, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on April 3, 1959, and completed on May 19, 1959, at a total depth of 6172° and a plugged back depth of 5998°. The Mesaverde Formation between 5804° - 5814°; 5878° - 5892°; 5928° -5940°; 5956° - 5966°; 5982° - 5992°; 6002° - 6016°; and 6038° - 6044°; was treated with a sand-water fracturing process on May 12, 1959. On May 15, 1959, the well was plugged back to a total depth of 5998° and the Mesaverde Formation between 5804° - 5814°; 5878° - 5892°; 5928° - 5940°; 5956° - 5966°; and 5982° - 5992° was treated with a sand-water fracturing process. After being shut-in for gauge for nine (9) days, the well was tested on May 28, 1959, and following a three (3) hour blow-down period gauged 1976 MCFGPD through a 3/4° choke,

### El Paso Natural Gas Company

El Paso, Texas

July 20, 1959

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed on acreage committed to this unit:

The San Juan 32-9 Unit #69 Well, located 990' from the South line and 1030' from the West line of Section 13, Township 32 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, was spudded on April 10, 1959, and completed on June 18, 1959, at a total depth of 6151'. The Mesaverde Formation between 5812' - 5822'; 5830' - 5840'; 5908' - 5914'; 5932' - 5942'; 5958' - 5964'; 5972' - 5978'; and 6030' - 6038' was treated with a sand-water fracturing process. After being shut-in for gauge for seven (7) days, the well was tested on June 25, 1959, and following a three hour blow-down period gauged 2308 MCFGPD through a 3/4" choke and 2927 MCFGPD by the calculated absolute open-flow method with an SIPC of 964# and an SIPT of 963#. The committed drilling block upon which this well is located is described as the W/2 of Section 13, Township 32 North, Range 10 West, N.M.P.M., and consists of 320.00 acres.

The drilling block was included in the San Juan 32-9 Thirtieth Expanded Participating Area, effective May 1, 1959, as an intervening drilling block. Therefore, the Participating Area is not enlarged, and the percentages allocated to the tracts shown on Schedule XXXI for the Thirtieth Expanded Participating Area remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Ву

Area Landman

Land Department

HG:GA:ic
Attachment

#### SAN JUAN 32-9 UNIT Working Interest Owners

Mr. R. N. Richey (2)
Mr. M. J. Jordan (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City 10, Utah

Mr. R. L. Caldwell Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. W. J. Stewart The Atlantic Refining Company Post Office Box 2819 Dallas 21, Texas

Mr. H. L. Snider, Jr.
Aztec Oil & Gas Company
920 Mercantile Securities Building
Dallas 1. Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston 1, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

American Petrofina Company of Texas Post Office Box 2159 Dallas 21, Texas

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. Ralph Austin Bard, Jr. 208 South La Salle Street Room 504 Chicago 4, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Sterling Morton 110 North Wacker Drive Chicago 6, Illinois

SAN JUAN 32-9 UNIT Working Interest Owners Page 2

Mr. Roy E. Bard 208 South La Salle Street Room 510 Chicago 4, Illinois

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

Cortlandt T. Hill Post Office Box 1588 Monterey, California

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1, Minnesota

Denald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Robert T. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Ruth N. Halls 460 El Cielito Road Santa Barbara, California

Suzette M. Zurcher 110 North Wacker Drive Chicago 6, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Mr. Ralph A. Bard 208 South La Salle Street Room 504 Chicago 4, Illinois

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Louis W. Hill, Jr. W. 1453 First National Bank Building St. Paul 1, Minnesota

City National Bank & Trust Company Trustee of Trust No. 23949 208 South La Salle Street Chicago 4, Illinois

Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Henry P. Isham, Jr. 38 South La Salle Street Room 1007 Chicago 3, Illinois

Albert H. Hopkins, Jr. 12 Robinson Street Cambridge 38, Massachusetts

William Simpson 30 West Monroe Street Chicago 3, Illinois

Nancy H. Haskins One N. La Salle Street Room 3300 Chicago 2, Illinoia

James Simpson, Jr. 30 West Monroe Street Chicago 3, Illinois John M. Simpson 30 West Monroe Street Chicago 3, Illinois

Margaret S. MacDonald c/o Trust Department Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

Frederick F. Webster 30 West Monroe Chicago 3, Illinois

John Stuart 345 Merchandise Mart Chicago 54, Illinois

Jay C. Halls 1 North La Salle Street Chicago 2, Illinois

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

William P. Sutter 1 North La Salle Street Chicago 2, Illinois

Trust No. 1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle Street Room 3710 Chicago 3, Illinois

Claude R. Lambe 621 Union National Bank Building Wichita, Kansas SAN JUAN 32-9 UNIT Working Interest Owners Page 3

C. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas

City National Bank & Trust Company Trustee fo Trust No. 23935 208 South La Salle Street Chicago 4, Illinois

R. Nelson Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Nora R. Ranney RFD Casey Road Libertyville, Illinois

Eleanor Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Catharine H. Ruml 1 North La Salle Street Chicago 2, Illinois

Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones Post Office Box 1637 Midland, Texas

Suzanne LaForce Baber 217 South Lassen Street Willows, California

Petro-Atlas Corporation Post Office Box 517 Albuquerque, New Mexico

F. F. Webster30 West MonroeChicago 3, Illinois

### El Paso Natural Gas Company

El Paso, Texas

July 20, 1959

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe. New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569

San Juan County, New Mexico

Thirtieth Expanded Participating Area

Mesaverde Formation Effective May 1, 1959

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 32-9 Unit #68 Well is located 990' from the South line and 990' from the West line of Section 24, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on March 23, 1959, and completed on April 21, 1959, at a total depth of 6154°. The Mesaverde Formation between 5558' - 5566'; 5570' - 5576'; 5714' - 5728'; 5774' - 5788'; 5814' - 5824'; 5906' - 5916'; 5928' - 5938'; 5950' - 5962'; 5966' - 5972'; 5978' - 5992'; 6012' - 6018'; 6028' - 6040' was treated with a sand-water fracturing process. After being shut-in for gauge for seven (7) days, the well was tested on April 28, 1959, and following a three (3) hour blow-down period gauged 3756 MCFGPD through a 3/4" choke, and 6919 MCFGPD by the calculated absolute open-flow method with an SIPC of 1022# and an SIPT of 1020#. The committed drilling block upon which this well is located is described as the W/2 of Section 24, Township 32 North, Range 10 West, N.M.P.M., and consists of 320.00 acres.

The determination that this well is capable of producing unitized substances in paying quantities was made on April 28, 1959.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates two intervening drilling blocks described as the E/2 of Section 24, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres, and the W/2 of Section 13, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. The above described well and drilling blocks are admitted to the Mesaverde Participating Area, effective May 1, 1959, and a well must be commenced on each of the intervening drilling blocks by May 1, 1960.

Attached is Schedule XXXI showing the Thirtieth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Thirtieth Expanded Participating Area will become effective as of May 1, 1959.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

y\_\_\_\_\_

T. W. Bittick Assistant Manager Land Department

TWB:GA:ic Attachment

# Boswell, New Mexico

February 3, 1959

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

Attention: Mr. Sam Smith

### Gentlemen:

Your 1959 Plan of Development dated January 2, 1959 for the San Juan 32-9 unit area, No. 14-08-001-569 San Juan County, New Mexico, proposing the drilling of five Mesaverde formation wells has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

EDWIN M. THOMASSON Acting Oil and Gas Supervisor

Enclosure 2

Copy to: Washington (w/copy of plan)

Farmington (w/copy of plan)

--- NMOCC, Santa Fe (letter only)

Cosm. Pub. Lands, Santa Fe (letter only)

# OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

January 29, 1959

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas

ATTENTION: Mr. Sam Smith

RE: 1959 Drilling Program San Juan 32-9 Unit San Juan County, New Mexico.

### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1959 Drilling Program for the San Juan 32-9 Unit San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the application is returned herewith.

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

ALP/RLS/19

CC: State Land Office - Santa Fe US Geological Survey - Roswell

# El Paso Natural Gas Company

El Paso, Texas

January 2, 1959

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico

> > 1959 DRILLING PROGRAM

### Gentlemen:

By letter dated January 20, 1958, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1958. Said Program provided for the drilling of nine (9) Mesaverde Wells. All nine (9) wells have been completed upon lands committed to the unit and have been admitted or are in the process of being admitted to the Participating Area.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Mesaverde (Commercial) 60 Mesaverde (Non-Commercial) 4

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is herewith submitting this Drilling Program providing for the drilling of the following described wells during the period from January 1, 1959 to December 31, 1959:

	DRII	FORMATION			
*E/2	Section	21,	T-32-N,	R-9-W	Mesaverde
*E/2	Section	33,	T-32-N,	R-9-W	Mesaverde
W/2	Section	13,	T-32-N,	R-10-W	Mesaverde
E/2	Section	24,	T-32-N,	R-10-W	Mesaverde
W/2	Section	24,	T-32-N,	R-10-W	Mesaverde

<sup>\*</sup>Intervening drilling block necessary to be drilled in 1959.

In addition to the above wells, El Fasc Natural Gas Company, as Unit Operator, also plans to drill any offset wells required to prevent drainage of unitized substances, and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde wells to the base of the Mesaverde Formation using rotary tools. Surface casing of 10 3/4" will be set to approximately 150° below the surface and an intermediate string of 7 5/8" will be set through the Pictured Cliffs Formation to a depth of approximately 3200'. A 5 1/2" production string will be set through the Mesaverde Formation, and the casing of the Mesaverde Formation will then be selectively perforated and the Mesaverde will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

All of the Working Interest Owners have been notified and this Drilling Program reflects, insofar as possible, their requests for additional drilling.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet, and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Sam Smith

Manager

Land Department

SS:DN:jb

cc: Attached sheet

APPROVED:	DATE:						
	Supervisor, United States Geological Survey Subject to like approval by the appropriate State officials.			go <del>ganican</del> (Prin. Judio)			
APPROVED:	Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission.	DATE :					
APPROVED:	Oil Conservation Commission Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.	DATE:	<u> </u>				

The foregoing approvals are for the 1959 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico.

### San Juan 32-9 Unit Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. W. J. Stewart The Atlantic Refining Company F. O. Box 2819 Dallas 21, Texas

Mr. H. L. Snider, Jr. Aztec 011 & Gas Company 920 Mercantile Securities Bldg. Dallas 1, Texas

Mr. H. W. Mathews
Standard Oil Company of Texas
F. O. Box 1249
Houston 1, Texas

※ R. A. Brown※ Phillips Petroleum Company508 Bank BuildingBartlesville, Oklahoma

American Petrofina Company of Texas F. O. Box 2159
Dallas 21, Texas

Fhillips Petroleum Company 1211 Main Avenue Durango, Colorado

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. I. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Faso. Texas Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1, Texas

Mr. J. K. Letts
The Atlantic Refining Company
P. O. Box 1198
Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5. Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven 011 Company P. O. Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting, Jr. P. O. Box 1637 Midland, Texas

Mr. Ralph Austin Bard, Jr. 208 South La Salle Street Room 504 Chicago 4, Illinois

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Sterling Morton 110 North Wacker Drive Chicago 6. Illinois

San Juan 32-9 Unit Working Interest Owners Page 2

Mr. Roy E. Bard 208 South La Salle Street Room 510 Chicago 4, Illinois

Josephine C. Jacobson 4430 Beclaire Dallas 5 Texas

Mr. Cortland T. Hill 606 South Hills Street Los Angeles, California

Eisie F. Hill W 1453 First National Bank Building St. Faul 1. Minnesota

Mr. Donald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

Mr. Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Mr. Robert T. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Mr. Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

Mr. R. Douglas Stuart 345 Merchandise Mart Chicago 54: Illinois

Rith N. Halls 460 El Cielito Road Santa Barbara, California

Sazette M. Zurcher 110 North Wacker Drive Chicago 6. Illinois

Snaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois Mr. Edward L. Ryerson, Jr. 17 Highland Street Cambridge: Massachusetts

Mr. Ralph A. Bard 208 South La Salle Street Room 504 Chicage 4, Illinois

Mr. W. Watson LaForce, Jr. P. O. Box 353 Midland. Texas

Nancy LaForce Keys Route 2: North Madison Street Hinsdale, Illinois

Mr. Lewis W. Hill, Jr. W. 1453 First National Bank Building St. Paul 1, Minnesota

City National Bank & Trust Company Trustee of Trust No. 23949 208 South La Salle Street Chicago 4, Illinois

Mr. Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Mr. Henry F. Isham, Jr. 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Mr. Albert H. Hopkins, Jr. 12 Robinson Street Cambridge 38, Massachusetts

Mr. William Simpson 30 West Monros Street Chicago 3, Illinois

Nancy H. Haskins 1318 Judson Avenue Evanston, Illinois

Mr. James Simpson, Jr. 30 West Monroe Street Chicago 3, Illinois

San Juan 32-9 Unit Working Interest Owners Page 3

Mr. John M. Simpson 30 West Monroe Street Chicago 3: Illinois

Margaret S. MacDonald c/o Trust Department Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

Mr. Frederic F. Webster 30 West Monroe Chicago 3, Illinois

Mr. John Stuart 345 Merchandise Mart Chicago 54, Illinois

Mr. Jay C. Halls
1 North La Salle Street
Calcago 2, Illinois

Wr. George S. Isham 18 South Dearborn Street Room 1007 Chicage 3, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

Mr. William P. Sutter 1 North La Salle Street Chicago 2, Illinois

Trust No. 1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle Street Room 3710 Chicago 3, Illinois

Petro-Atlas Corporation F. O. Box 517 Albaquerque, New Mexico

Mr. G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas

City National Bank & Trust Company Trustee of Trust No. 23935 208 South La Salle Street Chicago 4, Illinois

Mr. R. Neson Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Nora R. Ranney RFD Casey Road Libertyville, Illinois

Eleanor Isham 38 South Dearborn Street Room 1007 Chicage 3, Illinois

Catherine M. Rum1 1 North La Salle Street Chicago 2, Illinois

Mr. Robert D. Fitting 201 West Building Midland, Texas

Mr. J. Robert Jones P. O. Box 1637 Midland, Texas

Suzanne LaForce Baber 217 South Lassen Street Willows, California

Mr. Claude R. Lambe 621 Union National Bank Building Wichita, Kansas El Paso Natural Gas Company
El Paso, Texas
October 21, 1958

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico F1/2

Re: San Juan 32-9 Unit, #14-08-001-569
San Juan County, New Mexico
TWENTY-NINTH EXPANDED PARTICIPATING AREA
Mesaverde Formation

Effective September 1, 1958

### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesawerde Formation has been completed upon acreage committed to this unit. The Participating Area for the Mesawerde Formation is expanded accordingly to include this well as follows:

The San Juan 32-9 Unit #61 Well is located 990' from the South line and 990' from the West line of Section 36, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on June 17, 1958 and completed on July 18, 1958 at a total depth of 6016'. The Mesaverde Formation between 5754'-**5768', 5780' - 5796', 5814' - 5830', 5840' - 5852', 5874' -**5892', 5904' - 5924' was treated with a sand-water fracturing process. After being shut-in for gauge for fourteen (14) days, the well was tested on August 1, 1958, and following a three (3) hour blow-down period gauged 3260 MCFGPD through a 3/4" choke, and 4269 MCFGPD by the calculated absolute open-flow method with an SIPC of 1147# and an SIPT of 1139#. The committed drilling block upon which this well is located is described as the W/2 of Section 36, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on August 1, 1958.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XXX showing the Twenty-Ninth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Ninth Expanded Participating Area will become effective as of September 1, 1958.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T. W. Bittick

Assistant Manager Land Department

TWB:SHM:ch Attachment El Paso Natural Gas Company

El Paso, Texas

September 30, 1958

498

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico HAIN OFFICE OCC

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
TWENTY-EIGHTH EXPANDED PARTICIPATING AREA
Mesaverde Formation

Effective August 1, 1958

### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 32-9 Unit #66 Well is located 1142' from the South line and 870' from the West line of Section 10, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on May 27, 1958 and completed on June 23, 1958 at a total depth of / 6485'. The Mesaverde Formation was treated with a sand-water fracturing process between 5930' - 5946', 5954' - 5966', 6268' - 6292', 6304' - 6322', 6330' - 6360', 6374' - 6398'. After being shut-in for gauge for seventeen (17) days, the well was tested on July 10. 1958, and following a three (3) hour blow-down period gauged 1603 MCFGPD through a 3/4" choke, and 1811 MCFGPD by the calculated absolute open-flow method with an SIPC of 984# and an SIPT of 985#. The committed drilling block upon which this well is located is described as Lots 1,2,3,4, S/2 or All of Section 10, Township 32 North, Range 9 West, N.M.P.M., and consists of 371.20 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on July 10, 1958.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XXIX showing the Twenty-Eighth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Eighth Expanded Participating Area will become effective as of August 1, 1958.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T W Dittiol

Assistant Manager Land Department

TWB:SHM:ch Attachment

# El Paso Matural Gas Company File El Paso, Texas August 19, 1958 495

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe. New Mexico

> Re: San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico TWENTY-SEVENTH EXPANDED PARTICIPATING AREA

Mesaverde Formation Effective July 1, 1958

### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells as follows:

The San Juan 32-9 Unit #57 Well is located 2070' from the North line and 800' from the East line of Section 2, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on April 25, 1958, and completed on May 25, 1958, at a total depth of 5934'. The Cliff House and the Menefee Sections of the Mesaverde Formation were treated with a sand-water fracturing process between 5310' - 5328', 5486' - 5504' and the Point Lookout Secion of the Mesaverde Formation was treated with a sand-water fracturing process between 5678' - 5694', 5702' - 5712', 5722' - 5736', 5744' - 5756', 5770' - 5782', 5796' - 5806'. After being shut-in for gauge for nineteen (19) days, the well was tested on June 13, 1958, and following a three (3) hour blow-down period gauged 3509 MCFGPD through a 3/4" choke; and 6250 MCFGPD by the calculated absolute open-flow method with an SIPC of 1039# and an SIPT of 960#. The committed drilling block upon which this well is located is described as the E/2 of Section 2, Township 31 North, Range 9 West, N.M.P.M., and consists of 320.98 acres. The determination that

this well is capable of producing unitized substances in paying quantities was made on June 13, 1958.

- The San Juan 32-9 Unit #63 Well is located 1756' from the North line and 1645' from the East line of Section 36, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on April 26, 1958 and completed on May 19, 1958, at a total depth of 6034'. The Mesaverde Formation between 5556' -5582', 5596' - 5608', 5730' - 5762', 5796' - 5802', 5868' -5892', 5902' - 5932' was treated with a sand-water fracturing process. After being shut-in for gauge for twenty-five (25) days, the well was tested on June 13, 1958, and following a three (3) hour blow-down period gauged 3483 MCFGPD through a 3/4" choke, and 5088 MCFGPD by the calculated absolute openflow method with an SIPC of 1080# and an SIPT of 1085#. The committed drilling block upon which this well is located is described as the E/2 of Section 36, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on June 13, 1958.
- 3. The San Juan 32-9 Unit #65-9 Well is located 1650' from the South line and 1650' from the West line of Section 9, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on June 3, 1958, and completed on June 19, 1958, at a total depth of 6312'. The Mesaverde Formation between 5976' - 5982', 5986' -5992', 6046' - 6054', 6126' - 6134', 6138' - 6146', 6150' - 6190', 6196' - 6198', 6206' - 6212', 6220' - 6222', 6276' - 6286', 6290'-6292', 6294' - 6298 was treated with a sand-water fracturing process. After being shut-in for gauge for seven (7) days, the well was tested on June 27, 1958, and following a three (3) hour blowdown period gauged 2480 MCFGPD through a 3/4" choke, and 2600 MCFGPD by the calculated absolute open-flow method with an SIPC of 1107# and an SIPT of 1101#. The committed drilling block upon which this well is located is described as the S/2 or all of Section 9, Township 32 North, Range 9 West, N.M.P.M., and consists of 366.20 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on June 27, 1958.

The inclusion of the above described wells into the Participating Area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XXVIII showing the Twenty-Seventh Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Seventh Expanded Participating Area will become effective as of July 1, 1958.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

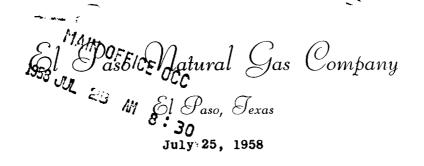
Very truly yours,

EL PASO NATURAL GAS COMPANY

T W Dittick

Assistant Manager Land Department

TWB:SHM:ch Attachment



Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit

T-32-N, R-9-W

Section 16: NW/4 NE/4

San Juan County, New Mexico

### Gentlemen:

Enclosed for filing with your office is one (1) copy of the Consent, Ratification and Joinder for the San Juan 32-9 Unit Area covering the captioned acreage, executed by the Seminary of Passionist Fathers on March 5, 1958, and approved and consented to by Pacific Northwest Pipeline Company, Phillips Petroleum Company and El Paso Natural Gas Company.

Very truly yours,

Harry Cevertz Area Zandman

Land Department

HG:BGI:pc
Enclosure
S. J. 32-9, 5.0

cc: Mr. Harvey McAtee

San Juan 32-9 Unit Area

	derived by the undersigned from the creation levelopment and operation thereof by the Unit
of the 32-9 Unit Area and the d Operator in accordance with the Unit Agreeme	
	County (Counties) of San Juan
State of New Mexico , dated as of Fet	ruary 10, 1953 (herein called the "Unit
Agreement,") by and between Pacific North	
ment of the Interior, and the Commissioner of	oproved by the Secretary, United States Depart-
·	interests therein, royalties, overriding royalties
or other interests in production from lands	included within the Unit Area therein defined,
* *	his, her or its ownership or interest presently
of said lands within said Unit Area, ratify,	ons or other agreements, consent to the inclusion approve and adopt the terms of the Unit Agree-
	by the Secretary, United States Department of entative, as applicable to said lands and inter-
· · · · · · · · · · · · · · · · · · ·	any lease granted by the undersigned or under
, <del>-</del>	erest are modified and extended to the extent
	nit Agreement, agree that the drilling, develop-
	es or other instruments under which the several created or defined shall be deemed fully per-
formed by performance of the provisions of t	· · · · · · · · · · · · · · · · · · ·
· - · · ·	payment for oil and gas duly made at contract
rates applied to production allocated under	the Unit Agreement to the particular lands ersigned do or shall apply, regardless of actual
production therefrom, shall constitute full	
undersigned existing under such leases or ot	
each of the undersigned warrants and agrees	
Schedule attached as Exhibit to the	Unit Agreement, whichever is applicable, or its execution hereof his, her or its inter-
est in the lands included within said Unit A	
Township 32 North	a, Range 9 West, M.M.P.M.
Section 16: N	
San Juan County	y, New Mexico
upon each party which shall execute a countercounterpart is executed by any other party caffected hereby, and when so executed shall	executed the same document and shall be binding erpart hereof regardless of whether or not such owning or claiming an interest in the land be binding upon each of the undersigned, his, all of the terms, provisions and conditions
DIVISION	N OF INTEREST
Name	Interest
OTHER AND DESCRIPTION DANGED OF	2 d opp*
SEMINARY OF THE PASSIONIST FATHERS	3 % ORRI
	SIGNATURE
DATE: March 5, 1958	SEMINARY OF THE PASSIONIST FATHERS
ATTEST;	
William Hogan C.F.	
DATE:	By: Thomas more Newbold (1)
ATTEST:	APPROVED AND CONSENTED TO:
	PACIFIC NORTHWEST PIPELINE CORPORATION
By R & Comment	Working Interest Owner
Assistant Secreta	APPROVED AS TO FORM
DATE:	By (10) MINNU Stay
APPROVED AND CONSENTED TO:	Vice-President
EL PASO NATURAL GAS COMPANY Unit Operator	APPROVED AND CONSENTED TO:
onto operator	PHILLIPS PETROLEUM COMPANY Working Interest Owner
MARKET DE STATE OF THE STATE OF	
THE PLANTS OF THE PERSON OF TH	By thank

ATTEST/:

Assistant Secretary

W.

San Juan 32 - 9 Unit

G	lan '	t. on	30-	n	Unit.	Area
		Juan	32-	<del>'</del>	_0111.0	ALCa

In consideration of the benefits to be derived by the undersigned from the creation of the undersigned from the undersigned from the creation of the undersigned from the undersigned from the undersigned from the undersigned from the creation of the undersigned from
Operator in accordance with the Unit Agreement for the Development and Operation of the
San Juan 32-9 Unit Area, County (Counties) of San Juan ,
State of New Mexico , dated as of February 10, 1953 (herein called the "Unit
Agreement,") by and between
and others, which Unit Agreement has been approved by the Secretary, United States Depart-
ment of the Interior, and the Commissioner of Public Lands of the State of New Mexico,
the undersigned owners of lands, leases or interests therein, royalties, overriding royalties
or other interests in production from lands included within the Unit Area therein defined,
do hereby, severally, each to the extent of his, her or its ownership or interest presently
held or which may arise under existing options or other agreements, consent to the inclusion
of said lands within said Unit Area, ratify, approve and adopt the terms of the Unit Agree-
ment and any modifications thereof approved by the Secretary, United States Department of
the Interior, or his duly authorized representative, as applicable to said lands and inter-
ests, agree that the provisions and term of any lease granted by the undersigned or under
which the undersigned owns or claims an interest are modified and extended to the extent
necessary to make the same conform to the Unit Agreement, agree that the drilling, develop-
ment and producing requirements of all leases or other instruments under which the several
rights or interests of the undersigned are created or defined shall be deemed fully per-
formed by performance of the provisions of the Unit Agreement, and agree that delivery
in kind (if required by prior agreement) or payment for oil and gas duly made at contract
rates applied to production allocated under the Unit Agreement to the particular lands
to which the rights or interests of the undersigned do or shall apply, regardless of actual
production therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other agreements. For the same consideration
each of the undersigned warrants and agrees that the schedule set forth below, or the
Schedule attached as Exhibit to the Unit Agreement, whichever is applicable,
correctly states as of the date of his, her or its execution hereof his, her or its inter-
est in the lands included within said Unit Area which are described as follows:
Township 32 North, Range 9 West, N.M.P.M.
Section 16: NW/4 NE/4
San Juan County, New Mexico

This instrument may be executed in any number of counterparts with the same force and effect as if each signatory hereof had executed the same document and shall be binding upon each party which shall execute a counterpart hereof regardless of whether or not such counterpart is executed by any other party owning or claiming an interest in the land affected hereby, and when so executed shall be binding upon each of the undersigned, his, her or its successors or assigns, subject to all of the terms, provisions and conditions of the Unit Agreement.

# DIVISION OF INTEREST

Name	Interest
SEMINARY OF THE PASSIONIST PATHERS	3 % ORRI
	SIGNATURE
DATE: March 5, 1958	SEMINARY OF THE PASSIONIST FATHERS
ATTEST;	
William Hogan C.P.	
DATE:	By: Thomas more newbold (1)
ATTEST:	APPROVED AND CONSENTED TO: PACIFIC NORTHWEST PIPELINE CORPORATION
By Rd Cramel	Working Interest Owner
Assistant Secretar	
APPROVED AND CONSENTED TO:	Vice-President
EL PASO NATURAL GAS COMPANY	APPROVED AND CONSENTED TO:
Unit Operator	PHILLIPS PETROLEUM COMPANY
2/2	Working Interest Owner
By X7 000	By Hall
Vice-President	ATTEST/: Vice-President

Assistant Secretary

CITY ST. LOUIS	)		
The foregoing instru	ment Jes ag	knowledged before	me this 5th
day of March	. 195 8	, by Thomas Mo	re Newbold, C.P.
day of Materi		President o	f Seminary of the
Passionist Fathers			
behalf of said Corporatio	MD.•		
		m	a) Capp
		Nota	ry Public
- Andrew Christians			
My Commission Expires:			
December 30. 196	<u></u>		
STATE OF			
COUNTY OF			
COORTI	<sup>-</sup>		
day of	, 195	, by	•
			ry Public
		NO CO	al incre
My Commission Expires:			
	-		
		DGMENT (Corporation	•
Applicable where lands are in OKLAHOMA	Colorade, Wyomin	g, Montana, North Dakota, Sout	h Dakota, New Mexico and Utah
NTY OF MASHINGTON Narch		<b>}</b> 55.	
on this	^ <b>6</b>		ore me Hartha Rinchart ersonally known to be the Figs.
e corporation described in and that execute President of Corporate seal of said corporation, and t	ted the within ar	nd foregoing instrument, wh	o, being by me duly sworn did say: that
corporate seat of said corporation, and t	ملت		n behalf of said corporation by author o be the free act and deed of said cor
of Directors, and said 6. 0. Star			
l of Directors, and said <b>6.0. Star</b> that said corporation executed the same. Given under my hand and seal this <b>14</b>		Kerch	, 1 <b>58</b>
hat said corporation executed the same.		Hereh	Notary Public

SEASE OF
COUNTY OF Salt Lake
The foregoing instrument was acanovledged before se this lyth day
of Narch , 1958, by A. B. Allyme ,
Vice-President of Pacific Morthwest Pipeline Corporation, a Delaware
corporation, on behalf of said corporation.
Mariew D. Carlisee
My Commission expires:
September 27, 1961
SEASE OF TEXAS
CCOURTY OFEL PASO
The foregoing instrument was acknowledged before me this 15th day
of April , 1955, by H. F. Steen
Vice President of El Paso Natural Gas Company
a Delaware corporation, on behalf of said corporation.
Matalie Taylor
Notary Public
My Commission empires:  Notary Public in and for El Paso County, Texas
Ty Commission Expires June 1, 19594

MAIN EFFICE OFFICE OFFI

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: Amendment of Unit Agreement

San Juan 32-9 Unit

San Juan County, New Mexico

### Gentlemen:

Reference is made to our letter dated May 1, 1958 requesting approval of amendment of the spacing pattern for certain development wells within the unit area.

This amendment was approved by your office on May 23, 1958, and by this letter we wish to inform you that the subject amendment was approved by the United States Geological Survey on July 1, 1958.

Yours very truly.

Area Landman

Land Department

HG:BGI:pc

S. J. 32-9, 5.0

cc: Mr. Harvey McAtee

El Paso Natural Guell Company
OFFICE OCC

El Paso, Stary 25 M 11:30

F. 12 478

### REGISTERED MAIL

Gil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit

Township 32 North, Range 9 West

Section 36: NE/4 SW/4

San Juan County, New Mexico

### Gentlemen:

Enclosed for filing with your office is one copy of each of the following instruments:

- 1. Ratification and Joinder of Unit Agreement executed by James Palmer and wife, dated May 31, 1958.
- 2. Ratification and Joinder of Unit Agreement executed by El Paso Natural Gas Company, dated July 21, 1958.

Yours very truly

Area Landman

Land Department

HG:EGI:pc
Enclosures

cc: Mr. Harvey McAtee

### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the <u>San Juan 32-9 Unit</u>

Area located within the County of <u>San Juan</u> New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling. development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement. and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SICNATURE
	James palmer
	p. o. Bx5
Date: May 31 1958	Landing n.
	Jean Lanis Palmer
	P.O. Bol 5.
Date: May 31 1958	Landing 71
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APPROVED AND CONSENTED TO:

EL PASO NETURA DAS COMMANY

By

Vice President

WORKING INTEREST HINIT OPERATOR

STATE OF	)	
COUNTY OF	) SS.: )	
On this	day of	, 195, before me appeared
by me duly sworn, did	say that he is the	, to me personally known, who, beingPresident of
is the corporate seal and sealed in behalf	of said corporation, of said corporation b	hat the seal affixed to said instrument and that said instrument was signed by authority of its board of directors, acknowledged said instrument to be
seal the day and year		nto set my hand and affixed my official first above written.
My Commission expires	•	
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		Notary Public in and forGounty,
		State of
OMA ME AND	<b>\</b>	
STATE OF HER JETSET COUNTY OF MORRIS	) SS.:	
COUNTY OF MORRIS	<b>)</b> .	
going instrument, and and deed.  My Commission expires	to be the persons de acknowledged to me t	escribed in and who executed the fore- they executed the same as their free act
NOTARY PUBLIC OF NEW JERSE MY COMMISSION EXPIRES MARCH 12, I		loate Typostolik
		Notary Public in and for
		State ofCounty,
STATE OF	)	
COUNTY OF	) SS.: )	
On this	day of	, 195, before me personally
	in and who executed t	, a single person, to me known to be the foregoing instrument, and acknowledged asfree act and deed.
My Commission expires		
		Notary Public in and for
		County,

## RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of	the Unit Agreement for the Development
and Operation of the San Juan 32-9 Unit Arc	ea located within the County of
San Juan , State	of New Mexico , in form
approved on behalf of the Secretary of the Inter-	ior, the undersigned owners of lands
or leases, or interests therein or royalties pre-	sently held or which may arise under
existing option agreements, or other interests in	n production covered by said Unit
Agreement hereby severally, each to the extent of	
interest, as may appear, consent to the inclusion	
therein defined, ratify, approve and adopt the t	erms of said Unit Agreement and any
modifications thereof approved by the Secretary	
rized representative as applicable to said sever	
the term of any lease given by the undersigned of	
an interest herein is extended and modified to t	•
conform to the terms of said Unit Agreement, agr	
producing requirements of all leases and other c	
and interests are created or defined shall be de	
the provisions of said Unit Agreement, and agree	
ever may be required under prior agreements) oil	
applied to the production allocated under said U	
to which such rights or interests do or shall ap	
therefrom, shall constitute full performance of	all such obligations to the undersigned
existing under such leases or other contracts.	
This Ratification and Joinder of Unit ber of counterparts with the same force and effe- same document and shall be binding upon all thos- regardless of whether or not it is executed by a an interest in the lands affected hereby, and wh the undersigned, his or her assigns or successor	e who execute a counterpart hereof, ll other parties owning or claiming en so executed shall be binding upon
Alan and	SIGNATURE PASO NATURAL GAS COMPANY
Assistant Secretary	
	Vice President
wo	RKING INTEREST OWNER
Date:	

Tract 43: Township 32 North, Range 9 West Section 36: NE/4 SW/4

Date:

Date:

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N HERE

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
TWENTY-SIXTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective June 1, 1958

### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that four (4) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon, acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells as follows:

1. The San Juan 32-9 Unit #58 Well is located 990' from the North line and 990' from the East line of Section 16, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on April 29, 1958, and completed on May 25, 1958, at a total depth of 6266'. The Mesaverde Formation was treated with a sand-water fracturing process between 5812' - 5830', 5842' - 5858', 5866' - 5884'. 5934' -5952', 6042' - 6068', 6080' - 6100', 6116' - 6140', 6152' - 6170' and was refractured between 6042' - 6068' 6080' - 6100', 6116' -6140', 6152' - 6170', 6190' - 6206', 6226' - 6232' and was again refractured between 5812' - 5830', 5842' - 5858', 5866' - 5884', 5934' - 5952'. After being shut-in for gauge for six (6) days, the well was tested on May 31, 1958, and following a three (3) hour blowdown period gauged 2835 MCFGPD through a 3/4" choke, and 3830 MCFGPD by the calculated absolute open-flow method with an SIPC of 980# and an SIPT of 988#. The committed drilling block upon which this well is located is described as the E/2 of Section 16, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on May 31, 1958.

- 2. The San Juan 32-9 Unit #59 Well is located 1840' from the South line and 990' from the West line of Section 19, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on February 24, 1958, and completed on March 30, 1958, at a total depth of 6001'. The Mesaverde Formation between 5746' - 5756', 5760' - 5764', 5780' - 5786', 5792' - 5802', 5812' - 5820', 5826'-5832', 5838' - 5860' was treated with a sand-water fracturing process. After being shut-in for gauge for thirty-two (32) days, the well was tested on May 2, 1958, and following a three (3) hour blowdown period gauged 3267 MCFGPD through a 3/4" choke, and 5090 MCFGPD by the calculated absolute open-flow method with an SIPC of 1038# and an SIPT of 1038#. The committed drilling block upon which this well is located is described as the W/2 of Section 19, Township 32 North, Range 9 West, N.M.F.M., and consists of 209.40 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on May 2, 1958.
- 3. The San Juan 32-9 Unit #60 Well is located 1650' from the North line and 990' from the East line of Section 28, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on April 3, 1958, and completed on May 2, 1958, at a total depth of 6195'. The Mesaverde Formation between 5864' - 5904', 5994'-6014', 6032' - 6051', 6060' - 6072', 6082' - 6094', 6108' - 6146' was treated with a sand-water fracturing process. After being shut-in for gauge for thirteen (13) days, the well was tested on May 16, 1958, and following a three (3) hour blow-down period gauged 2958 MCFGPD through a 3/4" choke, and 4183 MCFGPD by the calculated absolute open-flow method with an SIPC of 970# and an SIPT of 965#. The committed drilling block upon which this well is located is described as the E/2 of Section 28, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on May 16, 1958.
- The San Juan 32-9 Unit #64 Well is located 425' from the South line and 769' from the West line of Section 2, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on March 30, 1958, and completed on April 25, 1958, at a total depth of 5876'. The Mesaverde Formation between 5610' - 5648', 5668' - 5684', 5694' - 5722', 5734' - 5764', 5794' - 5824' was treated with a sand-water fracturing process. After being shutin for gauge for fifty wo (52) asys, the well was tested on May 16, 1958, and following a three (3) hour blow-down period gauged 3220 MCFGPD through a 3/4" choke, and 5542 MCFGPD by the calculated absolute open-flow method with an SIPC of 1020# and an SIPT of 1022#. The committed drilling block upon which this well is located is described as the W/2 of Section 2, Township 31 North. Range 9 West, N.M.P.M., and consists of 320.86 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on May 16, 1958.

The completion of the San Juan 32-9 Unit #58 and #60 Wells create two (2) intervening drilling blocks. Said intervening drilling blocks are described as the E/2 of Section 21, Township 32 North, Range 9 West, N.M.P.M., consisting of 320.00 acres, and the E/2 of Section 33, Township 32 North, Range 9 West, N.M.P.M., consisting of 320.00 acres.

Under the terms of the San Juan 32-9 Unit Agreement, the above described drilling blocks are admitted to the Mesaverde Participating Area as of June 1, 1958. A well must be commenced on each of the drilling blocks by June 1, 1959.

Attached is Schedule XXVII showing the Twenty-sixth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval this Twenty-sixth Expanded Participating Area will be come effective as of June 1, 1958.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

71 77 77 77

Assistant Manager Land Department

TWB:SHM:cl Attachment

cc: Attached list

El Paso Hatural Gas Company

El Paso, Texas

June 13, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico File Core 498

Re: San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico

NOTICE OF COMPLETION OF ADDITIONAL WELL

### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed on acreage committed to this unit:

The San Juan 32-9 Unit #62 Well, located 1800' from the North line and 1100' from the East line of Section 14, Township 32 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, was spudded on April 3, 1958 and completed on April 28, 1958, at a total depth of 6018'. The Mesaverde Formation between 5665' - 5680', 5702' - 5736', 5748' - 5780', 5816' - 5850', 5862' - 5880', 5920' - 5934' was treated with a sand-water fracturing process. After being shut-in for gauge for seventeen (17) days, the well was tested on May 16, 1958, and following a three hour blow-down period gauged 2999 MCFGPD through a 3/4" choke and 4510 MCFGPD by the calculated absolute open-flow method with an SIPC of 981# and an SIPT of 971#. The committed drilling block upon which this well is located is described as the E/2 of Section 14, Township 32 North, Range 10 West, N.M.P.M., and consists of 320.00 acres.

The drilling block was included in the San Juan 32-9 Twenty-third Expanded Participating Area, effective November 1, 1957, as an intervening drilling

block. Therefore, the Participating Area is not enlarged, and the percentages allocated to the tracts shown on Schedule XXIV for the Twenty-third Expanded Participating Area remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Вy

Area Landman

Land Department

HG:SHM:jb Attachment

Page 2 San Juan 32-9 Unit Working Interest Owners

Sterling Morton 110 North Wacker Drive Chicago 6, Illinois

Mr. Roy E. Bard 208 South La Salle Street Room 510 Chicago 4, Illinois

Ralph A. Bard 208 South La Salle Street Room 504 Chicago 4, Illinois

Cortland T. Hill 606 South Hills Street Los Angeles, California

Elsie F. Hill W. 1453 First National Bank Bldg. St. Paul 1, Minnesota

Lewis W. Hill, Jr. W. 1453 First National Bank Bldg. St. Paul 1, Minnesota

Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

Albert L. Hopkins, Jr. 12 Robinson Street Cambridge 38, Massachusetts

R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Ruth N. Halls 460 El Cielito Road Santa Barbara, California

Suzette M. Zurcher 110 North Wacker Drive Chicago 6, Illinois Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Donald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

City National Bank & Trust Company Trustee of Trust No. 23949 208 South La Salle Street Chicago 4, Illinois

Robert T. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Henry P. Isham, Jr. 38 South Dearborn Street Room 1007 Chicago 3, Illinois

William Simpson 111 West Washington Chicago 2, Illinois

Nancy H. Haskins 1318 Judson Avenue Evanston, Illinois

James Simpson, Jr.
111 West Washington Street
Chicago 2, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

(CONTINUED)

Page 3
San Juan 32-9 Unit
Working Interest Owners

Margaret S. MacDonald c/o Trust Department, Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

John M. Simpson 111 West Washington Street Chicago 2, Illinois

Frederic F. Webster 111 West Washington Street Chicago 2, Illinois

John: Stuart 345 Merchandise Mart Chicago 54, Illinois

Jay C. Halls
1 North La Salle Street
Chicago 2, Illinois

Catherine M. Ruml
1 North La Salle Street
Chicago 2, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

William P. Sutter 1 North La Salle Street Chicago 2, Illinois

Trust No. 1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle Street Room 3710 Chicago 3, Illinois

Suzanne LaForce Baber 217 South Lassen Street Willows, California

City National Bank & Trust Company Trustee of Trust No. 23935 208 South La Salle Street Chicago 4, Illinois R. Neson Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Nora R. Ranney RFD Casey Road Libertyville, Illinois

Eleanor Isham 38 South Dearborn Street Room 1907 Chicago 3, Illinois

Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones
Post Office Box 1637
Midland, Texas

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr.6425 Mimosa LaneDallas 30, Texas

# El Paso Natural Gas Company

El Paso, Texas

June 6, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
TWENTY-FOURTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective January 1, 1958

File Case 498

### Gentlemen:

In connection with the captioned expansion, the location of the San Juan 32-9 Unit #54-14 Well should read as follows:

The San Juan 32-9 Unit #54-14 Well is located 1850' from the South line and 1190' from the West line of Section 14, Township 32 North, Range 9 West, San Juan County, New Mexico.

Very truly yours,

Harry Gevertz Area Landman Land Department

HG:SHM:cl



# UNITED STATES DEPARTMENT OF THE INTERIOR

### GEOLOGICAL SURVEY

P.O. Box 6721 Noswell, New Mexico

May 14, 1958

El Pase Matural Gas Company P.O. Box 1492 El Pase, Texas

Attention: Mr. Merry Geverts

Centlemen:

Receipt is asknowledged of your letter of May 8, 1958, advising the correct location for the well acheduled in the 2½ sec. 9, T. 31 N., R. 9 W., San Juan 32-9 Unit, 1958 Brilling Program, should be corrected to include all of sec. 9, T. 32 N., R. 9 W., and is to be a Measwerde formation test.

Very truly yours.

TOHE SECTIONN A. ANDERSON

JOHN A. AMBURSON
Regional Gil and Gas Supervisor

Copy to: Washington

**Farmington** 

W.M. 0il Cone. Com., Senta Pe Com. of Public Lands, Senta Pe

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## UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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Parishan F. M. H.

### El Paso Natural Gas Company

El Paso, Texas

May 8, 1958

498

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico

> > 1958 DRILLING PROGRAM

#### Gentlemen:

By letter dated January 20, 1958, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1958 scheduling a well to be located in the E/2 of Section 9, Township 31 North, Range 9 West.

El Paso Natural Gas Company wishes to amend said Drilling Program to correctly describe the location of the well scheduled for Section 9 as follows:

Drilling Block

Formation

All Section 9, T-32-N, R-9-W

Mesaverde

Very truly yours,

EL PASO NATURAL GAS COMPANY

Вy

Harry/Gevertz

Area Landman

Land Department

HG:SHM:jb

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

#### San Juan 32-9 Unit Working Interest Owners

Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1, Texas

Petro-Atlas Corporation First National Building Tulsa 3, Oklahoma

Petro-Atlas Corporation Post Office Box 517 Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Bldg. Dallas 1, Texas

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

(CONTINUED)

Sterling Morton 120 South La Salle Street Chicago, Illinois

Mr. Roy E. Bard 208 South La Salle Street Room 510 Chicago 4, Illinois

Ralph A. Bard 208 South La Salle Street Room 504 Chicago 4, Illinois

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Suzette M. Zurcher 955 North Lake Road Lake Forrest, Illinois Page 2 San Juan 32-9 Unit Working Interest Owners

Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

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City National Bank & Trust Company Trustee of Trust No. 23935 208 South La Salle Street Chicago 4, Illinois Page 3 San Juan 32-9 Unit Working Interest Owners

R. Neson Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

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Eleanor Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

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J. Robert Jones
Post Office Box 1637
Midland, Texas

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas fle SJ 37 Holl to SJ 37 Holl 5 per NWU file 5 213 Horn 213 Horn 201

Supervisor Valted States Geological Survey P. Q. Box 8721 Resuell, New Mexico

New Memieo Oil Conservation Commission P. O. Box 871 Senta Po. New Memies

Comissioner of reblic lends State of New Memico Capital Assest Smilding Senta Fo. New Memico

> Re: San Juan 32-9 Unit San Juan County, New Memico

259 and.

#### Contlemen:

The Sam Juan 38-8 Unit Agreement as originally drawn provides that the spacing pattern for development wells within the unit area shall be the E/S or V/S of each section. However, Sections 7 through 12 of Township 22 North, Range 9 Vest and Sections 11 and 13 of Township 32 North, Range 10 Vest, are much short of the usual 640 acres, and therefore are not suited to development of the Pictured Cliffs and Mesa Verde Formations in accordance with the unit requirement which contemplates regular one-half sections of 320 acres each. The amount of acreage in each section is as follows:

Township	39	North,	Renge 9	S See E
Section	7:	201.45	Agree	
Section	<b>\$</b> :	356.19	Acres	
Section	9:	366.30	Acres	
Section :	10:	371.20	Acres	
Section :	11:	379.80	Acres	
Section :	12:	372,40	Acres	

Township 32 North, Range 10 #est

Section 11: 341,50 Acres Section 12: 340,80 Acres United States Goolegical Survey

Her Mentes 011 Conservation Commission

Commissioner of Public Lands

Because of these irregularities in survey, special provision must be made for non-standard drilling blocks in order to economically develop the amit.

By letter dated March 11, 1966, B1 Pano Natural Gas Coupeny, as Unit Operator of the San June 20-0 Unit, submitted a proposal to  $V_{10}$  working interest comess that each of the Septions 7 through 12 in Tourshi's 32 North, Range 9 Yest and Sections 11 and 15 in Tourship 32 North, Range 16 West, constituting one complete drilling block for unit purposes.

We have now received approval of the majority of the morking interest owners within the Sen Juan 20-0 Unit, as required by Sertion 7 of the Unit Operating Agreement. I am attaching photostatic copies  $C_{\ell}$  these approvals for your reference.

It is now the desire of El Paso Matural Gas Company, as Unit Operator of the San Ser, 25-0 "Fig. 10 Company the proper approval from the United States Gashaus and Survey, the Commission of the State of New Maries Oal Companyation Commission of the proposed spacing program.

We will very much approviate your review of the irregularities of survey and granting your approval for the development and participation of the San Jan 35-0 Unit is accordance with this program for Sections 7 through 12, Township 32 Marth, Bango 9 West and Sections 11 and 18, Township 32 North, Range 18 West,

Thank you for your prompt consideration.

Vory truly yours

D. M. Carefuld

EMC: ee

D. N. Confield Division Landson Land Department

APPROVED:		DATE:				
•	Director, United States Geological Survey	7				
	Subject to like approval by the appropria	ate State officials.				
APPROVED:		DATE: may 6, 1958				
•	Commissioner of Public Lands					
	Subject to like approval by the U.S.G.S. and Oil Conservation Commission.					
APPROVED:	af Cacta	DATE: 5-23-58				
•	Oil Conservation Commission					

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

THE CENTER CO.

In reply refer to: Unit Division

1. 1. 1. 1. 1. 20

May 6, 1958

F1/2 448

El Paso Entural Gas Company El Paso, Temas

> Re: San Juan 32-9 Unit San Juan County, New Mexico

Attention: Mr. D. W. Canfield

Gentlemen:

We are handing you eight copies of your request for your proposed spacing program for the San Juan 32-9 Unit Area.

The Commissioner of Public Lands has approved these nonstandard drilling blocks as of May 6, 1958, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Yery truly yours,

MERRAY E. MORGAN, Commissioner of Public Lands

BY:

Ted Bilberry, Supervisor Oil and Gas Division

MENA/MARA/s

ce :

U.S.G.S.-Rosvell OCC - Santa Fe 'ay 6, 1958

El Paso Matural Cas Company 21 Paso, Texas

Re: San Jun je-9 Unit San Juan County, Nov Menico

Attention: Mr. D. M. Cauffeld

Gentlemen:

We are banding you eight copies of your request for your proposed spacing program for the San Juan 32-9 Unit Area.

The Commissioner of Public Lands has approved these nonstandard drilling blocks as of May 6, 1958, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Very truly yours,

MURRAY E. HOROAR, Commissioner of Public Lande

:YE

ied Bilberry, Supervisor oil and Cas Division

HEN/MHR/s

: 55

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OCC - Santa Pa



## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. Box 6721
Reguell, New Mexico

April 25, 1958

File 498

El Paso Matural Gas Company

P. C. Box 1492

El Peso, Temas

Attention: Som Smith

#### Gentlemen:

Your Plan of Nevelepment for 1958, dated January 20, 1958, for the San Juan 32-9 unit area, No. 14-08-002-569, San Juan County, New Mentice, which proposes the drilling of mine Measureds formation wells, has been approved on this date subject to like approval by the appropriate State officials. Please advise the correct location of the well scheduled for the 32 sec. 9, T. 31 N., R. 9 W., as well No. 14 has been drilled here.

Two approved copies of the plan are enclosed.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

#### Emal: 2

Copy to: Washington (w/copy of plan)
Farmington (w/copy of plan)
MMDCC, Santa Fe (letter only)
Com. of Pub. Lands, Santa Fe
(letter only)

JAAndersonics



## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL BURVEY

ONE SETUIONE A ANDERSON

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George of Paralleges (W/C) Solution of the Spring of the S

TOP TOUT, LIBERT

1: Ju 488

## P. O. BOX 871 SANTA FE, NEW MEXICO

April 14, 1958

El Paso Natural Gas Company

P. O. Box 1942

El Paso, Texas

Attention: Mr. Sam Smith

Re: San Juan 32-9 Unit #14-08-

001-569

San Juan County, New Mexico

1958 Drilling Program

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1958 Drilling Program for the San Juan 32-9 Unit Area, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

#### ALP/RLS/ga

ce U. S. Geological Survey-Roswell
Commissioner of Public Lands-Santa Fe

## OIL CONSERVATION COMMISSION P. G. BOX 371 SANTA FE, NEW MEXICO

w. ?

A Sec. 14, 196

El Faso Natoral Gas Clarge L P. O. Box 1712 El Paso, Texas

Attention: Mr. Som Orien

Ret on Amob, y on Fire be evision dan Amb u anty, been boxano 1958 Drib in Amogram

#### Gentlemen:

This is to advise the the Mexico in discertain often anission has this date approve the lyst infiling for that for the San Juan 32-9 Unit Area, spicet to like approved he there takes Geological Survey and by the Commissioner of orbits and the first State of New Mexico.

One approved copy to the Plan to recur to berewitte.

Very trail over o.

er. G. Tokalid, dr., Secretary-vias tens

#### ALP/RLS/ga

cc U. S. Geological Survey Noswell
Commissioner of Public Lends-Sence fe

April 11, 1958

Case 498

El Paso Hatural Gas Company El Paso, Texas

> Re: San Juan 32-9 Unit, San Juan County, New Mexico 1958 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

We are enclosing one copy of your 1958 Drilling Program dated January 20, 1958 and received in this office April 10, 1958.

This program was approved by the Commissioner of Public Lands April 11, 1958 with the exception of the Drilling Block E/2 Section 9, Township 31 North, Range 9 West. We Believe this is in error as we show a messwerde Well No. 14 located in the E/2 of this section.

Very truly yours,

METRAY E. MORGAN, Commissioner of Public Lands

BY:

Ted Bilberry, Supervisor Oil and Gas Division

MEM/MOR/s

cc:

USGS OCC V April 11, 1958

El Paso Matural Cas Company El Paso, Texas

Re: San Just 32-9 Unit; San Just County, New Mexico 1958 Urilling Program

Attention: Mr. Sam Smith

Gentlemen:

We are enclosing one copy of your 1958 Drilling Program dated January 20, 1958 and received in this office April 10, 1958.

This program was approved by the Commissioner of Public Lands April 11, 1958 with the exception of the Priling Block  $\mathbb{S}/2$  Section 9, Township 31 North, Range 9 West. We relieve this is in error as we show a messwerde Well 80. 14 located in the  $\mathbb{E}/2$  of this section.

Very truly yours,

HUBRAY E. MORGAM, Commissioner of Public Lands

: Yá

Ted Bilberry, Supervisor 011 and Gas Division

MEM/MMR/s cc:

uscs occ 🛩

## P. O. BOX 871 SANTA FE, NEW MEXICO

1/1/18

March 28, 1958

El Paso Natural Gas Company Box 1492 El Paso, Texas

Attention: Mr. T. W. Bittick

Re: San Juan 32-9 Unit Area

San Juan County, New Mexico
THIRD SUPPLEMENTAL 1957
DRILLING PROCESAM

DRILLING PROGRAM.

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Third Supplemental 1957 Drilling Program for the San Juan 32-9 Unit Area, dated January 27, 1958, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

ALP/RLS/ga

Enclosure

## C \_ CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

PM post Born

11 Paso National Gas Tomp or Box 1492

Fl Paso, Terra

Attention: Mr. T. W. Bittler

The Last June 31 of the Past Car Jean Comp., M. & Liener v Eding St. TETA Edings Challing Child Car.

#### Gentleinen:

Fais is to advise fult the New Mexica for Corservation Commission has this date approved the unital New Mapphemental in Tarihian Tragram for the San Juan 32-9 Unit Air , dated Frankry 27, 1 25, a bject to like approval by the United Staues Geolegical Survey and by the Commissioner of Public Lands of the State of Newico.

One approved copy of the Clan is recoved berewith.

Very traily years,

A. L. POLLER, 12., Secretary-Director

ALP/RLS/ga

Enclosure

### El Paso Natural Gas Company

El Paso, Texas

March 3, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico Cane H18

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
TWENTY-FIFTH EXPANDED PARTICIPATING AREA
Mesaverde Formation

mesaverde Formation Effective February 1, 1958

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 32-9 Unit #52-13 Well is located 790' from the South line and 790' from the West line of Section 13, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on December 1, 1957 and completed on December 26, 1957 at a total depth of 6288. The Mesaverde Formation between 5718' - 5722', 5726'-5728', 5790' - 5800', 5808' - 5814', 5932' - 5944', 6002' - 6046', 6050' - 6054', 6058' - 6068', 6072' - 6078', 6084' - 6092', 6096'-6100', 6102' - 6106', 6110' - 6116', 6122' - 6128', 6132' - 6136', 6138' - 6144', 6175' - 6179', 6206' - 6208', 6214' - 6218', 6222'-6228' was treated with a sand-water fracturing process. After being shut-in for gauge for seven (7) days, the well was tested on January 2, 1958, and following a three (3) hour blow-down period gauged 1984 MCFGPD through a 3/4" choke, and 2317 MCFGPD by the calculated absolute open-flow method with an SIPC of 1080# and an SIPT of 1080#. The committed drilling block upon which this well is located is described as the W/2 of Section 13, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on January 2, 1958.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XXVI showing the Twenty-Fifth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Fifth Expanded Participating Area will become effective as of February 1, 1958.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

7

Assistant Manager Land Department

TWB:SHM:c1 Attachment

cc: Attached list

## El Paso Natural Gas Company

El Paso, Taxas March 11, 1959

#### her over or the blue following the mili-

> E LOTE LEGISLA 10:

mhip 39 Morth, Range 10 Seat Ion 11: \$41.50 Acres

340.80 Acres

Seconds of those irregularities in survey, special provision must be made for non-standard drilling blocks in order to occasionly develop the unit

secommodation of El Paso Natural Gas Company, as Unit Operator m Pass 58-8 Unit, that each of the sections, 7 through 15 in To-meth, sample 9 Vest, and Sections 11 and 18 in Township 55 North, Test, complitude and complete drilling block for unit purposes.

This program has been discussed generally with the New Mexico Gil Comear-valing Commission, the Commissioner of Public Lands and the Soline States Geniagical Survey, and we believe it will meet with their appropria. Sector

Vorking Interest Genera San Juan 32-9 Unit

March 11, 1958

making final application, however, we would like to have the approval of the majority working interest owners within the San Juan 32-9 Unit as provided in Section 7 of the Unit Operating Agreement.

We will therefore very much appreciate your review of this problem and returning a copy of this letter within ten (10) days from receipt with your approval of this proposed program indicated in the space provided below.

Very truly yours,

EL PASO NATURAL GAS COMPANY

W. Bittick

By:

T. W. Bittick Ass't. Manager Land Department

TWB:SHE:jr

APPROVED:	PACIFIC NO	RIBWEST PIPE	LINE CORPORA	MOLTA
7	March 17		958 .	

### PACIFIC NORTHWEST PIPELINE CORPORATION SALT LARR CITY, UTAB

March 18, 1958



El Paso Natural Gas Company Post Office Box 1492 El Paso, Texas

Attention: Mr. T. W. Bittick

Gentlemen:

Re: San Juan 32-9 Unit

San Juan County, New Mexico

We enclose herewith an approved copy of your letter dated March 11, 1958, which has reference to the proposed irregular sized Brilling Blocks in San Juan 32-9 Unit.

We will appreciate being advised of final acceptance and approval of this proposal by the Regulatory Authorities.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPERATION

Claude Van Dyke
District Manager, Land Department

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# El Paso Natural Gas Company El Pero, Tesse 11, 1888

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## El Paso Natural Gas Company

El Paro, Garan March 11, 1888

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SAN ANTONIO TEMAS

March 17, 1958



El Paso Matural Gas Company El Paso, Texas

> RE: San Juan 32-9 Unit 8 5 2 Section 11 8 5 2 Section 12 T38W, R10W, San Juan County, New Mexico

#### Centlemen:

Enclosed is copy of your letter dated March 11, 1958, indicating our approval of your recommendation that each of Sections 7 through 12 in Township 32 North, Range 9 West, and Sections 11 and 12 in Township 32 North, Range 10 West, constitute one complete drilling block for unit purposes.

Very truly yours,

PRINCIPS DRIVENIES CORPORATION

By:

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## El Paso Natural Gas Company

El Paro, Texas 10 cm 11. 1959



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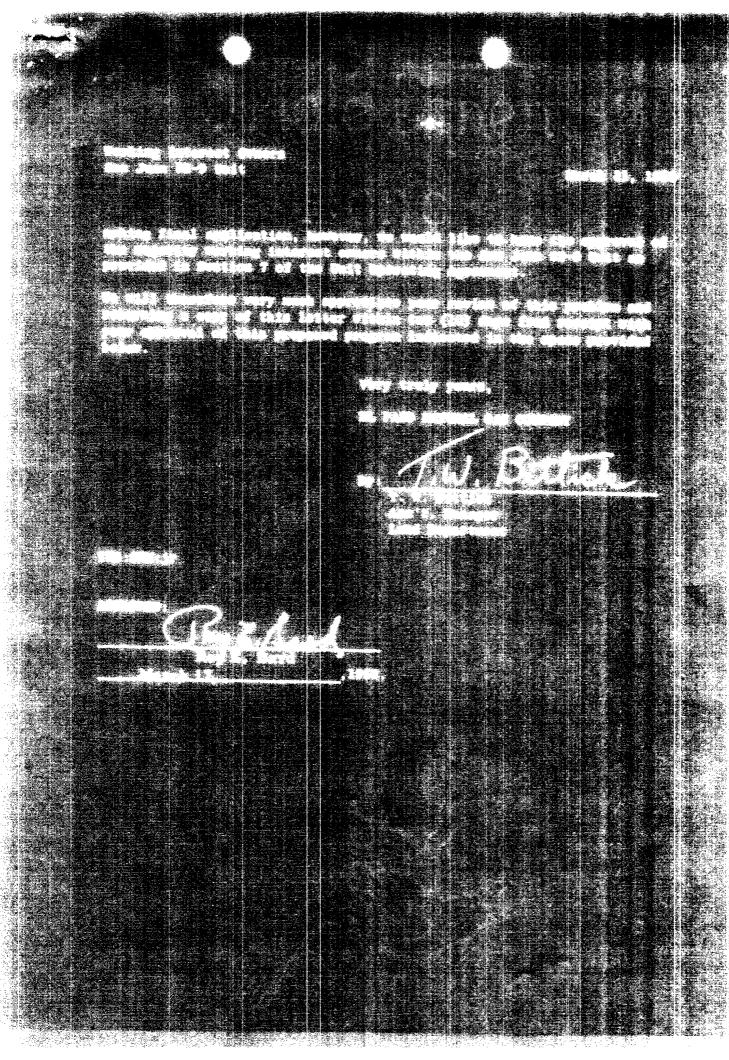
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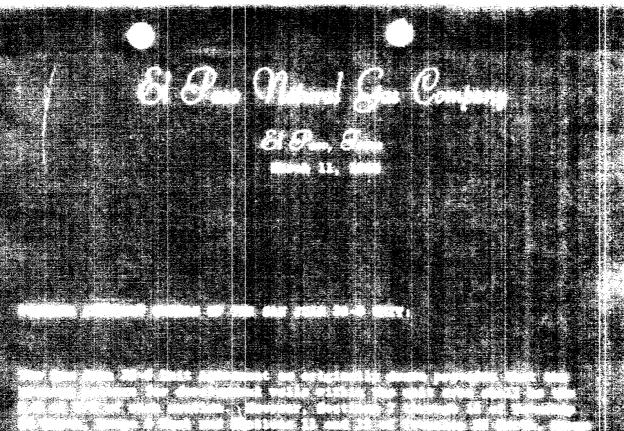
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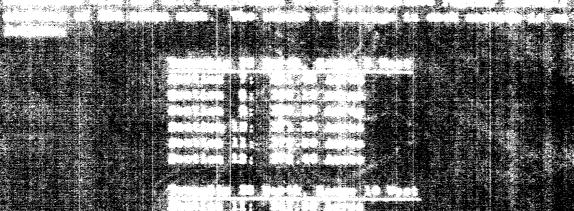
Forking Interest Greers Son Juan 39-0 Calt March 11, 1968 making fine) emplication, however, we would like to have the approval of the majority vecking interest owners within the San Juan 32-9 Unit as provided in Section 7 of the Unit Operating Agreement. We will therefore very much appreciate your review of this problem and returning a copy of this letter within ten (10) days from receipt with your approval of this proposed program indicated in the space provided bolaw. Very truly yours. BL PASS MITTERS, CAS CONDUST I.W. Bittick ASS to Minegar Land Department 110 : EEE : 57 YSA2 Land Manager - Pubco Petroleum Corporation March 17 .1868.

# El Par Nederal Gas Company El Paro, Fina Barrel 11, 1888

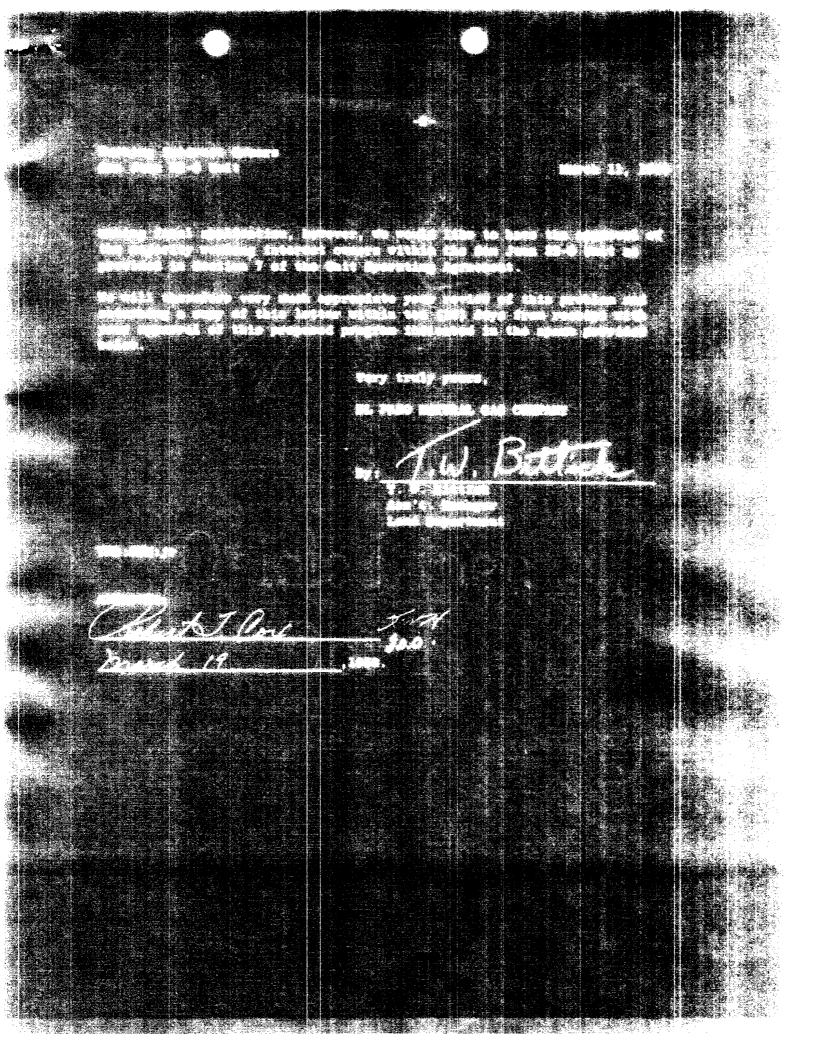
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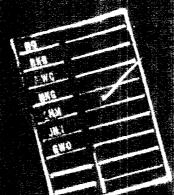
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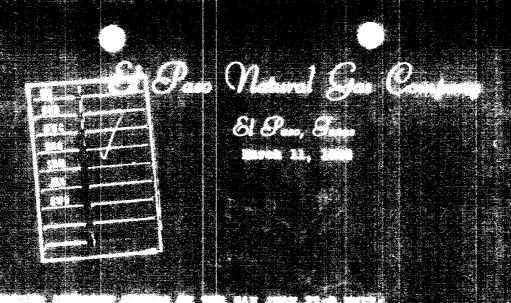
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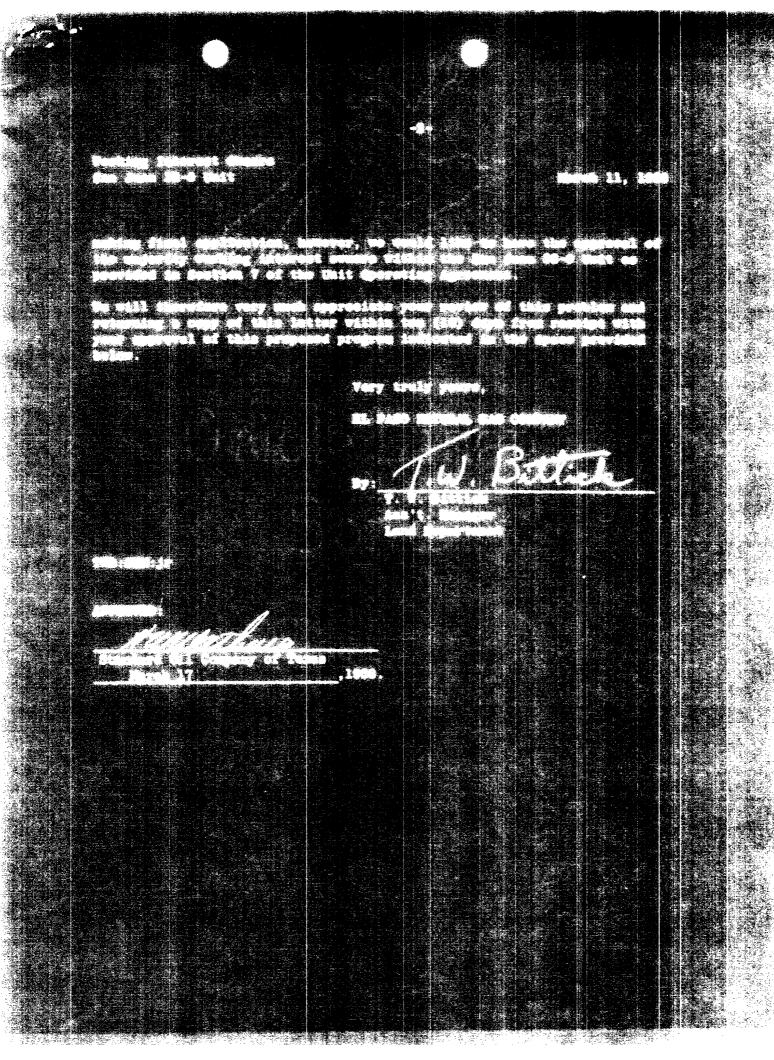


W. Booker 

HOUSTON 1 . TEA Merch 18, 1998 LAND DECAME Mr. T. V. Mittick El Paso Metural Gas Company P. O . Box 1492 Il Pest, Texas Dear Mr. Mittick! As requested in your latter of March II, 1998 on the above subject, we are enclosing one approved copy of your latter indicating our approved to make employed so to the necessary Commissions for networkers drilling blocks as set out therein. Yours very tirely.

# El Passo Natural Gas Company El Passo, Fasso 112, 1888

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### El Par Notural Gas Company El Par, Taxo 2002 12, 2008

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Working Interest Gwners San Juan 33-9 Unit

March 11, 1956

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Very truly yours,

BL PASO NATURAL GAS COMPANY

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By:

T. W. Bittick Ass't. Manager

Land Department

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ACTEC OIL + GAR COMPANY

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MARCH 17, 1958

YES

## El Paso Natural Gas Company

El Paso, Texas March 11, 1950

#### 19:00 inductor orders by the Sai Juan 32-6 mit:

The few June 28-8 Unit Agreement as originally drawn provides that the appealing pattern for development wells within the unit area shall be the er t/S of each section. However, Sections 7 through 12 of Township morth, Bouge 8 West and Sections 11 and 12 of Township 22 Forth, Range Sections 11 and 12 of Township 22 Forth, Range Seat, are such short of the usual 640 acres, and therefore are not ted to development of the Pictured Cliffs and Heseverde Pormations in medians with the unit requirement which contemplates regular one-balf time of 200 acres each. The amount of acresge in each section is as 

Township 32 North, Range & West Section 7: 281.45 Acres Section 8: 358.19 Acres Section 9: 366.20 Acres Section 10: 371.20 Acres Section 11: 372.80 Acres Section 12: 372.40 Acres

### Township 32 North, Range 10 West Section 11: 341.50 Acres

Section 12: 340.80 Acres

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It is the recommendation of El Paso Natural Sas Company, as Unit Operator of the Sam June 22-6 Unit, that each of the sections, 7 through 12 in Township 22 North, Easge 9 Fest, and Sections 11 and 12 in Township 22 North, Easge 10 West, constitute one complete drilling block for unit purposes.

This program has been discussed generally with the New Mexico Bil Conservation Commission, the Commissioner of Public Lands and the Delted State Geological Survey, and we believe it will meet with their approval. Before

Verking Interest Gwaers San Juan 28-9 Unit

March 11, 1968

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EL PASO NATURAL GAS COMPANY

W. Buttick

By:

T. W. Bittick Ass't. Manager Land Department

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## El Paso Natural Gas Company

El Paso, Texas March 11. 1986

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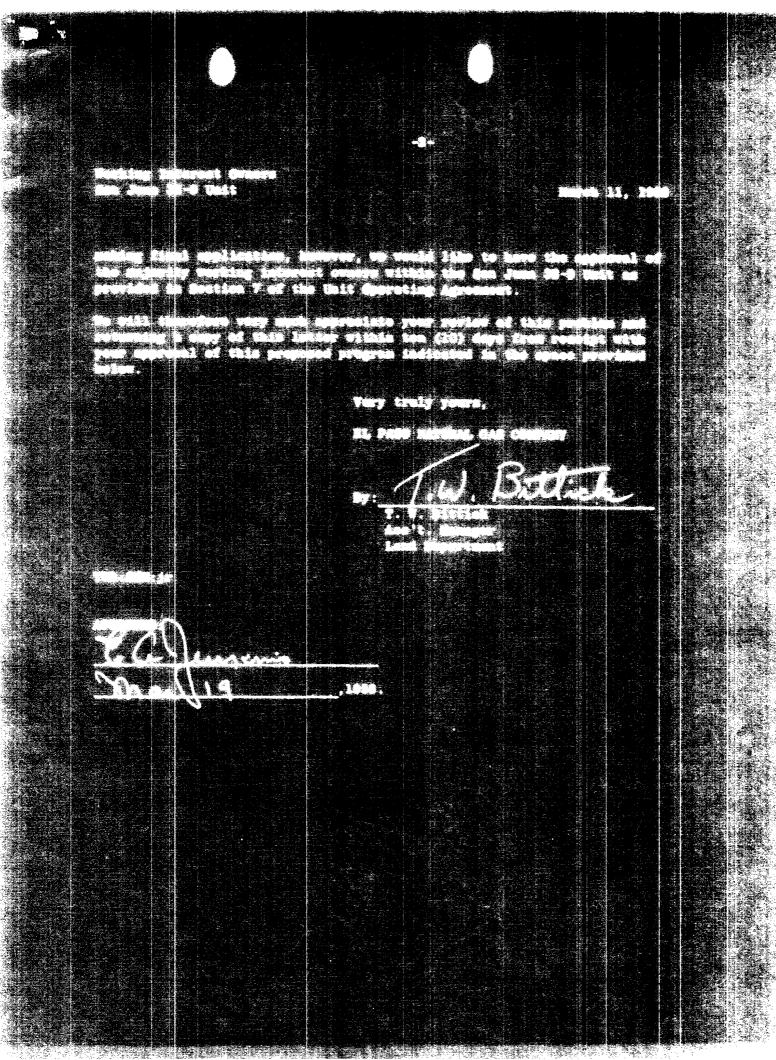
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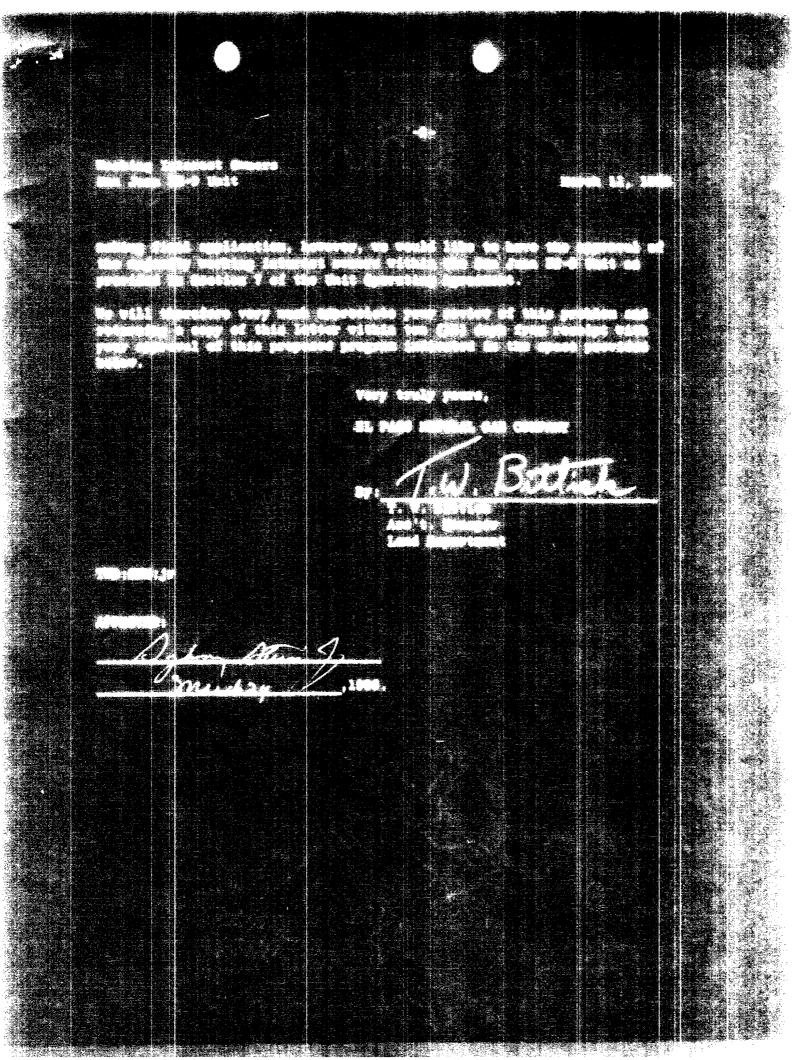
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## El Par Maharal Gas Company 81 Pm. 8-



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## El Paso Natural Gas Company

El Paso, Jexas March 11, 1958

#### WORKING INTEREST OWNERS OF THE SAN JUAN 32-9 UNIT:

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Working Interest Owners San Juan 32-9 Unit

March 11, 1956

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Very truly yours,

EL PASO NATURAL GAS COMPANY

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T. W. Bittick Ass't. Manager Land Department

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# El Paso Hatural Gas Company El Paso, Texas March 14, 1958

WORKING INTEREST OWNERS OF THE SAN JUAN 32-9 UNII

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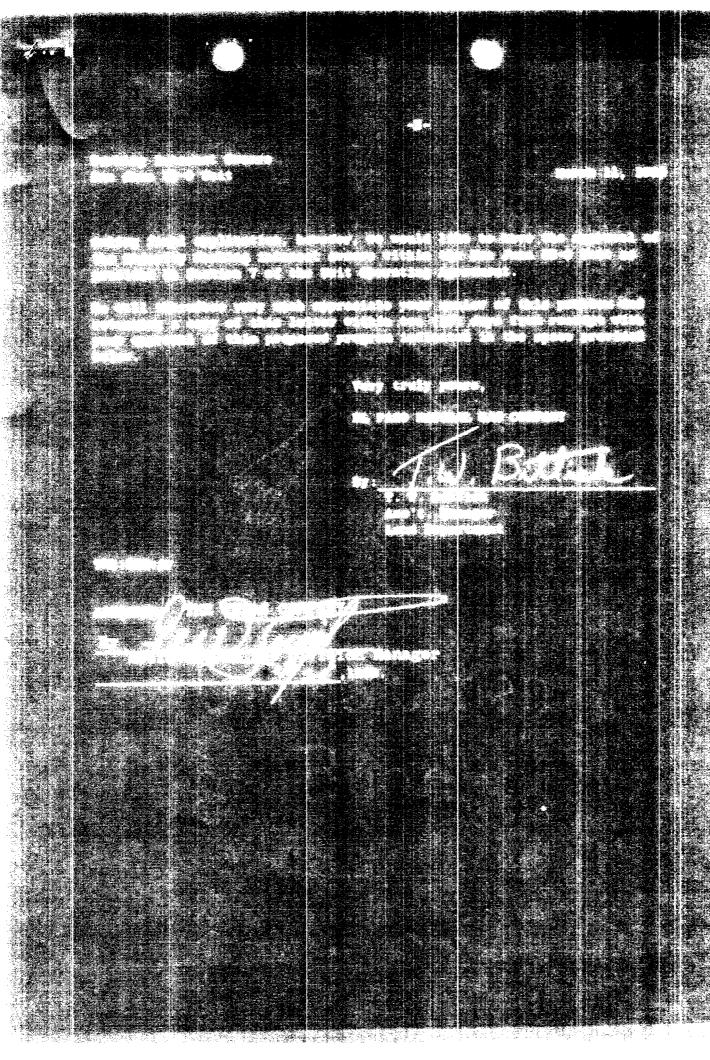
Township	32	North	n, I	Range	9	West
Section	7	28 î	45	Acr∉s	5	
Section	8	358	19	Acres	3	
Section	9	366	20	Acres	s	
Section	10	371	20	Acres	3	
Section	11	372	80	Arres	5	
Section	12	372	40	Acres	;	

Township 32 North Range 10 West Section 11 34, 50 A res Section 12 340 80 Acres

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## El Paso Natural Gas Company

El Paso, Jexas March 11, 1958

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-2 -

Working Interest Owners San Juan 32-9 Unit

March 11, 1958

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Very truly yours,

EL PASO NATURAL GAS COMPANY

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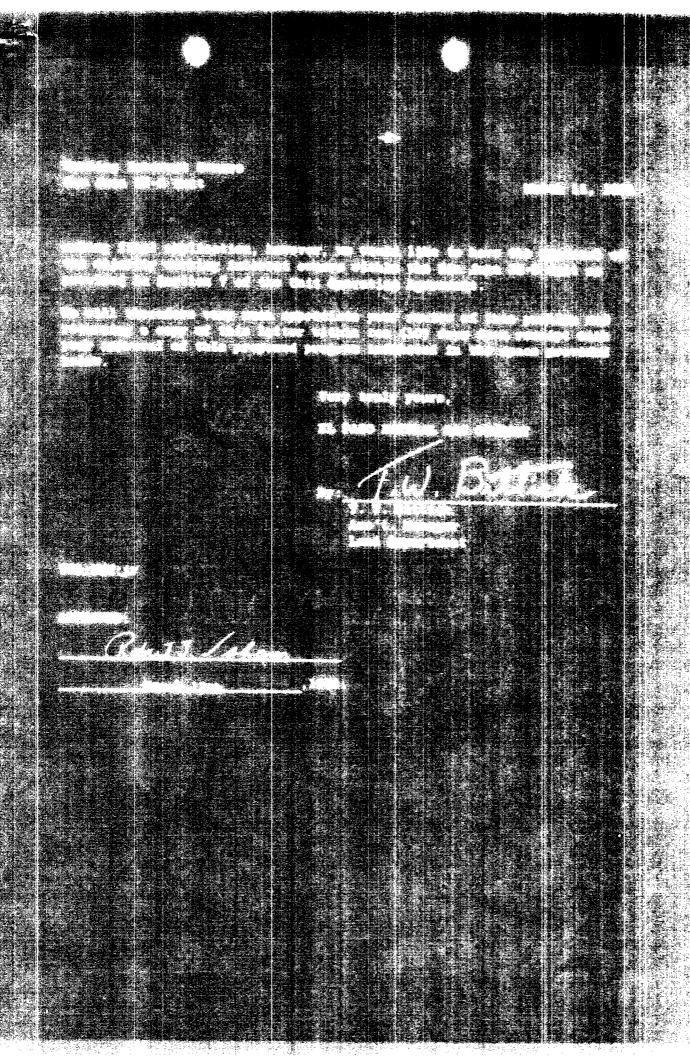
T. W. Bittick Ass't. Manager Land Department

TWB SHM Jr

APPROVED.

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# El Paso Nesteral Gas Company El Paso Gase 11, 1866



### El Paso Natural Gas Company El Paro, Forme March 11. 1956

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Township	32	North	ı F	Range 9	West
Section	7	28%	45	Acres	
Section	8	358	<u>i</u> 9	$A \to \epsilon \epsilon$	
Section	9	366	20	A: 725	
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EL PASO NATURAL GAS COMPANY

T W Bittick
Ass't Manager

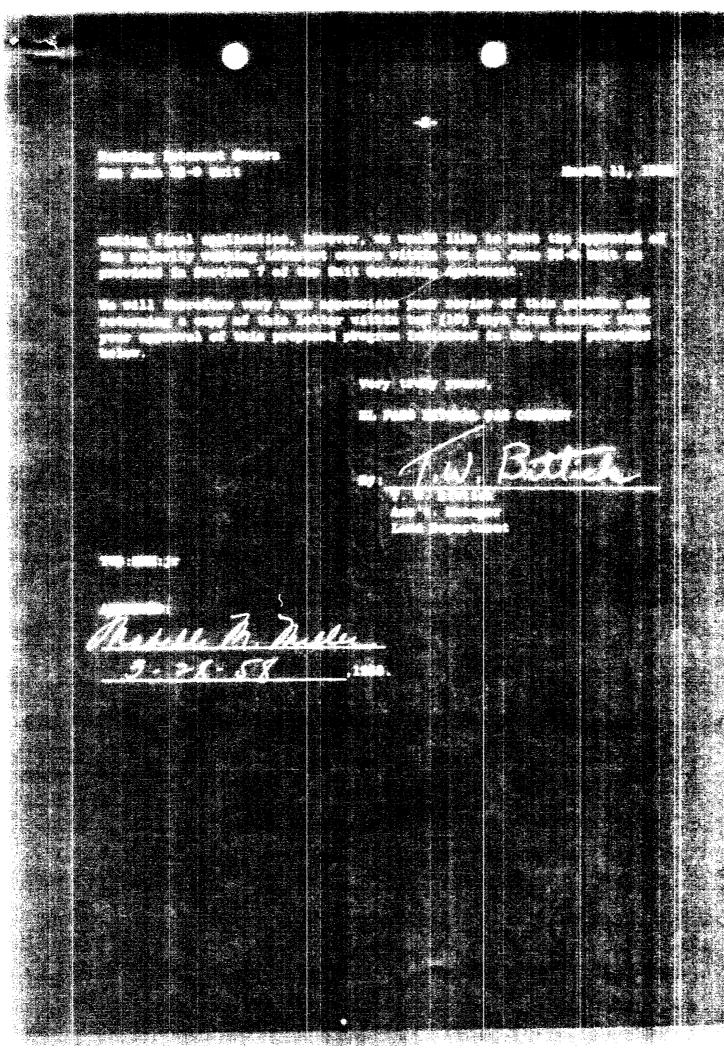
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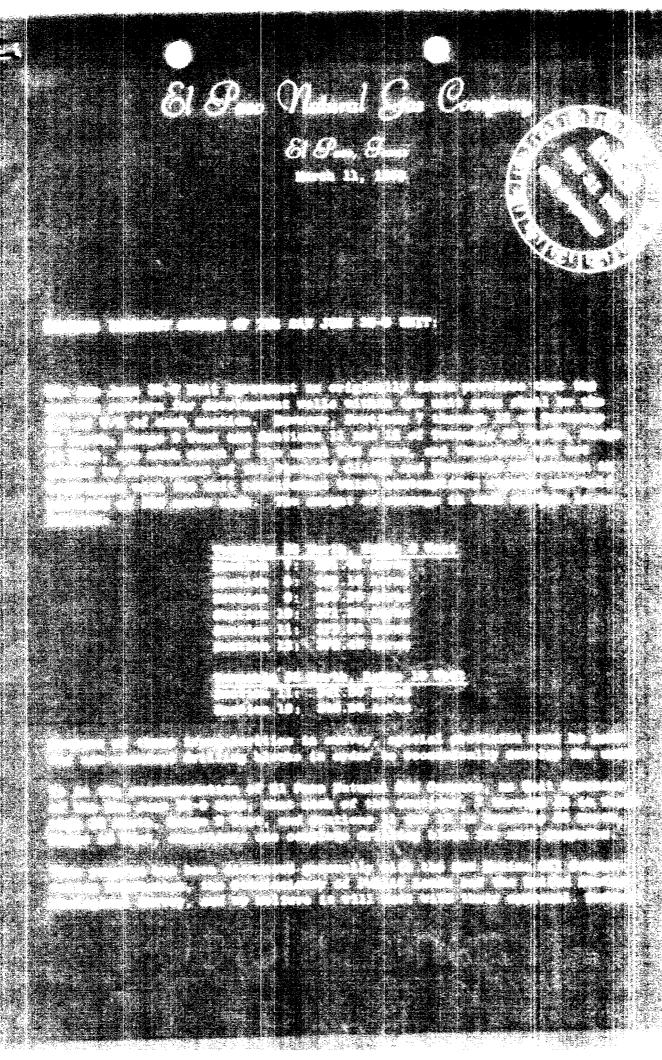
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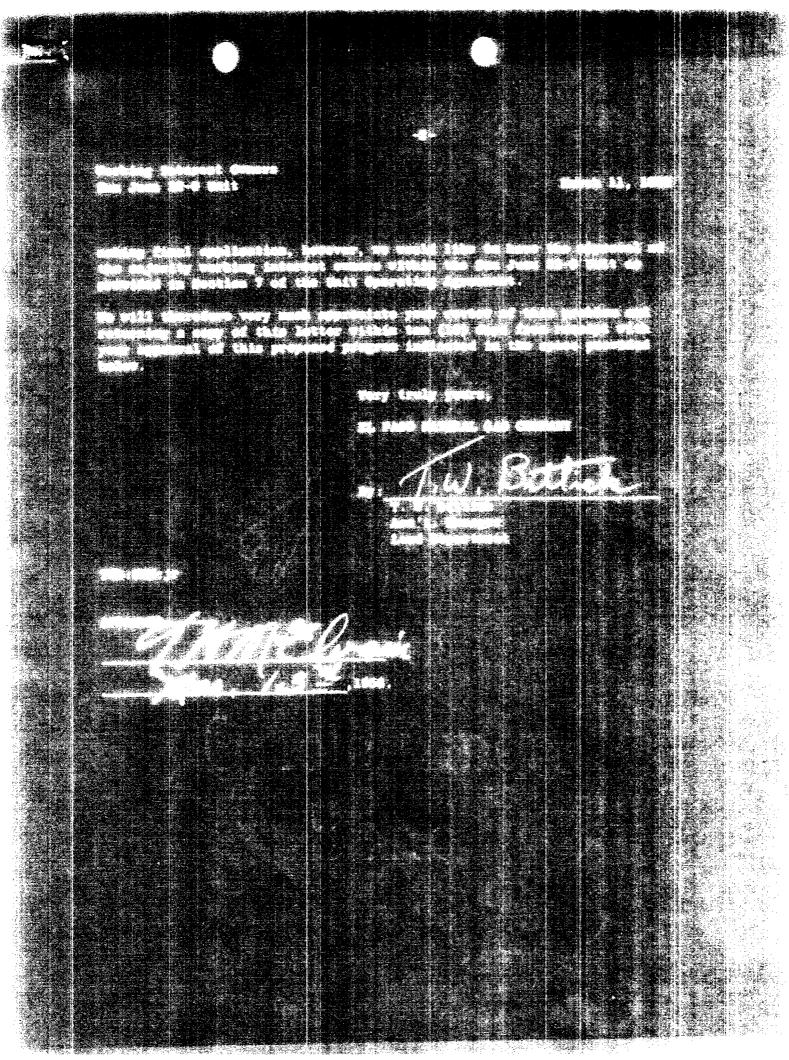
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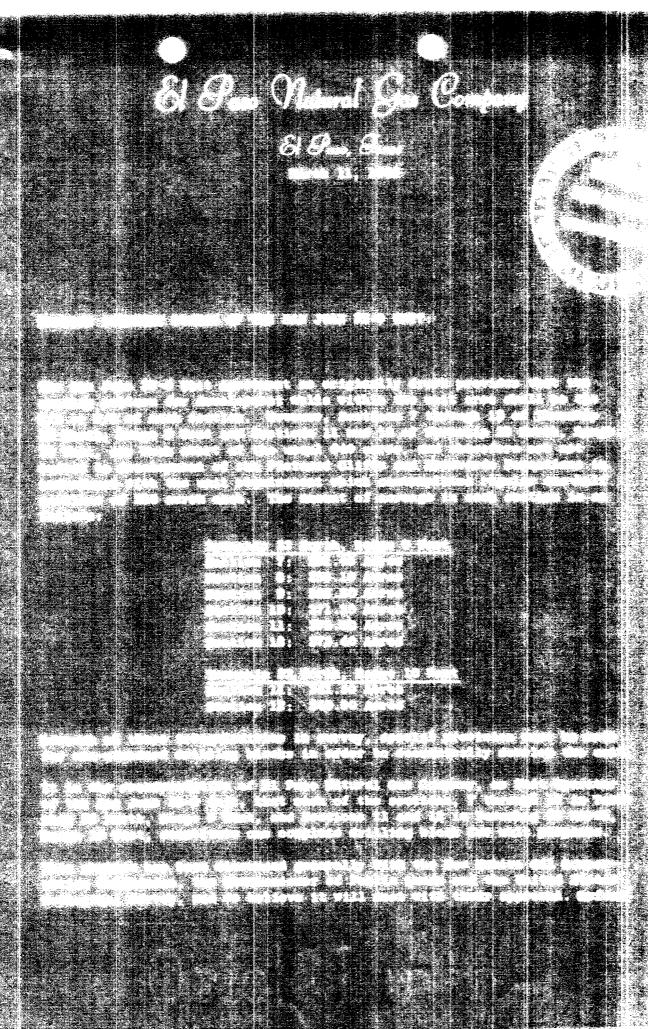
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Working Interest Owners San Juan 32-9 Unit

March 11, 1958

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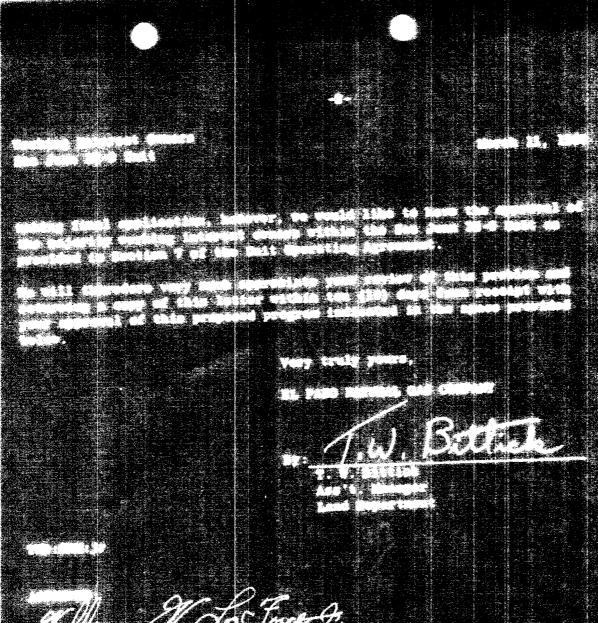
EL PASO NATURAL GAS COMPANY

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T W. Bittick Ass't Manager Land Department

TWB SHM jr

APPR <b>O</b> VED .		
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El Paso, Texas

March 11, 1958

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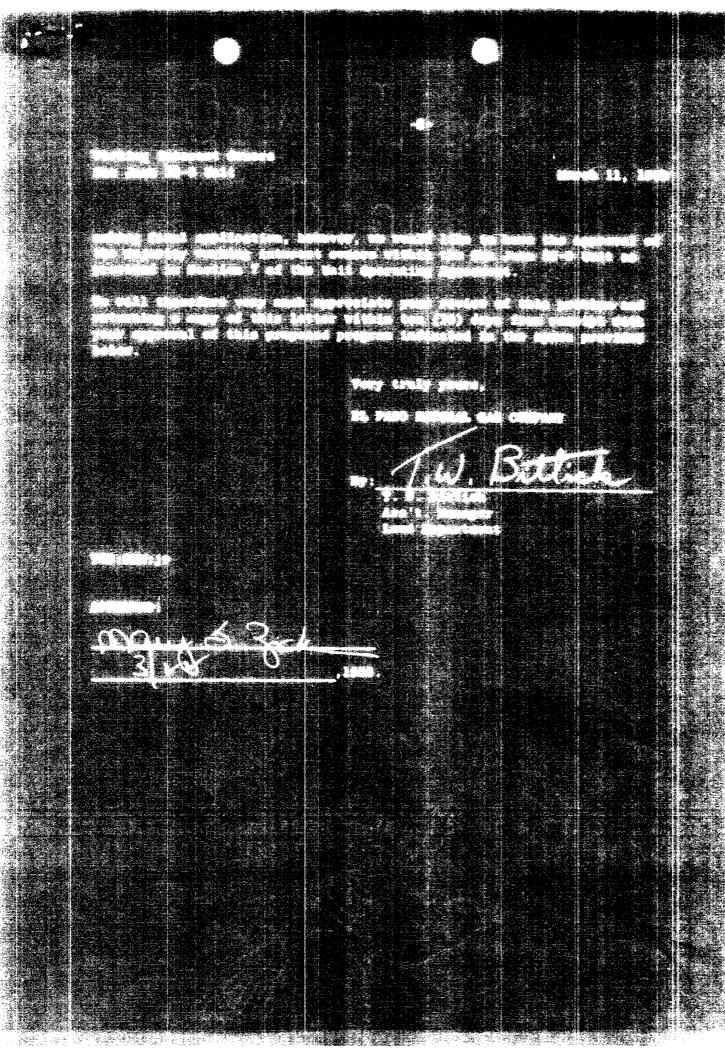
Township				West
Section	7	281.45	Acres	
Section	8 :	358.19	Acres	
Section	9 :	366.20	Acres	
Section	10:	371.20	Acres	
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Section	12	372.40	Acres	

Township 32 North, Range 10 West Section 11: 341.50 Acres Section 12: 340.80 Acres

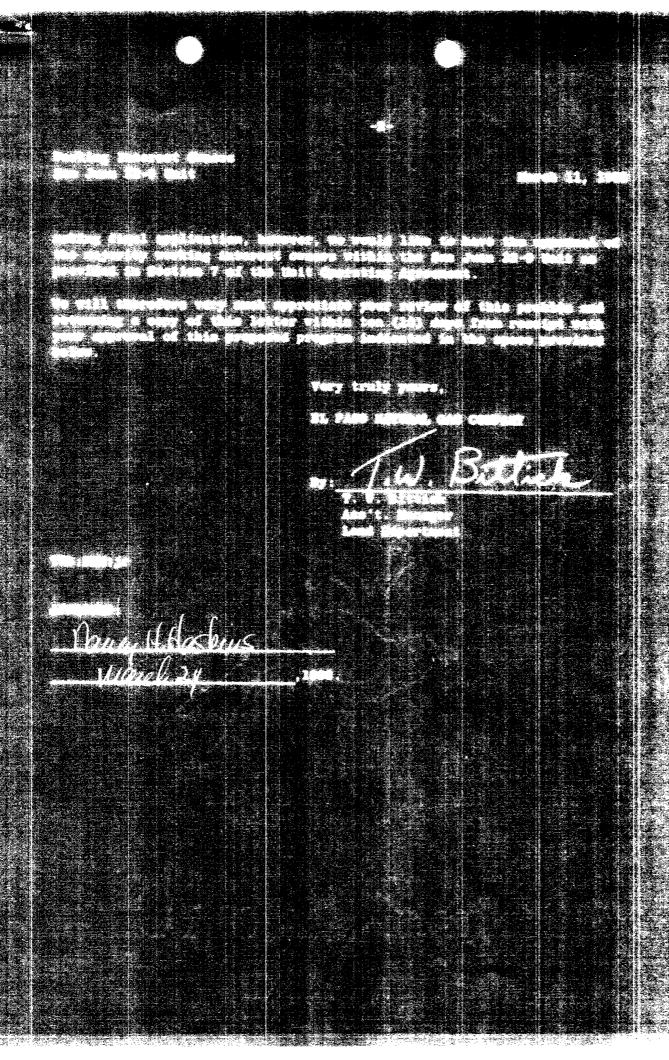
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El Paso, Texas March 11, 1959

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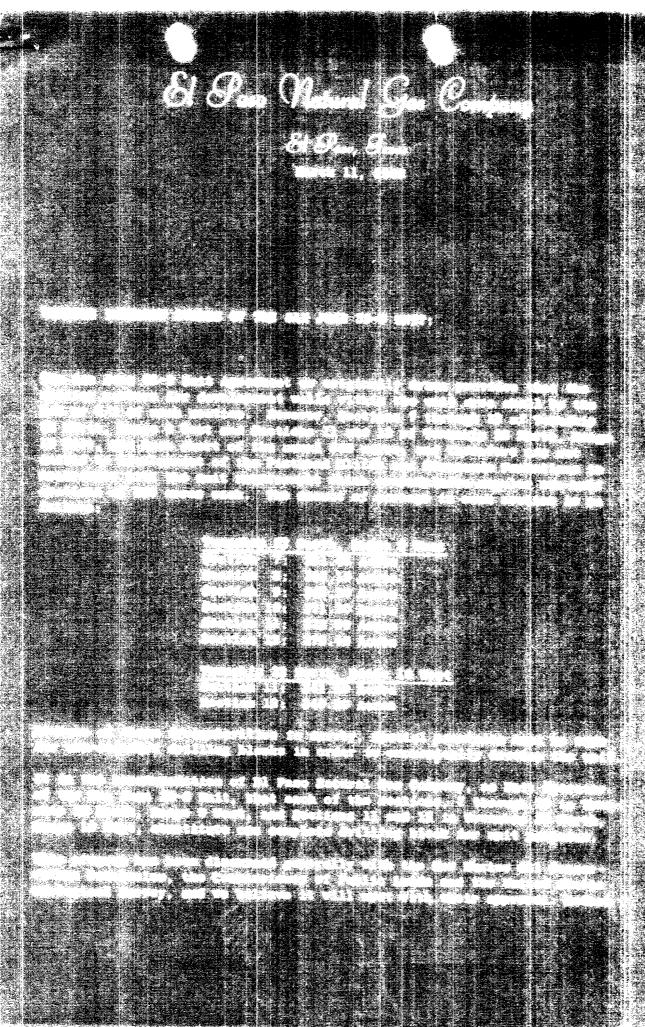
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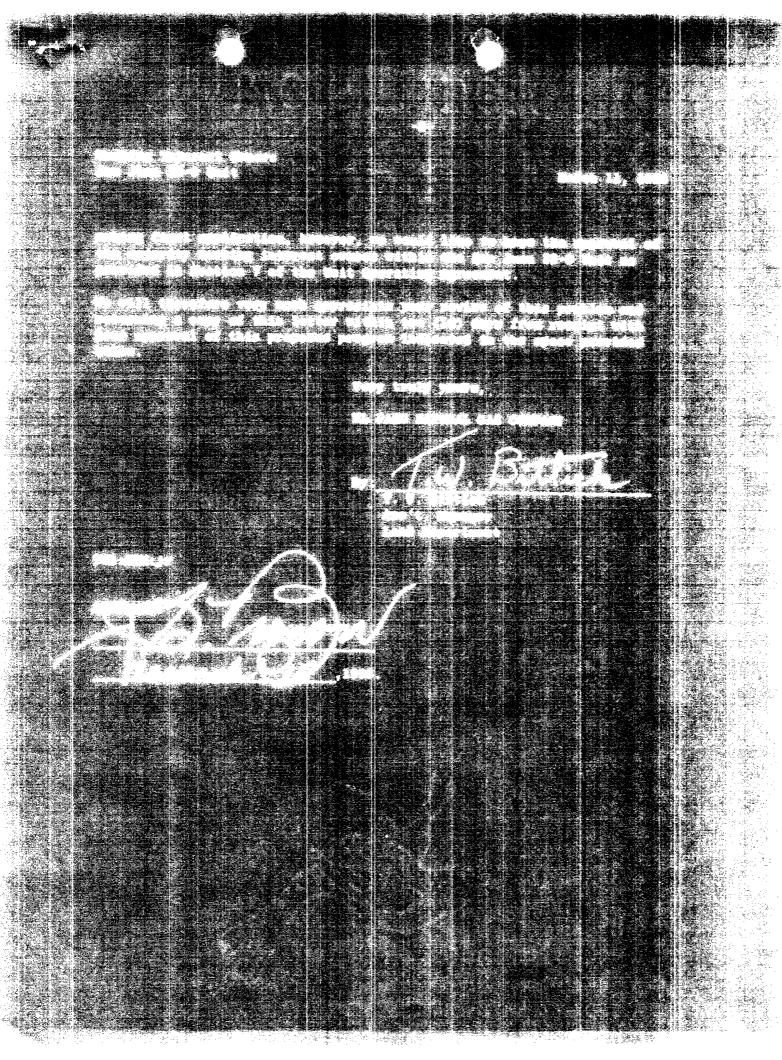
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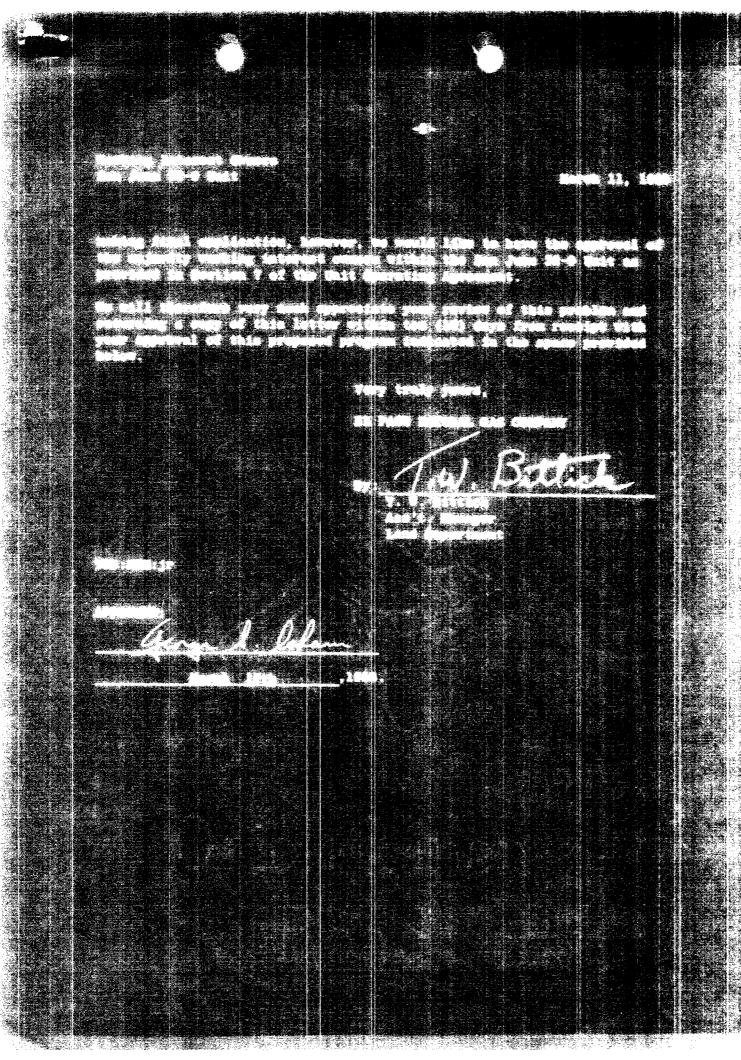
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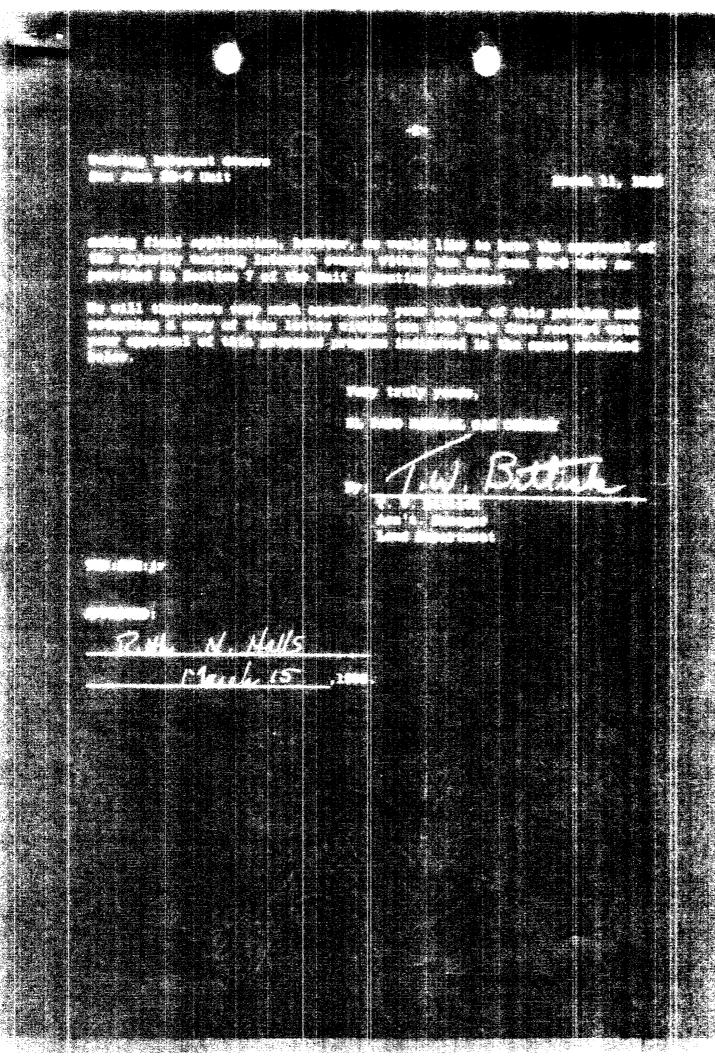




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# El Par Montal Gas Company El Par, Farm



El Paso, Texas

March 11, 1958

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Section 11: 341.50 Acres Section 12: 340.80 Acres

Because of these irregularities in survey, special provision must be made for non-standard drilling blocks in order to economically develop the unit.

It is the recommendation of El Paso Natural Gas Company, as Unit Operator of the San Juan 32-9 Unit, that each of the sections, 7 through 12 in Township 32 North, Range 9 West, and Sections 11 and 12 in Township 32 North, Range 10 West, constitute one complete drilling block for unit purposes.

This program has been discussed generally with the New Mexico Oil Conservation Commission, the Commissioner of Public Lands and the United States Geological Survey, and we believe it will meet with their approval. Before

-2-Working Interest Owners March 11, 1958 San Juan 32-9 Unit making final application, however, we would like to have the approval of the majority working interest owners within the San Juan 32-9 Unit as provided in Section 7 of the Unit Operating Agreement We will therefore very much appreciate your review of this problem and returning a copy of this letter within ten (10) days from receipt with your approval of this proposed program indicated in the space provided below Very truly yours, EL PASO NATURAL GAS COMPANY

Ass't Manager Land Department

TWB SHM IT

APPROVED:

Filro allas lago Filro allas lago Mar 11 1958

El Paso, Texas

March 1. 1958

#### WORKING INTEREST OWNERS OF THE SAN JUAN 32-9 UNII

The San Juan 32-9 Unit Agreement as originally drawn provides that the spacing pattern for development wells within the unit area shall be the E 2 or W 2 of each section. However, Sections 7 through 12 of Township 32 North, Range 9 West and Sections 11 and 12 of Township 32 North, Range 10 West, are much short of the usual 640 acres, and therefore are not suited to development of the Pictured Cliffs and Mesaverde Formations in accordance with the unit requirement which contemplates regular one-half sections of 320 acres each. The amount of acreage in each section is as tollows

Township	32	North	, I	≀ange	9 W	Vest
Section	7	281	45	Acres	;	
Section	8	358	ì 9	A∪res		
Section	9	366	20	Acres		
Section .	ΕΟ,	37:	20	Acres		
Section	11.	372	80	Acres		
Section	1.3	372	40	Acres		

Township 32 North, Range 10 West Section 1. 341.50 Acres
Section 12 340.80 Acres

Because of these irregularities in survey special provision must be made for non-standard drilling blocks in order to economically develop the unit.

It is the recommendation of El Pas. Natural Gas Company, as Unit Operator of the San Juan 32-9 Unit, that each of the sections, 7 through 12 in Township 32 North, Range 9 West, and Sections 11 and 12 in Township 32 North, Range 10 West, constitute one complete drolling black for unit purposes.

This program has been discussed generally with the New Mexico Oil Consertation Commission, the Commissioner of Public Lands and the United States Geological Survey, and we believe it will meet with their approval Before

Working Interest Owners San Juan 32-9 Unit

March 11, 1958

making final application, however, we would like to have the approval of the majority working interest owners within the San Juan 32-9 Unit as provided in Section 7 of the Unit Operating Agreement.

We will therefore very much appreciate your review of this problem and returning a copy of this letter within ten (10) days from receipt with your approval of this proposed program indicated in the space provided below

Very truly yours,

EL PASO NATURAL GAS COMPANY

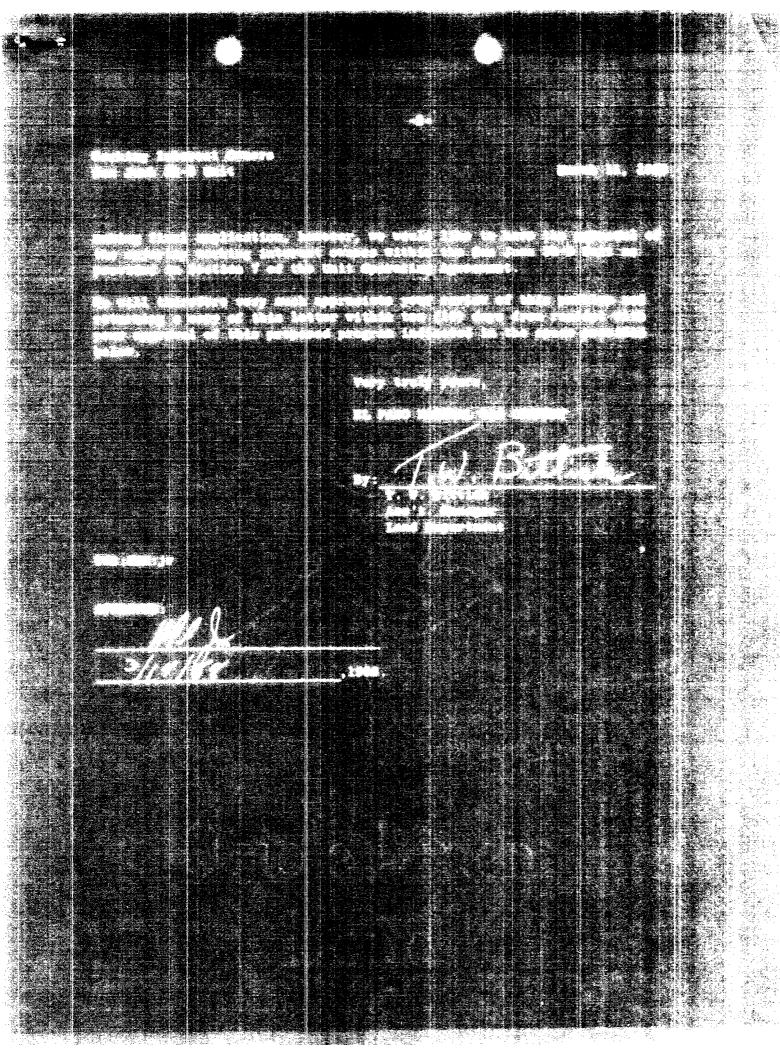
Ass't Manager Land Department

TWB:SHM jr

APPROVED:

Brookfaven ail to by show B Scott

# El Par (Valor), La Éculo de Santo de Sa



El Paso, Texas

February 27, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell. New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico TWENTY-FOURTH EXPANDED PARTICIPATING AREA Mesaverde Formation Effective January 1, 1958

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

> The San Juan 32-9 Unit #54-14 Well is located 1150' from the South line and 1120' from the West line of Section 14, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on November 11, 1957, and completed on November 30,1957 at a total depth of 6246'. The Mesaverde Formation between 5748' - 5756', 5842' - 5846', 5864' - 5972', 5976' -5984', 6050' - 6074', 6080' - 6086', 6088' - 6094', 6096' -6100', 6106' - 6126', 6130' - 6146', 6152' - 6164', 6194' -6198', 6200' - 6204', 6228' - 6238' was treated with a sandwater fracturing process. After being shut-in for gauge for nine (9) days the well was tested on December 9, 1957, and following a three (3) hour blow-down period gauged 2622 MCFGPD through a 3/4" choke and 3483 MCFGPD by the calculated absolute open flow method with an SIPC of 1052# and an SIPT of 947#. The

committed drilling block upon which this well is located is described as the W/2 of Section 14, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on December 9, 1957.

The inclusion of the above described well into the participating area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XXV showing the Twenty-Fourth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval no provision is made therefor, and in the absence of disapproval, this Twenty-Fourth Expanded Participating Area will become effective as of January 1, 1958.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T W Dittiok

Assistant Manager Land Department

TWB:SHM:pc Enclosure

cc: Attached List

San Juan 32-9 Unit Working Interest Owners

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. W. J. Stewart The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1, Texas

Petro-Atlas Corporation First National Building Tulsa 3, Oklahoma

Petro-Atlas Corporation Post Office Box 517 Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Bldg. Dallas 1, Texas

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 314 Milam Building San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

(CONTINUED)

Page 2 San Juan 32-9 Unit Working Interest Owners

Sterling Morton 110 North Wacker Drive Chicago 6, Illinois

Mr. Roy E. Bard 208 South La Salle Street Room 510 Chicago 4, Illinois

Ralph A. Bard 208 South La Salle Street Room 504 Chicago 4, Illinois

Cortland T. Hill 606 South Hills Street Los Angeles, California

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Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

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Suzette M. Zurcher 110 North Wacker Drive Chicago 6, Illinois Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas

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Donald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

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Nancy H. Haskins 1318 Judson Avenue Evanston, Illinois

James Simpson, Jr. 111 West Washington Street Chicago 2, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

(CONTINUED)

Page 3 San Juan 32-9 Unit Working Interest Owners

Margaret S. MacDonald c/o Trust Department, Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

John M. Simpson 111 West Washington Street Chicago 2, Illinois

Frederic F. Webster 111 West Washington Street Chicago 2, Illinois

John Stuart 345 Merchandise Mart Chicago 54, Illinois

Jay C. Halls 1 North La Salle Street Chicago 2, Illinois

Catherine M. Ruml
1 North La Salle Street
Chicago 2, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

William P. Sutter 1 North La Salle Street Chicago 2, Illinois

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Suzanne LaForce Baber 217 South Lassen Street Willows, California

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Nora R. Ranney RFD Casey Road Libertyville, Illinois

Eleanor Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones
Post Office Box 1637
Midland, Texas

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas

1 FT ... TO 2.12

In reply refer to: Unit Division

February 10, 1958

El Paso Hatural Gas Company P. O. Box 1492 El Paso, Texas

Re: San Juan 32-9 Unit

Third Supplemental 1957

DRILLING PROGRAM

Attention: Mr. T. W. Bittick

Gentlemen:

We are enclosing the Third Supplemental 1957 Drilling Program for the San Juan 32-9 Unit, which was approved by the Commissioner of Public Lands February 10, 1958.

Very truly yours,

MURRAY'E. MORGAH, Commissioner of Public Lands

By:

Ted Bilberry, Supervisor Oil and Gas Division

HEM/HOR/s

cc:

Oil Conservation Commission Santa Fe, New Mexico

United States Geological Survey Roswell, Hew Mexico



#### **UNITED STATES** DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

OND 1 0 2:23 Normall, New Marrico

P. O. Box 6721

February 6, 1958

El Pase Matural Gas Company

7. 0. Box 1402

11 Pess, Tenes

#### Goot lemen:

The Third Supplemental Flan of Development for 1957, dated January 27, 1958, for the San Juan 32-9 unit area, No. 14-08-001-569. San Juan County, New Muxico, has been approved today subject to like approval by the appropriate State officials. The Third Supplemental Fian proposes the drilling of one additional well to the Meseverde Sermation during 1957.

Two approved copies of said plan are enclosed.

Very truly years,

JAMES A. KMANT Acting Oil and Gas Supervisor

Copy to: Machingto a (w/copy of plan) Farmington (w/copy of plan) , MOSC, Santa Pe (Letter enly) January 27, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
THIRD SUPPLEMENTAL 1957 DRILLING PROGRAM

#### Gentlemen:

By letter dated December 28, 1956, El Paso Natural Gas Company, as Unit Operator, filed its 1957 Drilling Program for the above captioned unit, providing for the drilling of six (6) wells in the Mesaverde Formation between the dates of January 1, 1957, and December 31, 1957. The 1957 Drilling Program was approved by the United States Geological Survey on February 4, 1957, the Commissioner of Public Lands of the State of New Mexico on January 7, 1957, and the Oil Conservation Commission of the State of New Mexico on February 28, 1957.

By letters dated July 16, 1957, and October 31, 1957, El Paso Natural Gas Company, as Unit Operator, filed Supplemental Drilling Programs for the captioned unit, each providing for the drilling of one (1) additional well, said wells to be completed in the Mesaverde Formation, and located in the W/2 of Section 12, Township 32 North, Range 10 West, and the W/2 of Section 14, Township 32 North, Range 9 West, respectively.

The Supplemental 1957 Drilling Program dated July 16, 1957, was approved by the United States Geological Survey on July 17, 1957, by the Commissioner of Public Lands of the State of New Mexico on July 22, 1957, and by the Oil Conservation Commission of the State of New Mexico on August 26, 1957.

The Supplemental 1957 Drilling Program dated October 31, 1957, was approved by the United States Geological Survey on November 14, 1957, by the Commissioner of Public Lands of the State of New Mexico on November 13, 1957, and by the Oil Conservation Commission of the State of New Mexico on November 21, 1957.

Pacific Northwest Pipeline Corporation, as sole working interest owner on the following described drilling block, is now desirous of drilling one (1) additional well. El Paso Natural Gas Company, as Unit Operator, hereby consents to the drilling of said well. The well is to be drilled to the Mesaverde Formation on a Mesaverde drilling block, as hereinafter set forth. Therefore, pursuant to Section 10 of the above mentioned Unit Agreement, herewith submitted is the Proposed Third Supplemental Drilling Program for the balance of the calendar year 1957, providing for the drilling of the following well:

#### DRILLING BLOCK

#### FORMATION

W/2 Section 13, T 32N, R 9W

Mesaverde

Pacific Northwest Pipeline Corporation, as sole working interest owner of the stated drilling block intends to drill said well employing the same drilling and completion methods as used by El Paso Natural Gas Company, as set out in the San Juan 32-9 Unit 1957 Drilling Program, dated December 28, 1957.

If this Third Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet, and return an approved copy to El Paso Natural Gas Company.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Assistant Manager

Land Department

TWB:SHM:cl

cc: Attached list

APPROVED	DATE:
	Supervisor, United States Geological Survey
	Subject to like approval by the appropriate State officials.
APPROVED	DATE:
	Commissioner of Public Lands
	Subject to like approval by the United States Geological Survey and the
	Oil Conservation Commission.
APPROVED	1. Uh. Parter 1 DATE: 3/28/58
	Oil Conservation Commission/
	Subject to like approval by the United States Geological Survey and the
	Commissioner of Public Lands.

The foregoing approvals are for the Third Supplemental 1957 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico.

#### San Juan 32-9 Unit - Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Petro-Atlas Corporation First National Building Tulsa 3. Oklahoma

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

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Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

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Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

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Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Wood River Oil and Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

Sterling Morton 120 South La Salle Street Chicago, Illinois

(Continued)

(Continued)

Page 2 San Juan 32-9 Unit Working Interest Owners

Mr. Roy E. Bard 208 South La Salle Street, Room 510 Chicago 4, Illinois

Ralph A. Bard 208 South La Salle Street, Room 504 Chicago 4, Illinois

Cortland T. Hill 606 South Hills Street Los Angeles, California

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Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

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James Simpson, Jr.
111 West Washington Street
Chicago 2, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

John M. Simpson 111 West Washington Street Chicago 2, Illinois (continued)

Frederic F. Webster 111 West Washington Street

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Suzanne La Force Baber 217 South Lassen Street Willows, California

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas

### El Paso Natural Gas Company

El Paso, Texas

January 20, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

1958 Drilling Program

#### Gentlemen:

By letter dated December 28, 1956, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1957. Said Program and Supplements thereto provided for the drilling of eight (8) Mesaverde wells. All eight (8) wells have been completed upon lands committed to the Unit, and have been admitted or are in the process of being admitted to the Participating Area.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Mesaverde (Commercial) 51 Mesaverde (Non-Commercial) 4

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is herewith submitting this Drilling Program providing for the drilling of the following described wells during the period from January 1, 1958 to December 31, 1958:

Drilling	Block	Formation
W/2 Section 2,	T-31-N, R-9-W	Mesaverde
E/2 Section 2,	T-31-N, R-9-W	Mesaverde
E/2 Section 9,	T-31-N, R-9-W	Mesaverde
E/2 Section 14,	T-32-N, R-10-W	Mesaverde
E/2 Section 16,	T-32-N, R-9-W	Mesaverde
W/2 Section 19,	T-32-N, $R-9-W$	Mesaverde
E/2 Section 28,	T-32-N, R-9-W	Mesaverde
W/2 Section 36,	T-32-N, R-9-W	Mesaverde
E/2 Section 36,	T-32-N, R-9-W	Mesaverde

In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, also plans to drill any off-set wells required to prevent drainage of unitized substances, and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde wells to the base of the Mesaverde Formation using rotary tools. Surface casing of  $10\ 3/4$ " will be set to approximately 150' below the surface and an intermediate string of  $7\ 5/8$ " will be set through the Pictured Cliffs Formation to a depth of approximately 3200'. A  $5\ 1/2$ " production string will be set through the Mesaverde Formation, and the casing of the Mesaverde Formation will then be selectively perforated and the Mesaverde will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

All of the Working Interest Owners have been notified and this Drilling Program reflects, insofar as possible, their requests for additional drilling.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet, and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Manager

Land Department

SS:SHM:pc

cc: Attached List

APPROVED:		DATE:
•	Supervisor, United States Geological Survey	
	Subject to like approval by the appropriate	•
	State officials.	
APPROVED:		DATE:
•	Commissioner of Public Lands	
	Subject to like approval by the United States	
	Geological Survey and the Oil Conservation	
	Commission.	
APPROVED:	Af Peta 1	DATE: 4-14-18
ALTIOVED.	Oil Conservation Commission	- JAII. 27-7- V
	Subject to like approval by the United States	
	Geological Survey and the Commissioner of	
	deorogreat partel and the commissioner or	

The foregoing approvals are for the 1958 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico.

Public Lands.

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1. Texas

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Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

#### San Juan 32-9 Unit Working Interest Owners

Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

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Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

(CONTINUED)

(Continued)

Page 2 Working Interest Owners San Juan 32-9 Unit

Mr. Roy E. Bard 208 South La Salle Street, Room 510 Chicago 4, Illinois

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Mary S. Zick 436 Glendale Winnetka, Illinois

William P. Sutter 1 North La Salle Street Chicago 2, Illinois

Trust No. 1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle Street Room 3710 Chicago 3, Illinois

Suzanne LaForce Baber 217 South Lassen Street Willows, California

City National Bank & Trust Company Trustee of Trust No. 23935 208 South La Salle Street Chicago 4, Illinois Page 3
San Juan 32-9 Unit
Working Interest Owners

R. Neson Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Nora R. Ranney RFD Casey Road Libertyville, Illinois

Eleanor Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones
Post Office Box 1637
Midland, Texas

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas El Paso Natural Gas Company
El Paso, Texas January 16, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit Area #14-08-001-569 San Juan County, New Mexico Notice of Approval of 1957 Drilling Program

#### Gentlemen:

Please be advised that the Supplemental 1957 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, has been approved by the Federal and State Regulatory Bodies as follows:

- 1. Commissioner of Public Lands of the State of New Mexico, on November 13, 1957.
- 2. Oil Conservation Commission of the State of New Mexico, on November 21, 1957.
- 3.. The United States Geological Survey on November 14, 1957.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Area Landman

Land Department

HG:SHM:cl

cc: Attached list

#### San Juan 32-9 Unit - Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey (2) Mr. M. A. Ehrlich (1) Pacific Northwest Pipeline Corporation Post Office Box 1526 Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1. Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Petro-Atlas Corporation First National Building Tulsa 3. Oklahoma

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1, Texas

Mr. H. L. Snider, Jr. Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Petro-Atlas Corporation Post Office Box 517 Albuquerque, New Mexico

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Wood River Oil and Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

Sterling Morton 120 South La Salle Street Chicago, Illinois

(Continued)

(Continued)

Page 2 San Juan 32-9 Unit Working Interest Owners

Mr. Roy E. Bard 208 South La Salle Street, Room 510 Chicago 4, Illinois

Ralph A. Bard 208 South La Salle Street, Room 504 Chicago 4, Illinois

Cortland T. Hill 606 South Hills Street Los Angeles, California

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1, Minnesota

Donald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

Lewis W. Hill, Jr. W. 1453 First National Bank Building St. Paul 1, Minnesota

Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

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Albert L. Hopkins, Jr. 12 Robinson Street Cambridge 38, Massachusetts

R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Ruth N.Halls 460 El Cielito Road Santa Barbara, California

Suzette M. Zurcher 955 North Lake Road Lake Forrest, Illinois

Margaret S. MacDonald c/o Trust Department, Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

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James Simpson, Jr.
111 West Washington Street
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Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

John M. Simpson 111 West Washington Street Chicago 2, Illinois (continued)

Page 3 San Juan 32-9 Unit Working Interest Owners

Frederic F. Webster 111 West Washington Street Chicago 2, Illinois

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G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas

## El Paso Natural Gas Company

El Paso, Texas

December 9, 1957

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe. New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

TWENTY-THIRD EXPANDED PARTICIPATING AREA

Mesaverde Formation

Effective November 1, 1957

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that two (2) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells as follows:

1. The San Juan 32-9 Unit #55 Well is located 1498' from the South line and 1800' from the West line of Section 11, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on June 18, 1957, and completed on September 23, 1957 at a total depth of 5900'. The Mesaverde Formation between 5284' - 5298', 5362' - 5378', 5446' - 5464', 5590' - 5604', 5712' - 5732', 5764' - 5810', 5844' -5856' was treated with a sand-water fracturing process. After being shut-in for gauge for eight (8) days, the well was tested on October 1, 1957, and following a three (3) hour blow-down period gauged 2416 MCFGPD through a 3/4" choke, and 3083 MCFGPD by the calculated absolute open-flow method with an SIPC of 988# and an SIPT of 869#. The committed drilling block upon which this well is located is described as the S/2 or All of Section 11, Township 32 North, Range 10 West, N.M.P.M., and consists of 347.50 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on October 1, 1957.

2. The San Juan 32-9 Unit #56 Well is located 1550' from the South line and 1600' from the West line of Section 12, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on June 17, 1957, and completed on October 14, 1957, at a total depth of 6078'. The Mesaverde Formation between 5770' - 5780', 5808' - 5838', 5896' - 5924', 5946' - 5978', 5976' - 5992' was treated with a sand-water fracturing process. After being shut-in for gauge for eighteen (18) days, the well was tested on October 31, 1957, and following a three (3) hour blow down period gauged 2433 MCFGPD through a 3/4" choke, and 3320 MCFGPD by the calculated absolute open-flow method with an SIPC of 960# and an SIPT of 960#. The committed drilling block upon which this well is located is described as the S/2 or All of Section 12, Township 32 North, Range 10 West, N.M.P.M., and consists of 346.80 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on October 31, 1957.

The completion of the San Juan 32-9 Unit #55 Well creates one (1) intervening drilling block. This intervening drilling block is described as the E/2 of Section 14, Township 32 North, Range 10 West, N.M.P.M. and consists of 320.00 acres.

Under the terms of the San Juan 32-9 Unit Agreement, the above described drilling block is admitted to the Mesaverde Participating Area as of November 1, 1957. A well must be commenced on this intervening drilling block by November 1, 1958.

Attached is Schedule XXIV showing the Twenty-Third Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Third Expanded Participating Area will become effective as of November 1, 1957.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

y\_\_\_\_\_

Assistant Manager

Land Department

TWB:SHM:cl Enclosure

cc: Attached list

# OIL CONSERVATION COMMISSIUN P. O. BOX 871 SANTA FE, NEW MEXICO

November 26, 1957

jula il 1

El Paso Natural Gas Company Box 1492 El Paso, Texas

#### Attention: Mr. T. W. Bittick

Re: San Juan 32-9 Unit

San Juan County, N. Mex. Supplemental 1957 Drilling Program

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental 1957 Drilling Program for the above captioned unit area, dated October 31, 1957, subject to like approval by the U. S. Geological Survey and by the Commissioner of Public Lands of the State of New Mexico. One approved copy of the drilling program is returned herewith.

Very truly yours,

A. L. PORTER, JR. Secretary-Director

DSN: omg

cc: U. S. Geological Survey - Roewell Commissioner of Public Lands - Sants Fe

# El Paso Natural Gas Company

El Paso, Texas

November 18, 1957

Mr. John A. Anderson Regional Oil & Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
TWENTY-SECOND EXPANDED PARTICIPATING
AREA, Mesaverde Formation
Effective October 1, 1957

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that two (2) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells as follows:

1. The San Juan 32-9 Unit #48 Well is located 1750' from the South line and 1650' from the West line of Section 14, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on June 26, 1957, and completed on September 1, 1957, at a total depth of 6039'. The Mesaverde Formation between 5610'-5630', 5686' - 5698', 5722' - 5748', 5784' - 5800', 5808' - 5828', 5834' - 5844', 5870' - 5886' was treated with a sand-water fracturing process. After being shut-in for gauge for twelve (12) days the well was tested on September 13, 1957, and following a three (3) hour blow-down period gauged 3018 MCFGPD through a 3/4" choke, and 4874 MCFGPD by the calculated absolute open flow method with an SIPC of 921# and an SIPT of 921#. The committed drilling block upon which this well is located is described as the W/2 of Section 14, Township 32 North, Range 10 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on September 13, 1957.

The San Juan 32-9 Unit #53-27 Well is located 790' from the South line and 820' from the West line of Section 27, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on August 5, 1957, and completed on September 16, 1957, at a total depth of 6255'. The Mesaverde Formation between 5672' - 5676', 5679' - 5683', 5688' - 5692', 5732' - 5736', 5746' - 5750', 5762'- 5768', 5774' - 5778', 5902' - 5908', 5914' - 5926', 5936' - 5940', 6014' - 6018', 6022' - 6032', 6034' - 6066', 6072' - 6078', 6082'-6086', 6094' - 6100', 6104' - 6108', 6138' - 6144', 6148' - 6150', 6158' - 6162', 6170' - 6174', 6204' - 6212', 6222' - 6224', 6230'-6234' was treated with a sand-water fracturing process. After being shut-in for gauge for seven (7) days the well was tested on September 30, 1957, and following a three (3) hour blow down period gauged 2681 MCFGPD through a 3/4" choke, and 2818 MCFGPD by the calculated absolute open flow method with an SIPC of 1010# and an SIPT of 977#. The committed drilling block upon which this well is located is described as the W/2 of Section 27, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on September 30, 1957.

The inclusion of the above described wells into the participating area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XXIII showing the Twenty-Second Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Second Expanded Participating Area will become effective as of October 1, 1957.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T. W. Bittick

Assistant Manager Land Department

TWB:SHM:pc Enclosure

cc: Attached List

### UNITED STATES

### OFFI DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. U. son Minico

448

Movember 14, 1957

El Paso Matural Gas Company

P. O. Box 1492

El Peso, Temas

Attention: Mr. T. W. Bittick

Gent lenen:

Your supplemental plan of development dated October 31, 1957, for the Sen Juan 32-9 Unit Area, New Maxies, for the calendar year 1957, has been approved on this date subject to like approval by the appropriate State of New Mexico officials. The amended plan provides for the drilling of one additional Moseverde well, making a total of eight wells to be drilled to the Meseverds formation during the calendar year 1957.

Two approved copies of the plan am enclosed.

Very truly yours.

JAMES A. EMADY Acting Oil and Gas Supervisor

Enc leaure

Copy to: Machington (w/copy of plan) Farmington (w/copy of plan)

Com. of Public Lands, Sents Fe (letter only)

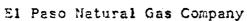
Oil Cons. Com., Santa Fe (letter only)

120107 1. A 9:32

November 13, 1957

CC52

In reply refer to: Unit Division



P. O. Box 1492

El Paso, Texas

Re: San Juan 32-9 Unit -Supplemental Drilling Program 1957

Gentlemen:

We are enclosing one copy of your Supplemental Drilling Program for 1957, covering the V/2 of Section 14-32N-9W. This was approved by the Commissioner of Public Lands November 13, 1957.

Very truly yours,

MURRAY E. MCRGAN
Commissioner of Public Lands

By: Ted Bilberry, Supervisor Oil and Gas Department

MEA:MMR/m Encl.

cc: OCC-Santa Fe USGS-Roswell 900

El Paso Natural Gas Company File Con El Paso, Texas

October 31, 1957

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, No.14-08-001-569

San Juan County, New Mexico

SUPPLEMENTAL 1957 DRILLING PROGRAM

#### Gentlemen:

By letter of December 28, 1956, El Paso Natural Gas Company, as Unit Operator, filed its 1957 Drilling Program for the captioned Unit, providing for the drilling of six (6) wells between the dates of January 1, 1957 and December 31, 1957. All of said wells were to be drilled to the Mesaverde Formation.

The 1957 Drilling Program was approved by the United States Geological Survey on February 4, 1957; by the Commissioner of Public Lands of the State of New Mexico on January 7, 1957; and by the Oil Conservation Commission of the State of New Mexico on February 28, 1957.

Pacific Northwest Pipeline Corporation, as sole Working Interest Owner on the following described drilling block, is now desirous of drilling one (1) additional well. El Paso Natural Gas Company, as Unit Operator, hereby consents to the drilling of said well. The well is to be drilled to the Mesaverde Formation on a Mesaverde drilling block as hereinafter set forth. Therefore, pursuant to Section 10 of the above mentioned Unit Agreement, herewith submitted is a Proposed Supplemental Drilling Program for the balance of the calendar year of 1957, providing for the drilling of the following described well:

DRILLING BLOCK
W/2 Section 14, T-32-N, R-9-W

FORMATION Mesaverde Pacific Northwest Pipeline Corporation, as sole Working Interest Owner of the stated drilling block intends to drill said well employing the same drilling and completion methods as used by El Paso Natural Gas Company, as set out in the San Juan 32-9 1957 Drilling Program, dated December 28, 1956.

If this Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet, and return an approved copy to El Paso Natural Gas Company.

Copies of this Supplemental Drilling Program are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Bv

T. W. Bittick Assistant Manager Land Department

TWB:SHM:c1

cc: Attached List

APPROVED:	DATE:		
	Supervisor, United States Geological Survey		
	Subject to like approval by the appropriate State officials.		
APPROVED:	DATE:		
Commissioner of Public Lands			
	Subject to like approval by the United States Geological Survey and the Oil Conservation Commission		
APPROVED:			
	011 Conservation Commission		
	Subject to like approval by the United States Geological Survey and the		

The foregoing approvals are for the Supplemental 1957 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico.

Commissioner of Public Lands

## El Paso Natural Gas Company

El Paso, Texas

October 28, 1957

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico 416

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

TWENTY-FIRST EXPANDED PARTICIPATING AREA

Mesaverde Formation

Effective September 1, 1957

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 32-9 Unit #49 Well is located 990' from the North line and 1450' from the East line of Section 23, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on June 15, 1957, and completed naturally without sand water fracturing on July 16, 1957, at a total depth of 6022'. After being shut-in for gauge for nine (9) days the well was tested on August 9, 1957, and following a three (3) hour blow down period gauged 4,988 MCFGPD through a 3/4" choke, and 48,535 MCFGPD by the calculated absolute open flow method with an SIPC of 1014# and an SIPT of 1014#. The committed drilling block upon which this well is located is described as the E/2 of Section 23, Township 32 North, Range 10 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on August 9, 1957.



October 17, 1957

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
NOTICE OF COMPLETION OF ADDITIONAL WELL

with the African African

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed on acreage committed to the Unit.

#### This well is as follows:

The San Juan 32-9 #50 Well, located 550' from the North line and 1150' from the East line of Section 25, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on May 31, 1957 and completed on August 8, 1957. The well was drilled to a total depth of 5970'. The Mesaverde Formation between 5422' - 5440', 5760' - 5790', 5800' - 5810', 5834' - 5850', 5896' - 5916' was treated with a sand-water fracturing process. After being shut-in for eleven (11) days, the well was tested on August 19, 1957, and following a three hour blow-down period, guaged 3560 MCFGPD through a 3/4" choke and 6579 MCFGPD by the calculated absolute open flow method with an SIPC of 972# and an SIPT of 976#. The committed drilling block upon which this well is located is described as the E/2 of Section 25, Township 32 North, Range 10 West, N.M.P.M., and consists of 320.00 acres.

The drilling block was included in the San Juan 32-9 Eighteenth Expanded Participating Area, effective December 1, 1956, as an intervening drilling block. Therefore, the Participating Area is not enlarged, and the percentages allocated to the tracts shown on Schedule XIX for the Eighteenth Expanded Participating Area remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

/:<u>\_</u>`

Harry Gevertz Area Landman

Land Department

HG:SHM:c1
Enclosure

cc: Attached List

### San Juan 32-9 Unit Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

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Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Wood River Oil & Refining Co., Inc. 321 W. Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Sante Fe, New Mexico

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Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 314 Milam Building San Antonio 5, Texas

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Sterling Morton 120 South La Salle Street Chicago, Illinois

(Continued)

(Continued)

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Margaret S. MacDonald c/o Trust Department, Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois Page 2 San Juan 32-9 Unit Working Interest Owners

Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

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(Continued)

(Continued)

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San Juan 32-9 Unit
Working Interest Owners

F. Neson Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Nora R. Ranney RFD Casey Road Libertyville, Illinois

Eleanor Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones P. O. Box 1637 Midland, Texas El Paso Natural Gas Company

October 7, 1957

Mr. John Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
TWENTIETH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective August 1, 1957

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 32-9 Unit #51 Well is located 1090' from the South line and 890' from the West line of Section 29, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on May 29, 1957, and completed on June 25, 1957 at a total depth of 5985'. The Mesaverde Formation between 5440' - 5462', 5475' - 5487', 5496' - 5511', 5758' - 5774', 5808' - 5822', 5838' - 5854', 5866' - 5876', 5886' - 5904', 5914' - 5924', 5939' - 5960' was treated with a sand-water fracturing process. After being shut-in for gauge for eight (8) days the well was tested on July 2, 1957, and following a three (3) hour blow-down period gauged 3699 MCFGPD through a 3/4" choke, and 6632 MCFGPD by the calculated absolute open flow method with an SIPC of 1028# and an SIPT of 1025#. The committed drilling block upon which this well is located is described as the W/2 of Section 29, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that

11AN OFFICE CCC Paso Natural Gas Company
1537 SEP 2 PH 1:00

El Paso, Texas

August 28, 1957

Mr. John A. Anderson United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico file 448

Re: San Juan 32-9 Unit Area

#14-08-001-569

San Juan County, New Mexico NOTICE OF APPROVAL OF 1957 DRILLING PROGRAM

#### Gentlemen:

Please be advised that the Supplemental 1957 Drilling Program for the San Juan 32-9 Unit #14-08-001-569 has been approved by the Federal and State Regulatory Bodies as follows:

- 1. The Commissioner of Public Lands of the State of New Mexico on July 22, 1957.
- 2. The United States Geological Survey on July 17, 1957.
- 3. The Oil Conservation Commission of the State of New Mexico on August 26, 1957.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Harry Gevertz

Area Landman Land Department

HG:HM:cl

cc: Attached list

### DIL CONSERVATION COMMISSION P. O. BOX 871

SANTA FE, NEW MEXICO

#### August 26, 1957

file 411

El Paso Katural Gas Company Box 1492 El Paso, Texas

Attention: Mr. Samuel Smith

Re: San Juan 32-9 Unit San Juan County, H. M. 1957 Supplemental Plan of Development

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental Plan of Development, dated July 16, 1957, for the above-captioned unit area, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is returned herewith.

Yery truly yours,

A. L. PORTER, Jr., Secretary-Director

cc: U. S. G. S. - Roswell, New Maxice Commissioner of Public Lands - Santa Fe, New Mexico

#### In reply refer to: Unit Division

El Paso Natural Gas Company El Paso, Texas

Re: San Juan 32-9 Unit -

Supplemental 1957 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

We are entlosing two copies of your supplemental Drilling Program for the Year 1957, which was approved by the Commissioner of Public Lands July 22, 1957.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

By: Ted Bilberry, Supervisor Oil and Gas Department

MEM: MMR/m enc: 2

OCC-Santa Fe USGS-Roswell



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. Best 6721 Reswell, New Mexico File All

July 17, 1957

El Pase Materal Gas Company

P. O. Ber 1492

El Paso, Temas

Attention: Mr. Samuel Smith

Gen tlemen:

Your supplemental plan of development dated July 16, 1957, for the Sen Juan 32-9 Unit Area, New Mexico, for the calendar year 1957, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Yery truly yours,

Labor 7. Evans

BOBERT F. EVARS

Acting Oil and Gas Supervisor

Enclosure

Copy to: Washington (w/copy of plan)

Farmington (w/copy of plan)

Com. of Public Lands, Santa Fe (letter only)

Oil Cons. Com., Santa Fe (letter only)

## El Paso Natural Gas Company

El Paso, Texas

July 16, 1957

Mr. John A. Anderson Regional Oil & Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit,#14-08-001-569 SUPPLEMENTAL 1957 DRILLING PROGRAM

#### Gentlemen:

By letter of December 28, 1956, El Paso Natural Gas Company, as Unit Operator, filed its 1957 Drilling Program for the above captioned unit providing for the drilling of six (6) wells in the Mesaverde formation between the dates of January 1, 1957 and December 31, 1957. This 1957 Drilling Program was approved by the United States Geological Survey on February 4, 1957, Commissioner of Public Lands of the State of New Mexico on January 7, 1957, and Oil Conservation Commission of the State of New Mexico on February 28, 1957.

El Paso Natural Gas Company, Unit Operator, is now desirous of drilling one additional well in the Mesaverde formation, to be located as hereinafter set forth. Therefore, pursuant to Section 10 of the above numbered Unit Agreement, herewith submitted is a Proposed Supplemental Drilling Program for the balance of the calendar year 1957, providing for the drilling of one well in the Mesaverde formation:

#### DRILLING BLOCK

FORMATION

W/2 (A11) Sec.12,T-32-N,R-10-W

Mesaverde

The addition of the above described well will make a total of seven (7) wells to be drilled in the Mesaverde formation for the San Juan 32-9 Unit for the calendar year 1957.

El Paso Natural Gas Company, as Unit Operator, intends to drill the above listed well employing the same drilling and completion methods as specified in the San Juan 32-9 Unit Drilling Program for 1957, dated December 28, 1956.

El Paso Natural Gas Company, as Unit Operator, will protect the unit from drainage and will comply with any drilling requirements created under the terms of the unit agreement calling for additional drilling. If this Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided below. Please return an approved copy to El Paso Natural Gas Company, Unit Operator.

Copies of this Supplemental Drilling Program are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

	Lease Department
SS:GBL:cr	
cc: Attached List	
APPROVED:	DATE
Supervisor, United States Geological S	urvey
Subject to like approval by the appropriate Sta	te Officials.
APPROVED:	DATE
Commissioner of Public Lands	
Subject to like approval by the United States G	eological Survey and Oil
Conservation Commission.	
APPROVED: A. S. Perter.	AUG 2 7 1957
Oil Conservation Commission	

Subject to like approval by the United States Geological Survey and Commissioner of Public Lands.

THE FOREGOING APPROVALS ARE FOR THE SUPPLEMENTAL 1957 DRILLING PROGRAM FOR THE SAN JUAN 32-9 UNIT.

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Phillips Petroleum Company 301 Korber Building Albuquerque, New Mexico

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas San Juan 32-9 Unit Working Interest Owners

Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1, Texas

Petro-Atlas Corporation First National Building Tulsa 3, Oklahoma

Petro-Atlas Corporation Post Office Box 157 Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Bldg. Dallas 1, Texas

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 314 Milam Building San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

Sterling Morton 120 South La Salle Street Chicago, Illinois

(Continued)

(Continued)

Mr. Roy E. Bard 208 South La Salle Street Room 510 Chicago 4, Illinois

Ralph A. Bard 208 South La Salle Street Room 504 Chicago 4, Illinois

Cortland T. Hill 606 South Hills Street Los Angeles, California

Blsie F. Hill W. 1453 First National Bank Bldg. St. Paul 1, Minnesota

Lewis W. Hill, Jr. W. 1453 First National Bank Bldg. St. Paul 1, Minnesota

Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

Albert L. Hopkins, Jr. 12 Robinson Street Cambridge 38, Massachusetts

R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Ruth N. Halls 460 El Cielito Road Santa Barbara, California

Suzette M. Zurcher 955 North Lake Road Lake Forrest, Illinois

Margaret S. MacDonald c/o Trust Department, Trust No.23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

#### San Juan 32-9 Unit Working Interest Owners

Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Donald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

City National Bank & Trust Company Trustee of Trust No. 23949 208 South LaSalle Street Chicago 4, Illinois

Robert T. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Henry P. Isham, Jr. 38 South Dearborn Street Room 1007 Chicago 3, Illinois

William Simpson 111 West Washington Street Chicago 2, Illinois

Nancy H. Haskins 1318 Judson Avenue Evenston, Illinois

James Simpson, Jr.
111 West Washington Street
Chicago 2, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

John M. Simpson 111 West Washington Street Chicago 2, Illinois (Continued)

San Juan 32-9 Unit Working Interest Owners

Frederic F. Webster 111 West Washington Street Chicago 2, Illinois

John Stuart 345 Merchandise Mart Chicago 54, Illinois

Jay C. Halls 1 North La Salle Street Chicago 2, Illinois

Catherine M. Ruml 5617 Dorchester Avenue Chicago 37, Illinois

Mary S.Zick 436 Glendale Winnetka, Illinois

William P. Sutter 1 North La Salle Street Chicago 2, Illinois

Trust No. 1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle Street Room 3710 Chicago 3, Illinois

Suzanne LaForce Baber 217 South Lassen Street Willows, California

City National Bank & Trust Company Trustee of Trust No. 23935 208 South La Salle Street Chicago 4, Illinois

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas R. Nelson Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Nora R. Ranney RFD Casey Road Libertyville,Illinois

Eleanor Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones Post Office Box 1637 Midland, Texas

Et Paso Natural Gas Company 1777 1 1 El Paso, Texas March 27, 1957 Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico Re: San Juan 32-9 Unit Tract No. 59 Gentlemen: Please find enclosed one copy of Ratification and Joinder of Unit Agreement dated February 14, 1957, executed by J. Jay Phoenix, committing his two-and-one half (2 $\frac{1}{2}$ %) overriding royalty interest under Tract 59 of the San Juan 32-9 Unit. We respectuflly ask that you process this Ratification and Joinder in the usual manner to effectively commit this interest to the unit. Area Landman Lease Department JWC: GBL: mm Enclosure NM-1123

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and
Operation of the San Juan 32-9 Unit Area located within the County
of San Juan , State of New Mexico , in form
approved on behalf of the Secretary of the Interior, the undersigned owners of lands
or leases, or interests therein or royalties presently held or which may arise under
existing option agreements, or other interests in production covered by said Unit
Agreement hereby severally, each to the extent of his or her particular ownership or
interest, as may appear, consent to the inclusion of said lands within the Unit Area
therein defined, ratify, approve and adopt the terms of said Unit Agreement and any
modifications thereof approved by the Secretary of the Interior or his duly author-
ized representative as applicable to said several lands and interests, agree that the
term of any lease given by the undersigned or under which the undersigned claims an
interest herein is extended and modified to the extent necessary to make the same con-
form to the terms of said Unit Agreement, agree that the drilling, development and
producing requirements of all leases and other contracts in which their several rights
and interests are created or defined shall be deemed fully performed by performance of
the provisions of said Unit Agreement, and agree that payment for or delivery of (which-
ever may be required under prior agreements) oil and gas duly made at contract rates
applied to the production allocated under said Unit Agreement to the particular lands
to which such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the undersigned
existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS	SIGNATURE
420 Walworth Avenue, Dalavan, Wisconsin	J. Jay Phoenix
Date:	
Date:	
Date:	
1	
STATE OF WISCONSIN) COUNTY OF WALWORTH) as	

Subscribed and sworn to before me this 14th day of February 1957

PPERATOR & WORKING INTERECT OWNER

Dublic,

Walworth Co. Wis.

My commission expires April 6, 1958

## El Paso Natural Gas Company

El Paso, Texas

March 14, 1957

Mr. John Anderson Regional Oil and Gas Supervisor United States Geological Survey P. O. Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
Nineteenth Expanded Participating Area
Mesaverde Formation
Effective January 1, 1957

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon acreage committed to this unit, and the participating area for the Mesaverde Formation is accordingly expanded. The well is as follows:

The San Juan 32-9 Unit #46 Well, located 1500' from the North line and 1500' from the East line of Section 4, Township 31 North, Range 9 West, San Juan County, New Mexico, was spudded on November 9, 1956, and completed on November 26, 1956, at a total depth of 5985'. The Mesaverde formation between the depths of 5398'-5412', 5422'-5434', 5750'-5760', 5770'-5780', 5806'-5818', 5828'-5840', 5880'-5890', 5902'-5912', was treated with a water-sand fracturing process on November 24, 1956. After being shut-in for eight (8) days, the well was tested on December 4, 1956, and following a three hour blow-down period, gauged 3702 MCFGPD through a 3/4" choke and 6201 MCFGPD by the calculated absolute open flow method, with an SIPC of 1040# and an SIPT of 890#. The committed drilling block upon which this well is located is described as the E/2 of Section 4, Township 31 North, Range 9 West, N.M.P.M. containing 319 acres.

The inclusion of the above described well into the participating area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XX showing the Nineteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the expanded participating area and shows the percentages of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval this expanded participating area will become effective as of January 1, 1957.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Samuel Smith

Assistant Manager Lease Department

SS:GBL:nn Attached list 492

## El Paso Natural Gas Company

El Paso, Texas

March 1, 1957

Director United States Geological Survey Department of the Interior Washington 25, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe. New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

NOTICE OF APPROVAL OF 1957 DRILLING PROGRAM

#### Gentlemen:

This is to advise that the Drilling Program for 1957 for the San Juan 32-9 Unit has been approved by the Federal and State Regulatory Bodies as follows:

- (1) Approved by the Commissioner of Public Lands of State of New Mexico on January 7, 1957.
- (2) Approved by the United States Geological Survey on February 4, 1957.
- (3) Approved by the Oil Conservation Commission of State of New Mexico on February 28, 1957.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Joe W. Cherry

Area Landman

Lease Department

JWC:GBL:nn Attached list

## P. O. BOX 871 SANTA FE, NEW MEXICO

February 28, 1957

El Paso Hatural Gas Company Box 1492 El Paso, Texas

Attention: Mr. R. L. Hamblin

Re: San Juan 32-9 Unit

San Juan County, New Mexico

1957 Drilling Program

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1957 Drilling Program for the above-captioned unit area, dated December 28, 1956, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Program is returned herewith.

Very truly yours.

A. L. PORTER, Jr., Secretary-Director

ALP/DSM/ir

Inclosure

bcc: USGS - Roswell

Commissioner of Public Lands - Santa Fe

498

El Paso Natural Gas Company

El Paso, Texas

February 21, 1957

Director
United States Geological Survey
Department of the Interior
Washington 25, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe. New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico معليم

Re: San Juan 32-9 Unit
#14-08-001-569
San Juan County, New Mexico
NOTICE OF COMPLETION OF
ADDITIONAL WELL

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one additional well capable of producing unitized substances in paying quantities in the Mesaverde formation has been completed upon acreage committed to this unit:

The San Juan 32-9 Unit Well No. 47, located 1090' from the South line and 890' from the West line of Section 4, Township 31 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on October 19, 1956, and completed on November 7, 1956, at a total depth of 5975'. The Point Lookout section of the Mesaverde formation between the depths of 5805'-5815', 5823'-5834', 5847'-5851', and 5695'-5703', 5732'-5748', was treated with water-sand fracturing process on November 5, 1956. The Cliff house section of the Mesaverde formation between the depths of 5367'-5371', 5376'-5382', 5387'-5393', was likewise treated with a water-sand fracturing process on November 5, 1956. After being shut in for seven (7) days, the well was tested on November 14, 1956, and following a three hour blow down period gauged 5480 MCFGPD through a 3/4" choke and 18079 MCFGPD by the calculated absolute open flow method, with an SIPC of 1008# and an SIPT of 1001#. The committed drilling block upon which this well is located is described as the W/2 of Section 4, Township 31 North, Range 9 West, N.M.P.M., containing 320.20 acres. As the drilling block upon

which this well is located was included in the San Juan 32-9 Unit, Fourteenth Expanded Participating Area, effective November 1, 1955, as an intervening drilling block, the Participating Area is not hereby expanded and the percentages allocated to the tracts shown on Schedule 15 of the Fourteenth Expanded Participating Area for this Unit remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

Joe W. Cherry

Area Landman Lease Department

JWC:GBL:nn

Attached list

448

# El Paso Natural Gas Company El Paso, Texas

February 15, 1957

Mr. John Anderson Regional Oil & Gas Supervisor United States Geological Survey P. O. Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569 18th Expanded Participating Area Mesaverde Formation Effective December 1, 1956

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953 El Pasc Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon acreage committed to this Unit, and of the Participating Area for the Mesaverde formation is accordingly expanded.

#### The well is as follows:

The San Juan 32-9 Unit Well Number 40 located 890' from the South line and 890' from the West Line of Section 30, Township 32 North, Range 9 West, San Juan County, New Mexico, was spudded on October 20, 1956, and completed on November 9, 1956, at a total depth of 5,920'. The Cliff House section of the Mesaverde formation between the depths of 5423' - 5427', 5431' - 5444', 5451' - 5457', 5478' -5486', was treated with a water-sand fracturing process on November 6, 1956. The Point Lookout section of the Mesaverde formation was likewise treated with a water-sand fracturing process between the depths of 5774' - 5780', 5792' - 5796', 5806' - 5818', 5828' - 5842', on November 6, 1956. After being shut in for 11 days the well was tested on November 20, 1956, and following a three hour blow down

period gauged 4269 MCFGPD through a 3/4" choke, and 8017 MCFGPD by the calculated absolute open flow method with an SIPC of 963# and an SIPT of 968#. The committed drilling block upon which this well is located is described as the W/2 of Section 30, Township 32 North, Range 9 West, N.M.P.M. containing 207.48 acres.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates one (1) intervening drilling block described as the E/2 of Section 25, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of December 1, 1956, the same time as the admission of the San Juan 32-9 Unit Well #40. Drilling must be commenced upon this intervening drilling block by December 1, 1957.

Attached is Schedule XIX showing the Eighteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval no provision is made therefor, and in the absence of disapproval this Expanded Participating Area will become effective as of December 1, 1956.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Samuel Smith

Assistant Manager Lease Department

SS:GBL:mm
Enclosure

cc: Attached List

1198

12711 (27/25 CO) 127 (2)

January 7, 1957

In reply refer to: Unit Division 1/11

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

Re: San Juan 32-9 Unit - 1957 Drilling Program

Attention: Mr. R. L. Hamblin

#### Gentlemen:

We are enclosing one copy of your 1957 Drilling Program for the San Juan 32-9 Unit Agreement, which was approved by the Commissioner of Public Lands, Mr. M. E. Morgan, January 7, 1957.

This approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

MEM: MMR/m

cc: OCC-Santa Fe USGS-Roswell

## El Paso Natural Gas Company

El Paso, Texas

December 28, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569

San Juan County, New Mexico

1957 DRILLING PROGRAM

#### Gentlemen:

By letter of December 27, 1955, the El Paso Natural Gas Company set forth its Drilling Program for the above captioned unit providing for the drilling of eleven (11) wells in the Mesaverde formation during the calendar year 1956. As of this date all of these wells have been completed, and the data in connection with them is as follows:

#### San Juan 32-9 Unit:

	Drilling	Initial	
Well Name	Block	Potential	Tied In
Well #43	W/2 Sec. 2, 31-10	AOF 30,359 MCF/D	6-10-56
Well #47	W/2 Sec. 4, 31-9	AOF 18,079 MCF/D	Not tied in
Well #46	E/2 Sec. 4, 31-9	AOF 6,201 MCF/D	Not tied in
Well #42	E/2 Sec. 6, 31-9	AOF 21,168 MCF/D	8-21-56
Well #44	E/2 Sec. 11, 31-10	AOF 22,396 MCF/D	6-10-56
Well #45	W/2 Sec. 12, 31-10	AOF 18,619 MCF/D	9-25-56
Well #39	E/2 Sec. 26, 32-10	AOF 12,095 MCF/D	Not tied in
Well #40	W/2 Sec. 30, 32-9	AOF 8,017 MCF/D	Not tied in
Well #41	E/2 Sec. 31, 32-9	AOF 11,392 MCF/D	Not tied in
Well #37	E/2 Sec. 32, 32-9	AOF 7,827 MCF/D	Not tied in
Well #38	E/2 Sec. 35, 32-10	AOF 17,180 MCF/D	Not tied in

There are it this time forty-three (43) commercial wells in the San Juan 32-9 Unit, forty-one (41) of which have been admitted to the participating area. Of the forty-one (41) wells admitted to the participating area thirty-six (36) have been tied into our gathering system.

Total production from the Unit from January 1, 1956, through November 30, 1956, was 4,274,368 MCF. The total value from the sale of natural gas, propane, butane and condensates from January 1, 1956 through November 30, 1956 was \$656,973.27.

Pursuant to section 10 of the above numbered Unit Agreement, El Paso Natural Gas Company, as Unit Operator, herewith submits its Drilling Program for the period from January 1, 1957 through December 31, 1957. As Unit Operator we have canvassed all working interest owners in this unit, and the proposed drilling program covers all drilling requests that we have received.

The proposed wells are as follows:

DRILLING BLOCK			FORMATION		
W/2	Section	11 (A11):	T-32-N,	R-10-W	Mesaverde
W/2	Section	14:	T-32-N,	R-10-W	Mesaverde
E/2	Section	23:	T-32-N,	R-10-W	Mesaverde
*E/2	Section	25:	T-32-N,	R-10-W	Mesaverde
W/2	Section	27:	T-32-N,	R-9-W	Mesaverde
W/2	Section	29:	T-32-N,	R-9-W	Mesaverde

\* Intervening drilling block necessary to be drilled in 1957.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde wells to the base of the Mesaverde formation using rotary tools. Surface casing of 10--3/4" will be set to approximately 150' below the surface and an intermediate string of 7--5/8" casing will be set through the Pictured Cliffs formation to a depth of approximately 3,200'. A 5--1/2" production string will be set through the Mesaverde formation, and the casing of the Mesaverde formation will then be selectively perforated and the Mesaverde formation will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

All well locations will be either in the NE/4 or the SW/4 of the sections.

If this Drilling Program is acceptable please signify your approval as required under Section 10 of the Unit Agreement in the space provided below. Please return one approved copy to El Paso Natural Gas Company, Unit Operator.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hamblin, Manager

Lease Department

RLH:GBL:nb Attachment

APPROVED:		DATE:
-	Supervisor, United States Geological Durvey	
	Subject to like approval by the appropriate s	State Offcials.
APPROVED:	Commissioner of Public Lands	DATE:
	Subject to like approval by the United States Conservation Commission	s Geological Survey and Oil
A PPROVED:	Oil Conservation Commission	DATE: 2-28-57

Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands

#### San Juan 32-9 Unit Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Phillips Petroleum Company 301 Korber Building Albuquerque, New Mexico

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1. Texas

Petro-Atlas Corporation First National Building Tulsa 3, Oklahoma

Petro-Atlas Corporation Post Office Box 517 Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Bldg. Dallas 1, Texas

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 314 Milam Building San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting Post Office Box 1637 Midland, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

## El Paso Mâtural Gas Company El Paso, Texas

December 4, 1956

Director
U.S. Geological Survey
Department of the Interior
Washington, D. C.

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico NOTICE OF COMPLETION OF ADDITIONAL WELLS

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569 approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that four (4) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit:

1. The San Juan 32-9 Unit Well #37, located 1800' from the North line and 1150' from the East line of Section 32: Township 32 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on September 29, 1956, and completed on October 18, 1956, at a total depth of 6075'. The Point Lookout Section of the Mesaverde Formation between the depths of 5917' - 5924', 5937' - 5957', 5985' - 5991', and 5867' - 5874', 5879' - 5892' was treated with a watersand fracturing process on October 14 and October 15, 1956. The Cliff House Section for the Mesaverde Formation between the depths of 5508' - 5514', 5522' - 5539', 5549' - 5559', was likewise treated with a water-sand fracturing process on October 15, 1956. After being shut-in for eleven (11)

days the well was tested on October 29, 1956, and following a three-hour blow-down period gauged 4064 MCFGPD through a 3/4" choke and 7827 MCFGPD by the calculated absolute open flow method with an SIPC of 1061# and an SIPT of 1031#. The committed drilling block upon this well is located, is described as the E/2 of Section 32: Township 32 North, Range 9 West, N.M.P.M., containing 320 acres. As the drilling block upon which this well is located was included in the San Juan 32-9 Unit Fourteenth Expanded Participating Area, effective November 1, 1955, as an intervening drilling block, the Participating Area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule XV for the Fourteenth Expanded Participating Area for this Unit remain the same.

- The San Juan 32-9 Unit Well #38, located 818' from the North line and 1757' from the East line of Section 35, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on September 5, 1956, and completed on September 22, 1956, at a total depth of 5483'. The Point Lookout Section of the Mesaverde Formation was treated with a water-sand fracturing process on September 19, 1956, between 5336' - 5347', 5376' -5386', 5404' - 5420', and on September 20, 1956, between the depths of 5238' - 5254', 5276' - 5290', 5296' - 5306'. The Cliff House Section of the Mesaverde Formation between the depths of 4880' - 4926' was likewise treated with a water-sand fracturing process on September 20, 1956. After being shut-in for thirteen days the well was tested on October 5, 1956, and following a three hour blow-down period, gauged 5389 MCFGPD through a 3/4" choke and 17,180 MCFGPD by the calculated absolute open-flow method with an SIPC of 1050# and an SIPT of 1052#. The committed drilling block upon which this well is located is described as the E/2 of Section 35, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres. As the drilling block upon which this well is located was included in the San Juan 32-9 Unit Thirteenth Expanded Participating Area, effective October 1, 1955, as an intervening drilling block, the participating area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule XIV for the Thirteenth Expanded Participating Area for this Unit remain the same.
- 3. San Juan 32-9 Unit Well #39, located 800' from the North line and 1490' from the East line of Section 26, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on September 25, 1956, and completed on October 17, 1956, at a total depth of 6259'. The Point Lookout Section of the Mesaverde Formation was treated with a water-sand fracturing process on October 14, 1956, between the depths of 6154' 6160', 6170' 6180', 6187' 6197', and on October 15, 1956 between 6071' 6083', 6101' 6111', 6122' 6132'. The Cliff House Section of the Mesaverde Formation between the depths of 5658' 5668', 5688' 5702', 5714' 5720' was likewise

treated with a water-sand fracturing process on October 15, 1956. After being shut-in for thirteen days the well was tested on October 30, 1956, and following a three hour blow-down period gauged 4564 MCFGPD through a 3/4" choke and 12,095 MCFGPD by the calculated absolute open-flow method with an SIPC of 1022# and an SIPT of 1022#. The committed drilling block upon which this well is located is described as the E/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres. As the drilling block upon which this well is located was included in the San Juan 32-9 Unit Sixteenth Expanded Participating Area, effective March 1, 1956 as an intervening drilling block the participating area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule XVII for the Sixteenth Expanded Participating Area for this Unit remain the same.

4. The San Juan 32-9 Unit Well #41, located 800' from the North line and 930 from the East line of Section 31, Township 32 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on September 6, 1956, and completed on September 28, 1956, at a total depth of 6143'. The Point Lookout Section of the Mesaverde Formation between the depths of 6006' - 6022', 6034' - 6044', 6076' - 6086', and 5858' - 5868', 5910' - 5922', 5934' - 5942', 5956' - 5962' was treated with a water-sand fracturing process on September 25, 1956. The Cliff House Section of the Mesaverde Formation between the depths of 5598' - 5613', 5624' - 5634', and 5652' - 5660, was likewise treated with a water-sand fracturing process on September 26, 1956. After heing shut-in for ten days the well was tested on October 8, 1956 and following a three hour blow-down period gauged 4669 MCFGPD through a 3/4" choke and 11,392 MCFGPD by the calculated absolute open-flow method with an SIPC of 1014# and and SIPT of 1019#. The committed drilling block upon which this well is located is described as the E/2 of Section 31, Township 32 North, Range 9 West, N.M.P.M., containing 320 acres. As the drilling block upon which this well is located was included in the San Juan 32-9 Unit Twelfth Expanded Participating Area. effective September 1, 1955 as an intervening drilling block, the participating area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule XIII for the Twelfth Expanded Participating Area for this Unit remain the same,

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Joe W. Cherry Area Landman

Lease Department

JWC:nt Enclosure v v

El Paso Natural Gas Company

El Paso, Texas

September 5, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico



Re: San Juan 32-9 Unit, #14-08-001-569 W/2 Section 32, T-32-N, R-9-W Well # 7 (OWWO) E/2 Section 14, T-31-N, R-10-W Well # 13 (OWWO)

#### Gentlemen:

This is to advise that in accordance with the San Juan 32-9 Unit Operating Agreement, dated February 10, 1953, after obtaining the consent of the required working interest owners as therein provided, the following work was performed on the San Juan 32-9 Unit Well #7, located in the W/2 of Section 32, Township 32 North, Range 9 West, San Juan County, New Mexico, and on the San Juan 32-9 Unit Well #13, located in the E/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico:

1. Re-working operations for Well #7 were begun on July 19, 1956. The well was cleaned out to a depth of 6048'. On August 2, 1956, the Point Lookout section of the Mesaverde Formation was treated with a water-sand fracturing process between the depths of 5933' - 5944', 5986' - 5998', 6032' - 6048'. The Cliff House section of the Mesaverde Formation was likewise treated on August 2, 1956, with a water-sand fracturing process between the depths of 5666' - 5678', 5686' - 5698'. After being shut-in for nine (9) days the well was tested on August 14, 1956, and after a three-hour blow-down using a calculated absolute open-flow test, gauged 6497 MCFGPD with an SIPC of 919# and an SIPT of 919#. The total depth of the well is 6100', plugged back to the depth of 6048'. As the drilling block upon which this well is located was brought into the Participating Area by the Fourth Expansion of

the Mesaverde Participating Area for the San Juan 32-9 Unit, effective November 1, 1953, the Participating Area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule V for the Fourth Expanded Participating Area for this unit remain the same.

2. Re-working operations for Well #13 were begun on July 7, 1956. The well was cleaned out to a depth of 5555'. Subsequently, on July 14, 1956, the Point Lookout section of the Mesaverde Formation was treated with a water-sand fracturing process between the depths of 5378' - 5398', 5423' - 5430', 5444' -5465'. The Cliff House section of the Mesaverde Formation was likewise treated on July 15, 1956, with a water-sand fracturing process between the depths of 4891' - 4899', 4901' - 4917', 4946' - 4960', and 4982' - 5006'. The total depth of the well is 5555'. After being shut-in for eight (8) days the well was tested on July 26, 1956, and after a three hour blow-down using a calculated absolute open-flow test, gauged 14,266 MCFGPD with an SIPC of 982# and an SIPT of 980#. As the drilling block upon which this well is located was brought into the Participating Area by the revised initial expansion of the Mesaverde Formation for the San Juan 32-9 Unit, effective June 26, 1953, the Participating Area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule I for the Initial Participating Area for this unit remain the same.

Inasmuch as this operation needs no official approval, no provision is being made therefor.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Manager

Lease Department

RLH:GBL:cr

cc: Attached List

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. R. N. Richey Pacific Northwest Pipeline Corporation Post Office Box 1526 Salt Lake City, Utah

Mr. Jack Owens
Pacific Northwest Pipeline Corporation
M & M Building
Houston, Texas

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1, Texas

Mr. Dudley Cornell Albuquerque Associated Oil Company 824 Simms Building Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting Post Office Box 1637 Midland, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Forrest Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

# MANIETTE OEL Paso Matural Gas Company El Paso, Texas

August 30, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569

San Juan County, New Mexico

NOTICE OF COMPLETION OF ADDITIONAL WELL

file

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde formation has been completed upon acreage committed to this unit:

1. The San Juan 32-9 Unit Well #42, located 1094' from the North line and 1090' from the East line of Section 6, Township 31 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on June 8, 1956, and completed on June 28, 1956, at a total depth of 5946'. The Point Lookout section of the Mesaverde formation between the depths of 5766' - 5784', 5800' -5812' and 5838' - 5856', 5870' - 5886' was treated with a water sand fracturing process on June 25, 1956. The Cliff House section of the Mesaverde formation between the depths of 5348' -5366', 5379' - 5400', 5410' - 5426!, was likewise treated with a water sand fracturing process on June 26, 1956. After being shut-in for seven (7) days the well was tested on July 5, 1956, using a calculated absolute open flow test and following a three hour blow-down gauged an IP of 21,168 MCFGPD with an SIPC of 989# and an SIPT of 989#. The committed drilling block upon which this well is located is described as the E/2 of Section 6, Township 31 North, Range 9 West, N.M.P.M., containing 320.60 acres.

The drilling block upon which the San Juan 32-9 Unit Well #42 is located the E/2 of Section 6, Township 31 North, Range 9 West, was included in the Eleventh Expanded Participating Area for the Mesaverde formation effective August 1, 1955, as an intervening drilling block. Therefore, the participating area is not now enlarged by the addition of this well and the percentages allocated to the tracts shown on Schedule XII for the Eleventh Expanded Participating Area remain the same.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours

KL PASO NATURAL GAS COMPANY

Ву

James C. Vandiver

Area Landman Lease Department

JCV:GBL:cr

cc: Attached List

## El Paso Ratural Gas Company

El-Paso, Texas

August 9, 1956

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, Tract 42

Gentlemen:

Please find enclosed one (1) copy of Ratification and Joinder of Unit Agreement dated July 10, 1956 executed by J. E. Atkins, Guardian of the Estate of Lula H. Atkins, incompetent, committing her 1-1/4% overriding royalty interest under Tract 42 of the San Juan 32-9 Unit.

We respectfully ask that you process this Ratification and Joinder in the usual manner to effectively commit this interest to the unit.

Very truly yours,

James C. Vandiver

Area Landman Lease Department

JCV:GBL:pb
Encl.

NM 4800

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 32-9 Unit
Area located within the County of San Juan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
Altus, Oklahoma	The Estate of Lula H. Atkins
	By C. E. athing
	Guardian
Date: JULY 10, 1956	
Date:	

APPROVED AND CONSENTED TO: PUBCO PETROLEUM CORPORATION

Working Interest Owner

APPROVED AND CONSENTED TO:

EL PASO NATIONAL GOOD FOR Y

By Vice Prosest

UNIT OPERATOR & WORKING LATE LOT THIS ER

) SS.:	
COUNTY OF Bernelille	
On this 6th day of August	, 195 6, before me appeared
Frank D. Gorben, Jr	to me personally known, who, being
is the corporate seal of said corporation and sealed in behalf of said corporation and said Frank D. Gerham, Jr the free act and deed of said corporation	that the seal affixed to said instrument on, and that said instrument was signed in by authority of its board of directors, acknowledged said instrument to be on.
eal the day and year in this certificat	reunto set my hand and affixed my official te first above written.
My Commission expires:	
June 24, 1957	mary Beck Harknew
	Notary Public in and for <u>Bernalille</u> County,  State of <u>Sev Maxico</u>
STATE OF OKLAHOMA )  SS.:	
) SS.: County of Jackson )	
•	
A. A. Intu a Intu	3056 hadana ma aunaamad
	, 1956 before me appeared
J. E. Atkins, Guardian of the Estate	
going instrument, and acknowledged to me and deed. in capacity above set forth.	described in and who executed the fore-
My Commission expires:	
4-13-19-18	14 Polling al
	Notary Public in and for
	State of Try
STATE OF	
COUNTY OF ) SS.:	
On thisday of	, 195, before me personally
appeared	a single person, to me known to be
the person described in and who executed to me thathe executed the sa	, a single person, to me known to be it the foregoing instrument, and acknowledged ame asfree act and deed.
My Commission expires:	
•	Notary Public in and for
. <b>'</b>	County,

State of

El Paso Natural Gas Company

El Paso, Texas : 11

July 23, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: (San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico

NOTICE OF COMPLETION OF ADDITIONAL WELLS

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this Unit:

1. The San Juan 32-9 Unit Well #44, located 1650' from the North line and 1735' from the East line of Section 11, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, was spudded on February 23, 1956, and completed on March 26, 1956, at a total depth of 5450'. The Point Lookout section of the Mesaverde Formation between the depths of 5196' -5216', 5306' - 5320', 5336' - 5356' was treated with a water-sand fracturing process on March 20, March 21, and March 22, 1956. The Cliff House section of the Mesaverde Formation between the depths of 4826' - 4846', 4885' - 4895', 4905' - 4915' was likewise treated with a water-sand fracturing process on March 23 and March 24, 1956. After being shut-in for eleven days the well was tested on April 6, 1956 using an AOF, and following a three hour blow-down gauged an IP of 22396 MCFGPD with an SIPC of 1036# and an SIPT of 1032#. The committed drilling block upon which this well is located is described as the E/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

- 2. The San Juan 32-9 Unit Well #43, located 1137' from the South line and 1180' from the West line of Section 2, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico. was spudded on March 28, 1956, and completed on April 18, 1956, at a total depth of 5423'. The Point Lookout section of the Mesaverde Formation between the depths of 5224' - 5236', 5258' - 5268', 5296' - 5312', 5334' - 5350' was treated with a water-sand fracturing process on April 17, 1956. The Cliff House section of the Mesaverde Formation between the depths of 4785' - 4796', 4814' - 4824', 4844' - 4854' was likewise treated with a water-sand fracturing process on April 17. 1956. After being shut in for eight days the well was tested on May 9, 1956, using an AOF, and following a three hour blowdown gauged an IP of 30359 MCFGPD with an SIPC of 1047# and an SIPT of 1048#. The committed drilling block upon which this well is located is described as the W/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M., containing 321.06 acres.
- 3. The San Juan 32-9 Unit Well #45, located 1068' from the South line and 968' from the West line of Section 12, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, was spudded on May 19, 1956, and completed on June 6, 1956, at a total depth of 5546'. The Point Lookout section of the Mesaverde Formation between the depths of 5376' - 5394', 5430' - 5454', 5460' - 5474' was treated with a water-sand fracturing process on June 3, 1956. The Cliff House section of the Mesaverde Formation was likewise treated with a watersand fracturing process between the depths of 4932' - 4960'. 4994' - 5004' on June 4, 1956. After being shut-in for fifteen days the well was tested on June 21, 1956, using an AOF, and following a three hour blow-down gauged an IP of 18619 MCFGPD with an SIPC of 1022# and an SIPT of 1020#. The committed drilling block upon which this well is located is described as the W/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The drilling block upon which the San Juan 32-9 Unit Well #44 is located, the E/2 of Section 11, Township 31 North, Range 10 West, was included in the Seventeenth Expanded Participating Area for the Mesaverde Formation, effective April 1, 1956, as an intervening drilling block. Therefore, the Participating Area is not now enlarged by the addition of this well, and the percentages allocated to the tracts shown on Schedule XVIII for the Seventeenth Expanded Participating Area remain the same.

The drilling block upon which the San Juan 32-9 Unit Well #43 is located, the W/2 of Section 2, Township 31 North, Range 10 West, was included in the Ninth Expanded Participating Area for the Mesaverde Formation, effective April 1, 1955, as an intervening drilling block. Therefore, the Participating Area is not now enlarged by the addition of this well, and the percentages allocated to the tracts shown on Schedule X for the Ninth Expanded Participating Area remain the same.

The drilling block upon which the San Juan 32-9 Unit well #45 is located, the W/2 of Section 12, Township 31 North, Range 10 West, was included in the Tenth Expanded Participating Area for the Mesaverde Formation, effective June 1, 1955, as an intervening drilling block. Therefore the Participating Area is not now enlarged by the addition of this well and the percentages allocated to the tracts shown on Schedule XI for the Tenth Expanded Participating Area remain the same.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

James C Vendiver

Area Landman Lease Department

JCV:GBL:pb

cc: Attached List

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas. Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. R. N. Richey Pacific Northwest Pipeline Corporation Post Office Box 1526 Salt Lake City. Utah

Mr. Jack Owens
Pacific Northwest Pipeline Corporation
M & M Building
Houston, Texas

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1, Texas

Mr. Dudley Cornell Albuquerque Associated Oil Company 824 Simms Building Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting Post Office Box 1637 Midland, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Forrest Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico



June 29, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

file

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unyt No. 14-08-001-569 E/2 Sec. 5, T-31-N, R-9-W Well #24 (OWWO)

#### Gentlemen:

This is to advise that in accordance with the San Juan 32-9 Unit Operating Agreement dated February 10, 1953, after obtaining the consent of the required working interest owners as therein provided, the following work was performed on the San Juan 32-9 Unit Well #24, located in the NE/4 of Section 5, Township 31 North, Range 9 West, N.M.P.M., San Juan County, New Mexico:

Re-working operations for this well were begun on February 1, 1956. The well was cleaned out to a depth of 5941'. Subsequently on the 11th day of February, 1956, the Point Lookout section of the Mesaverde formation was treated with a sandwater fracturing process from 5834' to 5896'. The Cliff House section of the Mesaverde formation was likewise treated on February 11, 1956, with a sand-water fracturing process from 5462' to 5556'. The total depth of the well after being reworked is 5945'. After being shut-in for gauge for seven days, the well was tested on February 22, 1956, and after a three hour blow-down gauged 5626 MCF/D with an SIPC of 844# and an SIPT of 849#.

As this drilling block was brought into the Participating Area by the Eighth Expansion effective August 1, 1954, the Participating Area is not expanded, and the percentages allocated to the tracts shown on Schedule IX for the Eighth Expanded Participating Area remain the same.

Inasmuch as this operation needs no official approval no provision is being made therefor.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

James C. Vandiver

Area Landman Lease Department

JCV:GBL:eb

cc: Attached List

## El Paso Natural Gas Company

El Paso, Texas June 5, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Pe, New Mexico file

Re: San Juan 32-9 Unit
No. 14-08-001-569

SEVENTEENTH EXPANDED
PARTICIPATING AREA
Mesaverde Formation
Effective April 1, 1956

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon acreage committed to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded.

#### This well is as follows:

The San Juan 32-9 Unit Well #25, located 1650' from the North line and 1500' from the East line of Section 2, Township 31 North, Range 10 West, San Juan County, New Mexico, was spudded on February 7, 1956, and completed on March 7, 1956, at a total depth of 5590'. The Cliff House section of the Mesaverde formation between 5016' and 5080' was treated with a water-sand fracturing process on March 2nd and 3rd, 1956. The Point Lookout section of the Mesaverde formation was treated with a water-sand fracturing process from 5496' to 5510' on March 1, 1956. After being shut-in for gauge for twelve (12) days, the well was tested on March 19, 1956, and following a three hour blowdown, gauged an IP of 23,123 MCFGPD with an SIPC of 1012# and an SIPT of 1011#. The committed drilling block upon which this well is located is described as the E/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M., containing 320.78 acres.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates one (1) intervening drilling block described as the E/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of April 1, 1956, the same time as the admission of the San Juan 32-9 Unit Well #25. Drilling must be commenced upon this intervening drilling block by April 1, 1957.

Attached is Schedule XVIII showing the Seventeenth Expanded Participating Area for the Mesaverde formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of April 1, 1956.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hamblin

Manager

Lease Department

RLH:GBL:rb

cc: Attached list

## El Paso Natural Gas Company

El Paso, Texas

April 30, 1956

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico fier

Re: San Juan 32-9 Unit
No. 14-08-001-569
SIXTEENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective March 1, 1956

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon acreage committed to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

#### This well is as follows:

The San Juan 32-9 Unit Well #28, located 1650' from the South line and 1650' from the West line of Section 26, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on November 6, 1955, and completed on January 21, 1956, at a total depth of 6360'. The Cliff House section of the Mesaverde Formation between 5689' and 5730' was treated with a water-sand fracturing process on January 16, 1956. The Point Lookout section of the Mesaverde Formation was also treated with a water-sand fracturing process between 6017' and 6322' on January 15, 1956. After being shut-in for gauge for sixteen (16) days, the well was tested on February 6, 1956, and following a three hour blow-down, gauged an IP of 15,776 MCFGPD with an SIPC of 975# and an SIPT of 864#. The committed drilling block upon which this well is located is described as the W/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Inasmuch

as this drilling block has already been admitted to the Participating Area as an intervening drilling block by the Fifteenth Expansion effective December 1, 1955, it is not included in this Expansion.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates one (1) intervening drilling block described as the E/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of March 1, 1956, the same time as the admission of the San Juan 32-9 Unit Well #28. Drilling must be commenced upon this intervening drilling block by March 1, 1957.

Attached is Schedule XVII showing the Sixteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of March 1, 1956.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R t. Hamblin

Manager

Lease Department

RLH:GBL:rb

cc: Attached list

u (1)

### El Paso Natural Gas Company

El Paso, Texas

February 8, 1956

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe. New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico file

Re: San Juan 32-9 Unit

FIFTEENTH EXPANDED PARTICIPATING AREA Mesaverde Formation Effective December 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon acreage committed to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

#### This well is as follows:

The San Juan 32-9 Unit Well #27, located 940' from the South line and 1040' from the West line of Section 23, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on October 3, 1955, and completed on November 2, 1955, at a total depth of 6265'. The Cliff House section of the Mesaverde Formation between 5698' - 5730' and 5768' - 5780' was treated with a water fracturing process on October 30, 1955. The Point Lookout section of the Mesaverde Formation was also treated with a water fracturing process between 6170' - 6190' and 6196' - 6205' on October 30, 1955. After being shut-in for gauge for nine (9) days, the well was tested on November 11, 1955, and following a three hour blow-down, gauged an IP of 3400 MCFGPD with an SIPC of 970# and an SIPT of 960#. The committed drilling block upon which this well is located is described as the W/2 of Section 23, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates one intervening drilling block described as the W/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of December 1, 1955, the same time as the admission of the San Juan 32-9 Unit Well #27. Drilling must be commenced upon this intervening drilling block by December 1, 1956.

Attached is Schedule XVI showing the Fifteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of December 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hamblin

Manager

Lease Department

RLH:GBL:eb

cc: Attached list



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. Now 6721 Regrell, Now Hexico

February 8, 1956

El Page Natural Gas Company P. O. Box 1492 El Page, Terms

Attentions Mr. R. L. Benblin

Gentlement

Now plan of development dated December 27, 1955, for the San June 38-9 Bedt, New Mexico, for the calcular year 1956, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Very truly yours,

John A. Andreck Regional Oil & Gas Supervisor

Inclosure

Copy to: Vesh (w/engy of plan)
Ourn, of rubble leads, Seats To (Ltr. only)
Oil Cons. Comm, Santa Fe (Ltr. only)

### OIL CONSERVATION COMMISSION P. O. BOX 871

#### SANTA FE, NEW MEXICO

January 30, 1956

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

Attention: Mr. R. L. Hamblin

file

Re: (Ban Juan 32-9 Unit)
San Juan County, New Mexico
1956 Drilling Program

#### Gentlemen:

This is to advise that the Drilling Program for calendar year 1956 for the San Juan 32-9 Unit Area, dated December 27, 1955, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

W. B. Macey Secretary-Director

WBMijh

ec: U. S. Geological Survey, Reswell
Commissioner of Public Lands, Same Fe

### El Paso Natural Gas Company

El Paso, Texas

December 27, 1955

PLEASE RETURN TO LEASE DEPARTMENT

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569

San Juan County, New Mexico 1956 DRILLING PROGRAM

#### Gentlemen:

By letter of December 28, 1954, El Paso Natural Gas Company set forth its Drilling Program for the above captioned unit providing for the drilling of twelve (12) wells in the Mesaverde Formation during the calendar year 1955. Ten (10) of the wells on the program have been completed as follows:

										INIT	IAL	
WELL NAME				DRILLING TRACT			POTEN	<u> </u>	TIED-IN			
San	Juan	32-9	Unit	#21	W/2	Sec.	11,	T-31-N,	R-10-W	9396	MCFGPD	4-7-55
San	Juan	32-9	Unit	#26			•	T-31-N,			MCFGPD	6-14-55
*San	Juan	32-9	Unit	#27	W/2	Sec.	23,	T-32-N,	R-10-W	3400	MCFGPD	No
San	Juan	32-9	Unit	#29	W/2	Sec.	36,	T-32-N,	R-10-W	19529	MCFGPD	No
San	Juan	32-9	Unit	#30	E/2	Sec.	36,	T-32-N,	R-10-W	4833	MCFGPD	No
San	Juan	32-9	Unit	#31	W/2	Sec.	13,	T-31-N,	R-10-W	6979	MCFGPD	6-14-55
San	Juan	32-9	Unit	#33	W/2	Sec.	6,	T-31-N,	R- 9-W	6622	MCFGPD	7-8-55
San	Juan	32-9	Unit	#34	W/2	Sec.	35,	T-32-N,	R-10-W	7337	MCFGPD	6-10-55
San	Juan	32-9	Unit	#35	E/2	Sec.	10.	T-31-N,	R- 9-W	8411	MCFGPD	12-15-55
San	Juan	32-9	Unit	#36			•	T-32-N,			MCFGPD	11-7-55

<sup>\*</sup> The above well was tested on November II, 1955, but has not yet been admitted to the Participating Area.

Two (2) wells on the 1955 Drilling Program have not been completed. The San Juan 32-9 Unit Well #28, located in the W/2 of Section 26, Township 32 North, Range 10 West, is being drilled at this time. Due to difficulties encountered in connection with the drilling of this well the drilling of the San Juan 32-9 Well #25, located in the E/2 of Section 2, Township 31 North, Range 10 West, has been delayed. Both of these wells however will be completed with due diligence by El Paso Natural Gas Company in the near future.

There are at this time thirty (30) commercial wells in the San Juan 32-9 Unit, twenty-nine (29) of which have been admitted to the Participating Area. Of the twenty-nine (29) wells admitted to the Participating Area, twenty-seven (27) have been tied-in to our gathering system.

Total production from the unit from January 1, 1955, through November 30, 1955 was 2,607,258 MCF. The total value from the sale of natural gas, propane, butane, and condensates from January 1, 1955 through November 30, 1955 was \$400,575.76.

Pursuant to Section 10 of the above numbered Unit Agreement, El Paso Natural Gas Company, as Unit Operator, herewith submits its Drilling Program for the period from January 1, 1956 to December 31, 1956.

As Unit Operator we have canvassed all working interest owners in this Unit, and the proposed Drilling Program covers all drilling requests that we have received.

The proposed wells are as follows:

	DRILLING B	FORMATION	
<b>*W/2</b>	Section 2	T-31-N, R-10-W	Mesaverde
*W/2	Section 4	T-31-N, R- 9-W	Mesaverde
E/2	Section 4	T-31-N, R- 9-W	Mesaverde
*E/2	Section 6	T-31-N, R- 9-W	Mesaverde
E/2	Section 11	T-31-N, R-10-W	Mesaverde
*W/2	Section 12	T-31-N, R-10-W	Mesaverde
*E/2	Section 26	T-32-N, R-10-W	Mesaverde
W/2	Section 30	T-32-N, R- 9-W	Mesaverde
*E/2	Section 31	T-32-N, R- 9-W	Mesaverde
*E/2	Section 32	T-32-N, R- 9-W	Mesaverde
*E/2	Section 35	T-32-N, R-10-W	Mesaverde

\* Intervening drilling blocks necessary to be drilled in 1956.

El Paso Natural Gas Company, as Umit Operator, intends to drill all of the above mentioned wells to the base of the Mesaverde Formation using rotary tools. Surface casing of 10-3/4" will be set to approximately 150' below the surface and an intermediate string of 7-5/8" casing will be set through the Pictured Cliffs Formation to a depth of approximately 3200°. From this point a 5-1/2" production string will be set through the Mesaverde Formation, and the casing of the Mesaverde Formation will then be selectively perforated and the Mesaverde Formation will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled in with gas. Due care will be taken to protect all horizons.

All well locations will be in either the NE/4 or the SW/4 of the sections.

If this Drilling Program is acceptable, please signify your approval of the drilling program as required under Section 10 of the Unit Agreement in the space provided below. Please return one approved copy to El Paso Natural Gas Company, Unit Operator.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hamblin

Manager

Lease Department

A PPROVED:	:	DATE:
	Director, United States Geological Survey	
	Subject to like approval by the appropriate Sta-	te officials.
A PPROVED :	·	DATE:
	Commissioner of Public Lands	
	Subject to like approval by the U.S.G.S. and Oi	l Conservation Commission.
APPROVED:	·	DATE:
	Oil Conservation Commission	

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma Attention: Mr. G. E. Benskin

Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas Attention: Mr. Jack Martin

The Atlantic Refining Company
Post Office Box 2819
Dallas, Texas
Attention: Mr. Claude A. Williams

The Texas Company
Drawer 1720
Fort Worth, Texas
Attention: Mr. E. W. Lewis

Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico
Attention: Mr. Forrest Daniell
Attention: Mr. Robert C. Youngmun

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 720 Simms Building Albuquerque, New Mexico Attention: Mr. R. N. Richey

Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas Attention: Miss Margaret Clark

Lucerne Corporation
Mercantile Securities Building
Dallas 1, Texas
Attention: Mr. F. M. Jacobson

Standard Oil Company of Texas Post Office Box 1249 Houston, Texas Attention: Mr. H. W. Mathews

Albuquerque Associated Oil Company First National Bank Building Albuquerque, New Mexico Attention: Mr. Dudley Cornell

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas Attention: Mr. H. Phillips

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico January 18, 1956

El Peso Netural Gas Co.

P. O. Box 1492

El Paso, Texas

fin

Re: San Juan 32-9 Unit )
San Juan County
1956 Drilling Program

#### Gentlement

We are enclosing one copy of the 1956 Drilling Program for the San Juan 32-9 Unit, dated December 27, 1955, which was approved by the Commissioner of Public Lands January 18, 1956, subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Very truly yours,

E. S. WALKER
Commissioner of Public Lands

MMA/m

cc: USGS-Roswell OCC-Santa Fe P

### El Paso Natural Gas Company

El Paso, Texas

December 30, 1955

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico file

Re: San Juan 32-9 Unit No. 14-08-001-569

FOURTEENTH EXPANDED PARTICIPATING AREA

Mesaverde Formation

Effective November 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon acreage committed to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded.

#### These wells are as follows:

The San Juan 32-9 Unit Well #30, located 1750' from the North line and 840' from the East line of Section 36, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on August 27, 1955, and completed on September 28, 1955, at a total depth of 5880'. The Cliff House section of the Mesaverde formation between 5358' and 5426' was treated with a water fracturing process on September 26, 1955. The Point Lookout section of the Mesaverde formation was also treated with a water fracturing process between 5846' and 5874' on September 22, 1955. After being shut-in for gauge for fourteen (14) days, this well was tested on October 11, 1955, and following a three hour blow-down, gauged an IP of 4833 MCFGPD with an SIPC of 1040# and an SIPT of 1041#. The committed drilling block upon which this well is located is described as the E/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. The drilling block upon

which this well is located was included in the San Juan 32-9 Unit Thirteenth Expanded Participating Area, effective October 1, 1955, and is not included herein.

- The San Juan 32-9 Unit Well #35, located 1560' from the North line and 1600' from the East line of Section 10. Township 31 North, Range 9 West, San Juan County, New Mexico, was spudded on August 15, 1955, and completed on September 19, 1955, at a total depth of 5837'. The Cliff House section of the Mesaverde formation was treated with a water fracturing process on September 15, 1955 between 5290' and 5380'. The bottom of the Point Lookout section was treated with a water; and sand fracturing process on September 12, 1955, between 5745' and 5760', and 5775' and 5815'. The top of the Point Lookout section was treated with a water and sand fracturing process on September 14, 1955, between 5630' and 5716'. After being shut-in for gauge for fourteen (14) days, the well was tested on October 3, 1955, and following a three hour blow-down, gauged an IP of 8411 MCFGPD, with an SIPC of 996# and an SIPT of 996#. The completed drilling block upon which this well is located is the E/2 of Section 10, Township 31 North, Range 9 West, containing 320.00 acres.
- 3. The San Juan 32-9 Unit Well #36, located 1150' from the South line and 1150' from the West line of Section 33, Township 32 North, Range 9 West, San Juan County, New Mexico, was spudded on September 21, 1955, and completed on October 15, 1955, at a total depth of 5955'. The Point Lookout section of the Mesaverde formation was treated with a water-sand fracturing process on October 13, 1955, between 5725' and 5882'. After being shut-in for gauge for ten (10) days, the well was tested on October 25, 1955, and following a three hour blow-down, gauged an IP of 3221 MCFGPD, with an SIPC of 1040# and an SIPT of 1036#. The completed drilling block upon which this well is located is the W/2 of Section 33, Township 32 North, Range 9 West, containing 320.00 acres.

The completion of Well #35, located on the E/2 of Section 10, Township 31 North, Range 9 West, does not create any intervening drilling blocks, but the completion of Well #36, located on the W/2 of Section33, Township 32 North, Range 9 West, creates two (2) intervening blocks, which are described as the E/2 of Section 32, Township 32 North, Range 9 West, containing 320.00 acres; and the W/2 of Section 4, Township 31 North, Range 9 West, containing 320.20 acres. Under the terms of the Unit Agreement, these drilling blocks are admitted to the Participating Area as of November 1, 1955. Wells must be commenced on these intervening drilling blocks by November 1, 1956.

Attached is Schedule XV showing the Fourteenth Expanded Participating Area for the Mesaverde formation for the San Juan 32-9 Unit Area. This describes the Ex-

panded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of November 1, 1955.

Very truly yours,

BL PASO NATURAL GAS COMPANY

R. L. Hamblin

Manager

Lease Department

RLH:GBL:rb

cc: Attached list

 $N_{Q_{\widehat{G}}}$ 

### El Paso Natural Gas Company

El Paso, Texas

November 29, 1955

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico fice

Re: San Juan 32-9 Unit
No. 14-08-001-569
THIRTEENTH EXPANDED PARTICIPATING AREA
MESAVERDE FORMATION
Effective October 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

This well is as follows:

San Juan 32-9 Unit Well #29 located 1140' from the South line and 850' from the West line of Section 36, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on July 27, 1955 and completed on August 23, 1955, at a total depth of 5920'. The Cliff House Section of the Mesaverde Formation between 5371' and 5515' was treated with a sand-oil fracturing process on August 20, 1955. After being shut-in for gauge for twenty days, this well was tested on September 12, 1955, and following a three hour blow-down, gauged an IP of 19,529 MCFGPD with an SIPC of 1037# and an SIPT of 1038#. The committed drilling block upon which this well is located is described as the W/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres.

The drilling block upon which this well is located was included in the San Juan 32-9 Unit Tenth Expanded Participating Area effective July 1, 1955, and is not included herein.

The completion of the foregoing well does create, however, two intervening drilling blocks which are included in this expansion. These two intervening drilling blocks are described as the E/2 of Section 35, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres, and the E/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres. Under the terms of the Unit Agreement, these drilling blocks are admitted to the Participating Area as of October 1, 1955. Wells must be commenced on these intervening drilling blocks by October 1, 1956.

Attached is Schedule XIV showing the Thirteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval, this Expanded Participating Area will become effective as of October 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin

Manager

Lease Department

RLH:GBL:eb

cc: Attached List

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma Attention: Mr. G. E. Benskin

Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas Attention: Mr. Jack Martin

The Atlantic Refining Company
Post Office Box 2819
Dallas, Texas
Attention: Mr. Claude A. Williams

The Texas Company
Drawer 1720
Fort Worth, Texas
Attention: Mr. E. W. Lewis

Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico
Attention: Mr. Forrest Daniell
Attention: Mr. Robert C. Youngmun

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 720 Simms Building Albuquerque, New Mexico Attention: Mr. R. N. Richey

Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas Attention: Miss Margaret Clark

Lucerne Corporation
Mercantile Securities Building
Dallas 1, Texas
Attention: Mr. F. M. Jacobson

Standard Oil Company of Texas Post Office Box 1249 Houston, Texas Attention: Mr. H. W. Mathews

Albuquerque Associated Oil Company First National Bank Building Albuquerque, New Mexico Attention: Mr. Dudley Cornell

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas Attention: Mr. H. H. Phillips

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

### El Paso Natural Gas Company

El Paso, Texas

October 21, 1955

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico #498

f:fe

Re: San Juan 32-9 Unit
No. 14-08-001-569
TWELFTH EXPANDED PARTICIPATING AREA
MESAVERDE FORMATION
Effective September 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

#### This well is as follows:

San Juan 32-9 Unit Well # 32 located 990' from the South line and 990' from the West line of Section 31, Township 32 North, Range 9 West, San Juan County, New Mexico, was spudded on June 22, 1955, and completed on July 21, 1955, at a total depth of 6052'. The Cliff House Section of the Mesaverde Formation between 5415' and 5655' was treated with a sand-oil fracturing process on July 20, 1955. The Point Lookout Section of the Mesaverde Formation was also treated with a sand-oil fracturing process between 5720' and 6052' on July 22, 1955. After being shut-in for gauge for ten days, this well was tested on August 3, 1955, and following a three hour blow-down, gauged an IP of 6174 MCFGPD with an SIPC of 994# and an SIPT of 996#. The committed drilling block upon which this well is located is described as the W/2 of Section 31, Township 32 North, Range 9 West, N.M.P.M., containing 197.6 acres.

The inclusion of this well creates one intervening drilling block. This intervening drilling block is described as the E/2 of Section 31, Township 32 North, Range 9 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of September 1, 1955, the same time of admission of the San Juan 32-9 Unit # 32 Well. A well must be commenced on this intervening drilling block by September 1, 1956.

Attached is Schedule XIII showing the Twelfth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval, this Expanded Participating Area will become effective as of September 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hambl

Manager

Lease Department

RLH:GBL:eb

cc: Attached list

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 10 West Wing, Phillips Building BartTesville, Oklahoma

Southern Union Gas Company 1104 Burt Building Dallas 1, Texas Attention: Mr. Howard W. McDade

Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas Attention: Mr. Jack Martin

The Atlantic Refining Company
Post Office Box 2819
Dallas, Texas
Attention: Mr. Claude A. Williams

The Texas Company
Drawer 1720
Fort Worth, Texas
Attention: Mr. E. W. Lewis

Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico
Attention: Mr. Forrest Daniell
Attention: Mr. Robert C. Youngmun

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 720 Simms Building Albuquerque, New Mexico Attention: Mr. R. N. Richey

Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas Attention: Miss Margaret Clark

Lucerne Corporation
Mercantile Securities Building
Dallas 1, Texas
Attention: Mr. F. M. Jacobson

Standard Oil Company of Texas Post Office Box 1249 Houston, Texas Attention: Mr. H. H. Kuester Attention: Mr. H. W. Mathews

Albuquerque Associated Oil Company First National Bank Building Albuquerque, New Mexico Attention: Mr. Dudley Cornell

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas Attention: Mr. H. H. Phillips

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

### El Paso Natural Gas Company

El Paso, Texas

August 30, 1955

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico file

Re: San Juan 32-9 Unit No. 14-08-001-569

Eleventh Expanded Participating

Area

Mesaverde Formation Effective August 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

#### This well is as follows:

San Juan 32-9 Unit Well # 33 located 1180' from the South line and 1090' from the West line of Section 6, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on May 25, 1955, and completed on June 19, 1955 at a total depth of 5780'. The Cliff House Section of the Mesaverde Formation between 5190' and 5350' was treated with a sand-oil fracturing process on June 15, 1955. The Point Lookout Section of the Mesaverde Formation was also treated with a sand-oil fracturing process between 5503' and 5782' on June 18, 1955. After being shut-in for gauge for 17 days this well was tested on July 6, 1955, and following a three hour blow-down, gauged an IP of 6622 MCFGPD

with an SIPC of 1039# and an SIPT of 1040#. The committed drilling block upon which this well is located is described as the W/2 of Section 6, Township 31 North, Range 9 West, N.M.P.M., containing 198.05 acres.

The inclusion of this well creates one intervening drilling block. This intervening drilling block is described as the E/2 of Section 6, Township 31 North, Range 9 West, N.M.P.M., containing 320.60 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of August 1, 1955, the same time of admission of the San Juan 32-9 Unit # 33 Well. A well must be commenced on this intervening drilling block by August 1, 1956.

Attached is Schedule XII showing the Eleventh Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval, this Expanded Participating Area will become effective as of August 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hambli

Manager

Lease Department

RLH:GBL:rb

cc: Attached list

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 10 West Wing, Phillips Building Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas 1, Texas

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. Claude A. Williams
The Atlantic Refining Company
Post Office Box 2819
Dallas, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. Forrest Daniel
Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 520 Simms Building Albuquerque, New Mexico

Miss Margaret Clark Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuque rque Associated Oil Company
First National Bank Building
Albuquerque, New Mexico

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
306 Milam Building
San Antonio, Texas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

### El Paso Natural Gas Company

El Paso, Texas

July 7, 1955

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico



Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Tenth Expanded Participating Area
Mesaverde Formation
Effective June 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that two additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded:

#### These wells are as follows:

1. San Juan 32-9 Unit Well #26 located 1625 feet from the South line and 1000 feet from the West line of Section 1, Township 31 North, Range 10 West, San Juan County, New Mexico. This well was spudded on April 30, 1955, and completed on May 22, 1955 at a total depth of 5780 feet. The Cliff House Section of the Mesaverde formation between 4932 feet and 5220 feet was treated with a sand-oil fracturing process on May 19, 1955. The Point Lookout Section of Mesaverde formation was also treated with a sand-oil fracturing process between 5422 feet and 5780 feet on May 21, 1955. After being shutin for 9 days this well was tested on May 31, 1955, and following a three hour blow-down, gauged an IP of 8948 MCFGPD with an SIPC of 1049# and an SIPT of 1048#. The committed drilling block upon which this well is located is described as the W/2 of Section 1, Township 31 North, Range 10 West, N.M.P.M., containing 320.48 acres.

San Juan 32-9 Unit Well #31 located 1749 feet from the South line and 1649 feet from the West line of Section 13, Township 31 North, Range 10 West, San Juan County, New Mexico. This well was spudded on March 25, 1955, and completed on April 27, 1955 at a total depth of 5797 feet. The Cliff House Section of the Mesaverde formation between 5050 feet and 5239 feet was treated with a sand-oil fracturing process on April 15, 1955. The Point Lookout Section of the Mesaverde formation was also treated with a sand-oil fracturing process between 5540 feet and 5797 feet on April 25, 1955. After being shut-in for 7 days this well was tested on May 4, 1955 and following a three hour blow-down gauged an IP of 6979 MCFGPD with an SIPC of 998# and an SIPT of 997#. The committed drilling block upon which this well is located is described as the W/2 of Section 13, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The inclusion of these wells creates two intervening drilling blocks. These intervening drilling blocks are described as the W/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres, and the W/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement these drilling blocks are admitted to the Participating Area as of June 1, 1955, the same time of admission of the San Juan 32-9 #26 Well and #31 Well. Wells must be commenced on these intervening drilling blocks by June 1, 1956.

Attached is Schedule XI showing the Tenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval, this Expanded Participating Area will become effective as of June 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

r. D. Hampir

Manager

Lease Department

RLH:GBL:rb

cc: Attached list.

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 10 West Wing, Phillips Building Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas 1, Texas

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. Claude A. Williams The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. Forrest Daniel
Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Avenue El Pasc, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 520 Simms Building Albuquerque, New Mexico

Miss Margaret Clark Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. Dudley Cornell Albuque rque Associated Oil Company First National Bank Building Albuquerque, New Mexico

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 306 Milam Building San Antonio, Texas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

## El Paso Natural Gas Company

El Paso, Texas

May 4, 1955

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico



San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Ninth Expanded Participating Area
Mesaverde Formation
Effective April 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that two additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded:

#### These wells are as follows:

.. San Juan 32-9 Unit Well #21 located 990 feet from the South line and 990 feet from the West line of Section 11, Township 31 North, Range 10 West, San Juan County, New Mexico. This well was spudded on January 26, 1955, and completed on February 23, 1955 at a total depth of 5425 feet. The Cliff House Section of the Mesaverde formation between 4745 feet and 4950 feet was treated with a sand-oil fracturing process on February 18, 1955. The Point Lookout Section of the Mesaverde formation was also treated with a sand-oil fracturing process between 5185 feet and 5425 feet on Febreary 22, 1955. After being shut-in for 9 days this well was tested on March 4, 1955 and following a three hour blow-down, gauged 9396 MCFGPD with an SIPC of 1041# and SIPT of 1041#. The committed drilling block upon which this well is located is described as the W/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The state of the s

2. San Juan 32-9 Unit Well #34 located 1550 feet from the South line and 1450 feet from West line of Section 35, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on March 1, 1955 and completed on March 21, 1955 at a total depth of 5409 feet. The Cliff House Section of the Mesaverde fermation between 4800 feet and 4940 feet was treated with a sand-eil fracturing precess on March 18, 1955. The Peint Leekeut Section of the Mesaverde fermation was also treated with a sand-eil fracturing process between 5130 feet and 5430 feet en March 20, 1955. After being shut-im fer 10 days this well was tested on March 31, 1955 and fellowing a three hour blow-down, gauged 7337 MCFGPD with am SIPC of 1057# and SIPT of 1051#. The committed drilling block upon which this well is located is described as the W/2 of Section 35, Tewnship 32 North, Range 10 West, N.M.P.M., centaining 320.00 acres.

The inclusion of these wells creates one intervening drilling block. This intervening drilling block is described as the W/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M., and contains 321.06 acres. Juder the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of April 1, 1955, the same time of admission of the Sam Juan 32-9 #21 Well and #34 Well. A well must be commenced on this intervening drilling block by April 1, 1956.

Attached is Schedule X shewing the Ninth Expanded Participating Area for the Mesaverde Fernation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no efficial approval, no prevision is made, therefore in the absence of disapproval, this Expanded Participating Area will become effective as of April 1, 1955.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin

Manager

Lease Department

RLH:DBM:rb

cc: Attached List.

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark
Three States Natural Gas Company
Corrigan Tower
Dallas, Texas

Mr. Aaron L. Colvin Delhi-Taylor Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas, Texas

Mr. Claude A. Williams
The Atlantic Refining Company
Post Office Box 2819
Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Building
Albuquerque, New Mexico

Mr. Forrest Daniel Pubco Development, Inc. Box 1360 Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas

### EL PALO NATURAL GAS 62 MPANY

EL PASO, TEXAS

March 7, 1955

Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Pe, New Mexico

Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico fill

Re: Part Tract 68

Ban Juan 32-9 Unit
#14-08-001-569

#### Gentlemen:

We are forwarding herewith one (1) copy of Ratification and Joinder executed by the parties indicated below committing their basic royalty interests in the SW/4 MW/4, Section 14, Township 31 Morth, Range 10 West, containing 40 acres more or less, being a part of Tract Number 68. As a matter of additional information we call to your attention that the working interest is owned one-half (1/2) by El Paso Matural Gas Company and one-half (1/2) by Brookhaven Oil Company.

- Ratification and Joinder executed by Southland Boyalty Company committing their 7.8125% basic royalty in the foregoing lands.
- 2. Ratification and Joinder executed by O. L. Malone and Farrabbelle Malone committing their .78125% basic royalty in the foregoing lands.
- 3. Ratification and Joinder executed by M. H. Ford and Fauline Ford committing their .78125% basic royalty in the foregoing lands.
- 4. Ratification and Joinder executed by A. F. Reese and Katie Lee Reese committing their 3.125% basic royalty in the foregoing lands.

These Ratifications and Joinders have been consented to and approved by El Paso Natural Gas Company and Brookhaven Oil Company as working interest owners. Although these parties are not shown in the present Exhibit "B" said Exhibit will be revised in the near future and such changes will be incorporated therein.

Very truly yours,

T. W. Bittick Area Landman Lease Department

TWB/BOM/mas Enclosures

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execut Development and Operation of the	ion of the Unit Agreement San Juan 32-9 Unit	for the
Development and Operation of the Area located within the County of	San Juan	State of
New Mexico in form approved on behalf of	the Secretary of the Int	erior, the
undersigned owners of lands or leases, of		
presently held or which may arise under		
interests in production covered by said		
to the extent of his or her particular of		
consent to the inclusion of said lands w		
ratify, approve and adopt the terms of s		
tions thereof approved by the Secretary		
representative as applicable to said sev		
the term of any lease given by the under		
claims an interest herein is extended an		
make the same conform to the terms of sa		
ing, development and producing requirement		
in which their several rights and interest		
deemed fully performed by performance of and agree that payment for or delivery of		
prior agreements) oil and gas duly made		
duction allocated under said Unit Agreements		
such rights or interests do or shall app		
therefrom, shall constitute full perform		
undersigned existing under such leases of		OILD CO CIIC

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
611 Fort Worth National Bank Bldg.	SOUTHLAND ROYALTY, COMPANY
Fort Worth, Texas	By: N. N. Sorter Vice-Pres.
Date:	·
	ATTEST: Pollonen Secretary
Date:	

GAS COMPANY

WORKING INTEREST OWNER

APPROVED AND COMBENTED TO:

WORKING INTEREST OWNER

STATE OF	)	
COUNTY OF TARBABT	) SS.: )	
_ 4:	<b>S</b>	
On this 1	day of	, 195, before me appeared
he so Post at the bar of the second of the s	d car that he da	the vice President of
MALL COPIES,		and that the seal affixed to said instrument
and sealed in behalf	of said corporat	tion, and that said instrument was signed ion by authority of its board of directors,
and said the free act and dee	TAKE .	acknowledged said instrument to be
	-	
		hereunto set my hand and affixed my official cate first above written.
My Commission expire	8\$	
June 1, 1955		(Rom 0. Andth)
		Notary Public in and for
		County,
		State of
STATE OF	)	
COUNTY OF	) SS.:	
	,	
going instrument, an and deed.	d acknowledged to	and ons described in and who executed the fore- one they executed the same as their free act
My Commission expire	81	
	·	Notary Public in and for
		State of
STATE OF	)	
COUNTY OF	) SS.:	
	, ,	, 195, before me personally
appeared	in and who execu he executed the	, a single person, to me known to be ited the foregoing instrument, and acknowledge same asfree act and deed.
My Commission expire	88	
:		
<del></del>		
		Notary Public in and for County,
		State ofCounty,

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 32-9 Unit
Area located within the County ofSan JuanState of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement.
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
116 B. Fern Ave.	O X Justine
Redlands, California	Jarrah Belle Malan Farrahbell Maione
Date: 8-2-5-4	
ange of drange St. 233 So Change St	
Orange Cauj	Hurriette & Clark MY DOMNIBBION EXPIRES AUG. 22, 1848
Date: Sept 13th 1954	Orange Prange Calif
APPROVED AND CONSCRIPT TO:	APPROVED AND CONSENTED TO:
EL PASO NATIONAL MASCONIANY	BROOKHAVEN OIL COMPANY
By Vice President	By Shandster

UNIT OPERATOR

STATE OF	
COUNTY OF ) SS.:	
On thisday of	, 195, before me appeared
is the corporate seal of said corporation and sealed in behalf of said corporation and said the free act and deed of said corporation the free act and deed of said corporation.	n by authority of its board of directors,acknowledged said instrument to be on. reunto set my hand and affixed my official
My Commission expires:	
	Notary Public in and for
	State ofCounty,
mis wile, to me known to be the persons	d Jarrah Bulle Malone described in and who executed the forese they executed the same as their free act
My Commission expires:	Henrietta & Clark
ling 22 1958	Notary Public in and for Orange  County,  State of Colfornia.
STATE OF ) SS.: COUNTY OF )	
On thisday of	, 195, before me personally
appeared	, a single person, to me known to be d the foregoing instrument, and acknowledged ame asfree act and deed.
My Commission expires:	
	Notary Public in and forCounty,

State of\_

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 32-9 Unit
Development and Operation of the San Juan 32-9 Unit
Area located within the County of San Juan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
Lubbock, Texas	In It and
	Pauline Land
	Pauline Ford
Date: Preprit 17, 1954	
	•
Date:	

APPROVED AND CONSCIPED TO:
EL PASO MATORAL CAS COMPAN

Vice President

WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:

BROOKHAVEN OIL COMPANY

Wice President

WORKING INTEREST OWNER

STATE OF	) ) SS.:	
COUNTY OF	) 55.:	
On this	day of	, 195, before me appeared
		, to me personally known, who, being
y me duly sworn, di	d say that he is the	, to me personally known, who, being President of that the seal affixed to said instrument
	al of said corporation	n, and that said instrument was signed by authority of its board of directors, acknowledged said instrument to be n.
the free act and dee	d of said corporation	n.
		eunto set my hand and affixed my official e first above written.
My Commission expire	<b>s:</b>	
		Notary Public in and for
		State ofCounty,
		50500
Texas		
STATE OF Lubbock	) ) SS.:	
COUNTY OF	)	
On this_	day of	, 195, before me appeared Pauline Ford
	and	
nis wife, to me know going instrument, ar and deed.	m to be the persons on the decknowledged to me	described in and who executed the fore- they executed the same as their free act
My Commission expire	es:	
June 1, 1955		Jue wloy Joe Box
	<del></del>	
		Notary Public in and for
		State of
STATE OF	)	
COUNTY OF	) SS.: )	
	dev of	, 195, before me personally
appeared the person described to me that	i in and who executed he executed the sa	, a single person, to me known to be the foregoing instrument, and acknowledge me asfree act and deed.
My Commission expire	∋s <b>:</b>	
		Notary Public in and for
		Notary Public in and forCounty, State of
		مير مسيد مير ميريد و ميريد و ميريد و الميريد و الم

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#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the
and the second s
Development and Operation of the San Juan 32-9
Area located within the County of San Juan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.
This Ratification and Joinder of Unit Agreement may be executed in
any number of counterparts with the same force and effect as if all parties
had signed the same document and shall be binding upon all those who execute

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS	SIGNATURE
Shallowater, Texas	afthuse
Shallowater La	Katre Lu Relse
Date: 0119.31, 1954	Entie Lee Reese
Date:	
ADDROVED AND CONSENTED TO . AD	DPOVED AND CONCENTED TO

BROOKHAVEN OIL COMPANY

WORKING INTEREST OWNER

EL PASO NATURAL GAS COMPANY

WORKING INTEREST OWNER

Vice President

STATE OF	) ) SS.:	
COUNTY OF	) 55.:	
On this	day of	, 195, before me appeared
by me duly sworn, di	ld say that he is th	to me personally known, who, being President of
and sealed in behalf	al of said corporation of said corporation	d that the seal affixed to said instrument on, and that said instrument was signed in by authority of its board of directors, acknowledged said instrument to be on.
the free act and dee	d of said corporati	on.
		reunto set my hand and affixed my official te first above written.
My Commission expire	s:	
		Notary Public in and for
		State ofCounty,
		State of
STATE OF Texas  COUNTY OF Lubbock	)	
COUNTY OF Lubbock	) 55.:	
	·	
	13 day of Septemb	per , 195 4 , before me appeared
A. F. Reese	an	dKatie Lee Reese
	m to be the persons	described in and who executed the fore- e they executed the same as their free act
My Commission expire	51	
June 1, 1955	· · · · · · · · ·	E. G. Blair
<del></del>		
		Notary Public in and for Lubbock County,
		State of Texas
		·
STATE OF	<b>\</b>	
SIRIE OF	) SS.:	
COUNTY OF	)	
On this	day of	, 195, before me personally
appeared		, a single person, to me known to be
the person described	l in and who execute	d the foregoing instrument, and acknowledged same asfree act and deed.
My Commission expire	<b>:</b> s:	
	·	
		Notary Public in and for County,
	and the second second	- voui vy j

State of

# El Paso Natural Gas Company El Paso, Texas February 17, 1955

Director United States Geological Survey Department of the Interior Washington, D. C.

Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit

#14-08-001-569

San Juan County, New Mexico

#### Gentlemen:

This is to advise that the Drilling Program for the Calendar year 1955, regarding this Unit, was approved by the appropriate State and Federal Authorities as follows:

- 1. Approved February 4, 1955, by the Regional Oil and Gas Supervisor of the United States Geological Survey.
- 2. Approved January 21, 1955, by the Commissioner of Public Lands of the State of New Mexico.
- 3. Approved February 10, 1955, by the Oil Conservation Commission of the State of New Mexico.

Very truly yours,

T. W. Bittick Area Landman Lease Department

TWB/DBM/mas

cc: Attached List

#### OIL CONSERVATION COMMISSIO.

P. O. BOX 871

#### SANTA FE, NEW MEXICO

February 9, 1955

pier 498

· El Pase Natural Gas Company

P. O. Bex 1492

El Paso, Texas

Attention: Mr. R. L. Hamblin

Re: San Juan 32-9 Unit
San Juan County, New Mexico
1955 Drilling Program

#### Gentlemen:

This is to advise that the Plan of Development for calendar year 1955 for the subject unit, dated December 28, 1954, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is herewith returned.

Very truly yours,

Far

W. B. Macey Secretary - Director

WBM:jh

ce: USGS - Roswell

Commissioner of Public Lands - Santa Fe

#### OIL JONSERVATION COMMISSIO.

P. O. BOX 871

#### SANTA FE. NEW MEXICO

2. car. my 4, 1955

884 deig

El Paso Natural Cas Company P. O. Box 1492

El Paso, Texas

Attention: Mr. E. L. sambling

et e ek 2-6 **alk** ven e e**omes, New** Beaken 1955 - Nag May Marana

#### Gentlemen:

This is to says we that ti lian of herefore where conductions 1955 for the subject unit, dated recomber 25, iv. at this late been approved by the base hereo Od raser warren Combined and, angled to like approval by the United States Reological Survey of Ey the Conditionaler of Public Lands of the state of Eve Mexico.

One approved copy of the Plan is corewise. Correct

. 4746 - 190 (75)

Wy.

N. E. . ac. Secret by - conser

WBM:jh

cc: US(IS - Roswell

Commissioner of Public Las it a Santa Re-



## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. New 6721 Recycll, New Mexico

Polymery 4, 1955

El Paso Habural Gas Company El Paso Habural Gas Building El Paso, Touras

#### Good Leanner

The plan of development dated December 25, 1954, for the San Juan 32-9 unit area, New Mexico, No. 14-08-002-569, has been approved on this date, subject to like approval by the appropriate State officials.

In addition to the proposed wells listed in the plan of development, adequate affect wells must be drilled to protect the unit area from drainage as provided in the unit agreement.

One approved copy of said plan is returned herewith,

Yery truly yours,

JOHN A. ANTENSON Regional Oil and Gas Supervisor

Comer to:

✓ N.M. O. C. C., Santa Fe (ltr only)



# COMPANIES DEPARTMENT OF THE NATES OF GEORGE

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"我们是工人" 医胸头 电线电路 "你满头"等于

Colonia Park Carrier Said to

Carrier Cossilie

#194833 (210.3)\*

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copy to:

/N.M. O. C. C. Sarta Schiltricals)

### El Paso Natural Gas Company

El Paso, Texas

December 28, 1954

Mr. John A. Anderson Regional Supervisor United States Geological Survey Department of the Interior Post Office Building Roswell, New Mexico

Mr. E. S. Walker Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Mr. W. B. Macey, Secretary Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1955 Drilling Program

#### Gentlemen:

By letter dated February 23, 1954, El Paso Natural Gas Company, as Unit Operator, filed a drilling program regarding the captioned Unit for the calendar year 1954. All of the wells on this drilling program were completed upon this Unit during such period as follows:

			Initial	
Well Name		Drilling Tract	Potential	Tied In
*San Juan 3	32-9 #9	W/2 25-32-10	4,832	8-31-54
San Juan 3	<b>2-9 #16</b>	E/2 8-31-9	3,490	4-27-54
San Juan 3	2-9 #17	W/2 8-31-9	3,042	4-27-54
San Juan 3	2-9 #18	W/2 17-31-9	5,011	7-5-54
San Juan 3	2-9 #19	E/Ž 17-31-9	3,937	7-5-54
San Juan 3	32-9 #20	E/2.18-31-9	4,742	7-4-54
San Juan 3	32-9 #22	W/2 14-31-10	4,832	9-17-54
San Juan 3	<b>2-9 #23</b>	W/2 5-31-9	4,474	7-7-54
San Juan 3	32-9 #24	E/2 5-31-9	1,948	10-12-54

\*This well actually commenced in 1953, but completion delayed due to weather conditions.

Twenty-three wells have been drilled to the Mesaverde Formation upon lands committed to the Unit. Of these 23 wells 19 have been determined to be capable of producing unitized substances in paying quantities

and have been admitted to the Mesaverde participating area. All 19 wells in the present participating area are producing into El Paso's gathering system.

El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a drilling program for the calendar year 1955, consisting of twelve (12) wells to be drilled to the Mesaverde Formation: such drilling program to constitute all of our drilling obligations for such year. These proposed drilling sites are listed below as follows:

- (1) W/2 Section 23 32N 10W
- (2) W/2 Section 26 32N 10W
- (3) W/2 Section 35 32N 10W
- (4) E/2 Section 36 32N 10W
- (5) W/2 Section 36 32N 10W
- (6) W/2 Section 1 31N 10W (7) E/2 Section 2 31N 10W
- (8) W/2 Section 11 31N 10W
- (9) W/2 Section 13 31N 10W
- (10) W/2 Section 33 32N 9W
- (11) W/2 Section 6 31N 9W
- (12) E/2 Section 10 31N 9W

El Paso Natural Gas Company, as Unit Operator, intends to drill all wells to the base of the Mesaverde Formation, using rotary tools. Surface casing of 9 5/8" diameter will be set to approximately 180' and then a production string of 7" casing will be set down to the top of the Mesaverde Formation. The entire Mesaverde Formation will be drilled in with gas. The Cliff House and Point Lookout sands of the Mesaverde Formation will be separately treated with a sand-oil fracturing process. Due care will be taken to protect all horizons.

All of the working interest owners have been contacted and this drilling program reflects, insofar as possible, their requests for additional drilling.

If this drilling program is acceptable, please signify your approval of this drilling program as required under Section 10 of the Unit Agreement in the space provided below, and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Manager

Lease Department

APPROVED	) <b>:</b>	Date:
	Supervisor, United States Geological Survey	
	Subject to like approval by the appropriate	State officials.
APPROVED:	Commissioner of Public Lands	Date:
	Subject to like approval by the U.S.G.S. and	Oil Conservation Commission.
APPROVED:	/s/ wom	Date: 2/9/55
	Oil Conservation Commission	

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark Three States Natural Gas Company Corrigan Tower Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams
The Atlantic Refining Co.
P. O. Box 2819
Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Bldg.
Albuquerque, New Mexico

Mr. Forrest Daniel
Pubco Development, Inc.
Box 1360
Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Ave. El Paso, Texas Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas

# El Paso Natural Gas Company MANI CEFICE CORPENTH FLOOR BASSETT TOWER

1 7 1/ 2 M 9:40 El Paso, Texas

October 28, 1954

Commissioner of Public Lands of the State of New Maxico State Land Office Capitol Annex Building Santa Fe, New Mexico LAND

Oil Conservation Commission of the State of New Mexico State Land Office Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

#### Gentlemen:

Attached hereto is one (1) copy of Ratification and Joinder of Unit Agreement executed by Louvilla Sheets committing her interest in Tract 27 to the above captioned Unit.

We ask that you process this Ratification in the usual manner in order to effectively commit this interest to the Unit.

Very truly yours,

T. W. Bittick Area Landman Lease Department

TWB/DBM/mas Enclosure



#### RATIFICATION AND JOINDER OF UNIT AGREEMENT,

nagy**e¥** ≺e**cc** 

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 32 - 9 Unit
Area located within the County of San Juan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.
mmer staned eviscinal miner anen tegaes of acher contraces.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
1010 N Dustin	Sommethe Sheetz
Formington NM ex.	
Formington NM ex.  Date: April 1 - 54	
Date:	
APPROVED AND CONSISTED TO:	
By RESOLUTION OF COMPANY	APPROVED AND COMMENTED TO:
Vice President WORKING INTEREST OWNER	By WCommit sel

WORKING INTEREST OWNER

Tro T #27

STATE OF	)	
COUNTY OF	) SS.: )	
On this	day of	, 195, before me appeared
1		, to me personally known, who, beingPresident of
	and	that the seal affixed to said instrument
and sealed in behalf	of said corporation	by authority of its board of directors,  acknowledged said instrument to be
the free act and deed	of said corporation	•
IN WITNESS to seal the day and year		cunto set my hand and affixed my official first above written.
My Commission expires	:	
	-	
		Notary Public in and forCounty,
		State of
STATE OF	)	
COUNTY OF	) SS.:	
	•	
On this	day of	, 195, before me appeared
his wife to me known	to be the persons d	escribed in and who executed the fore-
		they executed the same as their free act
My Commission expires	:	
	_	
	_	Notary Public in and for
		County,
		State of
		•
STATE OF NEW MEXICO	)	
COUNTY OF SAN JUAN	) 55.:	
On this 14	th day of Aug	ust , 195 4 , before me personally
the person described :	in and who executed	, a single person, to me known to be the foregoing instrument, and acknowledged me as her free act and deed.
My Commission expires	:	
March 31, 1957	_	Thelma Clayton
		Notary Public in and for San Juan County,
		State of New Mexico

El Paso Natural Gas Company La Co

El Paso, Texas

December 21, 1954

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit San Juan County, New Mexico

1110 110

#### Gentlemen:

Attached hereto is one (1) copy of Ratification and Joinder to the captioned Unit, executed by H. K. and Dena Riddle, committing their overriding royalty interest in Tracts 4 and 6.

We call to your attention that the overriding royalty interest owned by the Riddles are not now shown in Exhibit "B" to the Unit Agreement. Such interest, however, will be included in a revised Exhibit "B" sometime in the near future. As a matter of information the Riddles own a seven and one-half  $(7\frac{1}{2})$  per cent overriding royalty under Tract 4 which is in addition to the five per cent (5%) override shown in said Exhibit "B" to be owned by Alyce Erickson, et al. As to Tract 6, the Riddles own a five per cent (5%) override which reduces to two per cent (2%) on gas when production is below 500 MCFPD. As a matter of additional information, Tract 6 is also burdened by a five per cent (5%) override which is owned by Helen P. Prichard and a 2.5% override owned by Richard M. Godfrey which are in addition to the one per cent (1%) shown in the Exhibit to be owned by Robert Storey, Jr .

We respectfully ask that you process this Ratification and Joinder in the usual manner in order to effectively commit

TILL

such interests to this Unit.

Very truly yours,

T. W. Bittick Area Landman Lease Department

TWB/DM/mp

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the
Development and Operation of the San Juan 32-9 Unit
Area located within the County of San Inan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
P. O BOX 1055	A. B. Kindle
ALBUQUERQUE N.M.	M. K. Riddle
ALBUGUERQUE N.M.  Date: Sune 19,54	Dena Riddle
•	
Date:	

DELHI OIL CORPORATION

WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:

APPROVED AND CONSENTED TO:

EL FASS NATURAL GAS COMPANY

By Vice President

WORKING INTEREST OWNER

774 8446 NM-1101

STATE OF )	
COUNTY OF ) SS.:	
•	
On thisday of	, 195, before me appeared
by me duly sworn, did say that he is the	, to me personally known, who, being
and to is the corporate seal of said corporation, and sealed in behalf of said corporation behalf said the free act and deed of said corporation.	that the seal affixed to said instrument and that said instrument was signed by authority of its board of directors,
	unto set my hand and affixed my official
My Commission expires:	
	Notary Public in and for
	State of
STATE OF OREGON )	
COUNTY OF MALHEUR )	
,	
On this 19th day of June	, 1954, before me appeared
H. K. Riddle and	
his wife, to me known to be the persons de going instrument, and acknowledged to me tand deed.	scribed in and who executed the fore-
My Commission expires:	
March 11, 1958	Hunt a Johnson
	Notary Public in and for
	Malheur Gounty, State of Oregon.
STATE OF OREGON )	
COUNTY OF MALHEUR )	
·	, 1954 , before me personally
	, a single person, to me known to be
the person described in and who executed t	
to me that he executed the same	the foregoing instrument, and acknowledged
to me thathe executed the same My Commission expires:	the foregoing instrument, and acknowledged
to me that he executed the same	the foregoing instrument, and acknowledged
to me that he executed the same	the foregoing instrument, and acknowledged

El Paso Natural Gas Company OFFICE COO

TENTH FLOOR BASSETT TOWER

1198

El Paso, Texas

August 18, 1954

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Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: Sam Juan 32-9 Unit

San Juan County, New Mexico

#### Gentlemen:

Enclosed herewith please find the following Ratification and Joinders of Unit Agreement and Unit Operating Agreement committing various interests to the above captioned Unit:

- 1. One (1) copy of Ratification and Joinder of Unit Agreement executed by Gladys E. DeJarnette et vir, committing their basic royalty interest under Tract 68 to the above captioned Unit. This instrument has been filed with the United States Geological Survey and has been placed of record in the office of the County Recorder, San Juan County, New Mexico on July 31, 1954, in Volume 254, Page 90.
- 2. One (1) copy of Ratification and Joinder of Unit Agreement executed by Dan R. Ponder et ux, and John R. Brennand et ux, committing their basic royalty interest under Tract 68 to the above captioned Unit. This instrument has been filed with the United States Geological Survey and has been placed of record in the office of the County Recorder, San Juan County, New Mexico on July 31, 1954, in Volume 254, Page 89.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T. W. Bittick

Area Landman Lease Department

Enclosures

TWB/ROB/mas

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark Three States Natural Gas Company Corrigan Tower Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Bldg.
Albuquerque, New Mexico

Mr. Forrest Daniel Pubco Development, Inc. Box 1360 Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Ave. El Paso, Texas Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

Add to

كالمكتاب أأراها والأ

In consideration of the execution of the Unit Agreement for within the County of Rio Artha, State of New Mexico, in form approved Unit Area located on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS	SIGNATURE  SIGNATURE  SIGNATURE  OLA & p. De Jamette
Date: aug 3, 1913	
	Liland R. Sefarutt
Date: 0 3-1953	Leland R. DeJarnette
Approved and accepted by: Stanolind Oil and Gas Company Working Interest Owner  ApproveD Tr	rnet 68

STATE OF	
COUNTY OF ) SS.:	
On this day of appeared being by me duly sworn, did say that and instrument is the corporate seal of sinstrument was signed and sealed in lauthority of its board of directors, acknowledged said instrument to be the corporation.	said corporation, and that said behalf of said corporation by and said
IN WITNESS WHEREOF, I have my official seal the day and year in	hereunto set my hand and affixed this certificate first above written.
My Commission expires:	
·	Notary Public in and forCounty,
STATE OF Calif ) SS.: COUNTY OF Los Angeles	
On this 3rd day of Au	gust , 1953, before me
appeared Leland R De Jarnette his wife, to me known to be the perso the foregoing instrument, and acknow as their free act and deed.  My Commission expires:	ons described in and who executed
	Notary Public in and Ter Los Angeles County, State of California
STATE OF ) COUNTY OF )	
On thisday of	, 195, before
me personally appeared person, to me known to be the person foregoing instrument, and acknowledg the same as free act and d	ed to me thathe executed
My Commission expires:	
	Notary Public in and forCounty,

State of \_

### El Paso Natural Gas Company

El Paso, Texas

February 27, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell. New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico TWENTY-FOURTH EXPANDED PARTICIPATING AREA Mesaverde Formation Effective January 1, 1958

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

> The San Juan 32-9 Unit #54-14 Well is located 1150' from the South line and 1120' from the West line of Section 14, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on November 11, 1957, and completed on November 30,1957 at a total depth of 6246'. The Mesaverde Formation between 5748' - 5756', 5842' - 5846', 5864' - 5972', 5976' -5984', 6050' - 6074', 6080' - 6086', 6088' - 6094', 6096' -6100', 6106' - 6126', 6130' - 6146', 6152' - 6164', 6194' -6198', 6200' - 6204', 6228' - 6238' was treated with a sandwater fracturing process. After being shut-in for gauge for nine (9) days the well was tested on December 9, 1957, and following a three (3) hour blow-down period gauged 2622 MCFGPD through a 3/4" choke and 3483 MCFGPD by the calculated absolute open flow method with an SIPC of 1052# and an SIPT of 947#. The

committed drilling block upon which this well is located is described as the W/2 of Section 14, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on December 9, 1957.

The inclusion of the above described well into the participating area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XXV showing the Twenty-Fourth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval no provision is made therefor, and in the absence of disapproval, this Twenty-Fourth Expanded Participating Area will become effective as of January 1, 1958.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T W Dittiok

Assistant Manager Land Department

TWB:SHM:pc Enclosure

cc: Attached List

San Juan 32-9 Unit Working Interest Owners

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. W. J. Stewart The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1, Texas

Petro-Atlas Corporation First National Building Tulsa 3, Oklahoma

Petro-Atlas Corporation Post Office Box 517 Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Bldg. Dallas 1, Texas

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 314 Milam Building San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

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Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

(CONTINUED)

Page 2 San Juan 32-9 Unit Working Interest Owners

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Suzette M. Zurcher 110 North Wacker Drive Chicago 6, Illinois Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas

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Nancy H. Haskins 1318 Judson Avenue Evanston, Illinois

James Simpson, Jr. 111 West Washington Street Chicago 2, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

(CONTINUED)

Page 3 San Juan 32-9 Unit Working Interest Owners

Margaret S. MacDonald c/o Trust Department, Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

John M. Simpson 111 West Washington Street Chicago 2, Illinois

Frederic F. Webster 111 West Washington Street Chicago 2, Illinois

John Stuart 345 Merchandise Mart Chicago 54, Illinois

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Catherine M. Ruml
1 North La Salle Street
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Mary S. Zick 436 Glendale Winnetka, Illinois

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Nora R. Ranney RFD Casey Road Libertyville, Illinois

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Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones
Post Office Box 1637
Midland, Texas

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas

1 FT ... TO 2.12

In reply refer to: Unit Division

February 10, 1958

El Paso Matural Gas Company P. O. Box 1492 El Paso, Texas

Re: San Juan 32-9 Unit

Third Supplemental 1957

DRILLING PROGRAM

Attention: Mr. T. W. Bittick

Gentlemen:

We are enclosing the Third Supplemental 1957 Drilling Program for the San Juan 32-9 Unit, which was approved by the Commissioner of Public Lands February 10, 1958.

Very truly yours,

MURRAY'E. MORGAH, Commissioner of Public Lands

By:

Ted Bilberry, Supervisor Oil and Gas Division

HEM/HOR/s

cc:

Oil Conservation Commission Santa Fe, New Mexico

United States Geological Survey Roswell, Hew Mexico



#### **UNITED STATES** DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

DAD / Digg Roswell, New Mexico

P. O. Box 6721

February 6, 1958

El Pase Matural Gas Company

7. 0. Box 1402

11 Pess, Tenes

#### Goot lemen:

The Third Supplemental Plan of Development for 1957, dated January 27, 1958, for the San Juan 32-9 unit area, No. 14-08-001-569. San Juan County, New Muxico, has been approved today subject to like approval by the appropriate State officials. The Third Supplemental Fian proposes the drilling of one additional well to the Meseverde Sermation during 1957.

Two approved copies of said plan are enclosed.

Very truly years,

JAMES A. MANY Acting Oil and Gas Supervisor

Copy to: Machingto a (w/copy of plan) Farmington (w/copy of plan) , MOSC, Santa Pe (Letter only) January 27, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
THIRD SUPPLEMENTAL 1957 DRILLING PROGRAM

#### Gentlemen:

By letter dated December 28, 1956, El Paso Natural Gas Company, as Unit Operator, filed its 1957 Drilling Program for the above captioned unit, providing for the drilling of six (6) wells in the Mesaverde Formation between the dates of January 1, 1957, and December 31, 1957. The 1957 Drilling Program was approved by the United States Geological Survey on February 4, 1957, the Commissioner of Public Lands of the State of New Mexico on January 7, 1957, and the Oil Conservation Commission of the State of New Mexico on February 28, 1957.

By letters dated July 16, 1957, and October 31, 1957, El Paso Natural Gas Company, as Unit Operator, filed Supplemental Drilling Programs for the captioned unit, each providing for the drilling of one (1) additional well, said wells to be completed in the Mesaverde Formation, and located in the W/2 of Section 12, Township 32 North, Range 10 West, and the W/2 of Section 14, Township 32 North, Range 9 West, respectively.

The Supplemental 1957 Drilling Program dated July 16, 1957, was approved by the United States Geological Survey on July 17, 1957, by the Commissioner of Public Lands of the State of New Mexico on July 22, 1957, and by the Oil Conservation Commission of the State of New Mexico on August 26, 1957.

The Supplemental 1957 Drilling Program dated October 31, 1957, was approved by the United States Geological Survey on November 14, 1957, by the Commissioner of Public Lands of the State of New Mexico on November 13, 1957, and by the Oil Conservation Commission of the State of New Mexico on November 21, 1957.

Pacific Northwest Pipeline Corporation, as sole working interest owner on the following described drilling block, is now desirous of drilling one (1) additional well. El Paso Natural Gas Company, as Unit Operator, hereby consents to the drilling of said well. The well is to be drilled to the Mesaverde Formation on a Mesaverde drilling block, as hereinafter set forth. Therefore, pursuant to Section 10 of the above mentioned Unit Agreement, herewith submitted is the Proposed Third Supplemental Drilling Program for the balance of the calendar year 1957, providing for the drilling of the following well:

#### DRILLING BLOCK

#### FORMATION

W/2 Section 13, T 32N, R 9W

Mesaverde

Pacific Northwest Pipeline Corporation, as sole working interest owner of the stated drilling block intends to drill said well employing the same drilling and completion methods as used by El Paso Natural Gas Company, as set out in the San Juan 32-9 Unit 1957 Drilling Program, dated December 28, 1957.

If this Third Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet, and return an approved copy to El Paso Natural Gas Company.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Assistant Manager

Land Department

TWB:SHM:cl

cc: Attached list

APPROVED	DATE:			
	Supervisor, United States Geological Survey			
	Subject to like approval by the appropriate State officials.			
APPROVED	DATE:			
	Commissioner of Public Lands			
	Subject to like approval by the United States Geological Survey and the			
	Oil Conservation Commission.			
APPROVED	1. Uh. Parter 1 DATE: 3/28/58			
	Oil Conservation Commission/			
	Subject to like approval by the United States Geological Survey and the			
	Commissioner of Public Lands.			

The foregoing approvals are for the Third Supplemental 1957 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico.

#### San Juan 32-9 Unit - Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Petro-Atlas Corporation First National Building Tulsa 3. Oklahoma

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

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Mr. H. L. Snider, Jr. Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

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Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Wood River Oil and Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

Sterling Morton 120 South La Salle Street Chicago, Illinois

(Continued)

(Continued)

Page 2 San Juan 32-9 Unit Working Interest Owners

Mr. Roy E. Bard 208 South La Salle Street, Room 510 Chicago 4, Illinois

Ralph A. Bard 208 South La Salle Street, Room 504 Chicago 4, Illinois

Cortland T. Hill 606 South Hills Street Los Angeles, California

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Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

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James Simpson, Jr.
111 West Washington Street
Chicago 2, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

John M. Simpson 111 West Washington Street Chicago 2, Illinois (continued)

Frederic F. Webster 111 West Washington Street

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Suzanne La Force Baber 217 South Lassen Street Willows, California

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas

### El Paso Natural Gas Company

El Paso, Texas

January 20, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

1958 Drilling Program

#### Gentlemen:

By letter dated December 28, 1956, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1957. Said Program and Supplements thereto provided for the drilling of eight (8) Mesaverde wells. All eight (8) wells have been completed upon lands committed to the Unit, and have been admitted or are in the process of being admitted to the Participating Area.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Mesaverde (Commercial) 51 Mesaverde (Non-Commercial) 4

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is herewith submitting this Drilling Program providing for the drilling of the following described wells during the period from January 1, 1958 to December 31, 1958:

Drilling	Block	Formation
W/2 Section 2,	T-31-N, R-9-W	Mesaverde
E/2 Section 2,	T-31-N, R-9-W	Mesaverde
E/2 Section 9,	T-31-N, R-9-W	Mesaverde
E/2 Section 14,	T-32-N, R-10-W	Mesaverde
E/2 Section 16,	T-32-N, R-9-W	Mesaverde
W/2 Section 19,	T-32-N, R-9-W	Mesaverde
E/2 Section 28,	T-32-N, R-9-W	Mesaverde
W/2 Section 36,	T-32-N, R-9-W	Mesaverde
E/2 Section 36,	T-32-N, R-9-W	Mesaverde

In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, also plans to drill any off-set wells required to prevent drainage of unitized substances, and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde wells to the base of the Mesaverde Formation using rotary tools. Surface casing of  $10\ 3/4$ " will be set to approximately 150' below the surface and an intermediate string of  $7\ 5/8$ " will be set through the Pictured Cliffs Formation to a depth of approximately 3200'. A  $5\ 1/2$ " production string will be set through the Mesaverde Formation, and the casing of the Mesaverde Formation will then be selectively perforated and the Mesaverde will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

All of the Working Interest Owners have been notified and this Drilling Program reflects, insofar as possible, their requests for additional drilling.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet, and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Manager

Land Department

SS:SHM:pc

cc: Attached List

APPROVED:		DATE:
•	Supervisor, United States Geological Survey	
	Subject to like approval by the appropriate	•
	State officials.	
APPROVED:		DATE:
•	Commissioner of Public Lands	
	Subject to like approval by the United States	
	Geological Survey and the Oil Conservation	
	Commission.	
APPROVED:	Af Peta 1	DATE: 4-14-18
ALTIOVED.	Oil Conservation Commission	- JAII. 27-7- V
	Subject to like approval by the United States	
	Geological Survey and the Commissioner of	
	deorogreat partel and the commissioner or	

The foregoing approvals are for the 1958 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico.

Public Lands.

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1. Texas

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(CONTINUED)

(Continued)

Page 2 Working Interest Owners San Juan 32-9 Unit

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Working Interest Owners

R. Neson Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Nora R. Ranney RFD Casey Road Libertyville, Illinois

Eleanor Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones
Post Office Box 1637
Midland, Texas

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas El Paso Natural Gas Company
El Paso, Texas January 16, 1958

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit Area #14-08-001-569 San Juan County, New Mexico Notice of Approval of 1957 Drilling Program

#### Gentlemen:

Please be advised that the Supplemental 1957 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, has been approved by the Federal and State Regulatory Bodies as follows:

- 1. Commissioner of Public Lands of the State of New Mexico, on November 13, 1957.
- 2. Oil Conservation Commission of the State of New Mexico, on November 21, 1957.
- 3.. The United States Geological Survey on November 14, 1957.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Area Landman

Land Department

HG:SHM:cl

cc: Attached list

#### San Juan 32-9 Unit - Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey (2) Mr. M. A. Ehrlich (1) Pacific Northwest Pipeline Corporation Post Office Box 1526 Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1. Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Petro-Atlas Corporation First National Building Tulsa 3. Oklahoma

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1, Texas

Mr. H. L. Snider, Jr. Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Petro-Atlas Corporation Post Office Box 517 Albuquerque, New Mexico

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Wood River Oil and Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

Sterling Morton 120 South La Salle Street Chicago, Illinois

(Continued)

(Continued)

Page 2 San Juan 32-9 Unit Working Interest Owners

Mr. Roy E. Bard 208 South La Salle Street, Room 510 Chicago 4, Illinois

Ralph A. Bard 208 South La Salle Street, Room 504 Chicago 4, Illinois

Cortland T. Hill 606 South Hills Street Los Angeles, California

Elsie F. Hill W. 1453 First National Bank Building St. Paul 1, Minnesota

Donald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

Lewis W. Hill, Jr. W. 1453 First National Bank Building St. Paul 1, Minnesota

Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Robert T. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Albert L. Hopkins, Jr. 12 Robinson Street Cambridge 38, Massachusetts

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Ruth N.Halls 460 El Cielito Road Santa Barbara, California

Suzette M. Zurcher 955 North Lake Road Lake Forrest, Illinois

Margaret S. MacDonald c/o Trust Department, Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

City National Bank and Trust Company Trustee of Trust No. 23949 208 South La Salle Street Chicago 4, Illinois

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James Simpson, Jr.
111 West Washington Street
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Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

John M. Simpson 111 West Washington Street Chicago 2, Illinois (continued)

Page 3 San Juan 32-9 Unit Working Interest Owners

Frederic F. Webster 111 West Washington Street Chicago 2, Illinois

Jay C. Halls 1 North La Salle Street Chicago 2, Illinois

Mary S. Zick 436 Glendale Winnetka, Illinois

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G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas

## El Paso Natural Gas Company

El Paso, Texas

December 9, 1957

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe. New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

TWENTY-THIRD EXPANDED PARTICIPATING AREA

Mesaverde Formation

Effective November 1, 1957

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that two (2) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells as follows:

1. The San Juan 32-9 Unit #55 Well is located 1498' from the South line and 1800' from the West line of Section 11, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on June 18, 1957, and completed on September 23, 1957 at a total depth of 5900'. The Mesaverde Formation between 5284' - 5298', 5362' - 5378', 5446' - 5464', 5590' - 5604', 5712' - 5732', 5764' - 5810', 5844' -5856' was treated with a sand-water fracturing process. After being shut-in for gauge for eight (8) days, the well was tested on October 1, 1957, and following a three (3) hour blow-down period gauged 2416 MCFGPD through a 3/4" choke, and 3083 MCFGPD by the calculated absolute open-flow method with an SIPC of 988# and an SIPT of 869#. The committed drilling block upon which this well is located is described as the S/2 or All of Section 11, Township 32 North, Range 10 West, N.M.P.M., and consists of 347.50 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on October 1, 1957.

2. The San Juan 32-9 Unit #56 Well is located 1550' from the South line and 1600' from the West line of Section 12, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on June 17, 1957, and completed on October 14, 1957, at a total depth of 6078'. The Mesaverde Formation between 5770' - 5780', 5808' - 5838', 5896' - 5924', 5946' - 5978', 5976' - 5992' was treated with a sand-water fracturing process. After being shut-in for gauge for eighteen (18) days, the well was tested on October 31, 1957, and following a three (3) hour blow down period gauged 2433 MCFGPD through a 3/4" choke, and 3320 MCFGPD by the calculated absolute open-flow method with an SIPC of 960# and an SIPT of 960#. The committed drilling block upon which this well is located is described as the S/2 or All of Section 12, Township 32 North, Range 10 West, N.M.P.M., and consists of 346.80 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on October 31, 1957.

The completion of the San Juan 32-9 Unit #55 Well creates one (1) intervening drilling block. This intervening drilling block is described as the E/2 of Section 14, Township 32 North, Range 10 West, N.M.P.M. and consists of 320.00 acres.

Under the terms of the San Juan 32-9 Unit Agreement, the above described drilling block is admitted to the Mesaverde Participating Area as of November 1, 1957. A well must be commenced on this intervening drilling block by November 1, 1958.

Attached is Schedule XXIV showing the Twenty-Third Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Third Expanded Participating Area will become effective as of November 1, 1957.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

y\_\_\_\_\_

Assistant Manager

Land Department

TWB:SHM:cl Enclosure

cc: Attached list

# OIL CONSERVATION COMMISSIUN P. O. BOX 871 SANTA FE, NEW MEXICO

November 26, 1957

jula il 1

El Paso Natural Gas Company Box 1492 El Paso, Texas

#### Attention: Mr. T. W. Bittick

Re: San Juan 32-9 Unit

San Juan County, N. Mex. Supplemental 1957 Drilling Program

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental 1957 Drilling Program for the above captioned unit area, dated October 31, 1957, subject to like approval by the U. S. Geological Survey and by the Commissioner of Public Lands of the State of New Mexico. One approved copy of the drilling program is returned herewith.

Very truly yours,

A. L. PORTER, JR. Secretary-Director

DSN: omg

cc: U. S. Geological Survey - Roewell Commissioner of Public Lands - Sants Fe

# El Paso Natural Gas Company

El Paso, Texas

November 18, 1957

Mr. John A. Anderson Regional Oil & Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
TWENTY-SECOND EXPANDED PARTICIPATING
AREA, Mesaverde Formation
Effective October 1, 1957

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that two (2) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells as follows:

1. The San Juan 32-9 Unit #48 Well is located 1750' from the South line and 1650' from the West line of Section 14, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on June 26, 1957, and completed on September 1, 1957, at a total depth of 6039'. The Mesaverde Formation between 5610'-5630', 5686' - 5698', 5722' - 5748', 5784' - 5800', 5808' - 5828', 5834' - 5844', 5870' - 5886' was treated with a sand-water fracturing process. After being shut-in for gauge for twelve (12) days the well was tested on September 13, 1957, and following a three (3) hour blow-down period gauged 3018 MCFGPD through a 3/4" choke, and 4874 MCFGPD by the calculated absolute open flow method with an SIPC of 921# and an SIPT of 921#. The committed drilling block upon which this well is located is described as the W/2 of Section 14, Township 32 North, Range 10 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on September 13, 1957.

The San Juan 32-9 Unit #53-27 Well is located 790' from the South line and 820' from the West line of Section 27, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on August 5, 1957, and completed on September 16, 1957, at a total depth of 6255'. The Mesaverde Formation between 5672' - 5676', 5679' - 5683', 5688' - 5692', 5732' - 5736', 5746' - 5750', 5762'- 5768', 5774' - 5778', 5902' - 5908', 5914' - 5926', 5936' - 5940', 6014' - 6018', 6022' - 6032', 6034' - 6066', 6072' - 6078', 6082'-6086', 6094' - 6100', 6104' - 6108', 6138' - 6144', 6148' - 6150', 6158' - 6162', 6170' - 6174', 6204' - 6212', 6222' - 6224', 6230'-6234' was treated with a sand-water fracturing process. After being shut-in for gauge for seven (7) days the well was tested on September 30, 1957, and following a three (3) hour blow down period gauged 2681 MCFGPD through a 3/4" choke, and 2818 MCFGPD by the calculated absolute open flow method with an SIPC of 1010# and an SIPT of 977#. The committed drilling block upon which this well is located is described as the W/2 of Section 27, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on September 30, 1957.

The inclusion of the above described wells into the participating area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XXIII showing the Twenty-Second Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Second Expanded Participating Area will become effective as of October 1, 1957.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T. W. Bittick

Assistant Manager Land Department

TWB:SHM:pc Enclosure

cc: Attached List

### UNITED STATES

### OFFI DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. U. son Minico

448

Movember 14, 1957

El Paso Matural Gas Company

P. O. Box 1492

El Peso, Temas

Attention: Mr. T. W. Bittick

Gent lenen:

Your supplemental plan of development dated October 31, 1957, for the Sen Juan 32-9 Unit Area, New Maxies, for the calendar year 1957, has been approved on this date subject to like approval by the appropriate State of New Mexico officials. The amended plan provides for the drilling of one additional Moseverde well, making a total of eight wells to be drilled to the Meseverds formation during the calendar year 1957.

Two approved copies of the plan am enclosed.

Very truly yours.

JAMES A. EMADY Acting Oil and Gas Supervisor

Enc leaure

Copy to: Machington (w/copy of plan) Farmington (w/copy of plan)

Com. of Public Lands, Sents Fe (letter only)

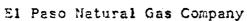
Oil Cons. Com., Santa Fe (letter only)

120107 1. A 9:32

November 13, 1957

CC52

In reply refer to: Unit Division



P. O. Box 1492

El Paso, Texas

Re: San Juan 32-9 Unit -Supplemental Drilling Program 1957

Gentlemen:

We are enclosing one copy of your Supplemental Drilling Program for 1957, covering the V/2 of Section 14-32N-9W. This was approved by the Commissioner of Public Lands November 13, 1957.

Very truly yours,

MURRAY E. MCRGAN
Commissioner of Public Lands

By: Ted Bilberry, Supervisor Oil and Gas Department

MEA:MMR/m Encl.

cc: OCC-Santa Fe USGS-Roswell 900

El Paso Natural Gas Company File Con El Paso, Texas

October 31, 1957

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, No.14-08-001-569

San Juan County, New Mexico

SUPPLEMENTAL 1957 DRILLING PROGRAM

#### Gentlemen:

By letter of December 28, 1956, El Paso Natural Gas Company, as Unit Operator, filed its 1957 Drilling Program for the captioned Unit, providing for the drilling of six (6) wells between the dates of January 1, 1957 and December 31, 1957. All of said wells were to be drilled to the Mesaverde Formation.

The 1957 Drilling Program was approved by the United States Geological Survey on February 4, 1957; by the Commissioner of Public Lands of the State of New Mexico on January 7, 1957; and by the Oil Conservation Commission of the State of New Mexico on February 28, 1957.

Pacific Northwest Pipeline Corporation, as sole Working Interest Owner on the following described drilling block, is now desirous of drilling one (1) additional well. El Paso Natural Gas Company, as Unit Operator, hereby consents to the drilling of said well. The well is to be drilled to the Mesaverde Formation on a Mesaverde drilling block as hereinafter set forth. Therefore, pursuant to Section 10 of the above mentioned Unit Agreement, herewith submitted is a Proposed Supplemental Drilling Program for the balance of the calendar year of 1957, providing for the drilling of the following described well:

DRILLING BLOCK
W/2 Section 14, T-32-N, R-9-W

FORMATION Mesaverde Pacific Northwest Pipeline Corporation, as sole Working Interest Owner of the stated drilling block intends to drill said well employing the same drilling and completion methods as used by El Paso Natural Gas Company, as set out in the San Juan 32-9 1957 Drilling Program, dated December 28, 1956.

If this Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet, and return an approved copy to El Paso Natural Gas Company.

Copies of this Supplemental Drilling Program are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Bv

T. W. Bittick Assistant Manager Land Department

TWB:SHM:c1

cc: Attached List

APPROVED:	DATE:
	Supervisor, United States Geological Survey
	Subject to like approval by the appropriate State officials.
APPROVED	
	Commissioner of Public Lands
	Subject to like approval by the United States Geological Survey and the Oil Conservation Commission
APPROVED:	
	011 Conservation Commission
	Subject to like approval by the United States Geological Survey and the

The foregoing approvals are for the Supplemental 1957 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico.

Commissioner of Public Lands

## El Paso Natural Gas Company

El Paso, Texas

October 28, 1957

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico 416

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

TWENTY-FIRST EXPANDED PARTICIPATING AREA

Mesaverde Formation

Effective September 1, 1957

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 32-9 Unit #49 Well is located 990' from the North line and 1450' from the East line of Section 23, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on June 15, 1957, and completed naturally without sand water fracturing on July 16, 1957, at a total depth of 6022'. After being shut-in for gauge for nine (9) days the well was tested on August 9, 1957, and following a three (3) hour blow down period gauged 4,988 MCFGPD through a 3/4" choke, and 48,535 MCFGPD by the calculated absolute open flow method with an SIPC of 1014# and an SIPT of 1014#. The committed drilling block upon which this well is located is described as the E/2 of Section 23, Township 32 North, Range 10 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on August 9, 1957.



October 17, 1957

Mr. John A. Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
NOTICE OF COMPLETION OF ADDITIONAL WELL

with the African African

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed on acreage committed to the Unit.

#### This well is as follows:

The San Juan 32-9 #50 Well, located 550' from the North line and 1150' from the East line of Section 25, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on May 31, 1957 and completed on August 8, 1957. The well was drilled to a total depth of 5970'. The Mesaverde Formation between 5422' - 5440', 5760' - 5790', 5800' - 5810', 5834' - 5850', 5896' - 5916' was treated with a sand-water fracturing process. After being shut-in for eleven (11) days, the well was tested on August 19, 1957, and following a three hour blow-down period, guaged 3560 MCFGPD through a 3/4" choke and 6579 MCFGPD by the calculated absolute open flow method with an SIPC of 972# and an SIPT of 976#. The committed drilling block upon which this well is located is described as the E/2 of Section 25, Township 32 North, Range 10 West, N.M.P.M., and consists of 320.00 acres.

The drilling block was included in the San Juan 32-9 Eighteenth Expanded Participating Area, effective December 1, 1956, as an intervening drilling block. Therefore, the Participating Area is not enlarged, and the percentages allocated to the tracts shown on Schedule XIX for the Eighteenth Expanded Participating Area remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

/:<u>\_</u>`

Harry Gevertz Area Landman

Land Department

HG:SHM:c1
Enclosure

cc: Attached List

### San Juan 32-9 Unit Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

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Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

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Phillips Petroleum Company 1211 Main Avenue Durango, Colorado

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Sterling Morton 120 South La Salle Street Chicago, Illinois

(Continued)

(Continued)

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Margaret S. MacDonald c/o Trust Department, Trust No. 23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois Page 2 San Juan 32-9 Unit Working Interest Owners

Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

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(Continued)

(Continued)

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San Juan 32-9 Unit
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Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones P. O. Box 1637 Midland, Texas El Paso Natural Gas Company

October 7, 1957

Mr. John Anderson Regional Oil and Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
TWENTIETH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective August 1, 1957

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 32-9 Unit #51 Well is located 1090' from the South line and 890' from the West line of Section 29, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on May 29, 1957, and completed on June 25, 1957 at a total depth of 5985'. The Mesaverde Formation between 5440' - 5462', 5475' - 5487', 5496' - 5511', 5758' - 5774', 5808' - 5822', 5838' - 5854', 5866' - 5876', 5886' - 5904', 5914' - 5924', 5939' - 5960' was treated with a sand-water fracturing process. After being shut-in for gauge for eight (8) days the well was tested on July 2, 1957, and following a three (3) hour blow-down period gauged 3699 MCFGPD through a 3/4" choke, and 6632 MCFGPD by the calculated absolute open flow method with an SIPC of 1028# and an SIPT of 1025#. The committed drilling block upon which this well is located is described as the W/2 of Section 29, Township 32 North, Range 9 West, N.M.P.M., and consists of 320.00 acres. The determination that

11AN OFFICE CCC Paso Natural Gas Company
1537 SEP 2 PH 1:00

El Paso, Texas

August 28, 1957

Mr. John A. Anderson United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission Of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico file 448

Re: San Juan 32-9 Unit Area

#14-08-001-569

San Juan County, New Mexico NOTICE OF APPROVAL OF 1957 DRILLING PROGRAM

#### Gentlemen:

Please be advised that the Supplemental 1957 Drilling Program for the San Juan 32-9 Unit #14-08-001-569 has been approved by the Federal and State Regulatory Bodies as follows:

- 1. The Commissioner of Public Lands of the State of New Mexico on July 22, 1957.
- 2. The United States Geological Survey on July 17, 1957.
- 3. The Oil Conservation Commission of the State of New Mexico on August 26, 1957.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Harry Gevertz

Area Landman Land Department

HG:HM:cl

cc: Attached list

### DIL CONSERVATION COMMISSION P. O. BOX 871

SANTA FE, NEW MEXICO

#### August 26, 1957

file 411

El Paso Katural Gas Company Box 1492 El Paso, Texas

Attention: Mr. Samuel Smith

Re: San Juan 32-9 Unit San Juan County, H. M. 1957 Supplemental Plan of Development

#### Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental Plan of Development, dated July 16, 1957, for the above-captioned unit area, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is returned herewith.

Yery truly yours,

A. L. PORTER, Jr., Secretary-Director

cc: U. S. G. S. - Roswell, New Maxice Commissioner of Public Lands - Santa Fe, New Mexico

#### In reply refer to: Unit Division

El Paso Natural Gas Company El Paso, Texas

Re: San Juan 32-9 Unit -

Supplemental 1957 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

We are entlosing two copies of your supplemental Drilling Program for the Year 1957, which was approved by the Commissioner of Public Lands July 22, 1957.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

By: Ted Bilberry, Supervisor Oil and Gas Department

MEM: MMR/m enc: 2

OCC-Santa Fe USGS-Roswell



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. Best 6721 Reswell, New Mexico File All

July 17, 1957

El Pase Materal Gas Company

P. O. Ber 1492

El Paso, Temas

Attention: Mr. Samuel Smith

Gen tlemen:

Your supplemental plan of development dated July 16, 1957, for the Sen Juan 32-9 Unit Area, New Mexico, for the calendar year 1957, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Yery truly yours,

Labor 7. Evans

BOBERT F. EVARS

Acting Oil and Gas Supervisor

Enclosure

Copy to: Washington (w/copy of plan)

Farmington (w/copy of plan)

Com. of Public Lands, Santa Fe (letter only)

Oil Cons. Com., Santa Fe (letter only)

## El Paso Natural Gas Company

El Paso, Texas

July 16, 1957

Mr. John A. Anderson Regional Oil & Gas Supervisor United States Geological Survey Post Office Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit,#14-08-001-569 SUPPLEMENTAL 1957 DRILLING PROGRAM

#### Gentlemen:

By letter of December 28, 1956, El Paso Natural Gas Company, as Unit Operator, filed its 1957 Drilling Program for the above captioned unit providing for the drilling of six (6) wells in the Mesaverde formation between the dates of January 1, 1957 and December 31, 1957. This 1957 Drilling Program was approved by the United States Geological Survey on February 4, 1957, Commissioner of Public Lands of the State of New Mexico on January 7, 1957, and Oil Conservation Commission of the State of New Mexico on February 28, 1957.

El Paso Natural Gas Company, Unit Operator, is now desirous of drilling one additional well in the Mesaverde formation, to be located as hereinafter set forth. Therefore, pursuant to Section 10 of the above numbered Unit Agreement, herewith submitted is a Proposed Supplemental Drilling Program for the balance of the calendar year 1957, providing for the drilling of one well in the Mesaverde formation:

#### DRILLING BLOCK

FORMATION

W/2 (A11) Sec.12,T-32-N,R-10-W

Mesaverde

The addition of the above described well will make a total of seven (7) wells to be drilled in the Mesaverde formation for the San Juan 32-9 Unit for the calendar year 1957.

El Paso Natural Gas Company, as Unit Operator, intends to drill the above listed well employing the same drilling and completion methods as specified in the San Juan 32-9 Unit Drilling Program for 1957, dated December 28, 1956.

El Paso Natural Gas Company, as Unit Operator, will protect the unit from drainage and will comply with any drilling requirements created under the terms of the unit agreement calling for additional drilling. If this Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided below. Please return an approved copy to El Paso Natural Gas Company, Unit Operator.

Copies of this Supplemental Drilling Program are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

	Lease Department
SS:GBL:cr	
cc: Attached List	
APPROVED:	DATE
Supervisor, United States Geological S	urvey
Subject to like approval by the appropriate Sta	te Officials.
APPROVED:	DATE
Commissioner of Public Lands	
Subject to like approval by the United States G	eological Survey and Oil
Conservation Commission.	
APPROVED: A. S. Perter.	AUG 2 7 1957
Oil Conservation Commission	

Subject to like approval by the United States Geological Survey and Commissioner of Public Lands.

THE FOREGOING APPROVALS ARE FOR THE SUPPLEMENTAL 1957 DRILLING PROGRAM FOR THE SAN JUAN 32-9 UNIT.

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Phillips Petroleum Company 301 Korber Building Albuquerque, New Mexico

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas San Juan 32-9 Unit Working Interest Owners

Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor Corrigan Tower Dallas 1, Texas

Petro-Atlas Corporation First National Building Tulsa 3, Oklahoma

Petro-Atlas Corporation Post Office Box 157 Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Bldg. Dallas 1, Texas

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting, Jr. Post Office Box 1637 Midland, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Ralph Austin Bard, Jr. 208 South La Salle St., Room 504 Chicago 4, Illinois

Sterling Morton 120 South La Salle Street Chicago, Illinois

(Continued)

(Continued)

Mr. Roy E. Bard 208 South La Salle Street Room 510 Chicago 4, Illinois

Ralph A. Bard 208 South La Salle Street Room 504 Chicago 4, Illinois

Cortland T. Hill 606 South Hills Street Los Angeles, California

Blsie F. Hill W. 1453 First National Bank Bldg. St. Paul 1, Minnesota

Lewis W. Hill, Jr. W. 1453 First National Bank Bldg. St. Paul 1, Minnesota

Harold Byron Smith 2501 North Keeler Street Chicago, Illinois

Sydney Stein, Jr. 135 South La Salle Street Chicago 3, Illinois

Charles W. Farnham 135 South La Salle Street Chicago 3, Illinois

Albert L. Hopkins, Jr. 12 Robinson Street Cambridge 38, Massachusetts

R. Douglas Stuart 345 Merchandise Mart Chicago 54, Illinois

Ruth N. Halls 460 El Cielito Road Santa Barbara, California

Suzette M. Zurcher 955 North Lake Road Lake Forrest, Illinois

Margaret S. MacDonald c/o Trust Department, Trust No.23-15659 The Northern Trust Company 50 South La Salle Street Chicago, Illinois

#### San Juan 32-9 Unit Working Interest Owners

Edward L. Ryerson, Jr. 17 Highland Street Cambridge, Massachusetts

Josephine C. Jacobson 4430 Beclaire Dallas 5, Texas

W. Watson LaForce, Jr. Post Office Box 353 Midland, Texas

Nancy LaForce Keys Route 2, North Madison Street Hinsdale, Illinois

Donald S. Boynton 332 South Michigan Avenue Room 1500 Chicago 4, Illinois

City National Bank & Trust Company Trustee of Trust No. 23949 208 South LaSalle Street Chicago 4, Illinois

Robert T. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Henry P. Isham, Jr. 38 South Dearborn Street Room 1007 Chicago 3, Illinois

William Simpson 111 West Washington Street Chicago 2, Illinois

Nancy H. Haskins 1318 Judson Avenue Evenston, Illinois

James Simpson, Jr.
111 West Washington Street
Chicago 2, Illinois

Shaw, Isham & Company 135 South La Salle Street Chicago 3, Illinois

John M. Simpson 111 West Washington Street Chicago 2, Illinois (Continued)

#### San Juan 32-9 Unit Working Interest Owners

Frederic F. Webster 111 West Washington Street Chicago 2, Illinois

John Stuart 345 Merchandise Mart Chicago 54, Illinois

Jay C. Halls 1 North La Salle Street Chicago 2, Illinois

Catherine M. Ruml 5617 Dorchester Avenue Chicago 37, Illinois

Mary S.Zick 436 Glendale Winnetka, Illinois

William P. Sutter 1 North La Salle Street Chicago 2, Illinois

Trust No. 1 for Benefit of John I. Shaw and Rodger D. Shaw 135 South La Salle Street Room 3710 Chicago 3, Illinois

Suzanne LaForce Baber 217 South Lassen Street Willows, California

City National Bank & Trust Company Trustee of Trust No. 23935 208 South La Salle Street Chicago 4, Illinois

George S. Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

G. R. Brainard, Jr. 6425 Mimosa Lane Dallas 30, Texas R. Nelson Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Nora R. Ranney RFD Casey Road Libertyville,Illinois

Eleanor Isham 38 South Dearborn Street Room 1007 Chicago 3, Illinois

Robert D. Fitting 201 West Building Midland, Texas

J. Robert Jones Post Office Box 1637 Midland, Texas

Et Paso Natural Gas Company 1777 1 1 El Paso, Texas March 27, 1957 Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico Re: San Juan 32-9 Unit Tract No. 59 Gentlemen: Please find enclosed one copy of Ratification and Joinder of Unit Agreement dated February 14, 1957, executed by J. Jay Phoenix, committing his two-and-one half (2 $\frac{1}{2}$ %) overriding royalty interest under Tract 59 of the San Juan 32-9 Unit. We respectuflly ask that you process this Ratification and Joinder in the usual manner to effectively commit this interest to the unit. Area Landman Lease Department JWC: GBL: mm Enclosure NM-1123

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and
Operation of the San Juan 32-9 Unit Area located within the County
of San Juan , State of New Mexico , in form
approved on behalf of the Secretary of the Interior, the undersigned owners of lands
or leases, or interests therein or royalties presently held or which may arise under
existing option agreements, or other interests in production covered by said Unit
Agreement hereby severally, each to the extent of his or her particular ownership or
interest, as may appear, consent to the inclusion of said lands within the Unit Area
therein defined, ratify, approve and adopt the terms of said Unit Agreement and any
modifications thereof approved by the Secretary of the Interior or his duly author-
ized representative as applicable to said several lands and interests, agree that the
term of any lease given by the undersigned or under which the undersigned claims an
interest herein is extended and modified to the extent necessary to make the same con-
form to the terms of said Unit Agreement, agree that the drilling, development and
producing requirements of all leases and other contracts in which their several rights
and interests are created or defined shall be deemed fully performed by performance of
the provisions of said Unit Agreement, and agree that payment for or delivery of (which-
ever may be required under prior agreements) oil and gas duly made at contract rates
applied to the production allocated under said Unit Agreement to the particular lands
to which such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the undersigned
existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS	SIGNATURE
420 Walworth Avenue, Dalavan, Wisconsin	J. Jay Phoenix
Date:	
Date:	
Date:	
1	
STATE OF WISCONSIN) COUNTY OF WALWORTH) as	

Subscribed and sworn to before me this 14th day of February 1957

PPERATOR & WORKING INTERECT OWNER

Dublic,

Walworth Co. Wis.

My commission expires April 6, 1958

## El Paso Natural Gas Company

El Paso, Texas

March 14, 1957

Mr. John Anderson Regional Oil and Gas Supervisor United States Geological Survey P. O. Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569
Nineteenth Expanded Participating Area
Mesaverde Formation
Effective January 1, 1957

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon acreage committed to this unit, and the participating area for the Mesaverde Formation is accordingly expanded. The well is as follows:

The San Juan 32-9 Unit #46 Well, located 1500' from the North line and 1500' from the East line of Section 4, Township 31 North, Range 9 West, San Juan County, New Mexico, was spudded on November 9, 1956, and completed on November 26, 1956, at a total depth of 5985'. The Mesaverde formation between the depths of 5398'-5412', 5422'-5434', 5750'-5760', 5770'-5780', 5806'-5818', 5828'-5840', 5880'-5890', 5902'-5912', was treated with a water-sand fracturing process on November 24, 1956. After being shut-in for eight (8) days, the well was tested on December 4, 1956, and following a three hour blow-down period, gauged 3702 MCFGPD through a 3/4" choke and 6201 MCFGPD by the calculated absolute open flow method, with an SIPC of 1040# and an SIPT of 890#. The committed drilling block upon which this well is located is described as the E/2 of Section 4, Township 31 North, Range 9 West, N.M.P.M. containing 319 acres.

The inclusion of the above described well into the participating area of the San Juan 32-9 Unit creates no intervening drilling blocks.

Attached is Schedule XX showing the Nineteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the expanded participating area and shows the percentages of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval this expanded participating area will become effective as of January 1, 1957.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Samuel Smith

Assistant Manager Lease Department

SS:GBL:nn Attached list 492

## El Paso Natural Gas Company

El Paso, Texas

March 1, 1957

Director United States Geological Survey Department of the Interior Washington 25, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe. New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

NOTICE OF APPROVAL OF 1957 DRILLING PROGRAM

#### Gentlemen:

This is to advise that the Drilling Program for 1957 for the San Juan 32-9 Unit has been approved by the Federal and State Regulatory Bodies as follows:

- (1) Approved by the Commissioner of Public Lands of State of New Mexico on January 7, 1957.
- (2) Approved by the United States Geological Survey on February 4, 1957.
- (3) Approved by the Oil Conservation Commission of State of New Mexico on February 28, 1957.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Joe W. Cherry

Area Landman

Lease Department

JWC:GBL:nn Attached list

## P. O. BOX 871 SANTA FE, NEW MEXICO

February 28, 1957

El Paso Hatural Gas Company Box 1492 El Paso, Texas

Attention: Mr. R. L. Hamblin

Re: San Juan 32-9 Unit

San Juan County, New Mexico

1957 Drilling Program

#### Gestlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1957 Drilling Program for the above-captioned unit area, dated December 28, 1956, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Program is returned herewith.

Very truly yours.

A. L. PORTER, Jr., Secretary-Director

ALP/DSM/ir

Inclosure

bcc: USGS - Roswell

Commissioner of Public Lands - Santa Fe

498

El Paso Natural Gas Company

El Paso, Texas

February 21, 1957

Director
United States Geological Survey
Department of the Interior
Washington 25, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe. New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico معليم

Re: San Juan 32-9 Unit
#14-08-001-569
San Juan County, New Mexico
NOTICE OF COMPLETION OF
ADDITIONAL WELL

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one additional well capable of producing unitized substances in paying quantities in the Mesaverde formation has been completed upon acreage committed to this unit:

The San Juan 32-9 Unit Well No. 47, located 1090' from the South line and 890' from the West line of Section 4, Township 31 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on October 19, 1956, and completed on November 7, 1956, at a total depth of 5975'. The Point Lookout section of the Mesaverde formation between the depths of 5805'-5815', 5823'-5834', 5847'-5851', and 5695'-5703', 5732'-5748', was treated with water-sand fracturing process on November 5, 1956. The Cliff house section of the Mesaverde formation between the depths of 5367'-5371', 5376'-5382', 5387'-5393', was likewise treated with a water-sand fracturing process on November 5, 1956. After being shut in for seven (7) days, the well was tested on November 14, 1956, and following a three hour blow down period gauged 5480 MCFGPD through a 3/4" choke and 18079 MCFGPD by the calculated absolute open flow method, with an SIPC of 1008# and an SIPT of 1001#. The committed drilling block upon which this well is located is described as the W/2 of Section 4, Township 31 North, Range 9 West, N.M.P.M., containing 320.20 acres. As the drilling block upon

which this well is located was included in the San Juan 32-9 Unit, Fourteenth Expanded Participating Area, effective November 1, 1955, as an intervening drilling block, the Participating Area is not hereby expanded and the percentages allocated to the tracts shown on Schedule 15 of the Fourteenth Expanded Participating Area for this Unit remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

Joe W. Cherry

Area Landman Lease Department

JWC:GBL:nn

Attached list

448

# El Paso Natural Gas Company El Paso, Texas

February 15, 1957

Mr. John Anderson Regional Oil & Gas Supervisor United States Geological Survey P. O. Box 6721 Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569 18th Expanded Participating Area Mesaverde Formation Effective December 1, 1956

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953 El Pasc Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon acreage committed to this Unit, and of the Participating Area for the Mesaverde formation is accordingly expanded.

#### The well is as follows:

The San Juan 32-9 Unit Well Number 40 located 890' from the South line and 890' from the West Line of Section 30, Township 32 North, Range 9 West, San Juan County, New Mexico, was spudded on October 20, 1956, and completed on November 9, 1956, at a total depth of 5,920'. The Cliff House section of the Mesaverde formation between the depths of 5423' - 5427', 5431' - 5444', 5451' - 5457', 5478' -5486', was treated with a water-sand fracturing process on November 6, 1956. The Point Lookout section of the Mesaverde formation was likewise treated with a water-sand fracturing process between the depths of 5774' - 5780', 5792' - 5796', 5806' - 5818', 5828' - 5842', on November 6, 1956. After being shut in for 11 days the well was tested on November 20, 1956, and following a three hour blow down

period gauged 4269 MCFGPD through a 3/4" choke, and 8017 MCFGPD by the calculated absolute open flow method with an SIPC of 963# and an SIPT of 968#. The committed drilling block upon which this well is located is described as the W/2 of Section 30, Township 32 North, Range 9 West, N.M.P.M. containing 207.48 acres.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates one (1) intervening drilling block described as the E/2 of Section 25, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of December 1, 1956, the same time as the admission of the San Juan 32-9 Unit Well #40. Drilling must be commenced upon this intervening drilling block by December 1, 1957.

Attached is Schedule XIX showing the Eighteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval no provision is made therefor, and in the absence of disapproval this Expanded Participating Area will become effective as of December 1, 1956.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Samuel Smith

Assistant Manager Lease Department

SS:GBL:mm
Enclosure

cc: Attached List

1198

12711 (27/25 CO) 127 (C)

January 7, 1957

In reply refer to: Unit Division 1/11

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

Re: San Juan 32-9 Unit - 1957 Drilling Program

Attention: Mr. R. L. Hamblin

#### Gentlemen:

We are enclosing one copy of your 1957 Drilling Program for the San Juan 32-9 Unit Agreement, which was approved by the Commissioner of Public Lands, Mr. M. E. Morgan, January 7, 1957.

This approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

MEM: MMR/m

cc: OCC-Santa Fe USGS-Roswell

## El Paso Natural Gas Company

El Paso, Texas

December 28, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569

San Juan County, New Mexico

1957 DRILLING PROGRAM

#### Gentlemen:

By letter of December 27, 1955, the El Paso Natural Gas Company set forth its Drilling Program for the above captioned unit providing for the drilling of eleven (11) wells in the Mesaverde formation during the calendar year 1956. As of this date all of these wells have been completed, and the data in connection with them is as follows:

#### San Juan 32-9 Unit:

	Drilling	Initial	
Well Name	Block	Potential	Tied In
Well #43	W/2 Sec. 2, 31-10	AOF 30,359 MCF/D	6-10-56
Well #47	W/2 Sec. 4, 31-9	AOF 18,079 MCF/D	Not tied in
Well #46	E/2 Sec. 4, 31-9	AOF 6,201 MCF/D	Not tied in
Well #42	E/2 Sec. 6, 31-9	AOF 21,168 MCF/D	8-21-56
Well #44	E/2 Sec. 11, 31-10	AOF 22,396 MCF/D	6-10-56
Well #45	W/2 Sec. 12, 31-10	AOF 18,619 MCF/D	9-25-56
Well #39	E/2 Sec. 26, 32-10	AOF 12,095 MCF/D	Not tied in
Well #40	W/2 Sec. 30, 32-9	AOF 8,017 MCF/D	Not tied in
Well #41	E/2 Sec. 31, 32-9	AOF 11,392 MCF/D	Not tied in
Well #37	E/2 Sec. 32, 32-9	AOF 7,827 MCF/D	Not tied in
Well #38	E/2 Sec. 35, 32-10	AOF 17,180 MCF/D	Not tied in

There are it this time forty-three (43) commercial wells in the San Juan 32-9 Unit, forty-one (41) of which have been admitted to the participating area. Of the forty-one (41) wells admitted to the participating area thirty-six (36) have been tied into our gathering system.

Total production from the Unit from January 1, 1956, through November 30, 1956, was 4,274,368 MCF. The total value from the sale of natural gas, propane, butane and condensates from January 1, 1956 through November 30, 1956 was \$656,973.27.

Pursuant to section 10 of the above numbered Unit Agreement, El Paso Natural Gas Company, as Unit Operator, herewith submits its Drilling Program for the period from January 1, 1957 through December 31, 1957. As Unit Operator we have canvassed all working interest owners in this unit, and the proposed drilling program covers all drilling requests that we have received.

The proposed wells are as follows:

DRILLING BLOCK			FORMATION		
W/2	Section	11 (A11):	T-32-N,	R-10-W	Mesaverde
W/2	Section	14:	T-32-N,	R-10-W	Mesaverde
E/2	Section	23:	T-32-N,	R-10-W	Mesaverde
*E/2	Section	25:	T-32-N,	R-10-W	Mesaverde
W/2	Section	27:	T-32-N,	R-9-W	Mesaverde
W/2	Section	29:	T-32-N,	R-9-W	Mesaverde

\* Intervening drilling block necessary to be drilled in 1957.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde wells to the base of the Mesaverde formation using rotary tools. Surface casing of 10--3/4" will be set to approximately 150' below the surface and an intermediate string of 7--5/8" casing will be set through the Pictured Cliffs formation to a depth of approximately 3,200'. A 5--1/2" production string will be set through the Mesaverde formation, and the casing of the Mesaverde formation will then be selectively perforated and the Mesaverde formation will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

All well locations will be either in the NE/4 or the SW/4 of the sections.

If this Drilling Program is acceptable please signify your approval as required under Section 10 of the Unit Agreement in the space provided below. Please return one approved copy to El Paso Natural Gas Company, Unit Operator.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hamblin, Manager

Lease Department

RLH:GBL:nb Attachment

APPROVED:		DATE:
-	Supervisor, United States Geological Durvey	
	Subject to like approval by the appropriate s	State Offcials.
APPROVED:	Commissioner of Public Lands	DATE:
	Subject to like approval by the United States Conservation Commission	s Geological Survey and Oil
A PPROVED:	Oil Conservation Commission	DATE: 2-28-57

Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands

#### San Juan 32-9 Unit Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Phillips Petroleum Company 301 Korber Building Albuquerque, New Mexico

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. F. G. Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1. Texas

Petro-Atlas Corporation First National Building Tulsa 3, Oklahoma

Petro-Atlas Corporation Post Office Box 517 Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Bldg. Dallas 1, Texas

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 314 Milam Building San Antonio 5, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting Post Office Box 1637 Midland, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

## El Paso Mâtural Gas Company El Paso, Texas

December 4, 1956

Director
U.S. Geological Survey
Department of the Interior
Washington, D. C.

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico NOTICE OF COMPLETION OF ADDITIONAL WELLS

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569 approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that four (4) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit:

1. The San Juan 32-9 Unit Well #37, located 1800' from the North line and 1150' from the East line of Section 32: Township 32 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on September 29, 1956, and completed on October 18, 1956, at a total depth of 6075'. The Point Lookout Section of the Mesaverde Formation between the depths of 5917' - 5924', 5937' - 5957', 5985' - 5991', and 5867' - 5874', 5879' - 5892' was treated with a watersand fracturing process on October 14 and October 15, 1956. The Cliff House Section for the Mesaverde Formation between the depths of 5508' - 5514', 5522' - 5539', 5549' - 5559', was likewise treated with a water-sand fracturing process on October 15, 1956. After being shut-in for eleven (11)

days the well was tested on October 29, 1956, and following a three-hour blow-down period gauged 4064 MCFGPD through a 3/4" choke and 7827 MCFGPD by the calculated absolute open flow method with an SIPC of 1061# and an SIPT of 1031#. The committed drilling block upon this well is located, is described as the E/2 of Section 32: Township 32 North, Range 9 West, N.M.P.M., containing 320 acres. As the drilling block upon which this well is located was included in the San Juan 32-9 Unit Fourteenth Expanded Participating Area, effective November 1, 1955, as an intervening drilling block, the Participating Area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule XV for the Fourteenth Expanded Participating Area for this Unit remain the same.

- The San Juan 32-9 Unit Well #38, located 818' from the North line and 1757' from the East line of Section 35, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on September 5, 1956, and completed on September 22, 1956, at a total depth of 5483'. The Point Lookout Section of the Mesaverde Formation was treated with a water-sand fracturing process on September 19, 1956, between 5336' - 5347', 5376' -5386', 5404' - 5420', and on September 20, 1956, between the depths of 5238' - 5254', 5276' - 5290', 5296' - 5306'. The Cliff House Section of the Mesaverde Formation between the depths of 4880' - 4926' was likewise treated with a water-sand fracturing process on September 20, 1956. After being shut-in for thirteen days the well was tested on October 5, 1956, and following a three hour blow-down period, gauged 5389 MCFGPD through a 3/4" choke and 17,180 MCFGPD by the calculated absolute open-flow method with an SIPC of 1050# and an SIPT of 1052#. The committed drilling block upon which this well is located is described as the E/2 of Section 35, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres. As the drilling block upon which this well is located was included in the San Juan 32-9 Unit Thirteenth Expanded Participating Area, effective October 1, 1955, as an intervening drilling block, the participating area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule XIV for the Thirteenth Expanded Participating Area for this Unit remain the same.
- 3. San Juan 32-9 Unit Well #39, located 800' from the North line and 1490' from the East line of Section 26, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on September 25, 1956, and completed on October 17, 1956, at a total depth of 6259'. The Point Lookout Section of the Mesaverde Formation was treated with a water-sand fracturing process on October 14, 1956, between the depths of 6154' 6160', 6170' 6180', 6187' 6197', and on October 15, 1956 between 6071' 6083', 6101' 6111', 6122' 6132'. The Cliff House Section of the Mesaverde Formation between the depths of 5658' 5668', 5688' 5702', 5714' 5720' was likewise

treated with a water-sand fracturing process on October 15, 1956. After being shut-in for thirteen days the well was tested on October 30, 1956, and following a three hour blow-down period gauged 4564 MCFGPD through a 3/4" choke and 12,095 MCFGPD by the calculated absolute open-flow method with an SIPC of 1022# and an SIPT of 1022#. The committed drilling block upon which this well is located is described as the E/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres. As the drilling block upon which this well is located was included in the San Juan 32-9 Unit Sixteenth Expanded Participating Area, effective March 1, 1956 as an intervening drilling block the participating area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule XVII for the Sixteenth Expanded Participating Area for this Unit remain the same.

4. The San Juan 32-9 Unit Well #41, located 800' from the North line and 930 from the East line of Section 31, Township 32 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on September 6, 1956, and completed on September 28, 1956, at a total depth of 6143'. The Point Lookout Section of the Mesaverde Formation between the depths of 6006' - 6022', 6034' - 6044', 6076' - 6086', and 5858' - 5868', 5910' - 5922', 5934' - 5942', 5956' - 5962' was treated with a water-sand fracturing process on September 25, 1956. The Cliff House Section of the Mesaverde Formation between the depths of 5598' - 5613', 5624' - 5634', and 5652' - 5660, was likewise treated with a water-sand fracturing process on September 26, 1956. After heing shut-in for ten days the well was tested on October 8, 1956 and following a three hour blow-down period gauged 4669 MCFGPD through a 3/4" choke and 11,392 MCFGPD by the calculated absolute open-flow method with an SIPC of 1014# and and SIPT of 1019#. The committed drilling block upon which this well is located is described as the E/2 of Section 31, Township 32 North, Range 9 West, N.M.P.M., containing 320 acres. As the drilling block upon which this well is located was included in the San Juan 32-9 Unit Twelfth Expanded Participating Area. effective September 1, 1955 as an intervening drilling block, the participating area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule XIII for the Twelfth Expanded Participating Area for this Unit remain the same,

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Joe W. Cherry Area Landman

Lease Department

JWC:nt Enclosure v v

El Paso Natural Gas Company

El Paso, Texas

September 5, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico



Re: San Juan 32-9 Unit, #14-08-001-569 W/2 Section 32, T-32-N, R-9-W Well # 7 (OWWO) E/2 Section 14, T-31-N, R-10-W Well # 13 (OWWO)

#### Gentlemen:

This is to advise that in accordance with the San Juan 32-9 Unit Operating Agreement, dated February 10, 1953, after obtaining the consent of the required working interest owners as therein provided, the following work was performed on the San Juan 32-9 Unit Well #7, located in the W/2 of Section 32, Township 32 North, Range 9 West, San Juan County, New Mexico, and on the San Juan 32-9 Unit Well #13, located in the E/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico:

1. Re-working operations for Well #7 were begun on July 19, 1956. The well was cleaned out to a depth of 6048'. On August 2, 1956, the Point Lookout section of the Mesaverde Formation was treated with a water-sand fracturing process between the depths of 5933' - 5944', 5986' - 5998', 6032' - 6048'. The Cliff House section of the Mesaverde Formation was likewise treated on August 2, 1956, with a water-sand fracturing process between the depths of 5666' - 5678', 5686' - 5698'. After being shut-in for nine (9) days the well was tested on August 14, 1956, and after a three-hour blow-down using a calculated absolute open-flow test, gauged 6497 MCFGPD with an SIPC of 919# and an SIPT of 919#. The total depth of the well is 6100', plugged back to the depth of 6048'. As the drilling block upon which this well is located was brought into the Participating Area by the Fourth Expansion of

the Mesaverde Participating Area for the San Juan 32-9 Unit, effective November 1, 1953, the Participating Area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule V for the Fourth Expanded Participating Area for this unit remain the same.

2. Re-working operations for Well #13 were begun on July 7, 1956. The well was cleaned out to a depth of 5555'. Subsequently, on July 14, 1956, the Point Lookout section of the Mesaverde Formation was treated with a water-sand fracturing process between the depths of 5378' - 5398', 5423' - 5430', 5444' -5465'. The Cliff House section of the Mesaverde Formation was likewise treated on July 15, 1956, with a water-sand fracturing process between the depths of 4891' - 4899', 4901' - 4917', 4946' - 4960', and 4982' - 5006'. The total depth of the well is 5555'. After being shut-in for eight (8) days the well was tested on July 26, 1956, and after a three hour blow-down using a calculated absolute open-flow test, gauged 14,266 MCFGPD with an SIPC of 982# and an SIPT of 980#. As the drilling block upon which this well is located was brought into the Participating Area by the revised initial expansion of the Mesaverde Formation for the San Juan 32-9 Unit, effective June 26, 1953, the Participating Area is not hereby expanded, and the percentages allocated to the tracts shown on Schedule I for the Initial Participating Area for this unit remain the same.

Inasmuch as this operation needs no official approval, no provision is being made therefor.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Manager

Lease Department

RLH:GBL:cr

cc: Attached List

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. R. N. Richey Pacific Northwest Pipeline Corporation Post Office Box 1526 Salt Lake City, Utah

Mr. Jack Owens
Pacific Northwest Pipeline Corporation
M & M Building
Houston, Texas

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1, Texas

Mr. Dudley Cornell Albuquerque Associated Oil Company 824 Simms Building Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting Post Office Box 1637 Midland, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Forrest Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico

# MANIETTE OEL Paso Matural Gas Company El Paso, Texas

August 30, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569

San Juan County, New Mexico

NOTICE OF COMPLETION OF ADDITIONAL WELL

file

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde formation has been completed upon acreage committed to this unit:

1. The San Juan 32-9 Unit Well #42, located 1094' from the North line and 1090' from the East line of Section 6, Township 31 North, Range 9 West, N.M.P.M., San Juan County, New Mexico, was spudded on June 8, 1956, and completed on June 28, 1956, at a total depth of 5946'. The Point Lookout section of the Mesaverde formation between the depths of 5766' - 5784', 5800' -5812' and 5838' - 5856', 5870' - 5886' was treated with a water sand fracturing process on June 25, 1956. The Cliff House section of the Mesaverde formation between the depths of 5348' -5366', 5379' - 5400', 5410' - 5426!, was likewise treated with a water sand fracturing process on June 26, 1956. After being shut-in for seven (7) days the well was tested on July 5, 1956, using a calculated absolute open flow test and following a three hour blow-down gauged an IP of 21,168 MCFGPD with an SIPC of 989# and an SIPT of 989#. The committed drilling block upon which this well is located is described as the E/2 of Section 6, Township 31 North, Range 9 West, N.M.P.M., containing 320.60 acres.

The drilling block upon which the San Juan 32-9 Unit Well #42 is located the E/2 of Section 6, Township 31 North, Range 9 West, was included in the Eleventh Expanded Participating Area for the Mesaverde formation effective August 1, 1955, as an intervening drilling block. Therefore, the participating area is not now enlarged by the addition of this well and the percentages allocated to the tracts shown on Schedule XII for the Eleventh Expanded Participating Area remain the same.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours

KL PASO NATURAL GAS COMPANY

Ву

James C. Vandiver

Area Landman Lease Department

JCV:GBL:cr

cc: Attached List

## El Paso Ratural Gas Company

El-Paso, Texas

August 9, 1956

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, Tract 42

Gentlemen:

Please find enclosed one (1) copy of Ratification and Joinder of Unit Agreement dated July 10, 1956 executed by J. E. Atkins, Guardian of the Estate of Lula H. Atkins, incompetent, committing her 1-1/4% overriding royalty interest under Tract 42 of the San Juan 32-9 Unit.

We respectfully ask that you process this Ratification and Joinder in the usual manner to effectively commit this interest to the unit.

Very truly yours,

James C. Vandiver

Area Landman Lease Department

JCV:GBL:pb
Encl.

NM 4800

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 32-9 Unit
Area located within the County of San Juan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
Altus, Oklahoma	The Estate of Lula H. Atkins
	By C. E. athing
	Guardian
Date: JULY 10, 1956	
Date:	

APPROVED AND CONSENTED TO: PUBCO PETROLEUM CORPORATION

Working Interest Owner

APPROVED AND CONSENTED TO:

EL PASO NATIONAL GOOD FOR Y

By Vice Prosest

UNIT OPERATOR & WORKING LATE LOT THIS ER

) SS.:	
COUNTY OF Bernelille	
On this 6th day of August	, 195 6, before me appeared
Frank D. Gorben, Jr	to me personally known, who, being
is the corporate seal of said corporation and sealed in behalf of said corporation and said Frank D. Gerham, Jr the free act and deed of said corporation	that the seal affixed to said instrument on, and that said instrument was signed in by authority of its board of directors, acknowledged said instrument to be on.
eal the day and year in this certificat	reunto set my hand and affixed my official te first above written.
My Commission expires:	
June 24, 1957	mary Beck Harknew
	Notary Public in and for <u>Bernalille</u> County,  State of <u>Sev Maxico</u>
STATE OF OKLAHOMA )  SS.:	
) SS.: County of Jackson )	
•	
A. A. Intu a Intu	3056 hadana ma aunaamad
	, 1956 before me appeared
J. E. Atkins, Guardian of the Estate	
going instrument, and acknowledged to me and deed. in capacity above set forth.	described in and who executed the fore-
My Commission expires:	
4-13-19-18	14 Polling al
	Notary Public in and for
	State of Try
STATE OF	
COUNTY OF ) SS.:	
On thisday of	, 195, before me personally
appeared	a single person, to me known to be
the person described in and who executed to me thathe executed the sa	, a single person, to me known to be it the foregoing instrument, and acknowledged ame asfree act and deed.
My Commission expires:	
•	Notary Public in and for
. <b>'</b>	County,

State of

El Paso Natural Gas Company

El Paso, Texas : 11

July 23, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: (San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico

NOTICE OF COMPLETION OF ADDITIONAL WELLS

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this Unit:

1. The San Juan 32-9 Unit Well #44, located 1650' from the North line and 1735' from the East line of Section 11, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, was spudded on February 23, 1956, and completed on March 26, 1956, at a total depth of 5450'. The Point Lookout section of the Mesaverde Formation between the depths of 5196' -5216', 5306' - 5320', 5336' - 5356' was treated with a water-sand fracturing process on March 20, March 21, and March 22, 1956. The Cliff House section of the Mesaverde Formation between the depths of 4826' - 4846', 4885' - 4895', 4905' - 4915' was likewise treated with a water-sand fracturing process on March 23 and March 24, 1956. After being shut-in for eleven days the well was tested on April 6, 1956 using an AOF, and following a three hour blow-down gauged an IP of 22396 MCFGPD with an SIPC of 1036# and an SIPT of 1032#. The committed drilling block upon which this well is located is described as the E/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

- 2. The San Juan 32-9 Unit Well #43, located 1137' from the South line and 1180' from the West line of Section 2, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico. was spudded on March 28, 1956, and completed on April 18, 1956, at a total depth of 5423'. The Point Lookout section of the Mesaverde Formation between the depths of 5224' - 5236', 5258' - 5268', 5296' - 5312', 5334' - 5350' was treated with a water-sand fracturing process on April 17, 1956. The Cliff House section of the Mesaverde Formation between the depths of 4785' - 4796', 4814' - 4824', 4844' - 4854' was likewise treated with a water-sand fracturing process on April 17. 1956. After being shut in for eight days the well was tested on May 9, 1956, using an AOF, and following a three hour blowdown gauged an IP of 30359 MCFGPD with an SIPC of 1047# and an SIPT of 1048#. The committed drilling block upon which this well is located is described as the W/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M., containing 321.06 acres.
- 3. The San Juan 32-9 Unit Well #45, located 1068' from the South line and 968' from the West line of Section 12, Township 31 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, was spudded on May 19, 1956, and completed on June 6, 1956, at a total depth of 5546'. The Point Lookout section of the Mesaverde Formation between the depths of 5376' - 5394', 5430' - 5454', 5460' - 5474' was treated with a water-sand fracturing process on June 3, 1956. The Cliff House section of the Mesaverde Formation was likewise treated with a watersand fracturing process between the depths of 4932' - 4960'. 4994' - 5004' on June 4, 1956. After being shut-in for fifteen days the well was tested on June 21, 1956, using an AOF, and following a three hour blow-down gauged an IP of 18619 MCFGPD with an SIPC of 1022# and an SIPT of 1020#. The committed drilling block upon which this well is located is described as the W/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The drilling block upon which the San Juan 32-9 Unit Well #44 is located, the E/2 of Section 11, Township 31 North, Range 10 West, was included in the Seventeenth Expanded Participating Area for the Mesaverde Formation, effective April 1, 1956, as an intervening drilling block. Therefore, the Participating Area is not now enlarged by the addition of this well, and the percentages allocated to the tracts shown on Schedule XVIII for the Seventeenth Expanded Participating Area remain the same.

The drilling block upon which the San Juan 32-9 Unit Well #43 is located, the W/2 of Section 2, Township 31 North, Range 10 West, was included in the Ninth Expanded Participating Area for the Mesaverde Formation, effective April 1, 1955, as an intervening drilling block. Therefore, the Participating Area is not now enlarged by the addition of this well, and the percentages allocated to the tracts shown on Schedule X for the Ninth Expanded Participating Area remain the same.

The drilling block upon which the San Juan 32-9 Unit well #45 is located, the W/2 of Section 12, Township 31 North, Range 10 West, was included in the Tenth Expanded Participating Area for the Mesaverde Formation, effective June 1, 1955, as an intervening drilling block. Therefore the Participating Area is not now enlarged by the addition of this well and the percentages allocated to the tracts shown on Schedule XI for the Tenth Expanded Participating Area remain the same.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

James C Vendiver

Area Landman Lease Department

JCV:GBL:pb

cc: Attached List

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. D. J. Biard The Atlantic Refining Company Post Office Box 2819 Dallas. Texas

Mr. J. K. Letts The Atlantic Refining Company Post Office Box 1198 Durango, Colorado

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. W. Mathews Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
314 Milam Building
San Antonio 5, Texas

Wood River Oil & Refining Co., Inc. 321 West Douglas Wichita, Kansas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. John S. Brown Mrs. Grace M. Brown 2000 Myrtle Avenue El Paso, Texas Mr. R. N. Richey Pacific Northwest Pipeline Corporation Post Office Box 1526 Salt Lake City. Utah

Mr. Jack Owens
Pacific Northwest Pipeline Corporation
M & M Building
Houston, Texas

Mr. J. C. Gordon Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1, Texas

Mr. Dudley Cornell Albuquerque Associated Oil Company 824 Simms Building Albuquerque, New Mexico

Mr. H. L. Snider, Jr. Aztec Oil & Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Brookhaven Oil Company Post Office Box 396 Scottsdale, Arizona

Mr. Ralph U. Fitting Post Office Box 1637 Midland, Texas

Mr. Forrest B. Miller Mrs. Mabelle M. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Forrest Daniell Mr. Robert C. Youngmun Pubco Petroleum Corporation Post Office Box 1419 Albuquerque, New Mexico



June 29, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

file

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unyt No. 14-08-001-569 E/2 Sec. 5, T-31-N, R-9-W Well #24 (OWWO)

#### Gentlemen:

This is to advise that in accordance with the San Juan 32-9 Unit Operating Agreement dated February 10, 1953, after obtaining the consent of the required working interest owners as therein provided, the following work was performed on the San Juan 32-9 Unit Well #24, located in the NE/4 of Section 5, Township 31 North, Range 9 West, N.M.P.M., San Juan County, New Mexico:

Re-working operations for this well were begun on February 1, 1956. The well was cleaned out to a depth of 5941'. Subsequently on the 11th day of February, 1956, the Point Lookout section of the Mesaverde formation was treated with a sandwater fracturing process from 5834' to 5896'. The Cliff House section of the Mesaverde formation was likewise treated on February 11, 1956, with a sand-water fracturing process from 5462' to 5556'. The total depth of the well after being reworked is 5945'. After being shut-in for gauge for seven days, the well was tested on February 22, 1956, and after a three hour blow-down gauged 5626 MCF/D with an SIPC of 844# and an SIPT of 849#.

As this drilling block was brought into the Participating Area by the Eighth Expansion effective August 1, 1954, the Participating Area is not expanded, and the percentages allocated to the tracts shown on Schedule IX for the Eighth Expanded Participating Area remain the same.

Inasmuch as this operation needs no official approval no provision is being made therefor.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

James C. Vandiver

Area Landman Lease Department

JCV:GBL:eb

cc: Attached List

## El Paso Natural Gas Company

El Paso, Texas June 5, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Pe, New Mexico file

Re: San Juan 32-9 Unit
No. 14-08-001-569

SEVENTEENTH EXPANDED
PARTICIPATING AREA
Mesaverde Formation
Effective April 1, 1956

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon acreage committed to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded.

#### This well is as follows:

The San Juan 32-9 Unit Well #25, located 1650' from the North line and 1500' from the East line of Section 2, Township 31 North, Range 10 West, San Juan County, New Mexico, was spudded on February 7, 1956, and completed on March 7, 1956, at a total depth of 5590'. The Cliff House section of the Mesaverde formation between 5016' and 5080' was treated with a water-sand fracturing process on March 2nd and 3rd, 1956. The Point Lookout section of the Mesaverde formation was treated with a water-sand fracturing process from 5496' to 5510' on March 1, 1956. After being shut-in for gauge for twelve (12) days, the well was tested on March 19, 1956, and following a three hour blowdown, gauged an IP of 23,123 MCFGPD with an SIPC of 1012# and an SIPT of 1011#. The committed drilling block upon which this well is located is described as the E/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M., containing 320.78 acres.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates one (1) intervening drilling block described as the E/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of April 1, 1956, the same time as the admission of the San Juan 32-9 Unit Well #25. Drilling must be commenced upon this intervening drilling block by April 1, 1957.

Attached is Schedule XVIII showing the Seventeenth Expanded Participating Area for the Mesaverde formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of April 1, 1956.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hamblin

Manager

Lease Department

RLH:GBL:rb

cc: Attached list

## El Paso Natural Gas Company

El Paso, Texas

April 30, 1956

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico fier

Re: San Juan 32-9 Unit
No. 14-08-001-569
SIXTEENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective March 1, 1956

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon acreage committed to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

#### This well is as follows:

The San Juan 32-9 Unit Well #28, located 1650' from the South line and 1650' from the West line of Section 26, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on November 6, 1955, and completed on January 21, 1956, at a total depth of 6360'. The Cliff House section of the Mesaverde Formation between 5689' and 5730' was treated with a water-sand fracturing process on January 16, 1956. The Point Lookout section of the Mesaverde Formation was also treated with a water-sand fracturing process between 6017' and 6322' on January 15, 1956. After being shut-in for gauge for sixteen (16) days, the well was tested on February 6, 1956, and following a three hour blow-down, gauged an IP of 15,776 MCFGPD with an SIPC of 975# and an SIPT of 864#. The committed drilling block upon which this well is located is described as the W/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Inasmuch

as this drilling block has already been admitted to the Participating Area as an intervening drilling block by the Fifteenth Expansion effective December 1, 1955, it is not included in this Expansion.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates one (1) intervening drilling block described as the E/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of March 1, 1956, the same time as the admission of the San Juan 32-9 Unit Well #28. Drilling must be commenced upon this intervening drilling block by March 1, 1957.

Attached is Schedule XVII showing the Sixteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of March 1, 1956.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R t. Hamblin

Manager

Lease Department

RLH:GBL:rb

cc: Attached list

u (1)

## El Paso Natural Gas Company

El Paso, Texas

February 8, 1956

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe. New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico file

Re: San Juan 32-9 Unit

FIFTEENTH EXPANDED PARTICIPATING AREA Mesaverde Formation Effective December 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon acreage committed to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

#### This well is as follows:

The San Juan 32-9 Unit Well #27, located 940' from the South line and 1040' from the West line of Section 23, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on October 3, 1955, and completed on November 2, 1955, at a total depth of 6265'. The Cliff House section of the Mesaverde Formation between 5698' - 5730' and 5768' - 5780' was treated with a water fracturing process on October 30, 1955. The Point Lookout section of the Mesaverde Formation was also treated with a water fracturing process between 6170' - 6190' and 6196' - 6205' on October 30, 1955. After being shut-in for gauge for nine (9) days, the well was tested on November 11, 1955, and following a three hour blow-down, gauged an IP of 3400 MCFGPD with an SIPC of 970# and an SIPT of 960#. The committed drilling block upon which this well is located is described as the W/2 of Section 23, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The inclusion of the above described well into the Participating Area of the San Juan 32-9 Unit creates one intervening drilling block described as the W/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of December 1, 1955, the same time as the admission of the San Juan 32-9 Unit Well #27. Drilling must be commenced upon this intervening drilling block by December 1, 1956.

Attached is Schedule XVI showing the Fifteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of December 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hamblin

Manager

Lease Department

RLH:GBL:eb

cc: Attached list



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. Now 6721 Regrell, Now Nextee

February 8, 1956

El Page Natural Gas Company P. O. Box 1492 El Page, Terms

Attentions Mr. R. L. Benblin

Gentlement

Now plan of development dated December 27, 1955, for the San June 38-9 Bedt, New Mexico, for the calcular year 1956, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Very truly yours,

John A. Andreck Regional Oil & Gas Supervisor

Inclosure

Copy to: Vesh (w/engy of plan)
Ourn, of rubble leads, Seats To (Ltr. only)
Oil Cons. Comm, Santa Fe (Ltr. only)

### OIL CONSERVATION COMMISSION P. O. BOX 871

#### SANTA FE, NEW MEXICO

January 30, 1956

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

Attention: Mr. R. L. Hamblin

file

Re: (Ban Juan 32-9 Unit)
San Juan County, New Mexico
1956 Drilling Program

#### Gentlemen:

This is to advise that the Drilling Program for calendar year 1956 for the San Juan 32-9 Unit Area, dated December 27, 1955, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

W. B. Macey Secretary-Director

WBMijh

ec: U. S. Geological Survey, Reswell
Commissioner of Public Lands, Same Fe

### El Paso Natural Gas Company

El Paso, Texas

December 27, 1955

PLEASE RETURN TO LEASE DEPARTMENT

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit, #14-08-001-569

San Juan County, New Mexico 1956 DRILLING PROGRAM

#### Gentlemen:

By letter of December 28, 1954, El Paso Natural Gas Company set forth its Drilling Program for the above captioned unit providing for the drilling of twelve (12) wells in the Mesaverde Formation during the calendar year 1955. Ten (10) of the wells on the program have been completed as follows:

										INIT	IAL	
WELL NAME				DRILLING TRACT			POTEN	<u> </u>	TIED-IN			
San	Juan	32-9	Unit	#21	W/2	Sec.	11,	T-31-N,	R-10-W	9396	MCFGPD	4-7-55
San	Juan	32-9	Unit	#26			•	T-31-N,			MCFGPD	6-14-55
*San	Juan	32-9	Unit	#27	W/2	Sec.	23,	T-32-N,	R-10-W	3400	MCFGPD	No
San	Juan	32-9	Unit	#29	W/2	Sec.	36,	T-32-N,	R-10-W	19529	MCFGPD	No
San	Juan	32-9	Unit	#30	E/2	Sec.	36,	T-32-N,	R-10-W	4833	MCFGPD	No
San	Juan	32-9	Unit	#31	W/2	Sec.	13,	T-31-N,	R-10-W	6979	MCFGPD	6-14-55
San	Juan	32-9	Unit	#33	W/2	Sec.	6,	T-31-N,	R- 9-W	6622	MCFGPD	7-8-55
San	Juan	32-9	Unit	#34	W/2	Sec.	35,	T-32-N,	R-10-W	7337	MCFGPD	6-10-55
San	Juan	32-9	Unit	#35	E/2	Sec.	10.	T-31-N,	R- 9-W	8411	MCFGPD	12-15-55
San	Juan	32-9	Unit	#36			•	T-32-N,			MCFGPD	11-7-55

<sup>\*</sup> The above well was tested on November II, 1955, but has not yet been admitted to the Participating Area.

Two (2) wells on the 1955 Drilling Program have not been completed. The San Juan 32-9 Unit Well #28, located in the W/2 of Section 26, Township 32 North, Range 10 West, is being drilled at this time. Due to difficulties encountered in connection with the drilling of this well the drilling of the San Juan 32-9 Well #25, located in the E/2 of Section 2, Township 31 North, Range 10 West, has been delayed. Both of these wells however will be completed with due diligence by El Paso Natural Gas Company in the near future.

There are at this time thirty (30) commercial wells in the San Juan 32-9 Unit, twenty-nine (29) of which have been admitted to the Participating Area. Of the twenty-nine (29) wells admitted to the Participating Area, twenty-seven (27) have been tied-in to our gathering system.

Total production from the unit from January 1, 1955, through November 30, 1955 was 2,607,258 MCF. The total value from the sale of natural gas, propane, butane, and condensates from January 1, 1955 through November 30, 1955 was \$400,575.76.

Pursuant to Section 10 of the above numbered Unit Agreement, El Paso Natural Gas Company, as Unit Operator, herewith submits its Drilling Program for the period from January 1, 1956 to December 31, 1956.

As Unit Operator we have canvassed all working interest owners in this Unit, and the proposed Drilling Program covers all drilling requests that we have received.

The proposed wells are as follows:

	DRILLING B	FORMATION	
<b>*W/2</b>	Section 2	T-31-N, R-10-W	Mesaverde
*W/2	Section 4	T-31-N, R- 9-W	Mesaverde
E/2	Section 4	T-31-N, R- 9-W	Mesaverde
*E/2	Section 6	T-31-N, R- 9-W	Mesaverde
E/2	Section 11	T-31-N, R-10-W	Mesaverde
*W/2	Section 12	T-31-N, R-10-W	Mesaverde
*E/2	Section 26	T-32-N, R-10-W	Mesaverde
W/2	Section 30	T-32-N, R- 9-W	Mesaverde
*E/2	Section 31	T-32-N, R- 9-W	Mesaverde
*E/2	Section 32	T-32-N, R- 9-W	Mesaverde
*E/2	Section 35	T-32-N, R-10-W	Mesaverde

\* Intervening drilling blocks necessary to be drilled in 1956.

El Paso Natural Gas Company, as Umit Operator, intends to drill all of the above mentioned wells to the base of the Mesaverde Formation using rotary tools. Surface casing of 10-3/4" will be set to approximately 150' below the surface and an intermediate string of 7-5/8" casing will be set through the Pictured Cliffs Formation to a depth of approximately 3200°. From this point a 5-1/2" production string will be set through the Mesaverde Formation, and the casing of the Mesaverde Formation will then be selectively perforated and the Mesaverde Formation will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled in with gas. Due care will be taken to protect all horizons.

All well locations will be in either the NE/4 or the SW/4 of the sections.

If this Drilling Program is acceptable, please signify your approval of the drilling program as required under Section 10 of the Unit Agreement in the space provided below. Please return one approved copy to El Paso Natural Gas Company, Unit Operator.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hamblin

Manager

Lease Department

A PPROVED:	:	DATE:
	Director, United States Geological Survey	
	Subject to like approval by the appropriate Sta-	te officials.
A PPROVED :	·	DATE:
	Commissioner of Public Lands	
	Subject to like approval by the U.S.G.S. and Oi	l Conservation Commission.
APPROVED:	·	DATE:
	Oil Conservation Commission	

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma Attention: Mr. G. E. Benskin

Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas Attention: Mr. Jack Martin

The Atlantic Refining Company
Post Office Box 2819
Dallas, Texas
Attention: Mr. Claude A. Williams

The Texas Company
Drawer 1720
Fort Worth, Texas
Attention: Mr. E. W. Lewis

Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico
Attention: Mr. Forrest Daniell
Attention: Mr. Robert C. Youngmun

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 720 Simms Building Albuquerque, New Mexico Attention: Mr. R. N. Richey

Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas Attention: Miss Margaret Clark

Lucerne Corporation
Mercantile Securities Building
Dallas 1, Texas
Attention: Mr. F. M. Jacobson

Standard Oil Company of Texas Post Office Box 1249 Houston, Texas Attention: Mr. H. W. Mathews

Albuquerque Associated Oil Company First National Bank Building Albuquerque, New Mexico Attention: Mr. Dudley Cornell

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas Attention: Mr. H. Phillips

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico January 18, 1956

El Peso Netural Gas Co.

P. O. Box 1492

El Paso, Texas

fin

Re: San Juan 32-9 Unit )
San Juan County
1956 Drilling Program

#### Gentlement

We are enclosing one copy of the 1956 Drilling Program for the San Juan 32-9 Unit, dated December 27, 1955, which was approved by the Commissioner of Public Lands January 18, 1956, subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Very truly yours,

E. S. WALKER
Commissioner of Public Lands

MMA/m

cc: USGS-Roswell OCC-Santa Fe P

### El Paso Natural Gas Company

El Paso, Texas

December 30, 1955

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico file

Re: San Juan 32-9 Unit No. 14-08-001-569

FOURTEENTH EXPANDED PARTICIPATING AREA

Mesaverde Formation

Effective November 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon acreage committed to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded.

#### These wells are as follows:

The San Juan 32-9 Unit Well #30, located 1750' from the North line and 840' from the East line of Section 36, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on August 27, 1955, and completed on September 28, 1955, at a total depth of 5880'. The Cliff House section of the Mesaverde formation between 5358' and 5426' was treated with a water fracturing process on September 26, 1955. The Point Lookout section of the Mesaverde formation was also treated with a water fracturing process between 5846' and 5874' on September 22, 1955. After being shut-in for gauge for fourteen (14) days, this well was tested on October 11, 1955, and following a three hour blow-down, gauged an IP of 4833 MCFGPD with an SIPC of 1040# and an SIPT of 1041#. The committed drilling block upon which this well is located is described as the E/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. The drilling block upon

which this well is located was included in the San Juan 32-9 Unit Thirteenth Expanded Participating Area, effective October 1, 1955, and is not included herein.

- The San Juan 32-9 Unit Well #35, located 1560' from the North line and 1600' from the East line of Section 10. Township 31 North, Range 9 West, San Juan County, New Mexico, was spudded on August 15, 1955, and completed on September 19, 1955, at a total depth of 5837'. The Cliff House section of the Mesaverde formation was treated with a water fracturing process on September 15, 1955 between 5290' and 5380'. The bottom of the Point Lookout section was treated with a water; and sand fracturing process on September 12, 1955, between 5745' and 5760', and 5775' and 5815'. The top of the Point Lookout section was treated with a water and sand fracturing process on September 14, 1955, between 5630' and 5716'. After being shut-in for gauge for fourteen (14) days, the well was tested on October 3, 1955, and following a three hour blow-down, gauged an IP of 8411 MCFGPD, with an SIPC of 996# and an SIPT of 996#. The completed drilling block upon which this well is located is the E/2 of Section 10, Township 31 North, Range 9 West, containing 320.00 acres.
- 3. The San Juan 32-9 Unit Well #36, located 1150' from the South line and 1150' from the West line of Section 33, Township 32 North, Range 9 West, San Juan County, New Mexico, was spudded on September 21, 1955, and completed on October 15, 1955, at a total depth of 5955'. The Point Lookout section of the Mesaverde formation was treated with a water-sand fracturing process on October 13, 1955, between 5725' and 5882'. After being shut-in for gauge for ten (10) days, the well was tested on October 25, 1955, and following a three hour blow-down, gauged an IP of 3221 MCFGPD, with an SIPC of 1040# and an SIPT of 1036#. The completed drilling block upon which this well is located is the W/2 of Section 33, Township 32 North, Range 9 West, containing 320.00 acres.

The completion of Well #35, located on the E/2 of Section 10, Township 31 North, Range 9 West, does not create any intervening drilling blocks, but the completion of Well #36, located on the W/2 of Section33, Township 32 North, Range 9 West, creates two (2) intervening blocks, which are described as the E/2 of Section 32, Township 32 North, Range 9 West, containing 320.00 acres; and the W/2 of Section 4, Township 31 North, Range 9 West, containing 320.20 acres. Under the terms of the Unit Agreement, these drilling blocks are admitted to the Participating Area as of November 1, 1955. Wells must be commenced on these intervening drilling blocks by November 1, 1956.

Attached is Schedule XV showing the Fourteenth Expanded Participating Area for the Mesaverde formation for the San Juan 32-9 Unit Area. This describes the Ex-

panded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of November 1, 1955.

Very truly yours,

BL PASO NATURAL GAS COMPANY

R. L. Hamblin

Manager

Lease Department

RLH:GBL:rb

cc: Attached list

 $N_{Q_{\widehat{G}}}$ 

### El Paso Natural Gas Company

El Paso, Texas

November 29, 1955

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico fice

Re: San Juan 32-9 Unit
No. 14-08-001-569
THIRTEENTH EXPANDED PARTICIPATING AREA
MESAVERDE FORMATION
Effective October 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

This well is as follows:

San Juan 32-9 Unit Well #29 located 1140' from the South line and 850' from the West line of Section 36, Township 32 North, Range 10 West, San Juan County, New Mexico, was spudded on July 27, 1955 and completed on August 23, 1955, at a total depth of 5920'. The Cliff House Section of the Mesaverde Formation between 5371' and 5515' was treated with a sand-oil fracturing process on August 20, 1955. After being shut-in for gauge for twenty days, this well was tested on September 12, 1955, and following a three hour blow-down, gauged an IP of 19,529 MCFGPD with an SIPC of 1037# and an SIPT of 1038#. The committed drilling block upon which this well is located is described as the W/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres.

The drilling block upon which this well is located was included in the San Juan 32-9 Unit Tenth Expanded Participating Area effective July 1, 1955, and is not included herein.

The completion of the foregoing well does create, however, two intervening drilling blocks which are included in this expansion. These two intervening drilling blocks are described as the E/2 of Section 35, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres, and the E/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320 acres. Under the terms of the Unit Agreement, these drilling blocks are admitted to the Participating Area as of October 1, 1955. Wells must be commenced on these intervening drilling blocks by October 1, 1956.

Attached is Schedule XIV showing the Thirteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval, this Expanded Participating Area will become effective as of October 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin

Manager

Lease Department

RLH:GBL:eb

cc: Attached List

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 508 Bank Building Bartlesville, Oklahoma Attention: Mr. G. E. Benskin

Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas Attention: Mr. Jack Martin

The Atlantic Refining Company
Post Office Box 2819
Dallas, Texas
Attention: Mr. Claude A. Williams

The Texas Company
Drawer 1720
Fort Worth, Texas
Attention: Mr. E. W. Lewis

Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico
Attention: Mr. Forrest Daniell
Attention: Mr. Robert C. Youngmun

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 720 Simms Building Albuquerque, New Mexico Attention: Mr. R. N. Richey

Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas Attention: Miss Margaret Clark

Lucerne Corporation
Mercantile Securities Building
Dallas 1, Texas
Attention: Mr. F. M. Jacobson

Standard Oil Company of Texas Post Office Box 1249 Houston, Texas Attention: Mr. H. W. Mathews

Albuquerque Associated Oil Company First National Bank Building Albuquerque, New Mexico Attention: Mr. Dudley Cornell

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas Attention: Mr. H. H. Phillips

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

### El Paso Natural Gas Company

El Paso, Texas

October 21, 1955

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico #498

f:fe

Re: San Juan 32-9 Unit
No. 14-08-001-569
TWELFTH EXPANDED PARTICIPATING AREA
MESAVERDE FORMATION
Effective September 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

#### This well is as follows:

San Juan 32-9 Unit Well # 32 located 990' from the South line and 990' from the West line of Section 31, Township 32 North, Range 9 West, San Juan County, New Mexico, was spudded on June 22, 1955, and completed on July 21, 1955, at a total depth of 6052'. The Cliff House Section of the Mesaverde Formation between 5415' and 5655' was treated with a sand-oil fracturing process on July 20, 1955. The Point Lookout Section of the Mesaverde Formation was also treated with a sand-oil fracturing process between 5720' and 6052' on July 22, 1955. After being shut-in for gauge for ten days, this well was tested on August 3, 1955, and following a three hour blow-down, gauged an IP of 6174 MCFGPD with an SIPC of 994# and an SIPT of 996#. The committed drilling block upon which this well is located is described as the W/2 of Section 31, Township 32 North, Range 9 West, N.M.P.M., containing 197.6 acres.

The inclusion of this well creates one intervening drilling block. This intervening drilling block is described as the E/2 of Section 31, Township 32 North, Range 9 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of September 1, 1955, the same time of admission of the San Juan 32-9 Unit # 32 Well. A well must be commenced on this intervening drilling block by September 1, 1956.

Attached is Schedule XIII showing the Twelfth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval, this Expanded Participating Area will become effective as of September 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hambl

Manager

Lease Department

RLH:GBL:eb

cc: Attached list

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 10 West Wing, Phillips Building BartTesville, Oklahoma

Southern Union Gas Company 1104 Burt Building Dallas 1, Texas Attention: Mr. Howard W. McDade

Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas Attention: Mr. Jack Martin

The Atlantic Refining Company
Post Office Box 2819
Dallas, Texas
Attention: Mr. Claude A. Williams

The Texas Company
Drawer 1720
Fort Worth, Texas
Attention: Mr. E. W. Lewis

Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico
Attention: Mr. Forrest Daniell
Attention: Mr. Robert C. Youngmun

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 720 Simms Building Albuquerque, New Mexico Attention: Mr. R. N. Richey

Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas Attention: Miss Margaret Clark

Lucerne Corporation
Mercantile Securities Building
Dallas 1, Texas
Attention: Mr. F. M. Jacobson

Standard Oil Company of Texas Post Office Box 1249 Houston, Texas Attention: Mr. H. H. Kuester Attention: Mr. H. W. Mathews

Albuquerque Associated Oil Company First National Bank Building Albuquerque, New Mexico Attention: Mr. Dudley Cornell

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas Attention: Mr. H. H. Phillips

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

### El Paso Natural Gas Company

El Paso, Texas

August 30, 1955

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico file

Re: San Juan 32-9 Unit No. 14-08-001-569

Eleventh Expanded Participating

Area

Mesaverde Formation Effective August 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

#### This well is as follows:

San Juan 32-9 Unit Well # 33 located 1180' from the South line and 1090' from the West line of Section 6, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on May 25, 1955, and completed on June 19, 1955 at a total depth of 5780'. The Cliff House Section of the Mesaverde Formation between 5190' and 5350' was treated with a sand-oil fracturing process on June 15, 1955. The Point Lookout Section of the Mesaverde Formation was also treated with a sand-oil fracturing process between 5503' and 5782' on June 18, 1955. After being shut-in for gauge for 17 days this well was tested on July 6, 1955, and following a three hour blow-down, gauged an IP of 6622 MCFGPD

with an SIPC of 1039# and an SIPT of 1040#. The committed drilling block upon which this well is located is described as the W/2 of Section 6, Township 31 North, Range 9 West, N.M.P.M., containing 198.05 acres.

The inclusion of this well creates one intervening drilling block. This intervening drilling block is described as the E/2 of Section 6, Township 31 North, Range 9 West, N.M.P.M., containing 320.60 acres. Under the terms of the Unit Agreement, this drilling block is admitted to the Participating Area as of August 1, 1955, the same time of admission of the San Juan 32-9 Unit # 33 Well. A well must be commenced on this intervening drilling block by August 1, 1956.

Attached is Schedule XII showing the Eleventh Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval, this Expanded Participating Area will become effective as of August 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

R. L. Hambli

Manager

Lease Department

RLH:GBL:rb

cc: Attached list

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 10 West Wing, Phillips Building Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas 1, Texas

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. Claude A. Williams
The Atlantic Refining Company
Post Office Box 2819
Dallas, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. Forrest Daniel
Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 520 Simms Building Albuquerque, New Mexico

Miss Margaret Clark Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuque rque Associated Oil Company
First National Bank Building
Albuquerque, New Mexico

Mr. H. H. Phillips, Jr.
Phillips Drilling Corporation
306 Milam Building
San Antonio, Texas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

### El Paso Natural Gas Company

El Paso, Texas

July 7, 1955

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico



Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Tenth Expanded Participating Area
Mesaverde Formation
Effective June 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that two additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded:

#### These wells are as follows:

1. San Juan 32-9 Unit Well #26 located 1625 feet from the South line and 1000 feet from the West line of Section 1, Township 31 North, Range 10 West, San Juan County, New Mexico. This well was spudded on April 30, 1955, and completed on May 22, 1955 at a total depth of 5780 feet. The Cliff House Section of the Mesaverde formation between 4932 feet and 5220 feet was treated with a sand-oil fracturing process on May 19, 1955. The Point Lookout Section of Mesaverde formation was also treated with a sand-oil fracturing process between 5422 feet and 5780 feet on May 21, 1955. After being shutin for 9 days this well was tested on May 31, 1955, and following a three hour blow-down, gauged an IP of 8948 MCFGPD with an SIPC of 1049# and an SIPT of 1048#. The committed drilling block upon which this well is located is described as the W/2 of Section 1, Township 31 North, Range 10 West, N.M.P.M., containing 320.48 acres.

San Juan 32-9 Unit Well #31 located 1749 feet from the South line and 1649 feet from the West line of Section 13, Township 31 North, Range 10 West, San Juan County, New Mexico. This well was spudded on March 25, 1955, and completed on April 27, 1955 at a total depth of 5797 feet. The Cliff House Section of the Mesaverde formation between 5050 feet and 5239 feet was treated with a sand-oil fracturing process on April 15, 1955. The Point Lookout Section of the Mesaverde formation was also treated with a sand-oil fracturing process between 5540 feet and 5797 feet on April 25, 1955. After being shut-in for 7 days this well was tested on May 4, 1955 and following a three hour blow-down gauged an IP of 6979 MCFGPD with an SIPC of 998# and an SIPT of 997#. The committed drilling block upon which this well is located is described as the W/2 of Section 13, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The inclusion of these wells creates two intervening drilling blocks. These intervening drilling blocks are described as the W/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres, and the W/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement these drilling blocks are admitted to the Participating Area as of June 1, 1955, the same time of admission of the San Juan 32-9 #26 Well and #31 Well. Wells must be commenced on these intervening drilling blocks by June 1, 1956.

Attached is Schedule XI showing the Tenth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval, this Expanded Participating Area will become effective as of June 1, 1955.

Very truly yours,

EL PASO NATURAL GAS COMPANY

r. D. Hampir

Manager

Lease Department

RLH:GBL:rb

cc: Attached list.

Re: San Juan 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Phillips Petroleum Company 10 West Wing, Phillips Building Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas 1, Texas

Mr. Jack Martin Delhi-Taylor Oil Corporation 823 Corrigan Tower Dallas 1, Texas

Mr. Claude A. Williams The Atlantic Refining Company Post Office Box 2819 Dallas, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. Forrest Daniel
Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Avenue El Pasc, Texas

Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico Pacific Northwest Pipeline Corporation 520 Simms Building Albuquerque, New Mexico

Miss Margaret Clark Three States Natural Gas Company 17th Floor, Corrigan Tower Dallas 1, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas 1, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Post Office Box 1249 Houston, Texas

Mr. Dudley Cornell Albuque rque Associated Oil Company First National Bank Building Albuquerque, New Mexico

Mr. H. H. Phillips, Jr. Phillips Drilling Corporation 306 Milam Building San Antonio, Texas

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

## El Paso Natural Gas Company

El Paso, Texas

May 4, 1955

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico



San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Ninth Expanded Participating Area
Mesaverde Formation
Effective April 1, 1955

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that two additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded:

#### These wells are as follows:

.. San Juan 32-9 Unit Well #21 located 990 feet from the South line and 990 feet from the West line of Section 11, Township 31 North, Range 10 West, San Juan County, New Mexico. This well was spudded on January 26, 1955, and completed on February 23, 1955 at a total depth of 5425 feet. The Cliff House Section of the Mesaverde formation between 4745 feet and 4950 feet was treated with a sand-oil fracturing process on February 18, 1955. The Point Lookout Section of the Mesaverde formation was also treated with a sand-oil fracturing process between 5185 feet and 5425 feet on Febreary 22, 1955. After being shut-in for 9 days this well was tested on March 4, 1955 and following a three hour blow-down, gauged 9396 MCFGPD with an SIPC of 1041# and SIPT of 1041#. The committed drilling block upon which this well is located is described as the W/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The state of the s

2. San Juan 32-9 Unit Well #34 located 1550 feet from the South line and 1450 feet from West line of Section 35, Township 32 North, Range 10 West, San Juan County, New Mexico. This well was spudded on March 1, 1955 and completed on March 21, 1955 at a total depth of 5409 feet. The Cliff House Section of the Mesaverde fermation between 4800 feet and 4940 feet was treated with a sand-eil fracturing precess on March 18, 1955. The Peint Leekeut Section of the Mesaverde fermation was also treated with a sand-eil fracturing process between 5130 feet and 5430 feet en March 20, 1955. After being shut-im fer 10 days this well was tested on March 31, 1955 and fellowing a three hour blow-down, gauged 7337 MCFGPD with am SIPC of 1057# and SIPT of 1051#. The committed drilling block upon which this well is located is described as the W/2 of Section 35, Tewnship 32 North, Range 10 West, N.M.P.M., centaining 320.00 acres.

The inclusion of these wells creates one intervening drilling block. This intervening drilling block is described as the W/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M., and contains 321.06 acres. Juder the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of April 1, 1955, the same time of admission of the Sam Juan 32-9 #21 Well and #34 Well. A well must be commenced on this intervening drilling block by April 1, 1956.

Attached is Schedule X shewing the Ninth Expanded Participating Area for the Mesaverde Fernation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no efficial approval, no prevision is made, therefore in the absence of disapproval, this Expanded Participating Area will become effective as of April 1, 1955.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin

Manager

Lease Department

RLH:DBM:rb

cc: Attached List.

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark
Three States Natural Gas Company
Corrigan Tower
Dallas, Texas

Mr. Aaron L. Colvin Delhi-Taylor Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas, Texas

Mr. Claude A. Williams
The Atlantic Refining Company
Post Office Box 2819
Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Building
Albuquerque, New Mexico

Mr. Forrest Daniel Pubco Development, Inc. Box 1360 Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Avenue El Paso, Texas Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas

### EL PALO NATURAL GAS 62 MPANY

EL PASO, TEXAS

March 7, 1955

Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Pe, New Mexico

Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico fill

Re: Part Tract 68

Ban Juan 32-9 Unit
#14-08-001-569

#### Gentlemen:

We are forwarding herewith one (1) copy of Ratification and Joinder executed by the parties indicated below committing their basic royalty interests in the SW/4 MW/4, Section 14, Township 31 Morth, Range 10 West, containing 40 acres more or less, being a part of Tract Number 68. As a matter of additional information we call to your attention that the working interest is owned one-half (1/2) by El Paso Matural Gas Company and one-half (1/2) by Brookhaven Oil Company.

- Ratification and Joinder executed by Southland Boyalty Company committing their 7.8125% basic royalty in the foregoing lands.
- 2. Ratification and Joinder executed by O. L. Malone and Farrabbelle Malone committing their .78125% basic royalty in the foregoing lands.
- 3. Ratification and Joinder executed by M. H. Ford and Fauline Ford committing their .78125% basic royalty in the foregoing lands.
- 4. Ratification and Joinder executed by A. F. Reese and Katie Lee Reese committing their 3.125% basic royalty in the foregoing lands.

These Ratifications and Joinders have been consented to and approved by El Paso Natural Gas Company and Brookhaven Oil Company as working interest owners. Although these parties are not shown in the present Exhibit "B" said Exhibit will be revised in the near future and such changes will be incorporated therein.

Very truly yours,

T. W. Bittick Area Landman Lease Department

TWB/BOM/mas Enclosures

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execut Development and Operation of the	ion of the Unit Agreement San Juan 32-9 Unit	for the
Development and Operation of the Area located within the County of	San Juan	State of
New Mexico in form approved on behalf of	the Secretary of the Int	erior, the
undersigned owners of lands or leases, of		
presently held or which may arise under		
interests in production covered by said		
to the extent of his or her particular of		
consent to the inclusion of said lands w		
ratify, approve and adopt the terms of s		
tions thereof approved by the Secretary		
representative as applicable to said sev		
the term of any lease given by the under		
claims an interest herein is extended an		
make the same conform to the terms of sa		
ing, development and producing requirement		
in which their several rights and interest		
deemed fully performed by performance of and agree that payment for or delivery of		
prior agreements) oil and gas duly made		
duction allocated under said Unit Agreements		
such rights or interests do or shall app		
therefrom, shall constitute full perform		
undersigned existing under such leases of		OILD CO CIIC

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
611 Fort Worth National Bank Bldg.	SOUTHLAND ROYALTY, COMPANY
Fort Worth, Texas	By: N. N. Sorter Vice-Pres.
Date:	·
	ATTEST: Pollonen Secretary
Date:	

GAS COMPANY

WORKING INTEREST OWNER

APPROVED AND COMBENTED TO:

WORKING INTEREST OWNER

STATE OF	)	
COUNTY OF TARBABT	) SS.: )	
_ 4:	<b>S</b>	
On this 1	day of	, 195, before me appeared
he so Postan	d car that he da	the vice President of
MALL COPIES,		and that the seal affixed to said instrument
and sealed in behalf	of said corporat	tion, and that said instrument was signed ion by authority of its board of directors,
and said the free act and dee	TAKE .	acknowledged said instrument to be
	-	
		hereunto set my hand and affixed my official cate first above written.
My Commission expire	8\$	
June 1, 1955		(Rom 0. Andth)
		Notary Public in and for
		County,
		State of
STATE OF	)	
COUNTY OF	) SS.:	
	,	
going instrument, an and deed.	d acknowledged to	and ons described in and who executed the fore- one they executed the same as their free act
My Commission expire	81	
	·	Notary Public in and for
		State of
STATE OF	)	
COUNTY OF	) SS.:	
	, ,	, 195, before me personally
appeared	in and who execu he executed the	, a single person, to me known to be ited the foregoing instrument, and acknowledge same asfree act and deed.
My Commission expire	88	
:		
<del></del>		
		Notary Public in and for County,
		State ofCounty,

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 32-9 Unit
Area located within the County ofSan JuanState of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement.
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
116 B. Fern Ave.	O X Justine
Redlands, California	Jarrah Belle Malan Farrahbell Maione
Date: 8-2-5-4	
ange of drange St. 233 So Change St	
Orange Cauj	Hurriette & Clark MY DOMNIBBION EXPIRES AUG. 22, 1848
Date: Sept 13th 1954	Orange Prange Calif
APPROVED AND CONSCRIPT TO:	APPROVED AND CONSENTED TO:
EL PASO NATIONAL MASCONIANY	BROOKHAVEN OIL COMPANY
By Vice President	By Shandster

UNIT OPERATOR

STATE OF	
COUNTY OF ) SS.:	
On thisday of	, 195, before me appeared
is the corporate seal of said corporation and sealed in behalf of said corporation and said the free act and deed of said corporation	n by authority of its board of directors,acknowledged said instrument to be on. reunto set my hand and affixed my official
My Commission expires:	
	Notary Public in and for
	State ofCounty,
mis wile, to me known to be the persons	d Jarrah Bulle Malone described in and who executed the forese they executed the same as their free act
My Commission expires:	Henrietta & Clark
ling 22 1958	Notary Public in and for Orange  County,  State of Colfornia.
STATE OF ) SS.: COUNTY OF )	
On thisday of	, 195, before me personally
appeared	, a single person, to me known to be d the foregoing instrument, and acknowledged ame asfree act and deed.
My Commission expires:	
	Notary Public in and forCounty,

State of\_

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the
Area located within the County of San Juan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
Lubbock, Texas	In It And
	Parline Ford
	Pauline Ford
Date: Reguit 17, 1954	
· ·	
Date:	

APPROVED AND CONSCIPTED TO:

EL PASO NATURAL CAS COMPAN

By Vice President

WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:

BROOKHAVEN OIL COMPANY,

Vice President

WORKING INTEREST OWNER

STATE OF	) SS.:	
COUNTY OF	)	
On this	day of	, 195, before me appeared
		, to me personally known, who, being
by me duly sworn, did	say that he is the	, to me personally known, who, being President of that the seal affixed to said instrument
and sealed in behalf	of said corporation of said corporation	n, and that said instrument was signed by authority of its board of directors,  acknowledged said instrument to be n.
		eunto set my hand and affixed my official e first above written.
My Commission expires	3:	
	-	Notary Public in and for
		State ofCounty,
Texas State of	)	
STATE OF Lubbock COUNTY OF	) SS.: )	
On this M H Ford		, 195, before me appeared Pauline Ford
his wife, to me known going instrument, and and deed.	to be the persons	described in and who executed the fore- they executed the same as their free act
My Commission expire		
June 1, 1955	<del></del>	verolog Joe Box
		Notary Rublic in and for
		State of
		*
STATE OF	)	
COUNTY OF	) SS.: )	
On this	day of	, 195, before me personally
	in and who executed	, a single person, to me known to be the foregoing instrument, and acknowledge me asfree act and deed.
My Commission expire	s:	
	<del></del>	Notary Public in and for
		State of

- ,

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 32-9
Development and Operation of the Sam Juan 32-9
beveropment and operation of the
Area located within the County of San Juan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.
This Ratification and Joinder of Unit Agreement may be executed in
any number of counterparts with the same force and effect as if all parties
had signed the same document and shall be binding upon all those who execute

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS	SIGNATURE
Shallowater, Texas	2 F. Kuse
Shallowater Le	Katul Lu Relse
Date: 0119.31, 1954	Entie Lee Reese
Date:	
APPROVED AND CONSENTED TO . Appr	OVER AND CONCENTED TO.

BROOKHAVEN OIL COMPANY

WORKING INTEREST OWNER

EL PASO NATURAL GAS COMPANY

WORKING INTEREST OWNER

Vice President

STATE OF	) ) SS.:	
COUNTY OF	) 55.:	
On this	day of	, 195, before me appeared
		•
by me duly sworn, di	ld say that he is th	, to me personally known, who, being ePresident of
and sealed in behalf	al of said corporation of said corporation	d that the seal affixed to said instrument on, and that said instrument was signed n by authority of its board of directors,acknowledged said instrument to be on.
the free act and dee	ed of said corporation	on.
		reunto set my hand and affixed my official te first above written.
My Commission expire	s:	
		Notary Public in and for
		State ofCounty,
		State of
STATE OF Texas  COUNTY OF Lubbock	)	
COUNTY OF Lubbock	) 55.:	
	·	
_	a	4
	13 day of Septemb	per , 195 4 , before me appeared
A. F. Reese	an	Katie Lee Reese
	m to be the persons	described in and who executed the fore- e they executed the same as their free act
My Commission expire	351	
June 1, 1955	· · · · · · · · · · · · · · · · · · ·	E. G. Blair
	Notary Public in and for Lubbock County,	
	State of Texas	
		×
STATE OF	١	
SIRIE OF	) SS.:	
COUNTY OF	)	
On this	day of	, 195, before me personally
appeared		, a single person, to me known to be
the person described	l in and who executed	d the foregoing instrument, and acknowledged ame asfree act and deed.
My Commission expire	<b>:</b> s:	
		e variable services and the services of the services and the services are services as the services are serv
	<del></del>	Notary Public in and for County,
		· · · · · · · · · · · · · · · · · · ·

State of

# El Paso Natural Gas Company El Paso, Texas February 17, 1955

Director United States Geological Survey Department of the Interior Washington, D. C.

Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit

#14-08-001-569

San Juan County, New Mexico

#### Gentlemen:

This is to advise that the Drilling Program for the Calendar year 1955, regarding this Unit, was approved by the appropriate State and Federal Authorities as follows:

- 1. Approved February 4, 1955, by the Regional Oil and Gas Supervisor of the United States Geological Survey.
- 2. Approved January 21, 1955, by the Commissioner of Public Lands of the State of New Mexico.
- 3. Approved February 10, 1955, by the Oil Conservation Commission of the State of New Mexico.

Very truly yours,

T. W. Bittick Area Landman Lease Department

TWB/DBM/mas

cc: Attached List

#### OIL CONSERVATION COMMISSIO.

P. O. BOX 871

#### SANTA FE, NEW MEXICO

February 9, 1955

pier 498

· El Pase Natural Gas Company

P. O. Bex 1492

El Paso, Texas

Attention: Mr. R. L. Hamblin

Re: San Juan 32-9 Unit
San Juan County, New Mexico
1955 Drilling Program

#### Gentlemen:

This is to advise that the Plan of Development for calendar year 1955 for the subject unit, dated December 28, 1954, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is herewith returned.

Very truly yours,

Far

W. B. Macey Secretary - Director

WBM:jh

ce: USGS - Roswell

Commissioner of Public Lands - Santa Fe

#### OIL JONSERVATION COMMISSIO.

P. O. BOX 871

#### SANTA FE. NEW MEXICO

2. car. my 4, 1955

884 deig

El Paso Natural Cas Company P. O. Box 1492

El Paso, Texas

Attention: Mr. E. L. sambling

et e ek 2-6 **alk** ven e e**omes, New** Beaken 1955 - Nag May Marana

#### Gentlemen:

This is to says we that ti lian of herefore where conductions 1955 for the subject unit, dated recomber 25, iv. at this late been approved by the base hereo Od raser warren Combined and, angled to like approval by the United States Reological Survey of Ey the Conditionaler of Public Lands of the state of Eve Mexico.

One approved copy of the Plan is corewise. Correct

. 4746 - 170 (7**15** )

Wy.

N. E. . ac. Secret by - conser

WBM:jh

cc: US(IS - Roswell

Commissioner of Public Las it a Santa Re-



### UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P. O. New 6721 Recycll, New Mexico

Pobrecry 4, 1955

El Paso Habural Gas Company El Paso Habural Gas Building El Paso, Texas

#### Good Leanner

The plan of development dated December 25, 1954, for the San Juan 32-9 unit area, New Mexico, No. 14-08-002-569, has been approved on this date, subject to like approval by the appropriate State officials.

In addition to the proposed wells listed in the plan of development, adequate affect wells must be drilled to protect the unit area from drainage as provided in the unit agreement.

One approved copy of said plan is returned herewith,

Yery truly yours,

JOHN A. ANTENSON Regional Oil and Gas Supervisor

Comer to:

✓ N.M. O. C. C., Santa Fe (ltr only)



## COMPANIES DEPARTMENT OF THE NATES OF GEORGE

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"我们是工人" 医胸头 电线电路 "你说,你是不懂了

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#194833 (210.3)\*

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copy to:

/N.M. O. C. C. Sarta Schiltricals)

### El Paso Natural Gas Company

El Paso, Texas

December 28, 1954

Mr. John A. Anderson Regional Supervisor United States Geological Survey Department of the Interior Post Office Building Roswell, New Mexico

Mr. E. S. Walker Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Mr. W. B. Macey, Secretary Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1955 Drilling Program

#### Gentlemen:

By letter dated February 23, 1954, El Paso Natural Gas Company, as Unit Operator, filed a drilling program regarding the captioned Unit for the calendar year 1954. All of the wells on this drilling program were completed upon this Unit during such period as follows:

			Initial	
Well Name		Drilling Tract	Potential	Tied In
*San Juan 3	32-9 #9	W/2 25-32-10	4,832	8-31-54
San Juan 3	<b>2-9 #16</b>	E/2 8-31-9	3,490	4-27-54
San Juan 3	2-9 #17	W/2 8-31-9	3,042	4-27-54
San Juan 3	2-9 #18	W/2 17-31-9	5,011	7-5-54
San Juan 3	2-9 #19	E/Ž 17-31-9	3,937	7-5-54
San Juan 3	32-9 #20	E/2.18-31-9	4,742	7-4-54
San Juan 3	32-9 #22	W/2 14-31-10	4,832	9-17-54
San Juan 3	<b>2-9 #23</b>	W/2 5-31-9	4,474	7-7-54
San Juan 3	32-9 #24	E/2 5-31-9	1,948	10-12-54

\*This well actually commenced in 1953, but completion delayed due to weather conditions.

Twenty-three wells have been drilled to the Mesaverde Formation upon lands committed to the Unit. Of these 23 wells 19 have been determined to be capable of producing unitized substances in paying quantities

and have been admitted to the Mesaverde participating area. All 19 wells in the present participating area are producing into El Paso's gathering system.

El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a drilling program for the calendar year 1955, consisting of twelve (12) wells to be drilled to the Mesaverde Formation: such drilling program to constitute all of our drilling obligations for such year. These proposed drilling sites are listed below as follows:

- (1) W/2 Section 23 32N 10W
- (2) W/2 Section 26 32N 10W
- (3) W/2 Section 35 32N 10W
- (4) E/2 Section 36 32N 10W
- (5) W/2 Section 36 32N 10W
- (6) W/2 Section 1 31N 10W (7) E/2 Section 2 31N 10W
- (8) W/2 Section 11 31N 10W
- (9) W/2 Section 13 31N 10W
- (10) W/2 Section 33 32N 9W
- (11) W/2 Section 6 31N 9W
- (12) E/2 Section 10 31N 9W

El Paso Natural Gas Company, as Unit Operator, intends to drill all wells to the base of the Mesaverde Formation, using rotary tools. Surface casing of 9 5/8" diameter will be set to approximately 180' and then a production string of 7" casing will be set down to the top of the Mesaverde Formation. The entire Mesaverde Formation will be drilled in with gas. The Cliff House and Point Lookout sands of the Mesaverde Formation will be separately treated with a sand-oil fracturing process. Due care will be taken to protect all horizons.

All of the working interest owners have been contacted and this drilling program reflects, insofar as possible, their requests for additional drilling.

If this drilling program is acceptable, please signify your approval of this drilling program as required under Section 10 of the Unit Agreement in the space provided below, and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Manager

Lease Department

APPROVED	) <b>:</b>	Date:
	Supervisor, United States Geological Survey	
	Subject to like approval by the appropriate	State officials.
APPROVED:	Commissioner of Public Lands	Date:
	Subject to like approval by the U.S.G.S. and	Oil Conservation Commission.
APPROVED:	/s/ wom	Date: 2/9/55
	Oil Conservation Commission	

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark Three States Natural Gas Company Corrigan Tower Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams
The Atlantic Refining Co.
P. O. Box 2819
Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Bldg.
Albuquerque, New Mexico

Mr. Forrest Daniel
Pubco Development, Inc.
Box 1360
Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Ave. El Paso, Texas Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas

# El Paso Natural Gas Company MANI CEFICE CORPENTH FLOOR BASSETT TOWER

1 7 1/ 2 M 9:40 El Paso, Texas

October 28, 1954

Commissioner of Public Lands of the State of New Maxico State Land Office Capitol Annex Building Santa Fe, New Mexico LAND

Oil Conservation Commission of the State of New Mexico State Land Office Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit #14-08-001-569

#### Gentlemen:

Attached hereto is one (1) copy of Ratification and Joinder of Unit Agreement executed by Louvilla Sheets committing her interest in Tract 27 to the above captioned Unit.

We ask that you process this Ratification in the usual manner in order to effectively commit this interest to the Unit.

Very truly yours,

T. W. Bittick Area Landman Lease Department

TWB/DBM/mas Enclosure



#### RATIFICATION AND JOINDER OF UNIT AGREEMENT,

196**√** 1960

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 32 - 9 Unit
Area located within the County of San Juan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.
mmer staned eviscinal miner anen tegaes of acher contraces.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
1010 N Dustin	Sommethe Sheetz
Formington NM ex.	
Formington NM ex.  Date: April 1 - 54	
Date:	
APPROVED AND CONSISTED TO:	
By RESOLUTION OF COMPANY	APPROVED AND COMMENTED TO:
Vice President WORKING INTEREST OWNER	By WCommit sel

WORKING INTEREST OWNER

Tro T #27

STATE OF	)	
COUNTY OF	) SS.: )	
On this	day of	, 195, before me appeared
by me duly sworn, did	say that he is the_	, to me personally known, who, beingPresident of
and sealed in behalf	of said corporation of said corporation	that the seal affixed to said instrument, and that said instrument was signed by authority of its board of directors,  acknowledged said instrument to be
the free act and deed	of said corporation	•
IN WITNESS We seal the day and year		unto set my hand and affixed my official first above written.
My Commission expires	<b>B</b>	
	•	
		Notary Public in and for
		State ofCounty,
STATE OF	)	
COUNTY OF	) SS.:	
	•	
On this	day of	, 195, before me appeared
	and	
		escribed in and who executed the fore- they executed the same as their free act
My Commission expires:	:	
•		
	•	
		Notary Public in and for County,
		State of
STATE OF NEW MEXICO		
COUNTY OF SAN JUAN	) SS.: )	
On this <u>14</u>	th day of Augu	st , 195 4 , before me personally
the person described i	in and who executed :	, a single person, to me known to be the foregoing instrument, and acknowledged e as her free act and deed.
My Commission expires	<b>;</b>	
March 31, 1957	•	Kelma Clayton
		Notary Public in and for San Juan State of New Mexico

El Paso Natural Gas Company La Co

El Paso, Texas

December 21, 1954

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit San Juan County, New Mexico

1110 110

#### Gentlemen:

Attached hereto is one (1) copy of Ratification and Joinder to the captioned Unit, executed by H. K. and Dena Riddle, committing their overriding royalty interest in Tracts 4 and 6.

We call to your attention that the overriding royalty interest owned by the Riddles are not now shown in Exhibit "B" to the Unit Agreement. Such interest, however, will be included in a revised Exhibit "B" sometime in the near future. As a matter of information the Riddles own a seven and one-half  $(7\frac{1}{2})$  per cent overriding royalty under Tract 4 which is in addition to the five per cent (5%) override shown in said Exhibit "B" to be owned by Alyce Erickson, et al. As to Tract 6, the Riddles own a five per cent (5%) override which reduces to two per cent (2%) on gas when production is below 500 MCFPD. As a matter of additional information, Tract 6 is also burdened by a five per cent (5%) override which is owned by Helen P. Prichard and a 2.5% override owned by Richard M. Godfrey which are in addition to the one per cent (1%) shown in the Exhibit to be owned by Robert Storey, Jr .

We respectfully ask that you process this Ratification and Joinder in the usual manner in order to effectively commit

TILL

such interests to this Unit.

Very truly yours,

T. W. Bittick Area Landman Lease Department

TWB/DM/mp

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the
Development and Operation of the San Juan 32-9 Unit
Area located within the County of San Inan State of
New Mexico in form approved on behalf of the Secretary of the Interior, the
undersigned owners of lands or leases, or interests therein or royalties
presently held or which may arise under existing option agreements, or other
interests in production covered by said Unit Agreement hereby severally, each
to the extent of his or her particular ownership or interest, as may appear,
consent to the inclusion of said lands within the Unit Area therein defined,
ratify, approve and adopt the terms of said Unit Agreement and any modifica-
tions thereof approved by the Secretary of the Interior or his duly authorized
representative as applicable to said several lands and interests, agree that
the term of any lease given by the undersigned or under which the undersigned
claims an interest herein is extended and modified to the extent necessary to
make the same conform to the terms of said Unit Agreement, agree that the drill-
ing, development and producing requirements of all leases and other contracts
in which their several rights and interests are created or defined shall be
deemed fully performed by performance of the provisions of said Unit Agreement,
and agree that payment for or delivery of (whichever may be required under
prior agreements) oil and gas duly made at contract rates applied to the pro-
duction allocated under said Unit Agreement to the particular lands to which
such rights or interests do or shall apply, regardless of actual production
therefrom, shall constitute full performance of all such obligations to the
undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

<u>ADDRESS</u>	SIGNATURE
P. O BOX 1055	A. B. Kindle
ALBUQUERQUE N.M.	M. K. Riddle
ALBUGUERQUE N.M.  Date: Sune 19,54	Dena Riddle
•	
Date:	

DELHI OIL CORPORATION

WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:

APPROVED AND CONSENTED TO:

EL FASS NATURAL GAS COMPANY

By Vice President

WORKING INTEREST OWNER

774 8446 NM-1101

STATE OF )	
COUNTY OF ) SS.:	
•	
On thisday of	, 195, before me appeared
by me duly sworn, did say that he is the	, to me personally known, who, being
and to is the corporate seal of said corporation, and sealed in behalf of said corporation behalf said the free act and deed of said corporation.	that the seal affixed to said instrument and that said instrument was signed by authority of its board of directors,
	unto set my hand and affixed my official
My Commission expires:	
	Notary Public in and for
	State of
STATE OF OREGON )	
COUNTY OF MALHEUR )	
,	
On this 19th day of June	, 1954, before me appeared
H. K. Riddle and	
his wife, to me known to be the persons de going instrument, and acknowledged to me tand deed.	scribed in and who executed the fore-
My Commission expires:	
March 11, 1958	Hunt a Johnson
	Notary Public in and for
	Malheur Gounty, State of Oregon.
STATE OF OREGON )	
COUNTY OF MALHEUR )	
·	, 1954 , before me personally
	, a single person, to me known to be
the person described in and who executed t	
to me that he executed the same	the foregoing instrument, and acknowledged
to me thathe executed the same My Commission expires:	the foregoing instrument, and acknowledged
to me that he executed the same	the foregoing instrument, and acknowledged
to me that he executed the same	the foregoing instrument, and acknowledged

El Paso Natural Gas Company OFFICE COO

TENTH FLOOR BASSETT TOWER

1198

El Paso, Texas

August 18, 1954

1034 AUG ( ) AU ( ) 334 MEGL

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: Sam Juan 32-9 Unit

San Juan County, New Mexico

#### Gentlemen:

Enclosed herewith please find the following Ratification and Joinders of Unit Agreement and Unit Operating Agreement committing various interests to the above captioned Unit:

- 1. One (1) copy of Ratification and Joinder of Unit Agreement executed by Gladys E. DeJarnette et vir, committing their basic royalty interest under Tract 68 to the above captioned Unit. This instrument has been filed with the United States Geological Survey and has been placed of record in the office of the County Recorder, San Juan County, New Mexico on July 31, 1954, in Volume 254, Page 90.
- 2. One (1) copy of Ratification and Joinder of Unit Agreement executed by Dan R. Ponder et ux, and John R. Brennand et ux, committing their basic royalty interest under Tract 68 to the above captioned Unit. This instrument has been filed with the United States Geological Survey and has been placed of record in the office of the County Recorder, San Juan County, New Mexico on July 31, 1954, in Volume 254, Page 89.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T. W. Bittick

Area Landman Lease Department

Enclosures

TWB/ROB/mas

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark Three States Natural Gas Company Corrigan Tower Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Bldg.
Albuquerque, New Mexico

Mr. Forrest Daniel Pubco Development, Inc. Box 1360 Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Ave. El Paso, Texas Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

Add to

كالمكتاب أأراها والأ

In consideration of the execution of the Unit Agreement for within the County of Rio Artha, State of New Mexico, in form approved Unit Area located on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS	SIGNATURE  SIGNATURE  SIGNATURE  OLA & p. De Jamette
Date: aug 3, 1913	
	Liland R. Sefarutt
Date: 0 3-1953	Leland R. DeJarnette
Approved and accepted by: Stanolind Oil and Gas Company Working Interest Owner  ApproveD Tr	rnet 68

STATE OF	
COUNTY OF ) SS.:	
On this day of appeared being by me duly sworn, did say that and instrument is the corporate seal of sinstrument was signed and sealed in lauthority of its board of directors, acknowledged said instrument to be the corporation.	said corporation, and that said behalf of said corporation by and said
IN WITNESS WHEREOF, I have my official seal the day and year in	hereunto set my hand and affixed this certificate first above written.
My Commission expires:	
	Notary Public in and forCounty,
STATE OF Calif ) SS.: COUNTY OF Los Angeles)	
On this 3rd day of Au	gust , 1953, before me
appeared Leland R De Jarnette his wife, to me known to be the perso the foregoing instrument, and acknow as their free act and deed.  My Commission expires:	ons described in and who executed
	Notary Public in and Ter Los Angeles County, State of California
STATE OF ) COUNTY OF )	
On thisday of	, 195, before
me personally appeared person, to me known to be the person foregoing instrument, and acknowledge the same as free act and described free	ed to me thathe executed
My Commission expires:	
	Notary Public in and forCounty,

State of \_

#### RATIFICATION AND JOINDER OF UNIT AGREEMENT

U. S. C.

Stangy

LOWER P. T. N. MINGO

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan \_\_\_\_\_ Unit Area located within the County of his Artis, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

### **ADDRESS** 2730 Ricksond St., til Pasa, Tessas 2730 McHard St., Il Pass, Teres Winnifred K. Pooder -1706. Centa Fe. Lois E. Breinand <u> Lugust 13, 1953</u> Approved and accepted by:

**APPROVED** 

Production

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Stanolind Oil and Gas Company

Vice-President

Working Interest Owner

A CONTRACTOR OF THE STATE OF TH

El Paso Metingal Company TENTA FLOOR BASSETT TOWER

El Paso, Texas

September 2, 1954

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit No. 14-08-001-569 San Juan County, New Mexico Eighth Expanded Participating Area Mesaverde Formation

Effective August 1, 1954

#### Gentlemen:

Please refer to our letter of August 11, 1954, relative to the Eighth Expanded Participating Area of the above captioned Unit. We call to your attention that the well location for the San Juan 32-9 Unit Wells #9, #22 and #24, were incorrectly shown and such locations are restated as follows:

- San Juan 32-9 Unit #9 Well is located 990' from the South line and 1650° from the West line of Section 25, Township 32 North, Range 10 West, San Juan County, New Mexico.
- 2. San Juan 32-9 Unit #22 Well is located 1650' from the South line and 990° from the West line of Section 14, Township 31 North, Range 10 West, San Juan County, New Mexico.
- 3. San Juan 32-9 Unit #24 Well is located 900' from the North line and 990° from the East line of Section 5, Township 31 North, Range 9 West, San Juan County, New Mexico.

The drilling blocks were correctly set out for each well. We ask that each of you correct your records in this respect, and we sincerely regret any inconvenience we may have caused you in this matter.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Area Landman Lease Department

TWB/DBM/mas cc: Attached List

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark Three States Natural Gas Company Corrigan Tower Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Bldg.
Albuquerque, New Mexico

Mr. Forrest Daniel Pubco Development, Inc. Box 1360 Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Ave. El Paso, Texas Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas El Pasa Natural Gas Company

TENTH FLOOR BASSETT TOWER

1834 AUG 163 All 1900 4 Jexas

August 12, 1954

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit No. 14-08-001-569 San Juan County, N. M.

#### Gentlemen:

This letter is in reference to the protest of Phillips Petroleum Company dated August 6, 1954, to our determination of July 26, 1954, that the San Juan 32-9 #8 and #11 wells were not capable of producing unitized substances in paying quantities.

Phillips Petroleum Company seems to be objecting to the method of testing these two wells. The test data on these two wells is shown by the attached gas well test forms of El Paso Natural Gas Company covering the tests of the San Juan 32-9 #8 and #11 wells.

The tests on these two wells and all other wells in the San Juan 32-9 Unit were taken in accordance with a testing procedure developed by an engineering committee representing the San Juan Basin operators committee. This testing procedure was approved by the Oil Conservation Commission of the State of New Mexico as the testing procedure to be used in testing gas wells in the San Juan Basin. It might here be noted that Phillips Petroleum Company was present and took an active part in the formulation of this testing procedure and in the hearings before the New Mexico Oil Conservation Commission which resulted in their adoption by the Oil Conservation Commission. Furthermore, and inasmuch as the San Juan 32-9 #11 well is located on a lease owned by Phillips Petroleum Company, Phillips' own engineer conducted the test taken upon

Director, U.S.G.S. Commissioner of Public Lands Oil Conservation Commission Page 2 August 12, 1954 Re: 32-9 Unit

the San Juan 32-9 #11 well upon which our determination as Unit Operator was based. One of our gas engineers was present to witness this test, and a gas engineer of El Paso Natural Gas Company conducted the test upon the San Juan 32-9 #8 well. We believe that both tests were conducted in accordance with the prescribed method of testing wells in the San Juan Basin.

According to our information, Phillips Petroleum Company has, on two different occasions since the official test of the San Juan 32-9 #ll well, retested this well in an attempt to increase the potential. We have not been furnished with the results of these tests, so must assume that the initial potential was not increased any appreciable extent. We object to the term "realistic initial potential" as used by Phillips in their protest of August 6, 1954. We believe that the realistic potential was that arrived at on the test. We know of no case in the San Juan Basin where an extrapolated well potential such as Phillips sets forth in its protest of August 6, 1954, has ever been accepted by a regulatory body as being a true well potential.

Under the approved testing procedure, a minimum period of seven days is required between the time a well is shut in and the time a well is tested. Referring to the test data furnished herewith, you will notice that on Phillips' San Juan 32-9 #11 well 23 days elapsed between the time this well was shut in for test and the time the test was actually run. On El Paso Natural Gas Company's San Juan 32-9 #8 well, nine days elapsed between shut in date and test date. It is the policy of our gas engineers to test our wells as soon as possible after the required seven day shut in period.

For your further information, we are enclosing herewith a report prepared by our senior gas engineer in our San Juan Division, who personally conducted the test upon our San Juan 32-9 #8 well, and who also personally witnessed Phillips' own test upon their San Juan 32-9 #11 well. We respectfully request that it be given your consideration. We would be agreeable to a retest of these two wells, blowing them wide open through the casing, thereby reducing the back pressure against the sand face to a minimum. However, we do not believe that this will appreciably increase the

Director, U.S.G.S. Commissioner of Public Lands Oil Conservation Commission Page 3 August 12, 1954 Re: 32-9 Unit

potential of these small wells. We would be very happy to have your representative witness any such test.

We would again like to call your attention to the fact that the payout schedule submitted by El Paso Natural Gas Company and referred to by Phillips Petroleum Company in their protest of August 6, 1954, was considered by the working interest owners in the San Juan 32-9 Unit at our meeting on this matter, and submitted by us as a theoretical payout and the earliest payout possible under the most favorable conditions. This schedule was prepared to prevent any possible argument at our meeting over any item that might not be considered as a proper item in the payout schedule. It was based on the ideal situation of a gas well producing every day of the month every month of the year. This is an ideal situation, but far from the actual take from gas wells in the San Juan Basin, which is governed by the varying conditions of market demand. Actually, a pipeline company must have some flexibility in its gas supply to meet peak days of winter demand, and a correspondingly lower take on summer days. The gas wells must be turned on and off as required to meet varying conditions. Also, this schedule does not take into account the declining field pressure over an admitted 25-year payout period for the #11 well. We again state, for these obvious reasons, that it was not intended as our estimate of actual well payout and should not be so considered.

We are in agreement with you that what constitutes production of unitized substances in paying quantities should be settled on a unit basis, taking into account the factors that effect that unit, and that it should not be considered on a field-wide basis. The great majority of the working interest owners in the San Juan 32-9 Unit have upheld our determination that these two wells are not capable of producing unitized substances in paying quantities.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By: R. L. Hamblin, Manager

Lease Department

RLH:ms Encl:3

cc: All Working Interest Owners

San Juan 32-9 Unit

In reference to our telephone conversation yesterday concerning initial potential tests on San Juan 32-9 Unit No. 8, located in the  $NE_{\frac{1}{4}}^{\frac{1}{4}}$  Sec. 20, T32N, R9W and San Juan 32-9 Unit No. 11, located in the  $NE_{\frac{1}{4}}^{\frac{1}{4}}$  Sec. 14, T32N, R9W, San Juan County, New Mexico, I might at the outset note the original purpose and intent of the type of initial potential test as conducted in the San Juan Basin area. It is a method devised in lieu of the normal four point back pressure test, which is difficult, if not impossible, to conduct in this area, by which one well may be rated or compared against other wells in an area. It does not, except in a very general way, indicate the amount of gas that a well may be expected to produce into a pipeline system. The potential obtained by the test is used in order to complete the well records to the satisfaction of the United States Geological Survey and the New Mexico Oil Conservation Commission.

The method of conducting the initial potential test was examined by an engineering committee representing the San Juan Basin operators committee during the year 1953. It will be noted that Phillips Petroleum Company, as well as members of the New Mexico Oil Conservation Commission, were present and participated in the formulation of regulations pertaining to the initial potential type test.

The test decided upon was as follows: The well is to be shut-in after completion for a period of not less than seven days. The actual shut-in time shall be reported. Tubing and casing shut-in pressures shall be taken with a dead weight guage and recorded. A flow nipple shall be installed which is at least eight (8) diameters long. The gate valve is to be opened as far as possible and the well allowed to blow to the atmosphere for three hours. Impact pressure is to be taken with pitot tube and manometer or guage. Tables supplied by the Commission are to be entered and the potential is to be read. This method of testing has been carried out on all wells tested by this office, regardless of well ownership, in a fair and equitable manner. To my knowledge, there has not been any type of choke or back pressure regulating device used on any initial potential test conducted. All wells are blown through a test nipple to the atmosphere at an atmospheric pressure which I must assume to be relatively constant from one well in the unit to another.

As to the shut-in pressures taken at the time the initial potential test is conducted, I believe that the rapidity of shut-in pressure buildup in the Mesaverde formation, as well as the producing capacity of the well, is directly related to the permiability of the formation immediately adjacent to the well bore. That is to say: Wells in an area of low porosities and permiabilities will build up shut-in pressures slower and will be wells of lower capacity than will wells in an area of higher porosities and permiabilities, assuming that the wells are completed and stimulated in a like manner. We have noted that as a general rule that Mesaverde wells will attain approximately 80% of their maximum shut-in pressure in seventy-two hours; however, the remaining 20% may take from thirty to forty days to approach maximum. If the two wells in question did not attain the same relative percentage of maximum pressure reached by other wells in the unit after the minimum of seven day shut-in, it was because their capacities were lower than other wells in the unit.

If Phillips Petroleum insists that the initial potentials obtained on the two wells in question should be extrapolated to what they could have been had the shut-in pressures attained a maximum, then this same process could logically be applied to the balance of the wells in the unit which were tested before the maximum shut-in pressures were reached.

I have contacted representatives of the New Mexico Oil Conservation Commission and inquired whether or not such an extrapolation would be acceptable to the Commission. They have indicated that it would not. If this theoretical adjustment is not acceptable to the Commission, then I cannot see why it would be acceptable to other operators participating in the unit.

The potential test on the San Juan 32-9 Unit No. 8 was conducted by myself and one other El Paso Natural Engineer and I can vouch for the accuracy of the data obtained. The test on the San Juan 32-9 Unit No. 11 was conducted by a Phillips Engineer and witnessed by an El Paso Engineer. I have no reason to doubt the test he obtained was not accurate and fairly conducted.

L. D. Galloway

Senior Gas Engineer San Juan Division

cc: J. M. Stricklin

W. T. Hollis

H. P. Logan

File

#### EL PASO NATURAL GAS COMPANY GAS WELL LEST

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To Mr. J	. M. Stricklin	1)	ute. ]	December 30, 1953	1/10
From:	Gas Engineering	PI	lace	December 30, 1953  Farmington, New Mex	ico ( h
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		on El Paso Natural <sup>G</sup> as San Juan County, New			2-9,
	Tasted by:	L. D. Galloway & D.	C. Adar	ns	
	Location	5•c- 20	. T - 321	<b>1</b> - R - <b>9₩</b> -,	
	Shut-In Pressure	STPC	813 ps:	ig. (Shut-in 21 Dec.	, 1953)
	Open Flow			0 · 14.7 psid and 60 <sup>0</sup> F. for ough tubing for 3 hare casing - 311 psi	
	Producing Formation	MESAVER Shot with 1	L,935 44	arts from 56 <b>25°</b> to 629	551
	Field	WILDCAT			
	H <sub>2</sub> s	Sweet	to le	ad acetate.	
•					·
,. N	m 930				•
filer	cc: D. H. Tucker H. F. Steen R. W. Harris W. T. Hollis C. L. Moore G. O. Cragin J. A. Smith	C. F. Rittmann, Jr. B. D. Adams R. L. Hanblin C. C. Kennedy	•	L. D. Gallowa	, <u></u>

pr)

W. M. Radgers
Wayne Cheek
Dritting Department

Barrier Da Herrich

#### EL PASO NATURAL GAS COMEASA GAS WILL FISH

í	Mr.	.T	M.	Stri	cklin

Burney Commencer Control

From

Subject Test data on El Paso Natural Gas Company well, San Juan 3. 17. Unit No. 11, San Juan County, New Mexico.

Tosted by C. E. Powell

Location .... 990'N, 691'E. Shut-In Pressure..... SIPC 940 psig. (Shut-In Nov.15, 1953) . 648 , Mc  $^{-1}$  -14  $^{+}$  , as not 70  $^{0}$  F 40, 0.8 gravity gas, Flow through tubing for 3 hours. Working pressure casing - 137 psig. Mesaverde Shot with 1335 quarts from 5820' to 6280' Field . . . . . . . . . . . . . . . . . . Wildcat 

cc: D. H. Tucker

W. T. Hallis

C. L. Moore

G. O. Cragin

J. A. Smith

C. O. Walker

W. M. Rodgers

Wayne Cheek

C.F. Rittmann, Jr.

B.D. Adams

A.L. Hamblin Albuquerque Associated, First National Bank Building,

L. D. Galloway

Albuquerque, Nev Mexico

El Paso Natural Gas Company TENTH FLOOR BANGE OF Paso, Jexas TENTH FLOOR BASSETT TOWER

August 11, 1954

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit No. 14-08-001-569 San Juan County, New Mexico Eighth Expanded Participating Area Mesaverde Formation Effective August 1, 1954

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that three additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded.

#### These wells are as follows:

san Juan 32-9 Unit #9 well located 990' South of the lescription
North line and 1650' West of the East line of Section 25,
Township 32 North, Range 10 West, San Juan County, New
Mexico. This well was spudded on December 14, 1953, and reached a total depth of 5650'. The entire Mesaverde
section was treated with a sand-oil fracture.

The well was tested through at and after a a and after a three hour blow-down gauged an IP of 4832 MCFGPD with an SIPC of 981# and an SIPT of 909#. El Paso Natural Gas Company, as Working Interest Owner, plans to make repairs on a stuck tubing disk and test through the tubing at a later date. The committed drilling block upon which this well is located is described as the W/2 of Section 25, Township 32 North, Range 10 West, N.M.P.M. and consists of 320 acres. The determination that this

well was capable of producing unitized substances in paying quantities was made on July 21, 1954.

- 2. San Juan 32-9 Unit #22 well located 1650' South of the North line and 990' West of the East line of Section 14, Township 31 North, Range 10 West, San Juan County, New Mexico. This well was spudded on December 10, 1953, and reached a total depth of 5433'. The pay sections between 4730' and 4920', and between 5140' and 5433' were treated with a sand-oil fracturing process. The well was tested on July 26, 1954, and after a three hour blow-down gauged an IP of 4832 MCFGPD with an SIPC of 1062# and an SIPT of 1058#. The committed drilling block upon which this well is located is described as the W/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M. and consists of 320 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on July 26, 1954.
- 3. San Juan 32-9 Unit #24 well located 900' North of the South line and 990' East of the West line of Section 5, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on June 2, 1954, and reached a total depth of 5945'. The pay sections between 5400' and 5540', and between 5790' and 5945' were treated with a sand-oil fracturing process. The well was tested on July 20, 1954, and after a three hour blow-down gauged an IP of 1948 MCFGPD with an SIPC of 964# and an SIPT of 971#. The committed drilling block upon which this well is located is described as the E/2 of Section 5, Township 31 North, Range 9 West, N.M.P.M. and consists of 320.80 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on July 20, 1954.

Attached is Schedule IX showing the Eighth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefor and, in the absence of disapproval, this Expanded Participating Area will become effective as of August 1, 1954.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin

Manager

Lease Department

RLH/ROB/mas cc: Attached List

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark Three States Natural Gas Company Corrigan Tower Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Bldg.
Albuquerque, New Mexico

Mr. Forrest Daniel Pubco Development, Inc. Box 1360 Albuquerque, New Mexico

Mr. John S. Brown 2000 Myrtle Ave. El Paso, Texas Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Phillips Drilling Corporation 306 Milam Building San Antonio, Texas

#### PHILLIPS PETROLEUM COMPANY

10th Floor West Wing Phillips Building BARTLESVILLE, OKLAHOMA

August 6, 1954

Re: San Juan 32-9 Federal Unit #14-08-001-569

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capital Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capital Annex Building Santa Fe, New Mexico

#### Gentlemen:

Phillips Petroleum Company hereby protests the second determination made as of July 26, 1954, by El Paso Natural Gas Company, as unit operator, that Wells No. 8 and No. 11 of Unit 32-9 are not capable of producing unitized substances in paying quantities and that the drilling blocks upon which said wells are located will not be admitted into the participating area. Our protest is based upon the information hereinafter set forth:

Apparently the criterion for El Paso's determination that each of the two wells is noncommercial is the "initial potential" of the well, i.e., the rate at which the gas flowed from the well after it had been opened to the atmosphere for a period of three hours. Neither of the wells was permitted to be closed in for a period of time of sufficient duration to allow the shut-in pressure to become stabilized or equal to the static shut-in pressure of the reservoir underlying the unit. Furthermore, the observed rate of flow was not adjusted to compensate for the variance created by testing each well before the shut-in pressure had become stable. Another significant variance was made by the direct application of the observed test rate of open flow without the proper adjustment being made for the fact that the well was actually flowing against a back pressure that was greater than the atmospheric pressure. Under such conditions the well was not being tested at true open flow.

We feel that it is improper to use the observed test rate of open flow, without the basic adjustment discussed above, for the purpose of determining the commercial status of a gas well. This can be clearly illustrated by calling your attention to the fact that widely varying test open-flow rates can be gauged at the same well if the well is tested several times, each test flow started with a shut-in pressure of a different magnitude and/or produced against a different back pressure. It is readily conceivable that the same well may be considered as being commercial as a result of being tested under favorable conditions and as being noncommercial if tested under unfavorable conditions if the test results have not first been properly adjusted.

The observed test open-flow gauge on the No. 8 Well was 1,260 Mcfd and such well was determined by El Paso to be noncommercial. The test was started at a time the shut-in pressure at the wellhead was but 813 psig. As the back pressure of the test was not made available to us, we assumed that it was equal to the atmospheric pressure. We adjusted the open-flow gauge to the value it would have been had the test not been started until the shut-in pressure at the wellhead became stabilized, or 1,160 psig. The result is that the more realistic initial potential of 2,133 Mcfd was determined. We have made an economic evaluation of this well using El Paso's estimated drilling cost of \$85,000 per well and an average gas price of 13,39¢ per Mcf which is a somewhat lower price than that used in El Paso's figures. After deducting drilling costs, operating costs, state and local taxes, and federal income tax, this well will yield an estimated net profit of \$89,400. The commerciality of this well is evidenced by a payout of the drilling cost in an estimated 6.3 years. The well will earn an annual average rate of return of 13% over a 25-year period. It is our opinion, in which we feel sure you will concur, that such rate of return proves beyond a reasonable doubt that this well will produce unitized substances in commercial quantities. Therefore, the drilling block upon which this well is located should be admitted to the participating area.

As to Well No. 11, we adjusted the observed test rate of flow of 648 Mcfd to compensate for the fact that the shut-in pressure at the beginning of the test was less than the stabilized shut-in pressure and for the fact that the open flow was conducted against a back pressure greater than the atmospheric pressure. The realistic initial potential of 902 Mcfd was obtained. An economic evaluation based upon the same general premises used for the study of Well No. 8 reveals a net profit over and above drilling costs, operating costs, and all taxes, of approximately \$4,900. Estimated time required to pay out the well cost is 19.5 years. Average annual rate of return over a 25-year period will be approximately 1%. Since this well will earn a profit over a 25-year period, we feel that it is a commercial producer in accordance with the intent of the Unit Agreement. Therefore, the drilling block upon which this well is located should be admitted to the participating area.

We wish also to call your attention to our letter of July 8, 1954, protesting the original determination of El Paso that Wells No. 8 and No. 11 were not capable of producing unitized substances in commercial quantities. In that letter we pointed out that many wells with potential tests ranging from 400 Mcf to 1,000 Mcf per day had been admitted to the participating areas of other San Juan Units where drilling and production costs are approximately the same as those in the 32-9 Unit. It is our opinion that the inclusion of such wells constitutes a general interpretation of the intent of this type of Unit Agreement, and that to set a participating area admittance standard above that of minimum commerciality will work a gross injustice

August 6, 1954 Re: San Juan 32-9 Federal Unit #14-08-001-569

against the owners of the less profitable acreage within a unit. Since both wells are shown to be commercial in the sense that they will repay drilling and operating costs plus a profit, it is our further opinion that failure to admit Wells No. 8 and No. 11 will be contrary to the basic principles of the Unit Agreement.

We, therefore, respectfully request that the determination by El Paso Natural Gas Company, the unit operator of the San Juan Unit 32-9, that 32-9 Unit Wells No. 8 and No. 11 are not capable of producing unitized substances in paying quantities be disapproved and that the unit operator be directed to make a determination that both of these wells are capable of producing unitized substances in paying quantities within the contemplation of the terms of the Unit Agreement.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

R. N. RICHEY - San Juan Division

LHC: RNR: th

cc: Attached List

CLASS CHARLES

This is a full-rate
Telegram or Cablegram unless its deferred character is facdicated by a suitablesymbol above or precading the address.

## WESTERN: UNION

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SYMBOLS

DL=Day Letter

NL=Night Letter

LT=Int'l Letter Telegran

'LT=Int'l Victory Ltr.

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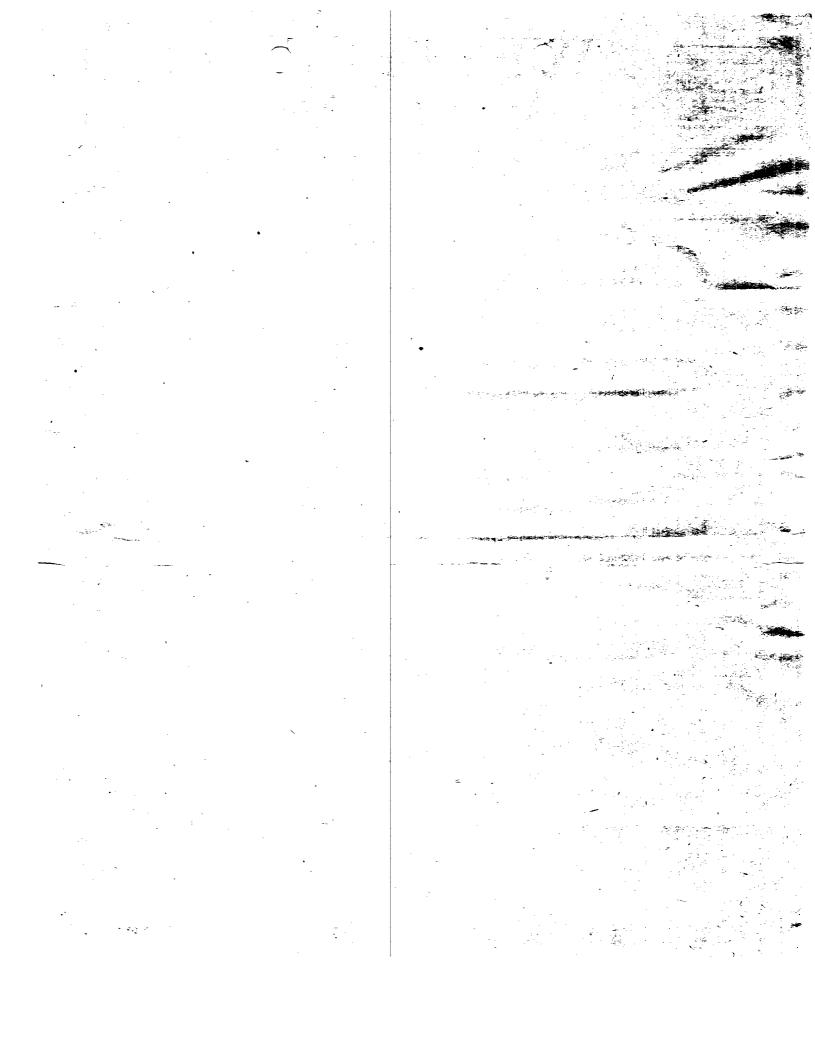
RE 32-9 FEDERAL UNIT #14-08-001-569, SAN JUAN COUNTY, NEW MEXICO. UNDER DATE OF JULY 26, 1954, EL PASO NATURAL GAS COMPANY AS UNIT OPERATOR GAVE NOTICE OF ITS REDETERMINUTION THAT SAN JUAN 32-9 UNIT WELL #8, SECTION 20-T32N-R9W AND WELL #11. SECTION 14-T32N-R9W WERE INCAPABLE OF PRODUCING UNITIZED SUBSTANCES IN PAYING QUANTITIES FROM THE MESAVERDE FORMATION. PHILLIPS PETROLEUM COMPANY AS AN INTERESTED PARTY HEREBY PROTESTS SUCH REDETERMINATION AS TO THESE TWO WELLS AND REQUESTS THAT THE SATD REDETERMINATION BE DISAPPROVED AND THAT EL PASO BE DIRECTED TO MAKE A NEW DETERMINATION TO THE EFFECT THAT THESE TWO WELLSSARE CAPABLE OF SPRODUCING UNITIZED SUBSTANCES IN PAYING QUANTITIES, LETTER FOLLOWS=

PHTLLTPS PET CO R N RICHEY SAN JUAN DIVISION

Jan

OFFICE OCC

32=9 #14=08=001-569 26 1954 32=9 #8 20-T32N-R9W #11 14-T32N-R9W



475

## El Paso Matural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

July 26, 1954

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit No. 14-08-001-569

> > San Juan County, New Mexico

Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, No.14-08-001-569 approved June 26, 1953, El Paso Natural Gas Company hereby determines that the following wells are not capable of producing unitized substances in paying quantities from the Mesaverde formation. These wells are as follows:

San Juan 32-9 Unit #8 Well, located 923' South of the North line and 986' West of the East line of Section 20, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on Nov. 10, 1953, and reached a total depth of 6255'. The pay section between 5625' and 6255' was shot with 1935 quarts of nitroglycerin. The well was tested on December 30, 1953, and after a three hour blow-down gauged an IP of 1260 MCFGPD with an SIPC of 813# and an SIPT of 820#. The drilling block upon which this well is located is described as the E/2 of Section 20, Township 32 North, Range 9 West, N.M.P.M., and consists of 320 acres. determination that this well was not capable of producing unitized substances in paying quantities was made on December 30, 1953.

Director, U.S.G.S. Commissioner Public Lands Oil Conservation Commission July 26, 1954 Re: 32-9 Unit No.14-08-001-569

(2) San Juan 32-9 Unit #11 Well, located 990' South of the North line and 861' West of the East line of Section 14, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on October 16, 1953, and reached a total depth of 6280'. The pay section between 5820' and 6280' was shot with 1335 quarts of nitroglycerin. The well was tested on December 8, 1953, and after a three hour blow-down gauged an IP of 648 MCFGPD with an SIPC of 940# and an SIPT of 932#. drilling block upon which this well is located is described as the E/2 of Section 14, Township 32 North, Range 9 West, N.M.P.M., and consists of 320 acres. The determination that this well was not capable of producing unitized substances in paying quantities was made on December 8, 1953.

El Paso Natural Gas Company made an identical determination on June 16, 1954. Phillips Petroleum Company protested this determination on July 8, 1954. To properly consider this protest and the matter involved, El Paso Natural Gas Company called a meeting of all Working Interest Owners in El Paso on July 13, 1954. At this meeting 62.9741% of the working interest in this Unit voted to sustain the determination of Unit Operator, while 31.8461% of the working interest voted to disapprove of the determination of the Unit Operator, and 5.1798% were not present to vote. Numerically speaking, every Working Interest Owner present at the meeting, with the exception of Phillips Petroleum Company, voted or was in favor of the determination made by the Unit Operator. El Paso Natural Gas Company presented sample payout figures to substantiate its determination, and stated that its actual production figures in the San Juan Basin at the present time definitely indicated that the actual well payout in the San Juan Basin would be considerably longer than the sample payout schedule presented.

Phillips Petroleum Company offered no evidence to support its objections, except to show that determinations had heretofore been made by Unit Operators in other Units in the San Juan Basin that Mesaverde wells with lower potentials than these were determined commercial, and that the determinations had been upheld. El Paso Natural Gas Company does not feel that a precedence has been set in the past in other Units in other areas that should bind us in this Unit at this time, nor necessarily in those other Units as to future determinations that might be made under changed conditions or with additional information on the matters involved.

Director, U.S.G.S. Commissioner Public Lands Oil Conservation Commission July 26, 1954 Re: 32-9 Unit No.14-08-001-569

The Director of the United States Geological Survey, by a letter of July 20, 1954, (a copy of which is attached) has disapproved our determination of June 16, 1954 as to wells #8 and #11 for the reasons stated therein. It is our interpretation and hope that this decision was made solely to prevent our determination of June 16, 1954, from becoming final and keeping the matter open until the results of our meeting and the expression of opinions of the Working Interest Owners were available so they might be properly considered.

In view of the reaction of the Working Interest Owners as expressed at the meeting of July 13, 1954, and in accordance with the decision of the majority of the Working Interest Owners, we feel that we should and do hereby determine that the San Juan 32-9 #8 and #11 wells are not capable of producing unitized substances in paying quantities in accordance with the terms of the Unit Agreement, and that they should not be admitted to the present Mesaverde participating area which contains 16 wells with an average initial potential of 4,072 MCF.

Yours very truly,

EL PASO NATURAL GAS COMPANY

y: A Hamblin Manage

Lease Department

RLH:ms Encl:2

cc: All Working Interest Owners

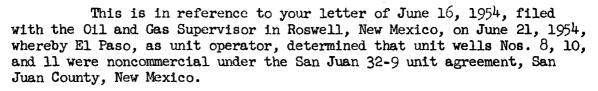


# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY WASHINGTON 25, D. C.

Air Mail

El Paso Natural Gas Company Tenth Floor Bassett Tower El Paso, Texas

Gentlemen:



The determination was based on a three-hour blow down test on each well, which indicated an initial production from the Mesaverde formation of 1,260,000 cubic feet of gas daily from well No. 8, 145,000 cubic feet of gas daily from well No. 10, and 648,000 cubic feet of gas daily from well No. 11.

In view of a protest from Phillips Petroleum Company and a lack of detailed information, we are of the opinion that there are too many variable factors to enable us to justify approving your determination as to wells Nos. 8 and 11 at this time. Accordingly, the determination of June 16, 1954, as to wells Nos. 8 and 11 is hereby disapproved.

Lately, a number of protests have been filed in various San Juan unit well determinations. In order to minimize such occurrences in the future, it is suggested that the operators and other interested parties in the San Juan Basin meet and agree on a standard for well commerciability, preferably on a unit by unit basis. It is believed that all operators realize the tremendous complexities and intangibles involved in evolving such a standard for this area, but even so, an earnest, thorough, and objective approach can result in a feasible solution, even though a commercial well standard is not provided for in the unit agreement.

Very truly yours,

Attens AlBaker

Acting Director

## ESTIMATED WELL PAYOUT SAN JUAN BASIN

Well Potential MCF/D	500	1,000	1,500	2,000
25% of Potential on an 80% Loan Factor MCF/D	100	200	300	400
Annual Gross Revenue © Average of 13½¢ /MCF	\$4,928	\$9,855	\$14,783	\$19,710
Estimated Net - 75% of Gross	\$3,696	\$7,391	\$11,087	\$14,783
Estimated Well and Lease Cost	\$85,000	\$85,000	\$85,000	\$85,000
Years to Payout	23	11-1/2	7-2/3	5-3/4

498

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

July 19, 1954

Charles

To: All Working Interest Owners

San Juan 32-9 Unit

On July 13, 1954, El Paso Natural Gas Company as Unit Operator called a meeting of the working interest owners in the above unit. This meeting was called to give the working interest owners a chance to express themselves and to object to or approve of the determination by El Paso Natural Gas Company that the following wells were not commercial and would not be included in the Mesaverde Participating Area:

San Juan 32-9 #8 --- IPF 1,260 MCF San Juan 32-9 #10 --- IPF 145 MCF San Juan 32-9 #11 --- IPF 648 MCF

The average of the wells in the present Mesaverde Participating Area of the 32-9 Unit is 4,072 MCF. The San Juan 32-9 #2 well, with an IPF of 600 MCF, has previously been declared non-commercial with no objections. There are 30,987.82 acres committed to this unit and 3,666.60 acres not committed.

The working interest owners and the percentage of their interest in the unit is listed below, including how each working interest owner present voted on the above question:

Name	Percentage	Present at Meeting	Voted to Sustain El Paso's Deter- mination
El Paso Natural Gas Company	55.7939%	Yes	Yes
Phillips Petroleum Co.	31.8461%	Yes	No
Phillips Drilling Corporation	1.0326%	No	
McElyain, Miller and Brown	2.4693%	Yes - (ne	ot present for vote)
Southern Union Gas Company	4.5953%	Yes	Yes
Tom Bolack	. 2582%	No	
Albuquerque Associated Oil Co.	2.4559%	Yes	Yes
Pubco Development, Inc.	. 1290%	Yes	Yes
James Palmer	. 1290%	No	
The Texas Company	. 3872%	No	
Standard Oil of Texas	. 9035%	No	

Respectfully submitted, EL PASO NATURAL GAS COMPANY

R. L. Hamblin, Manager

Lease Department

RLH:ms

### MINUTES OF MEETING OF WORKING INTEREST OWNERS IN THE 32-9 AND 28-5 UNITS

The meeting was called to order at 10:00 A.M. July 13, 1954, in the Embassy Room of the Hilton Hotel in El Paso, Texas, by Mr. R. L. Hamblin, spokesman for El Paso Natural Gas Company, Unit Operator of the subject units.

#### Those attending were:

أنجه سندم

R. L. Hamblin Samuel Smith W. B. Warren T. W. Bittick Chas. S. Deason W. T. Hollis Wm. P. Barnes Raymond F. Miller Joe Gordon Neal Neece Three States Natural Gas Co. and Albuquerque Associated Three States Natural Gas Co. and Albuquerque Associated Three States Natural Gas Co. and Albuquerque Associated Three States Natural Gas Co. Dallas, Texas Albuquerque, N. M. Dallas, Texas Albuquerque, N. M. Dallas, Texas Albuquerque, N. M. Midland, Texas Albuquerque, N. M. Midland, Texas " " R. N. Richey Phillips Petroleum Company Loyd Cossey B. T. Scott P. T. McGrath John Anderson R. E. Canfield Aaron L. Colvin F. M. Jacobson Foster Morrell A. M. Wiederkehr Dusty Rhodes R. L. Hansen J. K. Smith F. G. Daniell M. A. Romero John S. Brown  El Paso, Texas " " " " " " " " " " " " " " " " " " "	Name	Company	City	
W. B. Warren T. W. Bittick """"""""""""""""""""""""""""""""""""			El Paso, Texas	
T. W. Bittick " " " " " " " " " " " " " " " " " " "			<b>!</b>	
Chas. S. Deason  W. T. Hollis  Wm. P. Barnes Raymond F. Willer Joe Gordon  Neal Neece  Resease Resease Resease Resease Resease Resease Resease Resease Raymond F. Willer Resease Ratesia, N. M. Resease Resease Resease Resease Ratesia, N. M. Resease Res	W. B. Warren	17 17 11	11 11	
W. T. Hollis Wm. P. Barnes Raymond F. Miller Joe Gordon Three States Natural Gas Co. Neal Neece Three States Natural Gas Co. Threas Threas Threas Three States Three T		11 11 11 11	11 11	
Wm. P. Barnes Raymond F. Miller Joe Gordon Three States Natural Gas Co. Neal Neece Three States Natural Gas Co. Three States Natural	Chas. S. Deason	11 11 11 11	**	
Raymond F. Miller Joe Gordon Three States Natural Gas Co. and Albuquerque Associated Neece Three States Natural Gas Co. Three States Natural Gas Co. Dallas, Texas Albuquerque, N. M.  E. T. Cotham Atlantic Refining Company R. E. Howard R. N. Richey Phillips Petroleum Company Bartlesville, Okla.  Loyd Cossey """""""""""""""""""""""""""""""""""	W. T. Hollis	91 11 p1 p1	Farmington, N. M.	
Three States Natural Gas Co.  and Albuquerque Associated  Three States Natural Gas Co.  and Albuquerque Associated  Three States Natural Gas Co.  and Albuquerque Associated  Albuquerque, N. M.  E. T. Cotham  R. E. Howard  R. N. Richey  Phillips Petroleum Company  Bartlesville, Okla.  """"  """"  """"  """"  P. T. McGrath  John Anderson  R. E. Canfield  Aaron L. Colvin  Foster Morrell  A. M. Wiederkehr  Dusty Rhodes  R. L. Hansen  J. K. Smith  F. G. Daniell  Mrs. Romero  Three States Natural Gas Co.  and Albuquerque, N. M.  Albuquerque, N. M.  Midland, Texas  """"  """  """"  """"  """"  """"  Rartlesville, Okla.  """"  """  """  """  """  """  """	Wm. P. Barnes	General American Oil Co.	Dallas, Texas	
Albuquerque, N. M.  Neal Neece Three States Natural Gas Co. and Albuquerque Associated Albuquerque, N. M.  E. T. Cotham R. E. Howard R. N. Richey Phillips Petroleum Company Bartlesville, Okla. Loyd Cossey B. T. Scott P. T. McGrath John Anderson R. E. Canfield Aaron L. Colvin F. M. Jacobson F. M. Jacobson F. M. Jacobson Lucerne Corporation F. M. Wiederkehr Dusty Rhodes R. L. Hansen J. K. Smith F. G. Daniell M. A. Romero and Mrs. Romero  Albuquerque, N. M. Dallas, Texas Albuquerque, N. M. Richey Phillips Petroleum Company " " " " " " " " " " " " " " " " " " "	Raymond F. Miller	11 11 11	Artesia, N. M.	
Neal Neece Three States Natural Gas Co. and Albuquerque Associated Atlantic Refining Company R. E. Howard R. N. Richey Loyd Cossey B. T. Scott P. T. McGrath John Anderson R. E. Canfield Aaron L. Colvin F. M. Jacobson F. M. Jacobson Foster Morrell A. M. Wiederkehr Dusty Rhodes R. L. Hansen J. K. Smith F. G. Daniell M. A. Romero Mrs. Romero  Three States Natural Gas Co. and Albuquerque, N. M. Albuquerque, N. M. Atlantic Refining Company Midland, Texas Albuquerque, N. M. " " " " " " " " " " " " " " " " " " "	Joe Gordon	Three States Natural Gas Co.	Dallas, Texas	
and Albuquerque Associated  E. T. Cotham  R. E. Howard  R. N. Richey  Phillips Petroleum Company  Bartlesville, Okla.  """""""""""""""""""""""""""""""""""		and Albuquerque Associated	Albuquerque, N. M.	
E. T. Cotham R. E. Howard R. N. Richey Phillips Petroleum Company Bartlesville, Okla. Loyd Cossey B. T. Scott P. T. McGrath John Anderson R. E. Canfield Aaron L. Colvin Foster Morrell A. M. Wiederkehr Dusty Rhodes R. L. Hansen J. K. Smith F. G. Daniell Mrs. Romero Mrs. Romero  Atlantic Refining Company """"""""""""""""""""""""""""""""""""	Neal Neece	Three States Natural Gas Co.	Dallas, Texas	
R. E. Howard R. N. Richey Phillips Petroleum Company Bartlesville, Okla. Loyd Cossey """""""""""""""""""""""""""""""""""		and Albuquerque Associated	Albuquerque, N. M.	
R. E. Howard R. N. Richey Phillips Petroleum Company Bartlesville, Okla. Loyd Cossey """""""""""""""""""""""""""""""""""	E. T. Cotham	Atlantic Refining Company	Midland, Texas	
Loyd Cossey  B. T. Scott  """"""""""""""""""""""""""""""""""	R. E. Howard	f1	<b>†1</b>	
B. T. Scott  " " " " " " " " " " " " " " " " " "	R. N. Richey	Phillips Petroleum Company	Bartlesville, Okla.	
P. T. NcGrath  John Anderson  R. E. Canfield  Aaron L. Colvin  Foster Morrell  A. M. Wiederkehr  Dusty Rhodes  R. L. Hansen  J. K. Smith  F. G. Daniell  Mrs. Romero  United States Geological Survey  """"  """""""""""""""""""""""""""""	Loyd Cossey	\$1 \$1 \$E	<b>11</b>	
John Anderson  R. E. Canfield  """""""""""""""""""""""""""""""""""	B. T. Scott	f7	77 77	
John Anderson  R. E. Canfield  Aaron L. Colvin  F. M. Jacobson  Foster Morrell  A. M. Wiederkehr  Dusty Rhodes  R. L. Hansen  J. K. Smith  F. G. Daniell  Mrs. Romero  """  """  """  """  """  """  """	P. T. McGrath	United States Geological Survey	Farmington, N. M.	
R. E. Canfield """""" """  Aaron L. Colvin Delhi Oil Corporation Dallas, Texas  F. M. Jacobson Lucerne Corporation """  Foster Morrell Independent Roswell, N. M.  A. M. Wiederkehr Southern Union Gas Company Dallas, Texas  Dusty Rhodes New Mexico Oil Conserv. Comm. Santa Fe, N. M.  R. L. Hansen Stanolind Oil and Gas Co. Fort Worth, Texas  J. K. Smith """ """  F. G. Daniell Pubco Development, Inc. Albuquerque, N. M.  Mrs. Romero and Nrs. Romero Santa Fe, N. M.	John Anderson	<del>-</del>		
F. M. Jacobson  Foster Morrell  A. M. Wiederkehr  Dusty Rhodes  R. L. Hansen  J. K. Smith  F. G. Daniell  Mrs. Romero  Lucerne Corporation  Independent  Southern Union Gas Company  New Mexico Oil Conserv. Comm.  Santa Fe, N. M.  Fort Worth, Texas  """"  Albuquerque, N. M.  Santa Fe, N. M.  Santa Fe, N. M.	R. E. Canfield	TT		
F. M. Jacobson  Foster Morrell  A. M. Wiederkehr  Dusty Rhodes  R. L. Hansen  J. K. Smith  F. G. Daniell  Mrs. Romero  Lucerne Corporation  Independent  Southern Union Gas Company  New Mexico Oil Conserv. Comm.  Santa Fe, N. M.  Fort Worth, Texas  """"  Albuquerque, N. M.  Santa Fe, N. M.  Santa Fe, N. M.	Aaron L. Colvin	Delhi Oil Corporation	Dallas, Texas	
A. M. Wiederkehr  Dusty Rhodes  R. L. Hansen J. K. Smith F. G. Daniell Mrs. Romero  Southern Union Gas Company New Mexico Oil Conserv. Comm. Stanolind Oil and Gas Co. """"""""""""""""""""""""""""""""""""	F. M. Jacobson			
A. M. Wiederkehr  Dusty Rhodes  New Mexico Oil Conserv. Comm.  R. L. Hansen  J. K. Smith  F. G. Daniell  Pubco Development, Inc.  M. A. Romero and  Mrs. Romero  Southern Union Gas Company  New Mexico Oil Conserv. Comm.  Santa Fe, N. M.  Fort Worth, Texas  """"  Albuquerque, N. M.  Santa Fe, N. M.	Foster Morrell	Independent	Roswell, N. M.	
Dusty Rhodes  R. L. Hansen  J. K. Smith  F. G. Daniell  Mrs. Romero  New Mexico Oil Conserv. Comm.  Santa Fe, N. M.  Fort Worth, Texas  """"  Albuquerque, N. M.  Santa Fe, N. M.  Santa Fe, N. M.  Santa Fe, N. M.  Santa Fe, N. M.	A. M. Wiederkehr	Southern Union Gas Company	•	
R. L. Hansen Stanolind Oil and Gas Co. Fort Worth, Texas J. K. Smith " " " " " " " " " " " " " " " " " " "	Dusty Rhodes	New Mexico Oil Conserv. Comm.		
J. K. Smith " " " " " " " " " " " " " " " " " " "		Stanolind Oil and Gas Co.		
M. A. Romero and Mrs. Romero Santa Fe, N. M.	J. K. Smith	11 11 11 11		
M. A. Romero and Mrs. Romero Santa Fe, N. M.	F. G. Daniell	Pubco Development, Inc.	Albuquerque, N. M.	
Mrs. Romero Santa Fe, N. M.	M. A. Romero and	• ,		
· · · · · · · · · · · · · · · · · · ·			Santa Fe, N. M.	
	John S. Brown		· · · · · · · · · · · · · · · · · · ·	

#### Mr. Hamblin:

Gave a brief analysis of the point in question, being--"What constitutes a commercial well for the purpose of inclusion in the participating areas of the San Juan 32-9 and the San Juan 28-5 Units".

First to be discussed was the 32-9 Unit. Maps of the San Juan 32-9 Unit were passed out. On June 16, 1954, El Paso Natural Gas Company, as Unit Operator, had determined that three wells in this unit were to be non-commercial. They were the San Juan 32-9 #10 with an IP of 145 MCF; the San Juan 32-9 #11 with an IP of 648 MCF; and the San Juan 32-9 #8 with an IP of 1260 MCF. Phillips Petroleum Company had contested this determination as to the #11 and #8 wells. There are a total of 24 wells in the 32-9 Unit Area. These wells have an IP of 3,778 MCF. The average IP in the present/area is 2,072 MCF. There are 4 wells not committed with an average IP of 5,715 MCF. The Nordhaus #1 well, completed with an IP of 600 MCF, has

previously been determined by El Paso Natural Gas Company to be a non-commercial well. There were no protests to this previous determination. Estimated Well Payout figures (as per Exhibit "A" attached to these minutes) were distributed to all persons attending the meeting. Mr. Hamblin explained that the figures shown on this estimated well payout sheet are very optimistic, and that the actual figures were not nearly so favorable. It is the opinion of El Paso Natural Gas Company that a commercial well in this unit should be about 1½ million. Open discussion of this opinion was invited, and each company in turn was called upon for their thoughts regarding this opinion.

Mr. Barnes: General American Oil Company concurs with this opinion.

Mr. Wiederkehr: Southern Union Gas Company concurs with this opinion, with slight alterations. Our management thinks that the minimum IP should be dropped to 1,250 MCF. They do not think it fair to take a well of 5,000 MCF (which is above average) and accept it into a unit with joy, and then to figuratively "kick in the teeth" the man with a well below normal by refusing to accept it.

Mr. Neece: Three States Natural Gas Company and Albuquerque Associated concur with determination of El Paso Natural Gas Company.

Mr. Cotham: Atlantic Refining Company - passed.

vides for a term of

Mr. Richey: Phillips Petroleum Company, like El Paso, has been looking forward to this meeting with some fear and trepidation. The question in the air is a standard for admittance to a participating area. Phillips has given the matter lots of thought and have concluded that all the companies, including ourselves.

and have concluded that all the companies, including ourselves, have actually interpreted the unit agreement to a point where the interpretation given can hardly be escaped. So far 15 wells under 1,000 MCF potential are included in the participating areas in these units. The units are almost exactly alike as to terms. Drilling conditions are very similar in all units. As to the 15 wells in the 10 different units (those which are under 1,000 MCF), about 1/2 of these, eight in number, are wells drilled by El Paso. Most of the others are drilled by Phillips. Four are in El Paso operated units; the balance are Stanolind and Phillips. No protest has heretofore been filed by anybody. Phillips feels that the terms of the unit agreement have been interpreted and accepted by all working interest owners in these units. Almost every company present at this meeting is a working interest owner in one of these units. We have said what the difinition of a well in paying quantities is as to these units. There are other considerations also. One is the Automatic Elimation Some units specify "within 5 years of date of first sale", and other units specify 7 years. Any lease, no part of which is included in a participating area, would be dropped from the unit. We have no argument with this except for side effect. In Section 20 of the unit agreement it pro-

time unless the well is producing in paying quantities. In that paragraph appears the only definition of paying quanti-

years--and it will expire in that

ties in the unit agreement. It says that paying quantities will be, as to that instance, a quantity sufficient to pay for production and pay a reasonable profit on operation. We are not advocating that that be the standard for paying quantities. To get much above that would be to segregate wells of high profitability from wells of low profitability. This would defeat the purpose of a participating area, which is to partially separate the risk. We do not believe the unit agreement is designed to segregate degrees in profitability. Small wells should be admitted so long as they show a profitability.

Mr. Daniell: We concur that the very minimum be  $1\frac{1}{2}$  million for a com(Pubco Develop- mercial well.
ment, Inc.)

Mr. Colvin: No comment right now. (Delhi)

Mr.John A. Anderson: Pass. (U.S.G.S.)

Mr. Jacobson: (Lucerne)

We have only a small amount of acreage—about two sections in the 32-9 Unit. We want to look at that unit regardless of the other ten units, as we are interested in only this one unit. There may be 10, 15, or 20 wells in all the units, but there are only three wells in this unit with an IP of less than 1,000 MCF, and to consider them all together clouds the issue for the 32-9 unit. The risk should be shared. Revenue consistent for those with small wells should be enjoyed.  $1\frac{1}{2}$  to 2 million feet potential is certainly standard. We wouldn't want to see it lowered. From our position in the 32-9 unit, we would vote for 2 million feet.

Mr. Neece: (Three States & Albu.Asso.) Three States and Albuquerque Associated are not in units where they have admitted a small well, so we are not in that position. We do have a sizeable stake in this. We look at it from what the unit agreement says is a commercial well, in terms of cost of drilling, operation, and reasonable profit. When a well is below  $1\frac{1}{2}$  million, we feel it is not worth it.

Mr. J. K. Smith: Our position so far as the 32-9 unit is that we are only an (Stanolind)

overriding royalty interest owner in that unit. The question seems more or less along lines of principle. We will go along with any group determination so far as the 32-9 unit is concerned. The United States government gets a free royalty. Whatever we determine will have to be passed on by them. There are two legal determinations of what consitutes a commercial well. For the purpose of holding a lease, we don't have to get the drilling or well costs back—it is only necessary to show a reasonable profit. Future development must be considered when you put wells into a participating area and assume that you well get back the drilling cost, operating cost, and make a reasonable profit. The term "reasonable profit" is a matter of opinion. Unit agreements all contemplate that a well must show a reasonable profit over and above drilling costs, etc. Mr. Hamblin's analysis seems very fair. One should consider also the lost of use of

money in such conclusions. Deliverability of initial potential on a 3-hour blow down test would probably be 20% in view of pro-rationing -- this is a pretty fair analysis. In 23 years it probably is unreasonable. Thus there is the problem of tying up money for a considerable length of time with the resultant loss of use of money extended over a 4-year period Some companies don't know just exactly how large their reserve will be, and it is a gamble to extend profit for that length of time. We do not think you can take a particular township area as an example, as drilling costs will very in locations. We should disregard this from the standpoint of drilling an additional lease, in view of the fact that the government doesn't have to put these costs in. Wells should be drilled even with long pay out, provided you are assured of the outcome. We think  $1\frac{1}{2}$  million potentials high, but not unreasonable. You would probably get 3 to 1 pay out return on investment over the life period of the entire properties. Also to be considered is the possibility of atomic energy replacing fuel, with the resultant diminishment of value of gas.

### Mr. Hamblin: (KPNG CO.)

Phillips stated that there had been no objections to determinations that M.V. wells with IP below 1,000 MCF should be included in a participating area. We have made such a determination and have received an objection from Pubco because they thought it would not pay out. We Unit Operator, we are on the fence. If we set it too high we receive an objection. and if set too low we also get an objection. We have done a lot of thinking concerning this situation. To be frank, due to this question and the many variables concerned therewith, we had considered trying to set up an average potential on each unit. This was due to the fact that it is so hard to determine what is a commercial well when everyone has different organizational setups, financial arrangements, lease agreements and cost of operations. This is not in strict accordance with the terms of the unit agreement. We could either take the obligation wells, or wells which have been completed, and attempt to set an average for each unit. Wells with initial potentials too far below the average in the unit should not participate (for instance in a unit where the average potential is 4,000 MCF we do not feel a working interest owner with a well of only 600 MCF should expect to participate.) You might go as far below the average as the highest well is above the average. We do not believe that 1,500,000 cu. ft. should be set as the standard test for commerciability throughout the entire Basin. Some of the poorer units may never have a M.V. well with an IP of 1,500 MCF and to set such a standard now would endanger all those units.

### Mr. Richey: (Phillips)

We appreciate your fears in marginal units. They do present a problem. We are aware of the fact that it is difficult to pin down any particular figure that will be applicable throughout as to paying quantities. Conditions vary. Generally, cost conditions are very similar. For that reason, we feel that what is paid for one unit should probably be applied to other units similar in category. The standard for admittance has been set low, and so long as a low standard will return a profit, it probably should be adhered to.

Mr. Hamblin: (EPNG CO.)

We feel that if we do have to establish a minimum to apply to all units, it will have to be in accordance with the terms of the unit agreement. Our honest interpretation of that will be about  $1\frac{1}{2}$  million. We have in the past declared some wells which were below that figure as a commercial well. However, since that time we have actual production figures available and they indicate to us that wells below 1,000,000 cu. ft. will not pay out soon enough to be considered commercial. Although they might eventually pay out, the interest would eat you up.

Mr. Anderson: (U.S.G.S.)

I can't say here today just what our particular position is going to be. In cases where determinations on certain wells were made with the viewpoint of extending leases on which the primary term was about to expire, the Survey has taken a liberal viewpoint. The have concurred in determinations that a well was capable of producing in paying quantities under the unit agreement (--believe the old form called it valuable discovery".) This was done by looking at it from the viewpoint only of extending leases, and not necessarily that it would be a well which would pay out and justify the operator to drill. It has been pointed out that the Survey, the Oil Conservation Commission, and the Commissioner of Public Lands, have approved determinations -- or at least made no objection to determinations--by the unit operator that some wells of perhaps 700 or 800 MCF were producing in paying quantities. I had better not speak for the State, and so limit my remarks to the Survey. The Survey is not sitting in judgment on this thing, and are not going to point to any one particular figure as dividing. We believe that the provision written into the agreement was probably for the protection of some parties, and that a unit operator, perhaps for his own selfish motives, might make determinations which were ridiculous. If there must be some determinations as to what figure constitutes a commercial well, this must be decided by the operators themselves. So far the Survey has gone along in these determinations. If the amount had gone down to 50 or 100 MCF, they probably would When a unit operator makes a determination which is reasonable, although it may not suit everybody's idea of how business should be conducted, the Survey will go along if the amount is reasonable. If those present will get together on what they will accept, the regulatory bodies will go along with it.

Mr. Rhodes: (N.M.O.C. Commission) The Oil Conservation Commission and State Land Office will go along almost 100% with what Mr. Anderson says. We are sitting in judgment. It is up to the operators, and we will go along with any reasonable determination. Perhaps some of the trouble is founded in financial structure of various companies. Some daire 5-year pay outs -- some can live with 20 years. Short pay out is desirable in some instances.

Mr. Colvin: (Delhi)

We have no actual working interest in this unit. Our interest is only insofar as oil is concerned, and not El Paso's interest. We came up with the figure of 1,300 MCF as the very minimum on pay out on 15 to 17 year basis.

### Mr. J. K. Smith: (Stanolind)

There is one additional factor. I don't know what the Geological Survey will do with units after they have been fully developed. We assume they will be left "as is". If a well is not in a participating area, it will be put back on a lease basis. We suggest that consideration be given to that as a potential danger. Although the Senate recently passed a measure to increase the acreage limitation to 46,000 acres, which still presents limits to operate under. People who have gone into a unit in good faith should not be excluded at a later date.

### Mr. Hamblin: (EPNG CO.)

We will not take up the matter of the 28-5 Unit. the 28-5 Unit were distributed. On June 11, 1954, Kl Paso as Unit Operator, made a determination that the San Juan 28-5 #3 well was non-commercial. Phillips has protested this determination. This well is in the SW/4 of Section 26, T-28-N, R-5-W, and had an IP of 673 MCF. At the present time there are three wells in the Mesaverde participating area in that unit, the #2 in Section 14 with an IP of 1235 MCF, the #4 in Section 19, with an IP of 2,300 MCF, and the #1 in Section 29, with an IP of 2,310 MCF. We have the same problem here, but in a different unit. The working interest owners are different.

#### Mr. Richey:

This was protested for the same reason as advanced before. We do not feel that the parties dealing with these units can put on a different hat when dealing with different units. As unit operator, all unit operators should wear the same hat all the time. These units have physical conditions which are the same. Having interpreted the instruments, we think that interpretation should be carried throughout. There is no difference in principle in these two units. It is the same deal of sticking with a similar standard throughout the units when a standard has been established.

### Mr. Hamblin:

We do not believe that the standard of what constitutes a commercial well should be determined by our past actions but should be determined by economic conditions and cost factors at the present time and as they may change in the future.

### Mr. Richey: (Phillips)

In case of a well with IP of 500 MCF, it will take 20 to 23 years for pay out on costs. On natural results under unitized conditions it seems indicated to us that that is what we are faced with. We think that sooner or later, particularly should there be a shortage of gas due to national emergency, we may have forced on us a ruling that in any unit a well that is capable of paying profit when pooled with other wells in the unit will pay a reasonable profit. It is conceivable that such condition will be imposed on an operator in an emergency.

#### Mr. Hamblin:

Our position is that a commercial well should be  $1\frac{1}{2}$  million. We do not believe that a 500 MCF well will ever pay out.

### Mr. Daniell: (Pubco)

Are your figures based on a 365 day producing year? It is impossible to produce that length of time in view of proration coming up. Based on the first five months of this year, our wells will only produce 226 days this year.

### Mr. Hamblin: (EPNG CO.)

That is correct, our estimated take is 20% of Initial Potential if that were produced every day of the year. That is impossible. Actual take may be 10% or 15% of Potential. This is the most favorable estimate that we could possibly see in the way of take and pay out on these wells.

### Mr. J. K. Smith: (Stanolind)

We shouldn't at this time bind ourselves as to any certain figure. All contracts have favored nations clauses, with the possibility that the price of gas may go up. I suggest that we do not attempt to set a figure, but pass on conditions as they come up. I think we will find ourselves in a straightjacket if we do otherwise. We may decide on different figures as time goes on. We should not declare an arbitrary figure because we may have to change as conditions arise.

### Mr. Hamblin: (EPNG CO.)

We don't want to bind ourselves in the future to one certain figure. In these two units we feel that  $1\frac{1}{2}$  million is commercial and fair, but we would not like to see this standard necessarily applied to the whole San Juan Basin.

### Mr. Richey: (Phillips)

We don't advocate tying to any particular figure. We agree with the above points. As conditions change, standards will change. When we signed these unit agreements, we put into the hands of the unit operator the determination of what is a participating area and what isn't. We should not attempt to dictate to the unit operator what he should do. We do not intend to take away from El Paso the power of determining what is commercial or not.

### Mr. Morrell: (Independent)

On the basis of my experience and in securing commitments to units in the Basin, I base my remarks. We ought to take a quick look at the history of unitization in the Basin. It was recognized in the beginning that we had an unusual geological structure. It would be a physical impossibility to unitize the entire area into a single unit. Credit for the establishment of these units should go to Mr. Duncan in Washington. Parties participating in the township units would be participating in similar characteristics. Phillips may recall, in connection with the early establishment of the 30-6 Unit, that objections were raised as to the area in the north being different, and the 31-6 Unit segregated, with Phillips as operator. That point is as important as the costs of the well. It is established that costs are not approximately the same all over the Basin. Actual completion costs in some units can be double what they are in In some of the higher cost units, productivity is others. So long as you have one well producing in paying quantities, any wells that are not included in a participating area by virtue of lower production would still be held in the unit, in a question of chargeability (after 5 year term of the Unit). There are 19 unit blocks on which as of the end of June, there were 150 wells. Of those

19 units, averaging all wells in each unit, there were 6 units that did not average 1 million in 3-hour tests. Deducting 21 as non-commercial, we then come out with only three units with less than 1 million. These are interesting factors as an overall picture. You will find 27 wells of less than 1 million in these 19 units. Phillips operates 7: El Paso 11: Stanolind 1. This gives us a gauge of what the Survey would be thinking about. The matter of relativity is important, -- what the average of that particular unit is. These are the conclusions Mr. Hamblin has made-rather than make a fixed figure across the Basin, it would be better to average the wells in each particular unit. We don't have a specific wording for paying quantities which is recognized. In the past it was thought about inserting the figure of 2 million. Then it was recognized that if this was done there wouldn't be a commercial well in many units. One well can still be commercial at 1 million though it may take 20 years to pay out. In trying to compare unit to unit--each unit should stand on its own feet.

Mr. Cosse: (Phillips)

We agree with him regarding price. Prices may change. We do not know what Phillips position will be if we continue to strike out every time we walk up to plate before the government boys.....Our position has changed in the last few years from what it used to be. As to the various units, maybe I don't understand logic. Hamblin says  $1\frac{1}{2}$  million. On others they haven't objected to smaller wells. We can't see why, in a unit with 4 million average,  $1\frac{1}{2}$  million would be commercial, and in a weaker unit something less would be commercial. How could they deviate—one from another. From overall situation our protest is logical because of wider interests.

Mr. Hamblin: Mr. Romero, have you any comments?

Mr. Romero: No sir. I am just an interested bystander.

Mr. Hamblin: Mr. J. K. Smith has suggested that we given the interest on each particular unit and take a poll. I shall attempt to do that on the 32-9 Unit.

Mr. Anderson: Is it the thought of everyone here that our position is going (U.S.G.S.) to be to set up some yardstick for determining what is a commercial well in the Mesaverde for the 32-9?

Mr. Hamblin: That was my thought - to get the working interest owners all to express themselves.

Mr. Anderson: Are most of the group in the southern portion of the unit area? (U.S.G.S.)

If we agree on certain amount and develop the top half and don't get a well over 1 million, what are we going to do?

Mr. Hamblin: Working interest owners could still take gas and produce each well although they would not participate with the commercial wells in the participating area.

Mr. Anderson: I recognize that. (U.S.G.S.)

Hr. Cossey: How do you determine that it takes  $1\frac{1}{2}$  million when we have other wells which are less than  $1\frac{1}{2}$  million? Has the picture changed, or what is the reason?

Mr. Hamblin: I don't believe those wells in other units can be called commercial wells. We may never have commercial wells within those units. If we set up a standard for all units we may be endangering those units and the possibility of getting orderly development in the area where the weaker units are, especially in Range 4 West.

Mr. Cossey: These wells that we have said are commercial producers are (Phillips) not commercial producers?

Mr. Hamblin: On the basis of our production figures on the San Juan Basin, we do not see how those wells will ever pay out within a reasonable length of time.

Mr. Wiedekehr: The question has come up as to why people have not opposed (Sou. Union) previous determinations. We have done so but with no results.

Mr. Richey:
(Phillips)

Determining a well commercial for the purpose of determining a discovery in paying quantities for extending leases is quite a different matter than determining for participating area. One must notify the U.S.G.S. of a discovery in commercial quantities to take care of the lease situation. Then it is at the discretion of the unit operator whether or not he forms a participating area with that discovery well, or admits it to a participating area. The unit operators have placed themselves in a position of admitting lower IP's to participating area. That is what I mean regarding paying quantities in the San Juan Basin.

Mr. Hamblin: Shall we vote on whether the determination of KPNG Co. as Unit Operator should be upheld or reversed, or express our opinion as to what the Initial Potential should be. Are there any objections to each one stating what they think should be commercial? That would give us as operator an idea what each company feels should be a commercial well in these two units.

Mr. Richey: I would prefer to take a vote on whether our determination (Phillips) is fair.

Mr. J.K.Smith: Is the average cost of drilling \$85,000? (Stanolind)

Mr. Hamblin: It is higher than that. Mr. Hollis, would you give us the actual average drilling costs of the wells in the San Juan

32-9 Unit.

Mr. Hollis: On the 32-9 the average is \$89,889. On the 28-5 Unit, the

average from only four wells is \$107,184.

Mr. Hamblin: You can see why we said our figures were conservative. Now

we shall take the vote. Naturally El Paso would vote that they had made a correct determination in this Unit. (We have some joint working interest owners who have oil rights in our acreage. May I have an expression from you, Mr. Neece, as to

whether you believe you should vote on this question?)

Mr. Neese: I am inclined to think we don't have any right to vote ex-

(3 States) cept in case of acreage held by oil well.

Mr. Hamblin: In that case, El Paso has 55% in the 32-9 Unit. I hardly

think it necessary to ask for Phillips' vote. Mr. Richey?

Mr. Richey: No.

(Phillips)

Mr. Hamblin: Phillips Drilling? -- Not present.

Mr. McElvain? -- Not present and we don't know what his vote

will be.

Southern Union Gas Company? - They have a working interest.

Mr. Wiederkehr: Southern Union Gas Company votes "yes".

Mr. Hamblin: Tom Bolack? -- Not present.

Albuquerque Associated?

Mr. Neece: Yes.

Mr. Hamblin: Pubco?

Mr. Daniell: Yes.

Mr. Hamblin: James Palmer? -- Not present.

The Texas Company? -- Not present.

Standard Oil of Texas? -- Not present.

(This vote has been taken of the acreage that is committed. I will get out a letter and show the percentages and how

the votes ran).

On the 28-5 Unit. El Paso has 51.533%.

Tom Bolack? -- Not present.

Phillips?

Mr. Richey: No.

Mr. Hamblin: Stanolind?

Mr. J.K.Smith: Yes. On this Unit, as of conditions now existing.

Mr. Hamblin: Mr. Harrington? -- Not present.
Alice Bolack? -- Not present.
Forrest Miller? -- Not present.

Mr. Romero? Would you care to vote for your group?

Mr. Romero: I would not care to vote.

Mr. Hamblin: Do you want to add these up, or should be distributed by

letter?

NO COMMENT FROM GROUP.

Any comment, Mr. Richey?

Mr. Richey: If you have the majority, we are satisfied. We will have

the detail by letter.

Mr. Hamblin: That is all I have.

\* \* \* \*

Mr. Hamblin: May I have an expression of opinion at this time as to

whether you want a figure established for the entire Basin,

or separately?

Mr. Anderson: At the present time we have not made a decision on either (U.S.G.S.) unit other than to uphold the determination of the unit

unit other than to uphold the determination of the unit operator, which implies endorsement of the figures arrived

at.

Mr. Hamblin: How would you have the question for a vote?

Mr. Richey: We feel that the unit agreement charges the unit operator (Phillips) with the responsibility of making the determination, and do

with the responsibility of making the determination, and do not want to imply that this group should take away or limit

by hard and fast rule the discretion used by the unit operator. I will admit I had in mind more of a straw vote rather than taking a vote by interest, where El Paso has

51% interest in the unit.

Mr. Hamblin: We would have no objection to such a poll. Any decision

we make here might only influence Mr. Anderson of the

U.S.G.S. and the State in their decisions.

Mr. Richey: We would be interested in knowing if the position

we set forth here was supported by any one.

Mr. Colvin: We have only an economic interest, but for the purposes

(Delhi) of a numerical vote, Delhi would concur with the action

of El Paso.

Mr. Hamblin: Shall we have a numerical vote? Does any one support

Phillips' position?

No one present supported Phillips' position.

MEETING ADJOURNED

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Philip \_

### **ALBUQUERQUE ASSOCIATED OIL COMPANY**

MAIN OFFICE OFFIST NATIONAL BANK BUILDING ALBUQUERQUE, NEW MEXICO

DUDLEY CORNELL PRESIDENT 1954 JUL 12 AM 9:27 July 9, 1954

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Protest of Determination of
Noncommercial Production in
San Juan 32-9 Unit #8 Well

#### Gentlemen:

Protest filed under date of June 22, 1954, against the determination of El Paso Natural Gas Company, Unit Operator, that Unit Well #8 is not capable of producing unitized substances in paying quantities, is hereby withdrawn.

Upon the basis of more complete information, the undersigned working interest owner in this Unit hereby requests that you approve the determination in full contained in the letter of June 16, 1954, of El Paso Natural Gas Company relating to Unit Wells #8, #10 and #11.

Very truly yours,

ALBUQUERQUE ASSOCIATED OIL COMPANY

DC:vr

By Dudley Cornell, President

cc: El Paso Natural Gas Co.
Unit Operator

cc: Attached list

Q1. 20-

## PHILLIPS PETROLEUM COMPANY

10th Floor West Wing Phillips Building Barrlesville, Oklahoma

July 8, 1954

Re: San Juan 32-9 Federal Unit

#14-08-001-569

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capital Annex Building Santa Fe. New Mexico

Oil Conservation Commission of the State of New Mexico Capital Annex Building Santa Fe, New Mexico

#### Gentlemen:

By telegram dated June 28, 1954, Phillips Petroleum Company gave notice of its protest to the determination by El Paso Natural Gas Company, the Unit Operator of San Juan 32-9 Federal Unit No. 14-08-001-569, that 32-9 Unit Well No. 8 in Section 20-32N-9W and 32-9 Unit Well No. 11 in Section 14-32N-9W are not capable of producing unitized substances in paying quantities.

In our opinion each of these wells is capable of producing unitized substances in "paying quantities" under the proper construction and definition of that term as used in the Unit Agreement and as contemplated by the parties to the Unit Agreement as evidenced by the practice of various unit operators under Federal units in the San Juan Field and the determinations made by such unit operators which have been approved by the Director without pretest. There are numerous instances in which wells in the San Juan Field drilled to the Mesaverde fermation have been determined to be capable of producing unitized substances in paying quantities as that term is used in San Juan Unit Agreements which have ne larger potential productive capacity than the smaller of the two wells here under consideration. The fact that wells completed at approximately the same depth with smaller potential productive capacity than the wells here under consideration were considered by the Director. the Unit Operator and other interested parties to be wells capable of producing unitized substances in paying quantities under the terms of Federal Unit agreements with substantially identical provisions as the 32-9 Unit Agreement is strong evidence of the fact that within the contemplation of the terms of the subject Unit Agreement the subject wells are capable of producing unitized substances in paying quantities. Certainly the term "paying quantities" must mean the same thing in one unit agreement in the San Juan Field as in another unit agreement in the San Juan Field where the terms of the agreements are the same. Since the Director and unit operators. including El Paso Natural Gas Company, and other interested parties have, by their actions, previously interpreted the term "paying quantities", as used in said unit agreements, as including wells of no greater potential capacity than the wells here under consideration, it would appear that such interpretation of the term "paying quantities"

would be binding on the parties. We can see no necessity for deviating from such interpretation in this instance and feel that to do so would be contrary to the apparent intention of the parties to the Unit Agreement.

The mere fact that a well completed in the unit area has a smaller productive capacity than other wells then included in the participating area is not a valid basis upon which to exclude such smaller well from the participating area. The basic principle and objective of the unitization of undeveloped areas is the sharing of risks and benefits by all parties so as to promote the orderly development and operation of such area for the mutual benefit of all parties and to promote the economic development of natural resources. To exclude a small well from the participating area would serve to defeat the basic principle of sharing of risks and benefits and thereby discourage the continued development of the unit.

We therefore respectfully request that the determination by El Paso Natural Gas Company, the Unit Operator of the San Juan Unit 32-9, that 32-9 Unit Wells Nos. 8 and 11 are not capable of producing unitized substances in paying quantities be disapproved and that the Unit Operator be directed to make a determination that both of these wells are capable of producing unitized substances in paying quantities within the contemplation of the terms of the Unit Agreement.

Yours very truly

PHILLIPS PETROLEUM COMPANY

RNR:wg cc: Attached List

R. N. RICHEY - San Juan Division

MAIN OFFICE OCC BURT BUILDING
DALLAS 1, TEXAS

Con 418

San Juan 32-9 Unit

No. 14-08-001-569

Mexico

San Juan County, New

1954 JUL 19 KI 8:45

July 6, 1954

Re:

Director
United States Geological Survey
Department of the Interior
Washington, D.C.

Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission b State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Gentlemen:

Southern Union Gas Company, a Working Interest Owner in the above Unit, hereby submits its protest to the inclusion of any well in the Participating Area of the San Juan 32-9 Unit whose Initial Potential is less than 1,000 MCF/Day.

We would further suggest that the following formula be used upon the completion of each well in determining its capabilities of producing unitized substances in such paying quantities as to obtain admittance in the Participating Area of said Unit:

"A well capable of producing unitized substances in such paying quantities as to justify its inclusion in the Unit shall be defined as a well capable of delivering one hundred thousand cubic feet (100 MCF) of gas for each one thousand (1000) feet of hole against a back pressure of five hundred (500) pounds per square inch gauge at the end of a 24 hour period."

Very truly yours,

SOUTHERN UNION GAS COMPANY

A. M. Wiederkehr, Manager Exploration Department

AMW:W:t

cc: Attached list

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### LUCERNE CORPORATION

MAIN OFFICE OCCMERCANTILE SECURITIES BUILDING

DALLAS 1, TEXAS

1954 JUL 6 AN 8:30 July 2, 1984

Subject: San Juan 88-0 Wait No. 14-00-003-000 San Juan County, New Namico

Director Taited States Coological Survey Separtment of the Interior Tashington, S. C.

Companioner of Public Lands of the State of New Hanks Capital Annex Baliding Santa Po, New Hanks

Oll Concervation Counteries of the State of New Mexico Spottel Asses Dallding Seats To, New Mexico

#### Cantleman!

No received a copy of letter deted June 22, 1004 from the Albertarque Associated CLI Company relative the small gas well legated CES' footh of the Borth line and SOC' West of the Bost line in Section 30, Township 38 Borth, Range S Vest, Ann June County, New Boston. To also proceived a copy of telegram deted June 30 from the Phillips Potrulous Suspency protecting the determination by the Unit Operator, 21 Page Butward Cas Company, of Unit Vell No. 2 in Section 30, Vell No. 6 in Section 30, and Vell No. 11 in Section 34, Township 38 North, Range S Vest, The Unit Operator elecution in 36-6 Unit. To underetted that the owners of those small wells may produce them and market the gas so they will be a secure of some revenue alithough they do not receive recognition in the Unit.

# PLACE BOOKS CORRORATION FOR THE CORRORATION OF THE SECOND STATE OF THE SECOND SECOND

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lacerne Corporation approves of this action by the Unit Operater as outlined in their letter of June 16, 1964. We feel that a distinction should be made insofar as these small completions are essecuted as it would be an imposition on the other participants in the 28-9 Unit to have their interest diluted by the acceptance of the small producers with correspondingly small reserves.

Yours very truly,

LUCIDEE CORPORATION

F. E. Jacobson, President

7W.JW

ee: Il Pase Ratural See Company Unit Sperator

on: Attached list

一、1955年1月,在李元明,日本日、宋、《江南南州中国《中国》(宋、宋朝等1973月1922)。《宋本**李四位《宋明》,以自为中国的**植植

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### OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

499

July 2, 1954

Subject: San Juan 32-9 Unit

1954 Drilling Program

El Paso Natural Gas Company Tenth Floor - Bassett Tower El Paso, Texas

Attention: Mr. R. L. Hamblin

#### Gentlemen:

Reference is made to your letter of May 4, 1954 requesting approval of your proposal to pay compensatory royalty in lieu of drilling a well in the W/2 of Section 13, Township 31 North, Range 10 West in the captioned unit.

Please be advised that your compensatory royalty proposal and the 1954 Drilling Program for this Unit are hereby approved as of this date subject to like action of the U. S. Geological Survey and the Commissioner of Public Lands.

Very truly yours,

R. R. SPURRIER
Secretary and Director

### RR8:c

cc: Commissioner of Public Lands Santa Fe, New Mexico

> U. S. Geological Survey Farmington, New Mexico

Oil Conservation Commission
P O Box 697
Aztec, New Mexico

### OL CONSERVATION COMMISSION P. ... BCX 37!

### SANTA DE NEW MEXICO

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ALBUQUERQUE ASSOCIATED OIL COMPANY

FIRST NATIONAL BANK BUILDING ALBUQUERQUE, NEW MEXICO June 22, 1954

MAIN OFFICE OCC 1554 JUN 63 AM 8:23

DUDLEY CORNELL PRESIDENT

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe. New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Protest of Determination of
Noncommercial Production in
San Juan 32-9 Unit #8 Well

#### Gentlemen

Protest is hereby given under the provisions of Section 1!(a) of the Unit Agreement for the Development and Operation of the San Juan 32-9 Unit Area, County of San Juan, State of New Mexico. This protest is based upon letter of June 16, 1954 from El Pase Natural Gas Company, Unit Operator, advising that the San Juan 32-9 Juit #8 Well located 923' South of the North line and 986' West of the East line in Section 20, Township 32 North, Range 9 West, San Juan County, New Mexico, is determined to be not capable of producing unitised substances in paying quantities. This letter shows that the well was tested on December 30, 1953 and gauged an IP of 1260 MCFGPD with an SIPC of \$135 and an SIPT of \$205.

In our opinion this well is definitely a commercial well and entitled to be included in the Participating Area, and your disapproval of this determination is respectfully requested.

- 2 -

Copies of this letter are being sent to the working interest owners as shown on the attached list.

Very truly yours,

ALBUQUERQUE ASSOCIATED OIL COMPANY

Dudley Cornell, President

DC: VF

cc: El Paso Natural Gas Company,

Unit Operator

cc: Attached list

## MAIN CELET Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

1901 UN | 2 Al 0 : 24

El Paso, Texas

17 June 1954

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Seventh Expanded Participating Area
Mesaverde Formation
Effective May 1, 1954

#### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator, determined on the dates set out below that three additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde formation is accordingly expanded.

#### These wells are as follows:

1. San Juan 32-9 Unit #16 well located 1650° South of the North line and 990° West of the East line of Section 8, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on February 8, 1954, and reached a total depth of 5985°. The pay section between 5810° and 5985° was treated with a sand oil fracturing process. The well was tested on April 6, 1954, and after a three hour blow-down gauged an IP of 3490 MCFGPD with an SIPC of 1064# and an SIPT of 1061#. The committed drilling block upon which this well is located is described as the E/2 of Section 8, Township 31 North, Range 9 West, N.M.P.M., and consists of 320 acres. The determination that this well was capable of producing unitized

substances in paying quantities was made on April 6, 1954. This drilling block was included in the Sixth Expanded Participating Area as it was an intervening drilling block, therefore the total acreage of the participating area is not increased by the completion of this well.

- 2. San Juan 32-9 Unit #18 well located 1850' North of the South line and 890' East of the West line of Section 17, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on February 5, 1954, and reached a total depth of 5660'. The pay section between 5550' and 5660' was treated with a sand oil fracturing process. The well was tested on April 13, 1954, and after a three hour blow-down gauged an IP of 5011 MCFGPD with an SIPC of 1006# and an SIPT of 1002#. The committed drilling block upon which this well is located is described as the W/2 of Section 17, Township 31 North, Range 9 West, N.M.P.M. and consists of 320 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on April 13, 1954.
- 3. San Juan 32-9 Unit #19 well located 1650' South of the North line and 990' West of the East line of Section 17. Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on March 5, 1954, and reached a total depth of 5790'. The pay section between 5595' and 5790' was treated with a sand oil fracturing process. The well was tested on April 21, 1954, and after a three hour blow-down gauged an IP of 3937 MCFGPD with an SIPC of 1058# and an SIPT of 1060#. The committed drilling block upon which this well is located is described as the E/2 of Section 18, Township 31 North, Range 9 West, N.M.P.M. and consists of 320 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on April 21, 1954.

With the completion of the San Juan 32-9 Unit #18 well an intervening block exists between that well and the San Juan 32-9 Unit #1 well. This drilling block is described as the E/2 of Section 18, Township 31 North, Range 9 West, N.M.P.M. and consists of 320 acres. Under the terms of the Unit Agreement this drilling block was admitted to the participating area on May 1, 1954, the time of admission of the San Juan 32-9 Unit #18 well, and a well must be commenced on said intervening block by May 1, 1955.

Attached is Schedule VIII showing the Seventh Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefor and, in the absence of disapproval, this Expanded Participating Area will become effective as of May 1, 1954.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S. Deagon

Re: 32-9 Unit Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. C. T. McClure Anderson-Prichard Oil Corporation Liberty Bank Building Oklahoma City, Oklahoma

Mr. C. F. Bedford Stanolind Oil and Gas Company Oil & Gas Building Fort Worth, Texas

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark Three States Matural Gas Company Corrigan Tower Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams
The Atlantic Refining Co.
P. O. Box 2819
Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. R. H. Love Wood River Oil and Refining Co. 321 West Douglas Wichita, Kansas Mr. Dudley Cornell Albuquerque Associated Oil Company 1st National Bank Bldg. Albuquerque, New Mexico

Mr. Frank Gorham, Jr. Pubco Development, Inc. Box 1360
Albuquerque, New Mexico

Mr. Critchell Parsons Beaver Lodge Oil Corporation 310 Mercantile Commerce Bldg. Dallas, Texas

Mr. John S. Brown 220 Shelby Street Santa Fe, New Mexico

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milan Building San Antonio, Texas

u MS

MAIN OFFICE Paso Natural Gas Company

EM JUN 1: 4 8:36

TENTH FLOOR BASSETT TOWER

El Paso, Texas

June 17, 1954

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Sixth Expanded Participating Area
Mesaverde Formation
Effective April 1, 1954

### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator determined on March 29, 1954, that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

### This well is as follows:

1. San Juan 32-9 Unit #17 well located 1800' North of the South line and 1650' East of the West line of Section 8, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on January 16, 1954, and reached a total depth of 5920'. The pay section between 5715' and 5920' was treated with a sand oil fracturing process. The well was tested on March 29, 1954, and after a three hour blow-down gauged an IP of 3042 MCFGPD with an SIPC of 962# and an SIPT of 961#. The committed drilling block upon which this well is located is described as the W/2 of Section 8, Township 31 North, Range 9 West, N.M.P.M., and consists of 320 acres.

With the completion of this well intervening blocks exist between this well and the San Juan 32-9 Unit #15 Well and the San Juan 32-9 Unit #7 Well. These drilling blocks are described as the E/2 of Section 8 and the W/2 of Section 5, Township 31 North, Range 9 West, N.M.P.M., and consists of 320 and 320.80 acres respectively. Under the terms of the Unit Agreement, these intervening drilling blocks are admitted to the Participating Area on April 1, 1954, the time of admission of the San Juan 32-9 Unit #17 well, and wells must be commenced on said intervening blocks by April 1, 1955.

Attached is Schedule VII showing the Sixth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefor and, in the absence of disapproval, this Expanded Participating Area will become effective as of April 1, 1954.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S Deason Lease Department

CSD/nl

cc: Attached List

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. C. T. McClure Anderson-Prichard Oil Corporation Liberty Bank Building Oklahoma City, Oklahoma

Mr. C. F. Bedford Stanolind Oil and Gas Company Oil & Gas Building Fort Worth, Texas

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark
Three States Natural Gas Company
Corrigan Tower
Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. R. H. Love Wood River Oil and Refining Co. 321 West Douglas Wichita, Kansas Mr. Dudley Cornell Albuquerque Associated Oil Company 1st National Bank Bldg. Albuquerque, New Mexico

Mr. Frank Gorham, Jr. Pubco Development, Inc. Box 1360 Albuquerque, New Mexico

Mr. Critchell Parsons
Beaver Lodge Oil Corporation
310 Mercantile Commerce Bldg.
Dallas, Texas

Mr. John S. Brown 220 Shelby Street Santa Fe, New Mexico

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milam Building San Antonio, Texas CLASS OF SERVICE

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SYMBOLS

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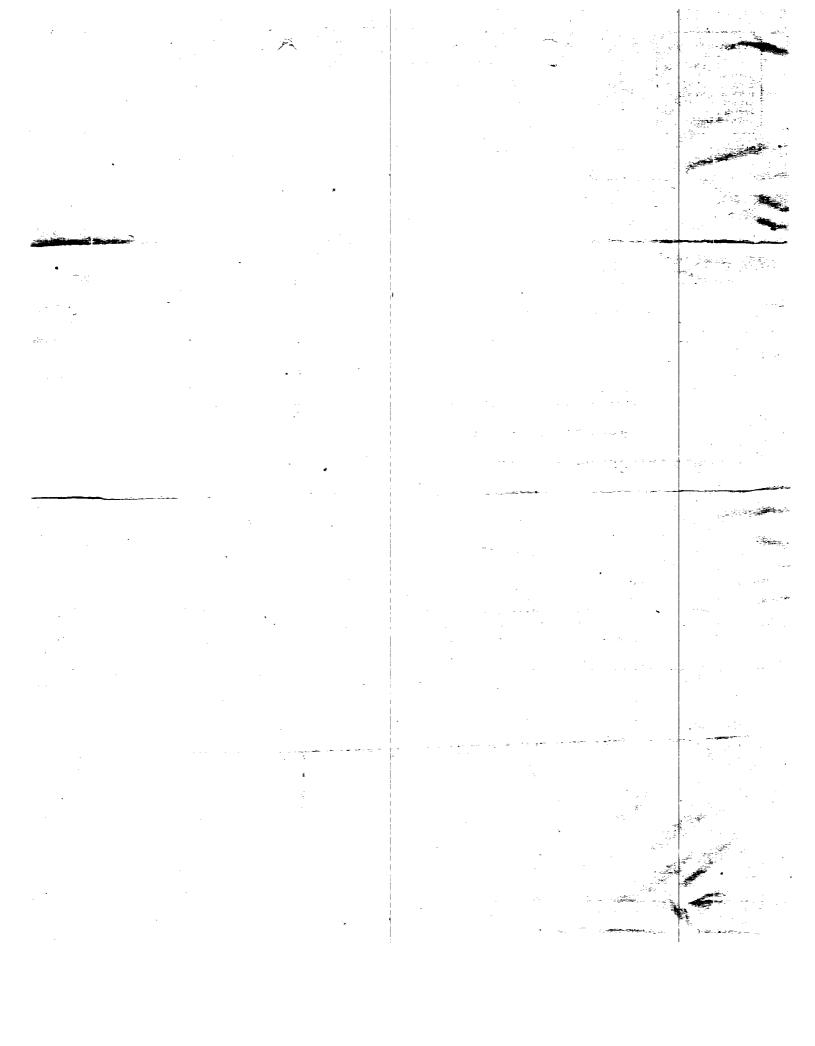
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OLL CONSERVATION COMMISSION OF STATE OF NEW MEXICOE:
STATE CAPITAL ANNEX BLDG SANTA FE NMEXE

RE SAN JUAN 32=9 FEDERAL UNIT #14-08-001-569, SAN JUAN COUNTY, NEWMEXICO, UNDER DATE OF JUNE 16, 1954, EL PASO NATURAL GAS COMPANY AS UNIT OPERATOR GAVE OTICE OF ITS DETERMINATION THAT SAN JUAN 32-9 UNIW WELL #2 IN SECTION 30-32N-9W. Norma Pame and #8 WELL IN ECTION 20-32N-9W AND WELL #11 IN ECTION 14-32N-9W WERE INCAPABLE OF PRODUCING UNITIZED SUBSTANCES IN PAYING QUANTITIES FROM THE MESAVERDE FORMATION. PHILLIPSSPETROLEUM COMPANY AS AN INTERESTED PARTY HEREBY PROTESTS SUCH DETERMINATION AS TO THESE THREE WELLS AND REQUESTS THAT THE SAID DETERMINATION BE DISAPPROVED AND THAT EL PASO BE DIRECTED TO MAKE A NEW DETERMINATION TO THE EFFECT THAT THESE THREE WELLS ARE CAPABLE OF PRODUCING UNITIZED SUBSTNACES IN PAYING QUANTITIES. LETTER FOLLOWS.

PHILLIPS PET CO R N RICHEY SAN JUAN DIVISIONE

MAIN OFFICE OCC

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TENTH FLOOR BASSETT TOWER

1954 JUN 61 /M g: 00

El Paso, Texas

16 June 1954

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Captiol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Captiol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Fifth Expanded Participating Area
Mesaverde Formation
Effective January 1, 1954

### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator determined on December 4, 1953 that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

### This well is as follows:

San Juan 32-9 #15 Well located 1650' North of the South line and 990' East of the West line of Section 9, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on October 14, 1953, and reached a total depth of 5906'. The pay section between 5364' and 5858' was shot with 1401 quarts of nitroglycerine. The well was tested on December 4, 1953, and after a three hour blow-down gauged an IP of 3020 MCFGPD with an SIPC of 986# and an SIPT of 975#. The committed drilling block upon which this well is located is described as the W/2 of Section 9, Township 31 North, Range 9 West, N.M.P.M. and consists of 320 acres.

Attached is Schedule VI showing the Fifth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefor and, in the absence of disapproval, this Expanded Participating Area will become effective as of January 1, 1954.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S. Deason Lease Department

CSD/mas

cc: Attached List

### Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. C. T. McClure Anderson-Prichard Oil Corporation Liberty Bank Building Oklahoma City, Oklahoma

Mr. C. F. Bedford Stanolind Oil and Gas Company Oil & Gas Building Fort Worth, Texas

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark Three States Natural Gas Company Corrigan Tower Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. R. H. Love Wood kiver Oil and Refining Co. 321 West Douglas Wichita, Kansas Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Bldg.
Albuquerque, New Mexico

Mr. Frank Gorham, Jr. Pubco Development, Inc. Box 1360 Albuquerque, New Mexico

Mr. Critchell Parsons
Beaver Lodge Oil Corporation
310 Mercantile Commerce Bldg.
Dallas, Texas

Mr. John S. Brown 220 Shelby Street Santa Fe, New Mexico

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milam Building San Antonio, Texas El Paso Natural Gas Company MAIN OFFICE 600

### TENTH FLOOR BASSETT TOWER

El Paso, Texas 1354 JUN 21 MI 9:04

June 16, 1954

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Noncommercial Wells - Mesaverde Formation

### Gentlemen:

You have previously been advised that El Paso Natural Gas Company as Unit Operator did not consider the San Juan 32-9 #2 Well, located 1980' North of the South line and 1600' West of the East line, Section 30, Township 32 North, Range 9 West, N.M.P.M., a commercial well, therefore, it was not included in a Participating Area. This determination still stands.

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator determined on the dates set out below that the following additional wells are not capable of producing unitized substances in paying quantities from the Mesaverde Formation.

### These wells are as follows:

(1) San Juan 32-9 Unit #10 Well, located 1628' South of the North line and 1634' West of the East line of Section 34, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on September 7, 1953, and reached a total depth of 5960'. The pay section between 5850' and 5960' was shot with 165 quarts of nitroglycerine. The well was tested on October 26, 1953, and after a three hour blow-down gauged an IP of 145 MCFGPD with an SIPC of 1061# and

an SIPT of 1061#. The drilling block upon which this well is located is described as the E/2 of Section 34, Township 32 North, Range 9 West, N.M.P.M., and consists of 320 acres. The determination that this well was not capable of producing unitized substances in paying quantities was made on October 26, 1953.

- (2) San Juan 32-9 Unit #11 Well, located 990' South of the North line and 861' West of the East line of Section 14, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on October 16, 1953, and reached a total depth of 6280'. The pay section between 5820' and 6280' was shot with 1335 quarts of nitroglycerine. The well was tested on December 8, 1953, and after a three hour blow-down gauged an IP of 648 MCFGPD with an SIPC of 940# and an SIPT of 932#. The drilling block upon which this well is located is described as the E/2 of Section 14, Township 32 North, Range 9 West, N.M.P.M., and consists of 320 acres. The determination that this well was not capable of producing unitized substances in paying quantities was made on December 8, 1953.
- (3) San Juan 32-9 Unit #8 Well, located 923' South of the North line and 986' West of the East line of Section 20, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on November 10, 1953, and reached a total depth of 6255'. The pay section between 5625' and 6255' was shot with 1935 quarts of nitroglycerine. The well was tested on December 30, 1953, and after a three hour blow-down gauged an IP of 1260 MCFGPD with an SIPC of 813# and an SIPT of 820#. The drilling block upon which this well is located is described as the E/2 of Section 20, Township 32 North, Range 9 West, N.M.P.M., and consists of 320 acres. The determination that this well was not capable of producing unitized substances in paying quantities was made on December 30, 1953.

Inasmuch as these determinations need no official approval, no provision is made therefor and, in the absence of disapproval these wells will continue to be considered noncommercial and the drilling blocks upon which these wells are located will not be admitted to a Participating Area.

Copies of this letter are being sent to the working interest owners as shown on the attached list.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S. Deason

Lease Department

CSD/nl

cc: Attached list

Re: 32-9 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. C. T. McClure Anderson-Prichard Oil Corporation Liberty Bank Building Oklahoma City, Oklahoma

Mr. C. F. Bedford Stanolind Oil and Gas Company Oil & Gas Building Fort Worth, Texas

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark Three States Natural Gas Company Corrigan Tower Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. R. H. Love Wood River Oil and Refining Co. 321 West Douglas Wichita, Kansas Mr. Dudley Cornell Albuquerque Associated Oil Company 1st National Bank Bldg. Albuquerque, New Mexico

Mr. Frank Gorham, Jr. Pubco Development, Inc. Box 1360
Albuquerque, New Mexico

Mr. Critchell Parsons
Beaver Lodge Oil Corporation
310 Mercantile Commerce Bldg.
Dallas, Texas

Mr. John S. Brown 220 Shelby Street Santa Fe, New Mexico

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milam Building San Antonio, Texas

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# El Paso Natural Gas Company AIN OFFICE OCC

TENTH FLOOR BASSETT TOWER

134 MR 15 M 2:44

El Paso Teras

April 13, 1954

Director United States Geological Survey Department of the Interior Washington. D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

> Re: San Juan 32-9 Unit No. 14-08-001-569 San Juan County, New Mexico Fourth Expanded Participating Area Mesaverde Formation Effective November 1, 1953

### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator determined on the dates set out below that three additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this Unit and the Participating Area for the Mesaverde Formation is accordingly expanded.

### These wells are as follows:

1. San Juan 32-9 #7 Well located 990' North of the South line and 990' East of the West line of Section 32, Township 32 North, Range 9 West, San Juan County, New Mexico. This well was spudded on July 31, 1953, and reached a total depth of 6057. The pay section between 5657' and 6057' was shot with 1060 quarts of nitroglycerine. The well was tested on October 1, 1953, and after a three hour blow-down gauged an IP of 2930 MCFGPD with an SIPC of 1069# and an SIPT of 1068#. The committed drilling block upon which this well is located is described as the W/2 of Section 32, Township 32 North, Range 9 West, N.M.P.M. and consists of 320 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on October 1, 1953。

- 2. San Juan 32-9 #12 Well located 990' North of the South line and 990' East of the West line of Section 10, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on August 11, 1953, and reached a total depth of 5813'. The pay section between 5313' and 5813' was shot with 1385 quarts of nitroglycerine. The well was tested on October 1, 1953, and after a three hour blow-down gauged an IP of 2310 MCFGPD with an SIPC of 1075# and an SIPT of 1085#. The committed drilling block upon which this well is located is described as the W/2 of Section 10, Township 31 North, Range 9 West, N.M.P.M. and consists of 320 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on October 1, 1953.
- 3. San Juan 32-9 #14 Well located 990' South of the North line and 990' West of the East line of Section 9, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on September 10, 1953, and reached a total depth of 5922'. The pay section between 5474' and 5922' was shot with 1117 quarts of nitroglycerine. The well was tested on October 26, 1953, and after a three hour blow-down gauged an IP of 1646 MCFGPD with an SIPC of 1051# and an SIPT of 1077#. The committed drilling block upon which this well is located is described as the E/2 of Section 9, Township 31 North, Range 9 West, N.M.P.M. and consists of 320 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on October 26, 1953.

Attached is Schedule V showing the Fourth Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefor and, in the absence of disapproval, this Expanded Participating Area will become effective as of November 1, 1953.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S. Peason

Lease Department

CSD/mas

cc: Attached List

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. C. T. McClure Anderson-Prichard Oil Corporation Liberty Bank Building Oklahoma City, Oklahoma

Mr. G. B. Jenkinson Stanolind Oil and Gas Company Box 591 Tulsa 2, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas. Texas

Miss Margaret Clark
Three States Natural Gas Company
Corrigan Tower
Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. R. H. Love Wood River Oil and Refining Co. 321 West Douglas Wichita, Kansas Mr. Dudley Cornell
Albuquerque Associated Oil Company
1st National Bank Bldg.
Albuquerque, New Mexico

Mr. Frank Gorham, Jr. Pubco Development, Inc. Box 1360
Albuquerque, New Mexico

Mr. Critchell Parsons
Beaver Lodge Oil Corporation
310 Mercantile Commerce Bldg.
Dallas, Texas

Mr. John S. Brown 220 Shelby Street Santa Fe, New Mexico

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milam Building San Antonio, Texas

### OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

April 9, 1954

Mr. Samuel Smith
El Paso Natural Gas Company
Tenth Floor- Bassett Tower
El Paso, Texas

Dear Mr. Smith:

This is in reply to your letter of March 5th relating to the San Juan 32-9 Unit. The drilling program outlined for 1954 is satisfactory provided that a well will be drilled in the W/2 of Section 13, Township 31 North, Range 10 West to prevent drainage by Atlantic #8, E/2 Section 24, Township 31 North, Range 10 West.

Very truly yours,

R. R. Spurrier Secretary and Director

RRS:ve

cc: U. S. Geological Survey (3)
Roswell, New Mexico

# OIL CONSERVATION COMMISSION 2. O. 30X 871 SANTA DEL NEW MEXICO

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for the Contract

# El Paso Natural Gas Company OFFICE OCC

TENTH FLOOR BASSETT TOWER

1954 APR 10 AM 9:28

El Paso, Texas

April 6, 1954

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Approved June 26, 1953
Revised Schedules First, Second.
Third Expanded Participating Areas,
Mesaverde Formation

### Gentlemen:

Pursuant to a recent directive of Mr. Thomas B. Nolan, Acting Director, United States Geological Survey, we are enclosing copies of a revised schedule for the First, Second, and Third Expanded Participating Areas for the Mesaverde Formation for the above numbered Unit Area. These schedules are to be substituted for those sent with our letters of August 13, September 11, and September 14, 1953, respectively.

The overall percentages shown on these schedules are the same as shown on the schedule attached to the letters mentioned above. However, an additional breakdown is given on this schedule to clarify the situation existing under Tract 29-B, only one-half of which is committed.

This is to further advise that the Initial Participating Area for the Mesaverde Formation under the above numbered Unit was approved by the Director, United States Geological Survey on September 28, 1953, by the Commissioner of Public Lands of the State of New Mexico on August 20, 1953, and by the Oil Conservation of the State of New Mexico on August 10, 1953, to be effective June 26, 1953, the approval date of the Unit Agreement.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S. Deason Lease Department

CSD/al cc: Attached List

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. N. Richey Phillips Petroleum Company Bartlesville, Oklahoma

Mr. C. T. McClure Anderson-Prichard Oil Corporation Liberty Bank Building Oklahoma City, Oklahoma

Mr. G. B. Jenkinson Stanolind Oil and Gas Company Box 591 Tulsa 2, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark
Three States Natural Gas Company
Corrigan Tower
Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. R. H. Love Wood River Oil and Refining Co. 321 West Douglas Wichita, Kansas Mr. Dudley Cornell
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1st National Bank Bldg.
Albuquerque, New Mexico

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Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milam Building San Antonio, Texas



## UNITED STATES DEPARTMENT OF THE INTERIOR

MAIN OFFICE OCC GEOLOGICAL SURVEY

1954 APR & All 8: 47 Reseals, New Mexico

April 6, 1954

El Paso Materal Gas Company Tenth Floor - Bassett Tower El Paso, Texas

Gentlemens

The plan of development dated March 25, 1954, for the San Juan 32-9 unit agreement, New Mexico, No. 14-08-060-569 for the calendar year 1954 has been approved on this date subject to like approval by the Commissioner of Public Lands, State of New Mexico, and the New Mexico Oil Commerciation Commission.

As far as development wells are conserned the plan appears adequate. However, your attention is invited to the fact that the W? sec. 13, T. 31 N., R. 10 N., is subject to draining by Weed River Oil and Refining Company's well No. 1 Malker located in the NE ? of said section 13 on lands not committed to the unit agreement. Ascerdingly, immediate steps should be taken to drill the mecessary effect well.

One approved copy of the plan is enclosed herewith.

Very truly yours.

JOHN A. AMBERGON Regional Old and Gas Supervisor

Englosure

Guy to: Come.Div., Wath. .C. (w/copy of Flan)
\_Oil Commerce ties Commission
Commissioner of Public Lends



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El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

March 5, 1954

MAR & 1954

Mr. R. R. Spurrier, Secretary Oil Conservation Commission State of New Mexico Santa Fe, New Mexico

Dear Mr. Spurrier:

Enclosed please find two copies of the 1954 Drilling Program on the San Juan 32-9 Unit. Please retain the executed copy of the letter for your files, and approve and return the other copy.

Very truly yours,

Samuel Smith Lease Department

SS:mp Encs.

## El Paso Natural Gas Company

### TENTH FLOOR BASSETT TOWER

El Paso, Texas

February 23, 1954

Mr. John A. Anderson Regional Supervisor United States Geological Survey Department of the Interior Post Office Building Roswell, New Mexico

Mr. E. S. Walker Commissioner of Public Lands State of New Mexico Santa Fe, New Mexico

Mr. R. R. Spurrier, Secretary Oil Conservation Commission State of New Mexico Santa Fe, New Mexico

Re: San Juan 32-9 Unit
No. 14-08-001-569
San Juan County, New Mexico
1954 Drilling Program

### Gentlemen:

On June 29, 1953, El Paso Natural Gas Company as Unit Operator filed a drilling program for the above Unit which covered the remainder of the calendar year 1953. This additional drilling program was not required at the time, as we were still drilling on our obligation wells, but it was our desire as Unit Operator to keep another rig drilling in the Unit. The following wells have now been completed upon the Unit.

Name	Drilling Tract	Initial Potential		
San Juan 32-9 #1 *	W/2 18-31-9	4,465 MCF		
San Juan 32-9 #2 *	E/2 30-32-9	600 MCF		
San Juan 32-9 #3 *	E/2 1-31-10	5,065 MCF		
San Juan 32-9 #4 *	E/2 12-31-10	6,160 MCF		
San Juan 32-9 #5	W/2 15~31-9	6,832 MCF		
San Juan 32-9 #6 **	E/2 15-31-9	3,020 MCF		
San Juan 32-9 #7 **	W/2 32-32-9	2,930 MCF		
San Juan 32-9 #8 **	E/2 20-32-9	1,260 MCF		
San Juan 32-9 #9 **	W/2 25-32-10	Waiting drilling in gas		

Page 2

Mr. John A. Anderson

Mr. E. S. Walker

Mr. R. R. Spurrier

February 23, 1954
Re: San Juan 32-9 Unit
1954 Drilling
Program

Name						Drilling Tract		Initial Potential
	San	Juan	32-9	#10	**	E/2	34-32-9	145 MCF
	San	Juan	32-9	#11	**	E/2	14-32-9	SI Gage
	San	Juan	32-9	#12		W/2	10-31-9	2,310 MCF
*	San	Juan	32-9	#13	**	E/2	14-31-10	5,020 MCF
	San	Juan	32-9	#14		E/2	9-31-9	1,646 MCF
	San	Juan	32-9	#15		₩/2	9-31-9	3,020 MCF

- \* Completed before Unit was approved.
- \*\* Seven Unit obligation wells.

All of the Unit obligation wells have now been completed except the #9 well, which has been drilled to the top of the pay and is awaiting drilling in gas to complete. Winter weather conditions and the location of this well have made it impossible for Unit Operator to provide the drilling in gas at the wellsite to complete this well. As soon as weather conditions permit, this well will be completed. In addition to the three wells completed when the Unit was approved (and to the seven obligation wells), Unit Operator has completed five additional Mesaverde wells.

El Paso Natural Gas Company as Unit Operator hereby respectfully requests the approval of a drilling program for the calendar year 1954 of eight wells to be drilled to the Mesaverde formation—such drilling program to constitute all of our drilling obligations for the calendar year. These proposed drilling sites are listed below as follows:

(1) E/2 Section 8 - 31N - 9W (2) W/2 Section 8 - 31N - 9W (3) W/2 Section 17 - 31N - 9W (4) E/2 Section 17 - 31N - 9W (5) E/2 Section 18 - 31N - 9W (6) E/2 Section 5 - 31N - 9W (7) W/2 Section 14 - 31N - 10W (8) W/2 Section 5 - 31N - 9W

It is El Paso Natural Gas Company's intention to drill all of these wells to the base of the Mesaverde formation, using rotary tools. Surface casing of 9-5/8" diameter will be set to approximately 172' and then a production string of 7" casing will be run down to the top of the Mesaverde formation. The Mesaverde formation will be drilled in with gas and then shot with nitroglycerin or treated with a sand-oil fracturing process. Due care will be taken to protect all horizons. All well locations will either be in the NE/4 or the SW/4 of the above drilling blocks.

Mr. John A. Anderson Re: San Juan 32-9 Unit 1954 Drilling Mr. E. S. Walker Mr. R. R. Spurrier Program If this drilling program is acceptable, please signify your approval of this drilling program as required under Section 10 of the Unit Agreement in the space provided below, and return an approved copy to El Paso Natural Gas Company. Yours very truly, EL PASO NATURAL GAS COMPANY By: C. L. Perkins
Vice President CLP:RLH:ms APPROVED: Date: Supervisor, United States Geological Survey Subject to like approval by the appropriate State officials. APPROVED: Date: \_\_\_\_\_ Commissioner of Public Lands Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

February 23, 1954

Date:

Page 3

APPROVED:

Oil Conservation Commission

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. F. Rood Phillips Petroleum Company Bartlesville, Oklahoma

Mr. C. T. McClure Anderson-Prichard Oil Corporation Liberty Bank Building Oklahoma City, Oklahoma

Mr. G. B. Jenkinson Stanolind Oil and Gas Company Box 591 Tulsa 2, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark
Three States Natural Gas Company
Corrigan Tower
Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams
The Atlantic Refining Co.
P. O. Box 2819
Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. R. H. Love Wood River Oil and Refining Co. 321 West Douglas Wichita, Kansas Mr. Dudley Cornell Albuquerque Associated Oil Company 1st National Bank Aldg. Albuquerque, New Mexico

Mr. Frank Gorham, Jr. Pubco Development, Inc. Box 1360
Albuquerque, New Mexico

Mr. Critchell Parsons
Beaver Lodge Oil Corporation
310 Mercantile Commerce Bldg.
Dallas, Texas

Mr. John S. Brown 220 Shelby Street Santa Fe, New Mexico

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milam Building Sar Antonio, Texas El Paso Natural Gas Company

#### TENTH FLOOR BASSETT TOWER

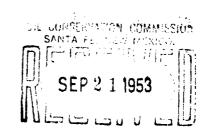
El Paso, Texas

September 14, 1953

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico



1 43

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Third Expanded Participating Area
Mesaverde Formation
Effective September 1, 1953

### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator determines that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon committed acreage to this unit and the participating area for the Mesaverde Formation is accordingly expanded.

### This well is as follows:

El Paso Natural Gas Company's San Juan 32-9 #6 (Riddle 6D), located 990' South of the North line and 1650' West of the East line of Section 15, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on July 6, 1953, reached a total depth of 5801', and was completed on August 26, 1953. The pay section between 5363' and 5801' was shot with 1007 quarts of nitroglycerine and after a three hour blow down the well gauged an IP of 3020 MCFGPD with an SIPC of 1094# and an SIPT of 1094#. The committed drilling block upon which this well is located is described as the E/2 of Section 15, Township 31 North, Range 9 West, N.M.P.M.

Attached is Schedule IV showing the Third Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the expanded participating area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefore, and in the absence of disapproval, this expanded participating area will become effective as of September 1, 1953.

Copies of this letter and schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S. Deason Lease Department

CSD: jaf

cc: Attached List

## El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

September 11, 1953



Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Duilding Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Second Expanded Participating Area
Mesaverde Formation
Effective August 1, 1953

### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator determines that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon committed acreage to this unit and the participating area for the Mesaverde Formation is accordingly expanded.

This well is as follows:

El Paso Natural Gas Company's San Juan 32-9 #5 (Riddle 5D), located 1650' North of the South line and 1700' East of the West line of Section 15, Township 31 North, Range 9 West, San Juan County, New Mexico. This well was spudded on May 31, 1953, reached a total depth of 5924', and was completed on July 13, 1953. The pay section between 5184' and 5924' was shot with 1685 quarts of nitroglycerine and after three hour blow down the well gauged an IP of 6832 MCFGPD with an SIPC of 1060# and an SIPT of 1072#. The committed drilling block upon which this well is located is described as the W/2 of Section 15, Township 31 North, Range 9 West, N.M.P.M.

Attached is Schedule III showing the Second Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the expanded participating area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefore, and in the absence of disapproval, this expanded participating area will become effective as of August 1, 1953

Copies of this letter and schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S. Deason/ Lease Department

CSD: jaf

cc: Attached List

Mr. R. F. Rood Land Department, San Juan Division Phillips Petroleum Company Phillips Building Bartlesville, Oklahoma

Mr. Dudley Cornell
Albuquerque Associated Oil Company
First National Bank Building
Albuquerque, New Mexico

Mr. Joseph C. Gordon Three States Natural Gas Company Corrigan Tower Dallas, Texas

Standlind Oil & Gas Company P. O. Box 1410 Fort Worth, Texas

Mr. Claude Williams
The Atlantic Refining Company
Atlantic Building
Dallas, Texas

Mr. Qui iman Davis Southern Union Gas Company Burt Building Dallas, Texas

The Standard Oil Company of Texas Box 1249 Houston, Texas

Mr. Frank D. Gorham, Jr. Pubco Development, Inc. Box 1360
Albuquerque, New Mexico

Mr. John S. Brown 220 Shelby Street Santa Fe, New Mexico

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico Mr. Tom Bolack 1010 North Dustin Farmington, New Mexico

Mr. Aaron L. Colvin Land Department Delhi Oil Corporation Corrigan Tower Dallas 1, Texas

Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Frank M. Jacobson Lucerne Corporation Mercantile Securities Building Dallas, Texas

Mr. C. C. Chapin
Wood River Oil & Refining Co.,
Inc.
321 West Douglas
Wichita, Kansas

### 20 ...

### TURNER, WHITE, ATWOOD, McLane and Francis

ATTORNEYS AND COUNSELORS AT LAW

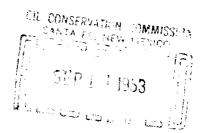
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J GLENN TURNER
W.D WHITE
FELIX ATWOOD
ALFRED E.MSLANE
EDWARD L FRANC S
JAMES B.FRANCIS
JULIAN M.MEER
TREVOR REES-JONES
HARRY S. WELCH
THOS. R.HARTNETT III
H.L.HITCHINS. JR.
WILLIAM L.M:INERNEY
WILLIAM G. WEBB
LEWIS CHANDLER

SNOWDEN M. LEFTWICH, JR. WILLIAM C. HERNDON, JR.

DALLAS I,TEXAS

August 31, 1953



Mr. R. R. Spurrier New Mexico Oil Conservation Commission Capitol Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit Agreement San Juan County, New Mexico

Dear Mr. Spurrier:

Please find enclosed herewith a fully conformed copy of the above captioned Unit Agreement, which was approved by the U.S. Geological Survey of the U.S. Department of the Interior on June 26, 1953. We likewise enclose herewith a fully conformed copy of the San Juan 32-9 Unit Operating Agreement, which has been filed for record with the U.S. Geological Survey. The above Unit Agreement was recorded on April 13, 1953 in Book 206, Page 121 et seq., of the County Records of San Juan County, New Mexico. The above Unit Operating Agreement was recorded April 13, 1953 in Book 206, Page 137 et seq., of the County Records of San Juan County, New Mexico.

You will note that certain of the ratifications by owners of overriding royalty interests lying within the unit area are not included within the conformed copy which is forwarded to you herewith. Only those ratifications and joinders which had been furnished to us at the time such Agreement was filed for final approval are included herewith as it is necessary for certain of the working interest owners to consent to and approve the ratification

Page #2 - August 31, 1953

Mr. R. R. Spurrier

of the Agreement by overriding royalty interest owners subsequent to its approval by the USGS. We will not furnish such ratifications to you until all of the working interest owners affected have so consented and approved such subsequent joinders. Upon filing of such subsequent joinders with the U.S. Geological Survey, we will, of course, forward conformed copies of same to you.

Yours very truly,

TURNER, WHITE, ATWOOD, McLANE and FRANCIS

William G. Webb

WGW:mch Encls.

### El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

August 13, 1953



Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capitol Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
First Expanded Participating Area
Mesaverde Formation
Effective July 1, 1953

### Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-9 Unit Agreement, No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company as Unit Operator determines that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon committed acreage to this unit and the participating area for the Mesaverde Formation is accordingly expanded.

### This well is as follows:

El Paso Natural Gas Company's San Juan 32-9 #4 (Lucerne), located 1650' South of the North line and 990' West of the East line of Section 12, Township 31 North, Range 10 West, San Juan County, New Mexico. This well was spudded on June 1, 1953, reached a total depth of 5864', and was completed on June 27, 1953. The pay section between 5260' and 5784' was shot with 1401 quarts of nitroglycerine and after three hour blow down the well gauged 6160 MCFGPD with SIPC of 1062#. The committed drilling block upon which this well is located is described as the E/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M.

Attached is Schedule II showing the First Expanded Participating Area for the Mesaverde Formation for the San Juan 32-9 Unit Area. This describes the expanded participating area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefore, and in the absence of disapproval, this expanded participating area will become effective as of July 1, 1953.

Copies of this letter and schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S. Deason

CSD: jaf

TENTH FLOOR BASSETT TOWER

El Paso, Texas

August 4, 1953

Mr. John A. Anderson Regional Supervisor United States Geological Survey P. O. Box 997 Roswell, New Mexico

Re: San Juan 32-9 Unit
San Juan County, New Mexico
NOTICE OF DISCOVERY (REVISED)

OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO.

Dear Mr. Anderson:

Pursuant to Section 11, paragraph 2, of the above Unit Agreement you are hereby informed of the discovery of unitized substances in paying quantities from the Mesaverde formation.

As of June 26, the effective date of this Unit Agreement, there were three wells already completed in the Mesaverde formation. These three wells are as follows:

- (1) The San Juan 32-9 #l well (formerly El Paso Natural Gas Company's Pritchard #4-3 well) located 1650' north of the south line and 790' east of the west line of Section 18, T-31-N, R-9-W. This well was completed August 8, 1952, at a total depth of 5950'. The entire Mesaverde Section was shot with approximately two quarts of nitroglycerin per foot. The top of the Cliff House was encountered at 5222', the top of the Menefee at 5361' and top of the Point Lookout at 5702'. The well was gauged at 4,465,000 cu.ft. of gas per day on a 6-hour open flow test. The shut in pressure on the casing was 653# and the shut in pressure on the tubing was 1077#. This well is presently producing into El Paso Natural Gas Company's pipeline system.
- (2) The San Juan 32-9 #3 well (formerly Three States Natural Gas Company's C. Lester Linder #1 well) located in the NE/4 NE/4 of Section 1, T-31-N, R-10-W. This well was completed in the Mesaverde formation on May 25, 1953. The well was tested on June 5, 1953 and made an initial potential of 5,056,000 cu.ft. of gas per day natural. The well was not shot with nitroglycerin. The shut in pressure on the tubing was 1072# and the shut in pressure on the casing was 1075#. The well is presently shut in.

Page 2 Mr. John A. Anderson August 4, 1953

(3) The San Juan 32-9 #13 well (formerly the El Paso Natural Gas Company and L. C. Kelly's Kelly #2-A) located in the SW/4 NE/4 of Section 14, T-31-N R-10-W. This well was completed on March 27, 1953 in the Mesaverde formation. The top of the Cliff House was encountered at 4873', the top of the Menefee at 5006' and the top of the Point Lookout at 5376'. The well made 517 MCF natural, and after shot with 1485 quarts of nitroglycerin, was gauged on April 6, 1953, by a 6-hour test at 5,020,000 cu.ft. of gas per day. The shut in pressure on the tubing was 1075 psig and the shut in pressure on the casing was 1077 psig. This well is presently producing into El Paso Natural Gas Company's pipeline system.

The drilling blocks upon which these wells are located are the W/2 of Section 18, T-31-N R-9-W; the E/2 of Section 1, T-31-N R-10-W; and the E/2 of Section 14, T-31-N R-10-W. The first two of these drilling blocks are fully committed, while the third drilling block (E/2 Sec.14-31-10) is only partially committed. Pursuant to the above mentioned Section 11 of the Unit Agreement, it is determined by El Paso Natural Gas Company, Unit Operator, that these three wells are capable of producing unitized substances in paying quantities.

There are two other completed commercial wells within the Unit Area, but the leases upon which they are located are not folly committed to the Unit. These are Wood River Oil and Refining Company, Inc. Walker #1 well, located in the NE/4 of Section 13, T-31-N R-10-W, and the Anderson Prichard Oil Company, et al, Johnston #7 well, located in the NE/4 of Section 7, T-31-N R-9-W.

El Paso Natural Gas Company, as Unit Operator, does not believe that the San Juan 32-9 #2 well (formerly the Three States Natural Gas Company's Nordhaus #1 well) located in the SE/4 of Section 30, T-32-N R-9-W, is presently a commercial well. This well was completed on September 20, 1952, with an initial potential of only 600,000 cu.ft. of gas per day and a shut in pressure of only 875#. Also, on June 26, 1953, there were two wells being drilled upon this Unit--the San Juan 32-9 #4 well (formerly the El Paso Natural Gas Company and Bolack Oil Company Lucerne #1 well) located in the NE/4 of Section 12, T-31-N R-10-W, and the San Juan 32-9 #5 well (formerly the El Paso Natural Gas Company Riddle #5-D well) located in the SW/4 of Section 15, T-31-N R-9-W. These wells should both be completed within the very near future.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Hamblin

R. L. Hamblin

Lease Department

RLH: ms

cc: Oil Conservation Commission State of New Mexico

E. S. Walker, Commissioner of Public Lands State of New Mexico

Attached List

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. F. Rood Phillips Petroleum Company Bartlesville, Oklahoma

Mr. C. T. McClure Anderson-Prichard Oil Corporation Liberty Bank Building Oklahoma City, Oklahoma

Mr. G. B. Jenkinson Stanolind Oil and Gas Company Box 591 Tulsa 2, Oklahoma

Mr. Howard W. McDade Southern Union Gas Company 1104 Burt Building Dallas, Texas

Miss Margaret Clark
Three States Natural Gas Company
Corrigan Tower
Dallas, Texas

Mr. Aaron L. Colvin Delhi Oil Corporation Corrigan Tower Dallas, Texas

Mr. F. M. Jacobson Lucerne Corporation Mercantile Security Bldg. Dallas, Texas

Mr. Claude A. Williams The Atlantic Refining Co. P. O. Box 2819 Dallas 1, Texas

Mr. E. W. Lewis The Texas Company Drawer 1720 Fort Worth, Texas

Mr. H. H. Kuester Standard Oil Company of Texas Box 1249 Houston, Texas

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Mr. Frank Gorham, Jr. Pubco Development, Inc. Box 1360
Albuquerque, New Mexico

Mr. Critchell Parsons
Beaver Lodge Oil Corporation
310 Mercantile Commerce Bldg.
Dallas, Texas

Mr. John S. Brown 220 Shelby Street Santa Fe, New Mexico

Mr. T. H. McElvain 220 Shelby Street Santa Fe, New Mexico

Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milam Building San Antonio, Texas El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas August 4, 1953

1/ /

**DIL CONSERVATION COMMISSION** SANTA FE, NEW MEXICO.

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands State of New Mexico Capitol Annex Building Santa Fe. New Mexico

Oil Conservation Commission State of New Mexico Capitol Annex Building Santa Fe, New Mexico

San Juan 32-9 Unit No.14-08-001-569 San Juan County, New Mexico Request for Approval of Revised Initial Participating Area Mesaverde Formation To be effective June 26, 1953

Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 32-9 Unit Agreement No.14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Revised Initial Participating Area for the Mesaverde formation. On this same date we are sending out our Notice of Discovery of unitized substances as of June 26, 1953, the effective date of the Unit Agreement.

The Revised Initial Participating Area contains 725.96 acres and is composed of three (3) drilling blocks, with three (3) discovery wells located thereon as follows:

Well Drilling Block Acres

W/2 Section 18, T-31-N, R-9-W (1) San Juan 32-9 #1 205.80

This well is located in the SW/4 of this section. It was completed August 8, 1952, at a total depth of 5950. On a six-hour open flow test this well gauged an initial potential of 4,465 MCFGPD with SIPC of 653 psig and SIPT of 1,077 psig.

Page 2 Director, U.S.G.S. Commissioner of Public Lands Oil Conservation Commission August 4, 1953

Well Drilling Block Acres

(2) San Juan 32-9 #3

E/2 Section 1, T-31-N, R-10-W

320.16

This well is located in the NE/4 of this section. It was completed on May 25, 1953 at a total depth of 6005. On a three-hour open flow test this well gauged an initial potential of 5,056 MCFGPD with SIPC of 1,075 psig and SIPT of 1,072 psig.

(3) San Juan 32-9 #13

E/2 Section 14, T-31-N, R-10-W

200.00

This well is located in the NE/4 of this section. It was completed on April 6, 1953 at a total depth of 5555. On a six-hour open flow test this well gauged an initial potential of 5,020 MCFGPD with SIPC of 1,077 psig and SIPT of 1,075 psig.

Attached hereto is our Schedule I legally describing the proposed participating area showing the percentage of unitized substances to be allocated to each unitized tract and also showing the exact breakdown of the percentages so allocated to each tract according to the various ownerships in said tract. We are also attaching a map, Exhibit "A", showing the location of these wells and the outline of this Revised Initial Participating Area.

If this Revised Initial Participating Area meets with your approval, please indicate such approval in the space provided on said Schedule I and return an approved copy for our files.

Copies of this letter are being sent to all the Working Interest Owners, as indicated on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Hamelin

R. L. Hamblin

Lease Department

RLH:ms Encl. Copies of the foregoing letter have been sent to the following Working Interest Owners:

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Mr. Forrest B. Miller 220 Shelby Street Santa Fe, New Mexico

Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milam Building San Antonio, Texas

SCHEDULE I
REVISED INITIAL PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 32-9 UNIT AREA

			SF 078430		SERIAL NUMBER
	E/ 4 W/ 4	Lots 1,2,3, & 4,	T-31-N,R-9-W		DESCRIPTION
		& 4 <b>,</b>	205.80		NUMBER OF ACRES
ORRI Owner: Robert Storey, Jr.; TOTAL	El Paso Natural Gas Co.;	United States of America;	D care I for Changes	Tract 6	OWNERSHIP AND PERCENTAGE
1,00%	86.50%	12.50%			
1,00%	86.50%	12,50%			PERCENTAGE COMMITTED
28 34 9% 28 34867%	24,52160%	3.54358%	28,34867%		PERCENTAGE OF PARTICIPATION

San Juan 32-9 #1 Well

SCHEDULE I REVISED INITIAL PARTICIPATING AREA FOR THE MESAVERDE FORMATION SAN JUAN 32-9 UNIT AREA

		S/2 NE/4, SE/4	Sec. 1: Lots 1 & 2,	SF 078507 T-31-N,R-10-W 320.16		SERIAL NUMBER DESCRIPTION NUMBER OF ACRES
ORRI Owner: C. L. Linder, et al; TOTAL	Working Interest Owner: El Paso Natural Gas Co.;	United States of America;	Royalty Owner:		Tract 9	OWNERSHIP AND PERCENTAGE
3.00% 100.00%	84.50%	12.50%				
3,00%	84.50%	12.50%				PERCENTAGE COMMITTED
1,32305% 44,10160%	37.26585%	5.51270%		44.10160%		PERCENTAGE OF PARTICIPATION

San Juan 32-9 #3 Well

SCHEDULE I REVISED INITIAL PARTICIPATING AREA FOR THE MESAVERDE FORMATION SAN JUAN 32-9 UNIT AREA

	Mf 01594		NM 0608	SERIAL NUMBER
(240 acres - 1/2 committed)	T-31-N,R-10-W 120.00 Sec. 14: NE/4, N/2 SE/4		T-31-N,R-10-W 80.00 Sec. 14: S/2 SE/4	DESCRIPTION NUMBER OF ACRES
Working Interest Owner: El Paso Natural Gas Co.; ORRI Owner: William Mansfield, et al; TOTAL	Tract 29 A  Royalty Owner: United States of America;	Working Interest Owner: El Paso Natural Gas Co.; ORRI Owner: San Juan Easin Pool; TOTAL	Royalty Owner: United States of America;	OWNERSHIP AND PERCENTAGE Tract 29
r: 0.; 84.50% al; 3.00% 100.00%	12.50%	85.50% 2.00% 100.00%	12.50%	
84.50% 00% 97.00%	12.50%	85.50% 2.00% 100.00%	12.50%	PERCENTAGE COMMITTED
13.96771% .49590% 16.52984%	16.52984% 2.06623%	9.42200% .22040% 11.01989%	11.01989% 1.37749%	PERCENTAGE OF PARTICIPATION

San Juan 32-9 #13 Well

# RECAPITULATION

Township 31 North, Range 10 West, N.M.P.M. Section 1: E/2
Section 14: E/2

committed: Percent of Working Interest and Royalty Interest Total number of acres in Participating Area:

100,00% 725.96

Approved. 1953

appropriate State Officials, ef-Subject to like approval by the Sec. 11 of the Unit Agreement. to the pertinent provisions of fective June 26, 1953, pursuant

Approved

States Geological Survey and Oil Conservation Commission of the State of Subject to like approval by the United pursuant to the pertinent provisions New Mexico, effective June 26, 1953, of Sec. 11 of the Unit Agreement.

Approved\_

1953

Il of the Unit Agreement. to the pertinent provisions of Sec. effective June 26, 1953, pursuant Lands of the State of New Mexico, and the Commissioner of Public United States Geological Survey Subject to like approval by the

State of New Mexico Commissioner of Public Lands of the

Geological Survey

Director - United States

Oil Conservation Commission of the State of New Mexico



#### UNITED STATES

DEPARTMENT OF THE INTERIOOK CONSERVATION COMMISSION SANTA FE, NEW MEXICO.

GEOLOGICAL SURVEY

P. O. Box 6721 Roswell, New Maxico JUL 2 3 1953

2000 4 49

El Paso Natural Gas Company Tauth Floor Bassett Tower El Paso, Texas

Attention: Mr. R. L. Humblin

Contlemen:

Your drilling program dated June 29, 1953, proposing the drilling of seven wells in the remainder of the calendar year 1953 in addition to the seven obligatory wells under the San Juan 32-9 unit agreement, 12-08-002-569, San Juan County, New Maxico, has been approved on this date subject to the approval by the Commissioner of Public Lands, State of New Maxico, and the New Maxico Oil Conservation Commission.

One approved copy of the program is enclosed.

Very truly yours,

JOHN A. ANDERSON Regional Oil and Ges Supervisor

#### Inclosure

Copy to: Commissioner of Public Lands, Santa Fe, N. Mex.
Oll Conservation Commission, Santa Fe, N. Mex.



## UNITED STATES DEPARTMENT OF THE INTERIOR CONSIDER OF A SERVE SERVE OF A SERVE.

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## OIL CONSERVATION COMMISSION P. O. BOX 871

SANTA FE, NEW MEXICO

July 14, 1953

El Paso Natural Gas Company Tenth Floor Bassett Tower El Paso, Texas

Attention: Lease Department

Gentlemen:

Enclosed herewith Drilling Program for Remainder of Calendar Year 1953 for San Juan 32-9 Unit, San Juan County, New Mexico approved as of this date.

Very truly yours,

R. R. Spurrier Secretary-Director

C Encl Agricultural Architectural Company

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#### OL CONSERVATION COMMISSI N P. O. BOX 871

#### SANTA FE, NEW MEXICO

July 14, 1953

El Paso Natural Gas Company Tenth Floor Bassett Tower El Paso, Texas

Attention: Charles S. Deason, Lease Department

Gentlemen:

Re: San Juan 32-9 Unit No. 14-08-001-569

San Juan County, New Mexico Request for Approval of Initial

Participating Area - Mesaverde Formation

To Be Effective June 26, 1953

Request as referred to in caption above herewith returned approved as of this date.

Very truly yours,

R. R. Spurrier Secretary-Director

Encl.

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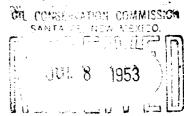
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### El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

June 29, 1953



Mr. John A. Anderson Regional Supervisor United States Geological Survey Department of the Interior Post Office Building Roswell, New Mexico

Mr. E. S. Walker Commissioner of Public Lands State of New Mexico Santa Fe, New Mexico

Mr. R. R. Spurrier, Secretary Oil Conservation Commission State of New Mexico Santa Fe, New Mexico

Re: San Juan 32-9 Unit
San Juan County, New Mexico
DRILLING PROGRAM FOR REMAINDER OF
CALENDAR YEAR 1953

#### Gentlemen:

Pursuant to Section 10 of the above Unit Agreement, El Paso Natural Gas Company as Unit Operator hereby requests approval of a drilling program for the balance of the calendar year 1953, which will be in addition to the obligation wells as set out in the Unit Agreement.

Under Section 9 of this Unit Agreement, we were required to drill seven wells to test the Mesaverde formation. Of these seven wells, one well located in the NE/4 of Section 14, T-31-N, R-10-W has already been completed. However, L. C. Kelly who has an undivided 1/2 interest in this well, has refused to commit his interest in NM-01594 and therefore it is our belief that this site cannot qualify as one of the obligation wells. Therefore, we request that we be allowed to drill this obligation well upon the SW/4 of Section 8, T-31-N, R-9-W. This will then be an offset well to the Johnston #7 well in the NE/4 of Section 7, T-31-N, R-9-W, which well is not committed to the Unit.

To assure rapid development of this Unit, El Paso Natural Gas Company, as Unit Operator, would like to keep another rig drilling in this Unit besides the one that will be drilling the obligation wells. We feel that this is necessary to protect the Unit from drainage from the uncommitted wells in the southern portion of the Unit. Therefore, we earnestly request that, in addition to the obligation wells which will still be drilled in accordance with the terms of the Unit Agreement, we be given permission to drill the following locations within the calendar year 1953:

Page 2 Mr. John A. Anderson Mr. E. S. Walker Mr. R. R. Spurrier June 29, 1953

RLH:ms

1	 NE/4 Section 8, T-31-N, R-9-W
2	 NE/4 Section 9, T-31-N, R-9-W
3	 SW/4 Section 9, T-31-N, R-9-W
4	 SW/4 Section 10, T-31-N, R-9-W
5	 NE/4 Section 17, T-31-N, R-9-W
6	 SW/4 Section 17, T-31-N, R-9-W
7	 NE/4 Section 18, T-31-N, R-9-W

Copies of this request are being sent to all working interest owners for their consideration. If this drilling program is acceptable, please signify your approval of this drilling program as required under Section 10 of the Unit Agreement in the space provided for below and return an approved copy to El Paso Natural Gas Company.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Lease Department

APPROVED	Supervisor, U. S. Geological Survey	Date
	Subject to like approval by the appropria	te State officials.
APPROVED		Date
	Commissioner of Public Lands Subject to like approval by the U.S.G.S.	and Oil Conservation Commission.
APPROVED	001 110,5008	Date 14 3 uly 5=
	Oil Conservation Commission	
	Subject to Like approval by the U.S.G.S.	and Commissioner of Public Lands.

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. F. Rood Phillips Petroleum Company Bartlesville, Oklahoma

Mr. C. T. McClure Anderson-Prichard Oil Corporation Liberty Bank Building Oklahoma City, Oklahoma

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Mr. Tom Bolack 1010 N. Dustin Farmington, New Mexico

Mr. H. H. Phillips 306 Milam Building San Antonio, Texas

## El Paso Natural Gas Company

#### TENTH FLOOR BASSETT TOWER

El Paso, Texas

June 29, 1953

PLEASE RETURN TO EL PASO NATURAL GAS COMPANY LEASE DEPARTMENT

Director United States Geological Survey Department of the Interior Washington, D. C.

Commissioner of Public Lands of the State of New Mexico Capital Annex Building Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico Capital Annex Building Santa Fe, New Mexico

Re: San Juan 32-9 Unit No. 14-08-001-569
San Juan County, New Mexico
Request for Approval of Initial
Participating Area - Mesaverde Formation
To Be Effective June 26, 1953

#### Gentlemen:

Pursuant to the provisions of Section 11 (a) of the San Juan 32-9 Unit Agreement No. 14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Initial Participating Area for the Mesaverde Formation. On this same date we are sending out our Notice of Discovery of unitized substances as of June 26, 1953, the effective date of the Unit Agreement.

The Initial Participating Area contains 525.96 acres and is composed of two (2) drilling blocks with two (2) discovery wells located thereon as follows:

Township 31 North Range 9 West

 Well
 Drilling Block
 Acres

 1 - San Juan 32-9 #1
 W/2 Section 18
 205.80

This well is located in the SW/4 of this section. It was completed August 8, 1952, at a total depth of 5,950. On a six hour open blow test this well gauged an IP of 4,465 MCFGPD with SIPC of 653# and SIPT of 1,077#.

#### Township 31 North, Range 10 West

Well <u>Drilling Block</u>

2 - San Juan 32-9 #3

E/2 Section 1

320.16

Acres

This well is located in the NE/4 of this section. It was completed on May 25, 1953 at a total depth of 6,005. On a three hour open blow test this well gauged an IP of 5,056 MCFGPD with SIPC of 1,075# and SIPT of 1,072#.

Attached hereto is our Schedule I legally describing the proposed participating area showing the percentage of unitized substances to be allocated to each unitized tract and also showing the exact breakdown of the percentages so allocated to each tract according to the various ownerships in said tract. We are also attaching a map, Exhibit "A", showing the location of these wells and the outline of this Initial Participating Area.

If this Initial Participating Area meets with your approval, please indicate such approval in the space provided on said Schedule I and return an approved copy for our files.

Copies of this letter are being sent to all the Working Interest Owners, as indicated on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles S. Deason Lease Department

csd:jaf encls. Copies of the foregoing letter have been sent to the following Working Interest Owners:

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Mr. H. H. Phillips 306 Milam Building San Antonio, Texas

### El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

June 26, 1953

OIL CONSERVATION COMMISSION ANTA FE, NEW MEXICO. JUL 8 1953

Mr. John A. Anderson Regional Supervisor United States Geological Survey P. O. Box 997 Roswell, New Mexico

Re: San Juan 32-9 Unit San Juan County, New Mexico NOTICE OF DISCOVERY

Dear Mr. Anderson:

Pursuant to Section 11, paragraph 2, of the above Unit Agreement you are hereby informed of the discovery of unitized substances in paying quantities from the Mesaverde formation.

As of June 26, the effective date of this Unit Agreement, there were two committed wells already completed in the Mesaverde formation. These two committed wells are as follows:

- (1) The San Juan 32-9 #1 well (formerly El Paso Natural Gas Company's Pritchard #4-3 well) located 1650' north of the south line and 790' east of the west line of Section 18, T-31-N, R-9-". This well was completed August 8, 1952, at a total depth of 5950. The entire Mesaverde Section was shot with approximately two quarts of nitroglycerin per foot. The top of the Cliff House was encountered at 5222', the top of the Menefee at 5361' and top of the Point Lookout at 5702. The well was gauged at 4,465,000 cu.ft. of gas per day on a 6-hour open flow test. The shut in pressure on the casing was 653# and the shut in pressure on the tubing was 1077#. This well is presently producing into El Paso Natural Gas Company's pipeline system.
- (2) The San Juan 32-9 #3 well (formerly Three States Natural Gas Company's C. Lester Linder #1 well) located in the NE/4 NE/4 of Section 1, T-31-N, R-10-W. This well was completed in the Mesaverde formation on May 25, 1953. The well was tested on June 5, 1953 and made an initial potential of 5,056,000 cu.ft. of gas per day natural. The well was not shot with nitroglycerin. The shut in pressure on the tubing was 1072# and the shut in pressure on the casing was 1075#. The well is presently shut in.

The drilling blocks upon which these wells are located are the W/2 of Section 18. T-31-N, R-9-W and the E/2 of Section 1, T-31-N, R-10-W. These two drilling blocks are fully committed to the Unit Agreement and pursuant to the above mentioned Section 11 of the Unit Agreement, it is determined by El Paso Natural Gas Company, Unit Operator, that these two wells are capable of producing unitized substances in paying quantities.

Page 2 Mr. John A. Anderson June 26, 1953

There are three other completed commercial wells within the Unit Area but the leases upon which they are located are not fully committed to the Unit. These wells are the El Paso Natural Gas Company's and L. C. Kelly's Kelly #2-A well located in the NE/4 of Section 14, T-31-N, R-10-W, the Wood River Oil and Refining Company, Inc. Walker #1 well located in the NE/4 of Section 13, T-31-N, R-10-W, and the Anderson Prichard Oil Company, et al, Johnston #7 well located in the NE/4 of Section 7, T-31-N, R-9-W.

El Paso Natural Gas Company as Unit Operator does not believe that the San Juan 32-9 #2 well (formerly the Three States Natural Gas Company's Nordhaus #1 well) located in the SE/4 of Section 30, T-32-N, R-9-W is presently a commercial well. This well was completed on September 20, 1952 with an initial potential of only 600,000 cu.ft. of gas per day and a shut in pressure of only 875#. Also on June 26, 1953 there were two wells being drilled upon this Unit, the San Juan 32-9 #4 well (formerly the El Paso Natural Gas Company and Bolack Oil Company Lucerne #1 well) located in the NE/4 of Section 12, T-31-N, R-10-W, and the San Juan 32-9 #5 well (formerly the El Paso Natural Gas Company Riddle #5-D well) located in the SW/4 of Section 15, T-31-N, R-9-W. These wells should both be completed within the very near future.

Yours very truly,

EL PASO NATURAL GAS COMPANY

R. L. Hamblin

Lease Department

RLH: ms

cc: Oil Conservation Commission State of New Mexico

> E. S. Walker, Commissioner of Public Lands State of New Mexico

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Mr. R. F. Rood Phillips Petroleum Company Bartlesville, Oklahoma

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Mr. H. H. Phillips 306 Milam Building San Antonio, Texas

#### OIL CONSERVATION COMMISSION

P. O. BOX 871

#### SANTA FE, NEW MEXICO

April 8, 1953

Mr. William G. Webb
Turner, Atwood, White, McLane & Francis
1711 Mercantile Bank Building
DALLAS 1 - TEXAS

Dear Sir:

We attach two copies of Oil Conservation Commission Order R-309 issued in Case 498, El Paso Matural Cas Company's request for approval of the San Juan 32-9 Unit Area.

These have been signed by a quorum of the Commission's member-ship.

Very truly yours,

WBM/NF-

W. B. Macoy Chief Engineer

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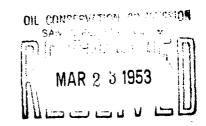
#### TURNER, ATWOOD, WHITE, MCLANE AND FRANCIS

ATTORNEYS AND COUNSELORS AT LAW

SUITE ITH MERCANTILE BANK BUILDING

DALLAS I, TEXAS

March 20, 1953



New Mexico Oil Conservation Commission State Land Office Capitol Building Santa Fe. New Mexico

Gentlemen:

J GLENN TURNER

TREVOR REES JONES WM.V. COUNTS HARRY S. WELCH THOS R. HARTNETT III. H. L. HITCHINS, JR WILLIAM L. McINERNEY WILLIAM G. WEBB JULIAN M. MEER

FELIX ATWOOD

W D WHITE ALFRED E.MSLANE EDWARD L. FRANCIS JAMES B. FRANCIS

Please find enclosed herewith five copies of Order of the Oil Conservation Commission in the Matter of the Application of E1 Paso Natural Gas Company for an order approving a proposed Unit Agreement for the development and operation of the San Juan 32-9 Unit Area. This Application was heard by the Commission on March 17, 1953 at its regular hearing in Santa Fe and was submitted to the Commissioner of Public Lands for his approval and signature. The State Land Commissioner has approved such Order and has signed same. however, due to a misunderstanding the Order was not circulated to the other members of the Commission, namely the Hon. Edwin L. Mechem and the Hon. R. R. Spurrier for their approval and signature. If you will kindly secure signature of Governor Mechem and Mr. Spurrier on said Order and return same to us we will greatly appreciate the courtesy.

Yours very truly,

TURNER, WHITE, ATWOOD, MCLAME AND FRANCIS

WGW:jco Enclosures

the constant

#### February 19, 1953

Mr. C. L. erkins Ml aso Natural Ges company Bassett Town El Paso, Texas

> Ser Juan 32-9 Unit Agreement San Juan County, New Mexico

Deer Sir.

32-9 Unit Agreement in San Juan County, New Mexico. An examination of the application discloses that the proposed form of agreement follows closely agreements pregiously approved by this office and at this time I have no objection thereto; however, after a meaning before the Uil Conservation Commission of which I am a member and the evidence offered is such that the proposed San Juan 32-9 Unit Agreement is acceptable, I will thereafter execute a formal Certificate of Ap roval.

Very truly yours,

E. J. MIKER Commission or of abl c Lends

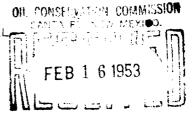
ce: U. S. Geological Survey
Sowell, New Mexico (3)
Ol: Conservation Commission
Santa Fe, New Mexico (1)

.

JONES, HARDIE, GRAMBLING & HOWELL

ATTORNEYS AND COUNSELORS AT LAW SEVENTH FLOOR BASSETT TOWER EL PASO, TEXAS

February 11,1953



Case 498

R. R. Spurrier, Secretary Oil Conservation Commission Santa Fe, New Mexico

Dear Mr. Spurrier:

CYRUS H. JONES

THORNTON HARDIE

WILLIAM B. HARDIE JOHN A. GRAMBLING

R.H. FEUILLE

ALLEN R. GRAMBLING

Attached is a copy of Unit Agreement and Unit Operating Agreement covering proposed San Juan 32-9 Unit of which El Paso Natural Gas Company will be operator. The Unit Agreement is now being circulated for signature. Tentative approval of the form of the Unit Agreement and approval of the area included within the unit and of the drilling program submitted has been obtained as to federal lands from United States Geological Survey.

It is requested that the Commission set down for hearing at its regular session on March 17 the attached application.

With best personal regards,

Ben R. Howell

s att.

#### MERIDIAN OIL

October 14, 1993

193 00 14 FM 9 **15** 

Bureau of Land Management State Director 1474 Rodeo Rd. Santa Fe, NM 87504

RE: SAN JUAN 32-9 UNIT AREA

FRUITLAND COAL PARTICIPATING AREA

INITIAL THRU 9TH EXPANSION SAN JUAN COUNTY, NEW MEXICO

Gentlemen:

Under cover dated May 12, 1993, Meridian Oil Inc, Operator of the San Juan 32-9 Unit Area, submitted to the Bureau of Land Management, Farmington District the Initial thru 9th Expansion of the Fruitland Coal Participating Area for said Unit. The submittal (copy attached) evaluated fifty-seven (57) wells on a drillblock basis:

Non Commercial Wells 3
Commercial Wells 46
IDB (Commercial Status Not Analyzed) 8
57

Prior to submitting the commercialty determination to the BLM, Meridian had reviewed the submittal with all affected drillblock owners, and all owners in the Unit concurred with Meridian's economic/commercialty evaluation.

Under cover dated September 16, 1993 (copy attached) the District Office returned the Initial thru 9th Expansions to Meridian, unapproved. The District Office's evaluation concluded that six (6) additional wells should be deemed non-commercial. Upon further evaluation and with additional production history, Meridian concurs with the BLM's evaluation that the San Juan 32-9 Unit #209 and #228 are non-commercial and probably should not be included in the Participating Area. However, Meridian's review of the submitted data and additional production profile support the commercialty of the San Juan 32-9 Unit #104, #270, #274 and #284. Meridian has not evaluated drillblock ownership in these six (6) wells to determine projected Participating Area interests.

Attached for your review and comment is the economic evaluation submitted to the District office in May 1993, and additional production and economic data on the four (4) wells, which Meridian believes meet all commercialty requirements. In addition, enclosed is a brief engineering, operational and geologic discussion of the San Juan 32-9 Unit, Fruitland Coal program. Since all Working Interest Owners will benefit by the approval of the Participating Area, Meridian requests your expeditious review of the enclosed documentation. Any technical questions you have may be addressed to Mr. Jay Knaebel at (505) 326-9892.

Respectfully,

Kent Beers,

Regional Land Manager

KB:JZ/lr octiz/8

xc: Commission of Public Lands

New Mexico Oil Conservation Division

Unit Owners - Unit File

#### SAN JUAN 32-9 FRUITLAND COAL PARTICIPATING AREA

Amoco Production Company
John S. Brown, Jr.
Conoco Inc.
Devon Energy Corporation
El Paso Production Company
Koch Industries, Inc.
T. H. McElvain Oil & Gas Limited Partnership
Meridian Oil Production Inc.
Phillips Petroleum Company
James M. Raymond
Southland Royalty Company
Texaco Exploration & Production Inc.
Williams Production Company

#### **Engineering Discussion**

There are two reasons for the difference in commerciality status between the BLM and MOI with respect to these four wells. Farmington's BLM office used different gas and particularly different water production profiles from what Meridian Oil is anticipating. Also, there is some discrepancy on what initial investment date should be used for the commerciality determination.

Most of the Fruitland coal wells within the San Juan 32-9 Unit lie inside the over pressure envelope (OPE) of the Fruitland coal in the San Juan Basin. Generally, wells within the OPE experience high water to gas ratios initially. Over time, de-watering takes place in the cleat system and the water production declines since the coal is not an aquifer and is not in contact with an aquifer. As de-watering takes place, gas production will incline due to a large change in gas relative permeability within the cleat system. The gas relative permeability increases because as reservoir pressure drops, methane diffuses and desorbs from the coal matrix into the cleat system increasing the gas saturation in the cleat system.

Eventually, as water saturations are reduced and reservoir pressures begin to drop, the gas production will flatten then decline. This type of performance has been exhibited consistently by Fruitland coal wells within the OPE. The attached production plot for the Amoco operated State BX Com #1 located west of the San Juan 32-9 Unit in 32N-10W, Section 32, demonstrates this performance profile over an extended period of time. In addition, plots of various Allison Unit Fruitland coal wells have been included. Allison wells were also initially low gas volume producers but they have improved greatly over time as the reservoir dewaters and gas production inclines.

This inclining-flat-decline model was used by Meridian Oil for commerciallity determinations on wells lying within the OPE in the San Juan 32-9 Unit. The wells being appealed all lie within the OPE as their initial shut-in pressures indicate (see attached BLM data sheet for initial bottom hole pressures). Gas production was doubled from initial stabilized rates over a two year time frame. The production was then held flat for two years then declined at 15%. This gas production profile approximates the State BX Com #1 well's production to date. The attached "Gas In Place Calculations" table shows a comparison of estimated ultimate recoveries derived from the described production profile and volumetric gas in place (GIP) calculations. The recovery factors are very low and probably conservative. Also note, twelve wells with EUR's less than 1.2 BCF, by Meridian Oil's reserve estimation, have been deemed commercial, with two having lower EUR's than the number 104 well.

In Fruitland coal reservoirs, water is stored in the cleat system and is not replenished from the coal matrix or aquifers. Water production will decline over time for two reasons: first, reservoir pressure will drop with the removal of water from the cleat system and second, gas inflow into the cleats from the coal matrix will reduce the water relative permeability. Thus water production was forecasted using a water-to-gas yield based on actual yields to date and an anticipated decline in water production.

Presently, some of the wells are not exhibiting this ideal gas and water production profile. Operating conditions are constantly changing and deviations from the profile are discussed in the operations discussion below.

As described earlier, development of the Fruitland coal in the San Juan 32-9 Unit began well in advance of the completion of the gathering system. To ensure proper sizing of the equipment, the gathering system was not designed until a majority of the wells were completed. The gathering system consists of a gas gathering pipeline, a central delivery point to the Val Verde coal gas plant, a water gathering pipeline and a subsurface disposal facility including a water disposal well. The Unit owners agreed upon installing a Unit owned gathering system for the gas and water production since it was more economic for the Unit as a whole. The economic benefit

was derived from lower costs to gather the gas, plus lower operating expenses associated with the water production.

Since first deliveries of the wells connected to the gathering system could not take place until the system was installed, MOI believes delays in production of over six months is not a reasonable delay in first delivery. The Unit benefits as a whole from installation of the gathering system and wells drilled early in the program should not be penalized by the long wait between investment and first production. Under other circumstances it is conceivable the wells would have been 1st delivered on a more timely basis, no matter the completion date. For example, if the wells produced low CO2 and little water, the wells could have been tied into conventional gas gathering systems already in place. It was not known until after most of the completions were done, however, that most wells would not be able to utilize the conventional gathering systems because of CO2 limitations imposed by transportation companies in the San Juan Basin.

With that in mind, some clarification is needed on the rules governing investment date when extended shut ins are required after initial development. In this particular case, Meridian Oil believes delays in production of six months or less is reasonable. When economics are run using a six month shut in period instead of actual shut in periods, rate of return and profit to investment increases for all four wells.

With Meridian Oil's production profile, all four wells are commercial. By changing the investment date to a more reasonable time relative to first delivery, all wells greatly surpass the criteria needed for commerciality. Attached are printouts of the economic input and results using actual investment dates. Meridian Oil uses Aries for economic analysis, as does the Farmington BLM office, and is assuming the State BLM office does also. If clarification is needed on better understanding Meridian's economic assumptions, feel free to contact us at anytime. Also enclosed are standard BLM data sheets Meridian supplies with all commerciality filings. These data sheets summarize much of the data needed for economic analysis. Also enclosed is all data supplied with Meridian's initial filing with the district office.

#### **Operations Discussion**

Viewing the attached production curves for the disputed wells, it is apparent not all wells are performing ideally at this point in time. Although it is of concern to Meridian Oil that the wells are not performing as anticipated, it should not be used as a sole source of predicting the future potential of the wells. Looking at the wells mentioned above in Cedar Hill and Allison Unit, it is apparent production does fluctuate over short periods of time, but overall gas production inclines through the initial life of the well and water production declines throughout the life of the well.

All four of the wells are currently producing with progressive cavity pumps (PCP) to aid in the lifting of water. Utilization of the pumps has been successful in the San Juan 32-9 Unit and other parts of the San Juan Basin, including Allison Unit. The dramatic increase in production in the #284 (see attached production plot) is primarily due to the installation of a PCP in March of 1993. The well is now optimized and gas and water production has increased since the installation. A PCP was installed in numbers 274, 104 and 270 in March, 1992, March 1993 and March, 1993, respectively.

Generally, PCP's have increased gas and water production when installed in Fruitland coal wells. In time, however, the pump stator may deteriorate, impeding lifting capacity. Or in other cases, the liner may begin to plug with coal fines if drawn down too hard. These problems and others can be remedied with an expense workover. But other times, the reservoir won't respond right away, such was the case with the number 284 well. Late time daily data on the attached production curve for number 284 shows gas rates have increased to 800 mcf/d. The reason for this type of response is not readily understood, but given time, the well did respond. It is expected that over time the other wells will respond favorably also.

Flat or inclining water should not be interpreted as a long term trend for reasons discussed in the engineering discussion. Recent increases in water production are probably associated with the corresponding PCP installations or increased optimization in the field. Meridian Oil anticipates water production will decline throughout the life of the well and continued optimization will only accelerate water production decline, not extend it.

One other major operational incident for all four wells in dispute is the long shut in period last winter. The winter was very wet and many wells throughout the basin needed to be shut in due to their inaccessibility. It has been observed that these long shut ins adversely affect wells temporarily, especially new coal wells within the OPE. This may be due to an additional dewatering phase after returning the well to production. It is apparent that numbers 104 and 274 have not fully recovered from the long shut in, while numbers 284 and 270 have recovered. Meridian Oil anticipates all wells will recover.

### **Geologic Discussion**

A comparison of the coal was made in these four wells to offset commercial wells. The only notable difference is changes in net feet from well to well. All wells have similar coal composition to their immediate offsets.

Numbers 284 and 270 has similar net feet of coal, but have much less than other offsetting wells. Yet with as much as 32' difference in net pay compared to offsets, both numbers 270 and 284 are performing extremely well. Number 104 is very similar to offsetting commercial well number 273. Number 274 is not located near any wells in the current expansions, although the coal is very similar to the number 276 which will be filed later this year.

Meridian Oil feels there is no major geologic reason for these wells to perform dramatically different from their commercial offset wells.

San Juan 32-9 Unit Commerciality Appeal Gas in Place Calculations

San Juan 32-9 Unit 274 San Juan 32-9 Unit 284	San Juan 32-9 Unit San Juan 32-9 Unit	Well Name and Numb		
274 284	104 270	<u>je</u>		
60 60	<b>48</b>	I <b>‡</b>	Thickness	Coal
605 500	700 700	scf/ton to	Content	Gas
1960 1960	1960 1960	ton/acre-ft	Density	Coal
320 320				Drainage
14,799 18,816				
1,795 2,316	937 1.367	mmcf	EUR	Performance
12.13% 12.31%	4.45% 5.19%	percent	Factor	Recovery

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### MERIDIAN OIL COMMERCIALITY DETERMINATION BLM DATA SHEET

FOR LEASE: SAN JUAN 32-9 UNIT #104

### **WELL INFORMATION:**

# PRODUCTION TAXES: GAS % OF

Printed: 10/14/93 09:36

				GAS % Ur
LOCATION	032N010W24G			REVENUE
COUNTY	SAN JUAN	SEVERANCE	(NM)	3.75%
	NM	SCHOOL	(NM)	3.15%
FORMATION	BASIN (FRUITLAND COAL)	AD VALOREM	(NM)	1.04%
OPERATOR	MERIDIAN OIL INC	CONSERVATION	(NM)	0.18%
SPUD DATE	10/30/89	PROD. EQUIP.	(NM)	0.19%
CMPL DATE	11/30/89	TOTAL		8.31%
1ST DLVRY	03/11/92			
GWI	100 00 %			

### PRESSURE DATA:

NRI

### **WELL COST DATA:**

Date: 03/30/92 TOTAL WELL COST: WHSIP: 1280 (PSIG) PAYOUT YEARS: BHSIP: (PSIG)

355.3 (M\$)

21.9

### **AVERAGE PRODUCT PRICING:**

87.50%

PRI/GAS 1992 - \$1.24(MCF)

Based on an average heating value of

930 MMBTU/MCF.

### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

		ANNUAL PROI	DUCTION	OPE	RATING EXPE	NSES
	GAS	$\mathbf{OIL}$	WATER	BASE	WATER	TOTAL
YEARS	(MMCF)	(MBO)	(MBW)	(M\$)	(M\$)	(M\$)
1989	0.0	0.0	0.0	0.0	0.0	0.0
1 <b>990</b>	0.0	0.0	0.0	0.0	0.0	0.0
1 <b>991</b>	0.0	0.0	0.0	0.0	0.0	0.0
1992	32.5	0.0	12.3	4.5	18.5	23.0
1993	51.7	0.0	11.4	5.3	17.2	22.4
1994	95.7	0.0	13.7	5.4	20.5	25.9
1995	95.7	0.0	8.2	5.1	12.3	17.4
1996	94.8	0.0	4.9	4.9	7.3	12.2
1997	83.7	0.0	2.6	4.8	3.9	8.7
1998	71.1	0.0	1.3	4.7	2.0	6.7
1999	60.4	0.0	0.7	4.7	1.0	5.7
2000	51.4	0.0	0.3	4.7	0.5	5.2
2001	43.7	0.0	0.2	4.7	0.3	5.0
2002	37.1	0.0	0.1	4.7	0.1	4.8
2003	31.6	0.0	0.0	4.7	0.1	4.8
2004	26.8	0.0	0.0	4.7	0.0	4.7
2005	22.8	0.0	0.0	4.7	0.0	4.7
2006	19.4	0.0	0.0	4.7	0.0	4.7
2007	16.5	0.0	0.0	4.7	0.0	4.7
2008	14.0	0.0	0.0	4.7	0.0	4.7
2013	10.4	0.0	0.0	4.3	0.0	4.3

NOTE: Economics were run at a discount rate of 8.50%

\*Base operating expenses were held flat @ \$390/mo. (\$271/mo. for dry wells). Water disposal costs were also held flat @ \$1.55/Bbl.

SAN JUAN 32-9 UNIT, 104 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM

200-045-15828A

DATE : 10/14/93 TIME : 09:30:34 DBS FILE : COMX SETUP FILE : SJ329X2 SEQ NUMBER : 319

PUT DATA
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CALCULATED DATA

									• // -			
I TEM	SCHEDULIN			SCHEDULE			RE	ULTIMATE	LAST	EFF. DECL	INIT. RATE	FINAL RATE
401 START	03/92											
406 GAS	3472.00	X	M/M	01/93	AD	FLAT	.00	34.720	12/92		3472.	3472.
411 "	1.00	X	M/M	04/93	AD	FLAT	.00	34.723			1.	1
416 "	3472.00	X	M/M	08/93	AD	FLAT	.00	48.611	7/93		3472.	3472
21 "	4663.70	X	M/M	05/95	AD	EXP	-42.64	184.404	4/95	-42.64	4664.	8683
426 "	8418.50	X	M/M	05/97	AD	FLAT	.00	386.448	4/97		8419.	8419
431 "	8418.50	X	M/M	552.51	IMU	EXP	15.00	938.958	11/10	15.00	8419.	936
436 START	03/92											
441 WTR/GAS	.49	.0	0 B/M	07/2009	AD	LOG	TIME		6/09			
446 NET/WI	100.00	D	%	TO	LIFE	FLAT	.00		11/10		1.000	1.00
456 NET/NI	87.50	D	%	TO	LIFE	FLAT	.00		11/10		.875	.87
466 NET/NI	87.50	D	%	то	LIFE	FLAT	.00		11/10		.875	.87
501 OPC/T	390.00	x	\$/M	то	LIFE	FLAT	.00		11/10		390.000	390.00
502 PRI/WT	1.55	х	\$/B	TO	LIFE	FLAT	.00		11/10		1.550	1.55
503 PRI/GA	s 1.33	X	\$/M	TO	LIFE	FLAT	.00		11/10		1.330	1.33
504 STX/GA	s 8.30	8.3	0 %	TO	LIFE	PC	.00		2/92		.083	.08.
INVESTMENT				TIME		PROCEDUR		TOTAL T&I			TOT. T&I&R	ESC. T&I&
801 CAPITA	L 185.20			11/89			••••	355.300			355.3	355.3
RESERVE PA			I T <b>EM</b>			ITEM						
201 LOSS	OK			• • • • • • • • • • • • • • • • • • • •				• ••••••				·
203 CUMO, 1	MB .00		CUMG, MMF	.00		CUML, MB						
206 WELLS	.00		1.	00								
211 BTU	.93											

### PROJECT ASSUMPTIONS

SAN JUAN 32-9 UNIT, 104 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045-15828A

### DATE: 10/14/93 TIME: 09:30:34 DBS: COMX FILE: SJ329X2 SEQ: 319

### RESERVES AND ECONOMICS

AS OF DATE: 1/1/1989

PERIOD ENDING	12/89	12/90	12/91	12/92	12/93	12/94	12/95	12/96	12/97	12/98	s tot	AFTER	21.9 YR TOTAL
OWNERSHIP													
1) WORKING INTEREST, % 2) REVENUE INTEREST, %	.000	.000	.000		100.000 87.500							100.000 87.500	
INVESTMENTS, M\$													
7) 00000000 0401741	0	•	•					_	_	_		_	
3) BORROWED CAPITAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4) EQUITY INVESTMENTS 5) RISK	355.3	.0	.0	.0	.0	.0	.0		.0	.0		.0	355.3
7) TOTAL	.0 355.3	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 355.3	.0 .0	.0 355.3
GAS PHASE													
12) CDDCC CAC MME	0	0	•	7/ 7	70.0	77.0	400.4	404.0					078.6
12) GROSS GAS, MMF 13) NET GAS, MMF	.0	.0	.0	34.7	39.0	77.9	100.1	101.0	97.5	83.7	533.9	405.0	939.0
14) GAS REVENUE, MS	.0 .0	.0 .0	.0	30.4	34.1	68.2	87.6	88.4	85.3	73.2	467.2	354.4	821.6
15) GAS PRICE, \$/MCF	.000	.000	0. 000.	37.6 1.237	42.2 1.237	84.3 1.237	108.3 1.237	109.3 1.237	105.5 1.237	90.6 1.237	577.9 1.237	438.3 1.237	1016.2 1.237
ECONOMICS, MS													
20) GROSS REV. TO INTR.	.0	.0	.0	37.6	42.2	84.3	108.3	109.3	105.5	90.6	577.9	438.3	1016.2
21) - SEV. TAX	.0	.0	.0	3.1	3.5	7.0	9.0	9.1	8.8	7.5	48.0	36.4	84.3
22) - WPT TAX PAID	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0
24) - AD VALOREM TAX	.0	.0	.0	.0	.0	.0	.0			.0			.0
25) - OPERATING COSTS	.0	.0	.0	25.6	19.0	23.5	19.6			7.6	119.3	58.9	178.3
26) - CAPITAL REPAYMENT	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
27) - INTEREST PAID	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
28) + NPI OWNED - PAID	.0	.0	.0	.0	.0		.0			.0			.0
29) = NET INCOME	.0	.0	.0	8.9	19.7	53.9	79.7		86.6	75.5	410.6	343.0	753.6
30) - INVESTMENTS & RSK	355.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	355.3	.0	355.3
31) = BFIT NET	-355.3	.0	.0	8.9	19.7	53.9				75.5	55.3	343.0	398.3
PRESENT WORTH a 8.50 %													
32) NET INCOME	.0	.0	.0	6.6	13.5	33.8	45.9	45.6	42.1	33.7	221.0	108.7	329.7
33) INVESTMENTS & RISK	331.0	.0	.0	.0	.0								331.0
34) BFIT NET	-331.0	.0	.0	6.6	13.5	33.8				33.7			-1.3
35) CUM BFIT NET	-331.0	-331.0	-331.0	-324.4	-311.0					-110.0			-1.3

SAN JUAN 32-9 UNIT, 104 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045-15828A

DATE: 10/14/93 TIME: 09:30:34 DBS: COMX FILE: SJ329X2 SEQ: 319

### ECONOMIC INDICATORS

AS OF DATE: 1/1/1989

A.F.I.T.

A.F.I.T.

B.F.I.T.

	WORTH	WORTH	BONUS
	M\$	M\$	
PRESENT WORTH PROFIL RATE-OF-RETURN VS. B			
KATETUFTRETURN VS. D	ONUS TABLE		
0.	398.314	242.971	398.314
5.	117.051	56.630	74.560
7.	43.654	7.484	9.360
9.	-1.258	-22.730	-27.570
10.	-39.080	-48.269	-57.069
15.	-127.326	-108.236	-120.553
20.	-177.285	-142.404	-153.052
25.	-204.910	-161.245	-169.455
35.	-225.146	-174.345	-178.785
45.	-223 <b>.7</b> 31	-171.830	-174.176
55.	-213.841	-163.004	-164.258
65.	-200.7 <del>99</del>	-151.772	-152.455
75.	-186.891	-139.875	-140.255
85.	-173.131	-128.118	-128.333
100.	-153.669	-111.493	-111.587
RATE OF RETURN, PCT.	8.5	7.4	
UNDISCOUNTED PAYOUT,	YRS. 9.27	9.42	
DISCOUNTED PAYOUT, Y	rs. 21.92	21.92	
UNDISCOUNTED NET/INV	/EST. 2.12	1.68	
DISCOUNTED NET/INVES	ST. 1.00	.93	

NOTES

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### **MERIDIAN OIL COMMERCIALITY DETERMINATION BLM DATA SHEET**

SAN JUAN 32-9 UNIT # 270 FOR LEASE:

### **WELL INFORMATION:**

**PRODUCTION TAXES:** 

Printed: 10/14/93 09:36

				GAS % UF
LOCATION	032N009W18A			<b>REVENUE</b>
COUNTY	SAN JUAN	SEVERANCE	(NM)	3.75%
STATE	NM	SCHOOL	(NM)	3.15%
FORMATION	BASIN (FRUITLAND COAL)	AD VALOREM	(NM)	1.04%
OPERATOR	MERIDIAN OIL INC	CONSERVATION	(NM)	0.18%
SPUD DATE	09/09/90	PROD. EQUIP.	(NM)	0.19% 8.31%
CMPL DATE	09/30/90	TOTAL		8.31%
1ST DLVRY	04/01/92			

GWI 100.00% NRI 87.50%

### PRESSURE DATA:

BHSIP:

**WELL COST DATA:** 

Date: 10/16/90 TOTAL WELL COST: 355.3 (M\$) WHSIP: 800 (PSIG) **PAYOUT YEARS:** 8.0

## **AVERAGE PRODUCT PRICING:**

1623 (PSIG)

PRI/GAS 1992 - \$1.24(MCF)

Based on an average heating value of

930 MMBTU/MCF.

### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

	<b>ESTIMATED</b>	ANNUAL PROD	UCTION	OPI	ERATING EXPE	NSES
YEARS	GAS (MMCF)	OIL (MBO)	WATER (MBW)	BASE (M\$)	WATER (M\$)	TOTAL (M\$)
1990	0.0	0.0	0.0	0.0	0.0	0.0
19 <del>9</del> 1	0.0	0.0	0.0	0.0	0.0	0.0
1992	15.6	0.0	9.3	4.0	13.9	17.9
1993	54.4	0.0	15.2	5.4	22.9	28.3
1994	100.4	0.0	13.4	5.3	20.1	25.4
1995	138.3	0.0	8.4	5.1	12.6	1 <b>7.7</b>
1 <b>996</b>	146.5	0.0	4.1	4.9	6.2	11.0
1997	144.5	0.0	1.8	4.8	2.8	7.5
1 <b>998</b>	126.4	0.0	0.7	4.7	1.1	5.8

NOTE: Economics were run at a discount rate of 9.00%

Water disposal costs were also held flat @ \$1.55/Bbl.

<sup>\*</sup>Base operating expenses were held flat @ \$390/mo. (\$271/mo. for dry wells).

SAN JUAN 32-9 UNIT, 270 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045-5025A DATE : 10/14/93
TIME : 09:29:39
DBS FILE : COMX
SETUP FILE : SJ329X1

SEQ NUMBER : 353

### INPUT DATA CALCULATED DATA

												••
ITEM	SCHEDULIN			SCHEDULE		PROCEDU		ULTIMATE		EFF. DECL	INIT. RATE	FINAL RATE
401 START	04/92											
406 GAS	1931.00	x	M/M	11/92	AD	FLAT	.00	13.517	10/92		1931.	1931.
411 "	4.00	X	M/M	02/93	AD	FLAT	.00	13.529	1/93		4.	4.
·16 "	1931.00	X	M/M	07/93	AD	FLAT	.00	23.184	6/93		1931.	1931
21 "	5505.50	X	M/M	08/93	AD	EXP	-186.10	28.938	7/93	-186.10	5506.	6010
26 "	6019.70	X	M/M	08/95	AD	EXP	-42.42	239.011	7/95	-42.42	6020.	12210
31 "	12210.00	X	M/M	08/97	AD	FLAT	.00	532.050	7/97		12210.	12210
436 "	12210.00	X	M/M	829.47	7 IMU	EXP	15.00	1361.515	2/13	15.00	12210.	976.
441 START	04/92											
446 WTR/GAS	.79	.06	D B/M	x	AD	LOG	TIME		2/13			
451 NET/WI	100.00	D	%	то	LIFE	FLAT	.00		2/13		1.000	1.000
461 NET/NIC	87.50	D	%	TO	LIFE	FLAT	.00		2/13		.875	.87
471 NET/NIG	87.50	D	%	TO	LIFE	FLAT	.00		2/13		.875	.875
501 OPC/T	390.00	X	\$/M	το	LIFE	FLAT	.00		2/13		390.000	390.000
502 PRI/WTR	1.55	x	\$/B	TO	LIFE	FLAT	.00		2/13		1.550	1.550
503 PRI/GAS	1.33	X	\$/M	то	LIFE	FLAT	.00		2/13		1.330	1.330
504 STX/GAS	8.30	8.3	0 %	то	LIFE	PC	.00		3/92		.083	.083
INVESTMENT	TANGIBLES			TIME		PROCEDI		TOTAL T&I			TOT. T&I&R	
BO1 CAPITAL	185.20			09/90	AD	*****	• • • • • • • • • • • • • • • • • • • •	355.300	9/90		355.3	
RESERVE PARA			ITEM			ITEM						
201 LOSS	OK							• •				,
203 CUMO, MB	.00		CUMG, MMF	.00		CUML, MB						
206 WELLS	.00		1.			•					•	
211 BTU	.93											

### PROJECT ASSUMPTIONS

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SAN JUAN 32-9 UNIT, 270 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045- 5025A

### DATE: 10/14/93 TIME: 09:29:39 DBS: COMX FILE: SJ329X1 SEQ: 353

### RESERVES AND ECONOMICS

AS OF DATE: 1/1/1990

PERIOD ENDING	12/90	12/91	12/92	12/93	12/94	12/95	12/96	12/97	12/98	12/99	s tot	AFTER	23.2 YR TOTAL
OWNERSHIP													
1) WORKING INTEREST, % 2) REVENUE INTEREST, %	.000	.000					100.000 87.500		100.000 87.500			100.000 87.500	
INVESTMENTS, M\$													
3) BORROWED CAPITAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4) EQUITY INVESTMENTS	355.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	355.3	.0	355.3
5) RISK	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
7) TOTAL	355.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	355.3		355.3
GAS PHASE													
12) GROSS GAS, MMF	.0	.0	13.5	47.8	100.4	138.3	146.5	144.5	126.4	107.4	824.9	536.6	1361.5
13) NET GAS, MMF	.0	.0	11.8	41.9	87.9	121.0	128.2	126.4	110.6	94.0	721.8	469.6	1191.3
14) GAS REVENUE, M\$	.0	.0	14.6	51.8	108.7	149.7	158.6	156.4	136.8	116.3	892.8	580.8	1473.5
15) GAS PRICE, \$/MCF	.000	.000	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237
ECONOMICS, M\$													
20) GROSS REV. TO INTR.	.0	.0	14.6	51.8	108.7	149.7		156.4	136.8				1473.5
21) - SEV. TAX	.0	.0	1.2	4.3	9.0	12.4	13.2	13.0	11.4	9.6		48.2	122.3
22) - WPT TAX PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0				.0
24) - AD VALOREM TAX	.0	.0	.0	.0	.0	.0			.0				.0
25) - OPERATING COSTS	.0	.0	3.5	4.7	4.7				4.7				97.9
26) - CAPITAL REPAYMENT	.0	.0	.0	.0	.0	.0	.0		.0				.0
27) - INTEREST PAID 28) + NPI OWNED - PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0				.0
29) = NET INCOME	.0 .0	.0 .0	.0 9.9	.0 42.8	.0 95.0	.0 132.6							1257 /
30) - INVESTMENTS & RSK	355.3	.0					140.7	-	120.7				1253.4 355.3
31) = BFIT NET	-355.3	.0		.0 42.8	.0 95.0	.0 132.6	.0 140.7	.0 1 <b>38.</b> 7	.0 120.7	.0 101.9			898.1
PRESENT WORTH @ 9.00 %													
32) NET INCOME	.0	.0	7.8	31.2	63.4	80.8	78.4	70.7	56.2	43.4	432.0	137.4	569.4
33) INVESTMENTS & RISK	334.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	334.6	.0	334.6
34) BFIT NET	-334.6	.0	7.8	31.2	63.4	80.8	78.4	70.7	56.2	43.4	97.3	137.4	234.8
35) CUM BFIT NET	-334.6	-334.6	-326.8	-295.5	-232.2	-151.3	-72.9	-2.2	54.0	97.3	97.3	234.8	234.8

SAN JUAN 32-9 UNIT, 270 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045- 5025A

### DATE: 10/14/93 TIME: 09:29:39 DBS: COMX FILE: SJ329X1 SEQ: 353

### AFTER TAX ECONOMICS

AS OF DATE: 1/1/1990

PERIOD ENDING	12/90	12/91	12/92	12/93	12/94	12/95	12/96	12/97	12/98	12/99	s tot	AFTER	23.2 YR TOTAL
TAX TREATMENT OF INVESTM	ENTS, MS												
1) EXP, RISK & CAP INT	170.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	170.1	.0	170.1
2) DEPLETABLE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3) DEPRECIABLE	185.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	185.2	.0	185.2
TAX CALCULATIONS, M\$													
4) GROSS REV. TO INTR.	.0	.0	14.6	51.8	108.7	149.7	158.6	156.4	136.8	116.3	892.8	580.8	1473.5
5) - SEVERANCE TAX	.0	.0	1.2	4.3	9.0	12.4	13.2	13.0	11.4	9.6	74.1	48.2	122.3
6) - WPT TAX NET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7) - OPR. COSTS & ATX	.0	.0	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	36.3	61.6	97.9
8) + NPI OWNED - PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9) - OVERHEAD	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10) - EXPENSED INV.	170.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	170.1	.0	170.1
11) - DEPRECIATION	.0	.0	26.4	45.4	32.4	23.1	16.5	16.5	16.5	8.3	185.2	.0	185.2
12) = NET	-170.1	.0	-16.5	-2.6	62.6	109.4	124.2	122.2	104.2	93.7	427.1	471.0	898.1
13) - DEPLETION	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14) - INTEREST PD & CAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15) = TAXABLE	-170.1	.0	-16.5	-2.6	62.6	109.4	124.2	122.2	104.2	93.7	427.1	471.0	898.1
16) * TAX RATE, %	39.0	.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
17) - TAX CREDIT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18) - WPT REFUND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19) = F.I.T.	-66.3	.0	-6.4	-1.0	24.4	42.7	48.4	47.7	40.6	36.5	166.6	183.7	350.2
20) REVENUE-SEV-WPT	.0	.0	13.4	47.5	99.7	137.2	145.4	143.4	125.4	106.6	818.7	532.6	1351.2
21) - OPR. COSTS & ATX	.0	.0	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	36.3	61.6	97.9
22) + NPI OWNED - PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23) - F.I.T.	-66.3	.0	-6.4	-1.0	24.4	42.7	48.4	47.7	40.6	36.5	166.6	183.7	350.2
24) = A.F.I.T.	66.3	.0	16.4	43.8	70.6	89.9	92.3	91.1	80.1	65.4	615.8	287.3	903.1
25) - LOAN REPAYMENT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	Q,	.0	.0
26) - INTEREST PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27) = NET INCOME	66.3	.0	16.4	43.8	70.6	89.9	92.3	91.1	80.1	65.4	615.8	287.3	903.1
28) - INVESTMENTS & RSK	355.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	355.3	.0	355.3
29) = A.F.I.T. NET	-289.0	.0	16.4	43.8	70.6	89.9	92.3	91.1	80.1	65.4	260.5	2 <b>87.3</b>	547.8
PRESENT WORTH a 9.00 %													
30) NET INCOME	63.4	.0	12.9	72 A	<b>/7</b> 1	E/ 0	E4 /	14.1	77 7	27.0	777 2	07.0	/F7 ^
31) INVESTMENTS & RISK	334.6			32.0	47.1	54.8	51.4	46.4	37.3	27.8	373.2	83.8	457.0
32) A.F.I.T. NET	-271.2	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	334.6	.0	334.6
33) CUM. A.F.I.T. NET		-271.2	12.9	32.0	47.1	54.8	51.4	46.4	37.3	27.8	38.6	83.8	122.4
JJ) COM. M.F.I.I. NEI	-211.2	-211.2	-258.3	-226.3	-179.2	-124.4	-72.9	-26.5	10.7	38.6	38.6	122.4	122.4

SAN JUAN 32-9 UNIT, 270 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045- 5025A

DATE: 10/14/93 TIME: 09:29:39 DBS: COMX FILE: SJ329X1 SEQ: 353

### ECONOMIC INDICATORS

AS OF DATE: 1/1/1990

	B.F.I.T. WORTH M\$	A.F.I.T. WORTH M\$	A.F.I.T. Bonus M\$
PRESENT WORTH PROFILE			
RATE-OF-RETURN VS. BC	NUS TABLE		
0.	898.056	547.814	898.056
5.	452.276	262.725	348.156
7.	332.173	185.365	233.580
9.	234.765	122.393	148.306
10.	193.039	95.347	113.658
15.	36.462	-6.592	-7.402
20.	-60. <i>7</i> 52	-70.276	-76.094
25.	-122.138	-110.610	-117.001
35.	-185.620	-152.098	-156.705
45.	-209.150	-166.736	-169.569
55.	-214.463	-168.882	-170.572
65.	-211.082	-164.964	-165.971
75.	-203.510	-158.084	-158.691
85.	-193.996	-149.828	-150.199
100.	-178.477	-136.592	-136.774
RATE OF RETURN, PCT.	16.9	14.7	
UNDISCOUNTED PAYOUT,	YRS. 6.53	6.74	
DISCOUNTED PAYOUT, YE	RS. 8.04	8.71	
UNDISCOUNTED NET/INVE	ST. 3.53	2.54	
DISCOUNTED NET/INVEST	1.70	1.37	

NOTES

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### MERIDIAN OIL COMMERCIALITY DETERMINATION BLM DATA SHEET

FOR LEASE: SAN JUAN 32-9 UNIT #274

**WELL INFORMATION:** 

**PRODUCTION TAXES:** 

Printed: 10/14/93 09:42

			GAS % Ur
032N009W28H			<b>REVENUE</b>
SAN JUAN	SEVERANCE	(NM)	3.75%
NM	SCHOOL	(NM)	3.15%
BASIN (FRUITLAND COAL)	AD VALOREM	(NM)	1.04%
MERIDIAN OIL INC	CONSERVATION	(NM)	0.18%
11/22/90	PROD. EQUIP.	(NM)	0.19% <b>8.31%</b>
04/10/91	TOTAL		8.31%
03/17/92			
	032N009W28H SAN JUAN NM BASIN (FRUITLAND COAL) MERIDIAN OIL INC 11/22/90 04/10/91 03/17/92	SAN JUAN SEVERANCE NM SCHOOL BASIN (FRUITLAND COAL) MERIDIAN OIL INC CONSERVATION 11/22/90 PROD. EQUIP. 04/10/91 TOTAL	SAN JUAN         SEVERANCE         (NM)           NM         SCHOOL         (NM)           BASIN (FRUITLAND COAL)         AD VALOREM         (NM)           MERIDIAN OIL INC         CONSERVATION         (NM)           11/22/90         PROD. EQUIP.         (NM)           04/10/91         TOTAL

GWI 100.00% NRI 87.50%

PRESSURE DATA:

**WELL COST DATA:** 

Date: 04/25/91 TOTAL WELL COST: 341.8 (M\$) WHSIP: 1432 (PSIG) PAYOUT YEARS: 5.8

BHSIP: 1620 (PSIG)

**AVERAGE PRODUCT PRICING:** 

PRI/GAS 1992 - \$1.24(MCF)

Based on an average heating value of

930 MMBTU/MCF.

### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

	<b>ESTIMATED</b>	ANNUAL PROI	DUCTION	OPERATING EXPENSES					
	GAS	OIL	WATER	BASE	WATER	TOTAL			
YEARS	(MMCF)	(MBO)	(MBW)	(M\$)	(M\$)	(M\$)			
1 <b>991</b>	0.0	0.0	0.0	0.0	0.0	0.0			
1 <b>992</b>	35.0	0.0	8.9	4.3	13.3	17.7			
1993	37.1	0.0	3.5	4.9	5.2	10.1			
1 <b>994</b>	74.4	0.0	3.2	4.8	4.8	9.7			
1995	71.8	0.0	1.2	4.7	1.9	6.6			
1 <b>996</b>	61.7	0.0	0.4	4.7	0.6	5.3			

NOTE: Economics were run at a discount rate of 9.00%

<sup>\*</sup>Base operating expenses were held flat @ \$390/mo. (\$271/mo. for dry wells). Water disposal costs were also held flat @ \$1.55/Bbl.

SAN JUAN 32-9 UNIT, 274 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045-5391A

PROJECT ASSUMPTIONS

DATE : 10/14/93
TIME : 09:31:30
DBS FILE : COMX
SETUP FILE : SJ329X3
SEQ NUMBER : 374

	INPUT DATA							CALCULATED DATA						
ITEM		NG RATES		SCHEDULE		PROCEDU		ULTIMATE	LAST	EFF. DECL	INIT. RATE	FINAL RATE		
401 START	03/92													
406 GAS	3495.50	3495.50	M/M	02/93	AD	FLAT	.00	38.450	1/93		3496.	3496.		
411 "	673.00	673.00	M/M	5/93	AD	FLAT	.00	40.469	4/93		673.	673.		
416 "	1698.00	1698.00	M/M	8/93	AD	FLAT	.00	45.563	7/93		1698.	1698.		
421 "	3954.20	X	M/M	08/95	AD	EXP	-42.42	183.555	7/95	-42.42	3954.	8020.		
426 "	8020.50	X	H/M	08/97	AD	FLAT	.00	376.047	7/97		8021.	8021.		
431 "	8020.50	X	M/M	523.49	IMU	EXP	15.00	899.539	11/10	15.00	8021.	931.		
436 START	03/92													
441 WTR/GAS	.97	.00	В/М	06/2004	AD	LOG	TIME		5/04					
446 NET/WI	100.00	D	%	TO	LIFE	FLAT	.00		11/10		1.000	1.000		
456 NET/NIC	87.50	D	%	TO	LIFE	FLAT	.00		11/10		.875	.875		
466 NET/NIG	87.50	D	%	TO	LIFE	FLAT	.00		11/10		.875	.875		
501 OPC/T	390.00	X	\$/M	то	LIFE	FLAT	.00		11/10		390.000	390.000		
502 PRI/WTR	1.55	х	\$/B	то	LIFE	FLAT	.00		11/10		1.550	1.550		
503 PRI/GAS	1.33	X	\$/M	TO	LIFE	FLAT	.00		11/10		1.330	1.330		
504 STX/GAS	8.30	8.30	1 %	то	LIFE	PC	.00		2/92		.083	.083		
INVESTMENT		ES & INTA		TIME		PROCEDU		TOTAL T&I			TOT. T&I&R			
801 CAPITAL		170.10	M\$G	04/92				341.800	4/92		341.8			
RESERVE PARA			ITEM			ITEM								
201 LOSS	0 <b>K</b>	•		••										
203 CUMO, MB	.00	) (	UMG, MMF	.00		CUML, MB								
206 WELLS	.00	כ	1.	00		•					4-			
211 BTU	.93													

SAN JUAN 32-9 UNIT, 274 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045- 5391A

DATE: 10/14/93 TIME: 09:31:30 DBS: COMX FILE: SJ329X3 SEQ: 374

### RESERVES AND ECONOMICS

AS OF DATE: 1/1/1991

													19.9 YR
PERIOD ENDING	12/91	12/92	12/93	12/94	12/95	12/96	12/97	12/98	12/99	12/00	S TOT	AFTER	TOTAL
OWNERSHIP					••••	••••							
1) HORKING INTEREST %	000	100 000	100 000	100 000	400 000	***	400.000	400 000	400 000	400 000	400 000		
<ol> <li>WORKING INTEREST, %</li> <li>REVENUE INTEREST, %</li> </ol>	.000								100.000 87.500				
INVESTMENTS, M\$													
3) BORROWED CAPITAL	.0	.0	.0	.0	0	0	0	0	0	0	•	•	0
4) EQUITY INVESTMENTS	.0		.0	.0	.0 .0		.0 .0	.0 .0	.0 .0	.0 .0		.0	.0 341.8
5) RISK	.0		.0	.0	.0		.0	.0	.0	.0		.0	.0
7) TOTAL	.0		.0	.0	.0	.0	.0	.0	.0	.0		.0	341.8
GAS PHASE													
12) GROSS GAS, MMF	.0	35.0	31.9	66.0	90.8	96.2	94.9	83.0	70.6	60.0	628.4	271.2	899.5
13) NET GAS, MMF	.0		27.9	57.7	79.5	84.2	83.1	72.6	61.7	52.5	549.8	237.3	787.1
14) GAS REVENUE, M\$	.0		34.5	71.4	98.3	104.2	102.7	89.8	76.4	64.9	680.1	293.5	973.6
15) GAS PRICE, \$/MCF	.000		1.237	1.237	1.237		1.237	1.237	1.237	1.237		1.237	1.237
ECONOMICS, M\$													
20) GROSS REV. TO INTR.	.0	37.8	34.5	71.4	98.3	104.2	102.7	89.8	76.4	64.9	680.1	293.5	973.6
21) - SEV. TAX	.0		2.9	5.9	8.2		8.5	7.5	6.3	5.4	56.4	24.4	80.8
22) - WPT TAX PAID	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0
24) - AD VALOREM TAX	.0	.0	.0	.0	.0		.0	.0		.0		.0	.0
25) - OPERATING COSTS	.0	42.9	21.1	21.9	16.0	10.4	7.4	5.8	5.1	4.9		46.5	182.0
26) - CAPITAL REPAYMENT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27) - INTEREST PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28) + NPI OWNED - PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29) = NET INCOME	.0	-8.2	10.5	43.5	74.2	85.1	86.8	76.6	64.9	54.7	488.1	222.6	710.7
30) - INVESTMENTS & RSK	.0		.0	.0	.0	.0	.0	.0	.0	.0	341.8	.0	341.8
31) = BFIT NET	.0	-350.0	10.5	43.5	74.2	85.1	86.8	76.6	64.9	54.7	146.3	222.6	368.9
PRESENT WORTH @ 9.00 %													
32) NET INCOME	.0	-7.1	8.4	31.8	49.5	51.9	48.4	39.0	30.2	23.3	275.4	68.3	343.6
33) INVESTMENTS & RISK	.0	305.4	.0	.0	.0	.0	.0	.0		.0		.0	305.4
34) BFIT NET	.0	-312.5	8.4	31.8	49.5	51.9	48.4	39.0	30.2	23.3	-30.1	68.3	38.2
35) CUM BFIT NET	.0	-312.5	-304.1	-272.3	-222.9	-171.0	-122.6	-83.6	-53.3	-30.1	-30.1	38.2	38.2

SAN JUAN 32-9 UNIT, 274 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045- 5391A

### DATE: 10/14/93 TIME: 09:31:30 DBS: COMX FILE: SJ329X3 SEQ: 374

### AFTER TAX ECONOMICS

AS OF DATE: 1/1/1991

PERIOD ENDING	12/91	12/92	12/93	12/94	12/95	12/96	12/97	12/98	12/99	12/00	s TOT	AFTER	19.9 YR TOTAL
TAX TREATMENT OF INVESTM	ENTS, MS												
1) EXP, RISK & CAP INT	.0	170.1	.0	.0	.0	.0	.0	.0	.0	.0	170.1	.0	170.1
2) DEPLETABLE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3) DEPRECIABLE	.0	171.7	.0	.0	.0	.0	.0	.0	.0	.0	171.7	.0	171.7
TAX CALCULATIONS, MS													
4) GROSS REV. TO INTR.	.0	37.8	34.5	71.4	98.3	104.2	102.7	89.8	76.4	64.9	680.1	293.5	973.6
5) - SEVERANCE TAX	.0	3.1	2.9	5.9	8.2	8.6	8.5	7.5	6.3	5.4	56.4	24.4	80.8
6) - WPT TAX NET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7) - OPR. COSTS & ATX	.0	42.9	21.1	21.9	16.0	10.4	7.4	5.8	5.1	4.9	135.5	46.5	182.0
8) + NPI OWNED - PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9) - OVERHEAD	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10) - EXPENSED INV.	.0	170.1	.0	.0	.0	.0	.0	.0	.0	.0	170.1	.0	170.1
11) - DEPRECIATION	.0	24.5	42.0	30.0	21.4	15.3	15.3	15.3	7.7	.0	171.7	.0	171.7
12) = NET	.0	-202.8	-31.5	13.5	52.7	69.8	71.5	61.3	57.2	54.7	146.3	222.6	368.9
13) - DEPLETION	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14) - INTEREST PD & CAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15) = TAXABLE	.0	-202.8	-31.5	13.5	52.7	69.8	71.5	61.3	57.2	54.7	146.3	222.6	368.9
16) * TAX RATE, %	.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
17) - TAX CREDIT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18) - WPT REFUND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19) = F.I.T.	.0	-79.1	-12.3	5.3	20.6	27.2	27.9	23.9	22.3	21.3	57.1	86.8	143.9
20) REVENUE-SEV-WPT	.0	34.7	31.7	65.5	90.1	95.5	94.2	82.4	70.0	59.5	623.6	269.1	892.8
21) - OPR. COSTS & ATX	.0	42.9	21.1	21.9	16.0	10.4	7.4	5 <b>.8</b>	5.1	4.9	135.5	46.5	182.0
22) + NPI OWNED - PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23) - F.I.T.	.0	-79.1	-12.3	5.3	20.6	27.2	27.9	23.9	22.3	21.3	57.1	86.8	143.9
24) = A.F.I.T.	.0	70.9	22.8	38.3	53.6	57.9	58.9	52.7	42.6	33.3	431.1	135.8	566.8
25) - LOAN REPAYMENT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26) - INTEREST PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27) = NET INCOME	.0	70.9	22.8	38.3	53.6	57.9	58.9	52.7	42.6	33.3	431.1	135.8	566.8
28) - INVESTMENTS & RSK 29) = A.F.I.T. NET	.0 .0	341.8 -270.9	.0 22.8	.0 38.3	.0 5 <b>3.</b> 6	.0 57.9	.0 58.9	.0 52.7	.0 42.6	.0 33.3	341.8 89.3	.0 135.8	341.8 225.0
PRESENT WORTH @ 9.00 %													
30) NET INCOME	.0	61.5	18.2	27.9	35.8	35.3	32.9	26.8	19.8	14.2	272.4	41.7	314.1
31) INVESTMENTS & RISK	.0	305.4	.0	.0	.0	٥.	.0	.0	.0	.0	305.4	.0	305.4
32) A.F.I.T. NET	.0	-243.9	18.2	27.9	35.8	35.3	32.9	26.8	19.8	14.2	-33.0	41.7	8.7
33) CUM. A.F.I.T. NET	.0	-243.9	-225.7	-197.8	-162.0	-126.7	-93.8	-67.0	-47.2	-33.0	-33.0	8.7	8.7
·		,			,		, 5.0	55	7 L	33.0	55.5		

SAN JUAN 32-9 UNIT, 274 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045- 5391A DATE: 10/14/93 TIME: 09:31:30 DBS: COMX FILE: SJ329X3 SEQ: 374

### ECONOMIC INDICATORS

AS OF DATE: 1/1/1991

	B.F.I.T. WORTH M\$	A.F.I.T. WORTH M\$	BONUS
PRESENT WORTH PROFILE A			
0.	7/0.04/	225 270	
0. 5.	368.914	225.038	
5. 7.	147.651	80.883	
	87.257	41.135	53.304
8.	52.340	18.044	22.762
10.	17.214	-5.285	
15.	-60.811		
20.	-107.518		*****
25.	-134.934	-108.258	-117.345
35.	-157.556	-124.257	
45.	-158.762	-125.327	-129.434
55.	-150.829		-122.441
	-139.207	-111.338	-113.117
	-126.450	-101.914	-103.113
85.	-113.782	-92.402	-93.223
100.	-96.115	-78.903	-79.382
RATE OF RETURN, PCT.	11.1	9.6	
UNDISCOUNTED PAYOUT, Y	RS. 7.65	7.75	
DISCOUNTED PAYOUT, YRS	. 11.90	14.76	
UNDISCOUNTED NET/INVES	T. 2.08	1.66	
DISCOUNTED NET/INVEST.	1.13	1.03	

NOTES

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### MERIDIAN OIL COMMERCIALITY DETERMINATION BLM DATA SHEET

FOR LEASE: SAN JUAN 32-9 UNIT # 284

**WELL INFORMATION:** 

**PRODUCTION TAXES:** 

Printed: 10/14/93 09:36

			GAS % OF
032N010W13A			<b>REVENUE</b>
SAN JUAN	SEVERANCE	(NM)	3.75%
- 1-1-	SCHOOL	(NM)	3.15%
BASIN (FRUITLAND COAL)	AD VALOREM	(NM)	1.04%
MERIDIAN OIL INC	CONSERVATION	(NM)	0.18%
09/17/90	PROD. EQUIP.	(NM)	0.19% 8.31%
10/13/90	TOTAL		8.31%
03/31/92			
	032N010W13A SAN JUAN NM BASIN (FRUITLAND COAL) MERIDIAN OIL INC 09/17/90 10/13/90 03/31/92	SAN JUAN SEVERANCE NM SCHOOL BASIN (FRUITLAND COAL) MERIDIAN OIL INC 09/17/90 10/13/90 TOTAL	SAN JUAN  NM  SCHOOL  (NM)  BASIN (FRUITLAND COAL)  MERIDIAN OIL INC  09/17/90  10/13/90  SEVERANCE  (NM)  AD VALOREM  (NM)  CONSERVATION  (NM)  PROD. EQUIP.  (NM)

GWI 100.00% NRI 87.50%

**PRESSURE DATA:** 

**WELL COST DATA:** 

 Date:
 10/26/90
 TOTAL WELL COST:
 355.3 (M\$)

 WHSIP:
 1392 (PSIG)
 PAYOUT YEARS:
 7.5

 BHSIP:
 1599 (PSIG)

**AVERAGE PRODUCT PRICING:** 

PRI/GAS 1992 - \$1.24(MCF)

Based on an average heating value of

930 MMBTU/MCF.

### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

	<b>ESTIMATED</b>	ANNUAL PROD	UCTION	OPERATING EXPENSES					
	GAS	$\mathbf{OIL}$	WATER	BASE	WATER	TOTAL			
YEARS	(MMCF)	(MBO)	(MBW)	(M\$)	(M\$)	(M\$)			
1 <b>990</b>	0.0	0.0	0.0	0.0	0.0	0.0			
1991	0.0	0.0	0.0	0.0	0.0	0.0			
1992	56.7	0.0	12.4	4.5	18.6	23.1			
1993	79.2	0.0	4.6	4.9	6.9	11.8			
1994	134.5	0.0	2.4	4.8	3.7	8.5			
1995	128.6	0.0	0.6	4.7	1. <b>0</b>	5.7			
1996	109.9	0.0	0.1	4.7	0.2	4.9			
1997	93.4	0.0	0.0	4.7	0.1	4.7			

NOTE: Economics were run at a discount rate of 9.00%

<sup>\*</sup>Base operating expenses were held flat @ \$390/mo. (\$271/mo. for dry wells). Water disposal costs were also held flat @ \$1.55/Bbl.

SAN JUAN 32-9 UNIT, 284 BASIN FRUITLAND COAL FRUITLAND COAL

SAN JUAN, NM 200-045- 5053A DATE : 10/14/93 TIME : 09:29:40 DBS FILE : COMX SETUP FILE : SJ329X1

SEQ NUMBER : 350

CALCULATED DATA

INPUT DATA

					A ! A			CALCOLATED DATA				
I TEM	SCHEDULIN	G RATES		SCHEDULE		PROCEDUR		ULTIMATE	LAST	EFF. DECL	INIT. RATE	FINAL RATE
401 START	03/92											
406 GAS	1.00	x	M/M	4/92	AD	FLAT	.00	91.099	3/92		1.	1.
411 "	5063.00	X	M/M	1/93	AD	FLAT	.00	136.666	12/92		5063.	5063.
416 "	1.00	X	M/M	2/93	AD	FLAT	.00	136.667	1/93		1.	1.
421 "	5063.00	X	M/M	8/93	AD	FLAT	.00	167.045	7/93		5063.	5063.
426 "	24320.00	X	M/M	04/95	AD	FLAT	.00	653.445	3/95		24320.	24320.
431 "	24320.00	450.00	M/M	X	MMCF	EXP	15.00	2416.128	10/19	15.00	24320.	448.
436 START	03/92											
441 WTR/GAS	.36	.00	В/М	x	AD	LOG	TIME		10/19			
446 NET/WI	100.00	D	%	то	LIFE	FLAT	.00		10/19		1.000	1.00
456 NET/NIC	87.50	D	%	TO	LIFE	FLAT	.00		10/19		.875	.87
466 NET/NIG	87.50	D	%	то	LIFE	FLAT	.00		10/19		.875	.875
501 OPC/T	390.00	X	\$/M	то	LIFE	FLAT	.00		10/19		390.000	390.000
502 PRI/WTR	1.55	x	\$/B	то	LIFE	FLAT	.00		10/19		1.550	1.55
503 PRI/GAS	1.33	X	\$/M	TO	LIFE	FLAT	.00		10/19		1.330	1.330
504 STX/GAS	8.30	8.30	%	то	LIFE	PC	.00		2/92		.083	.083
INVESTMENT	TANGIBLES			TIME		PROCEDU		TOTAL T&I		RISK INV.	TOT. T&I&R	ESC. T&I&
801 CAPITAL		170.10	M\$G	10/90	AD			355.300	10/90		355.3	355.3
RESERVE PARA			ITEM			ITEM						
201 LOSS	OK	-										
203 CUMO, ME	.00	C	UMG, MMF	91.10		CUML, MB						
206 WELLS	.00		1.	.00								
211 BTU	.93											

### PROJECT ASSUMPTIONS

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SAN JUAN 32-9 UNIT, 284 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045- 5053A DATE: 10/14/93 TIME: 09:29:40 DBS: COMX FILE: SJ329X1 SEQ: 350

### RESERVES AND ECONOMICS

AS OF DATE: 1/1/1990

PERIOD ENDING	12/90	12/91	12/92	12/93	12/94	12/95	12/96	12/97	12/98	12/99	S TOT	AFTER	29.8 YR TOTAL
OWNERSHIP													
1) WORKING INTEREST, %	.000	.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
2) REVENUE INTEREST, %	.000	.000	87.500	87.500	87.500	87.500	87.500	87.500	87.500	87.500	87.500	87.500	87.500
INVESTMENTS, MS													
3) BORROWED CAPITAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4) EQUITY INVESTMENTS	355.3	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	355.3
5) RISK	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7) TOTAL	355.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	355.3	.0	355.3
GAS PHASE													
12) GROSS GAS, MMF	.0	.0	45.6	152.0	291.8	279.0	238.5	202.7	172.3	146 5	1528.3	797.0	2325.3
13) NET GAS, MMF	.0	.0		133.0	255.4	244.1	208.6		150.8		1337.3	697.3	2034.6
14) GAS REVENUE, M\$	.0	.0	49.3	164.5	315.9	302.0	258.1	219.4	186.5		1654.1	862.5	2516.6
15) GAS PRICE, \$/MCF	.000	.000	1.237	1.237	1.237		1.237		1.237			1.237	1.237
ECONOMICS, M\$													
20) GROSS REV. TO INTR.	.0	.0	49.3	164.5	315.9	302.0	258.1	219.4	186.5	158.5	1654.1	862.5	2516.6
21) - SEV. TAX	.0	.0	4.1	13.7	26.2	25.1	21.4	18.2			137.3	71.6	208.9
22) - WPT TAX PAID	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0
24) - AD VALOREM TAX	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25) - OPERATING COSTS	.0	.0	3.9	4.7	4.7	4.7	4.7	4.7	4.7	4.7	36.7	92.8	129.5
26) - CAPITAL REPAYMENT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27) - INTEREST PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28) + NPI OWNED - PAID	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29) = NET INCOME	.0	.0		146.2	285.0	272.2	232.0	196.5	166.3	140.7	1480.1	698.1	2178.2
30) - INVESTMENTS & RSK	355.3	.0		.0	.0	.0	.0	.0	.0	.0	355.3	.0	355.3
31) = BFIT NET	-355.3	.0	41.3	146.2	285.0	272.2	232.0	196.5	166.3	140.7	1124.8	698.1	1822.9
PRESENT WORTH @ 9.00 %													
32) NET INCOME	.0	.0	32.8	106.7	190.1	166.0	129.3	100.1	77.4	59.8	862.3	195.8	1058.1
33) INVESTMENTS & RISK	332.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	332.1	.0	332.1
34) BFIT NET	-332.1	.0	32.8	106.7	190.1	166.0	129.3	100.1	77.4	59.8	530.1	195.8	726.0
35) CUM BFIT NET	-332.1	-332.1	-299.4	-192.7	-2.5	163.5	292.8	392.9	470.3	530.1	530.1	726.0	726.0

SAN JUAN 32-9 UNIT, 284 BASIN FRUITLAND COAL FRUITLAND COAL SAN JUAN, NM 200-045- 5053A DATE: 10/14/93 TIME: 09:29:40 DBS: COMX FILE: SJ329X1 SEQ: 350

### ECONOMIC INDICATORS

AS OF DATE: 1/1/1990

B.F.I.T. A.F.I.T. A.F.I.T.

	WORTH	WORTH	BONUS
	M\$	M\$	M\$
PRESENT WORTH PROFILE A RATE-OF-RETURN VS. BONU			
RAIE OF REIDEN VS. BONG	3 IABLE		
0.	1822.941	1111.994	1822.941
5.			872.831
7.	890.035	526.455	671.240
9.	725.981	423.041	519.354
10.	654.961	378.228	456.998
15.	382.100	205.849	234.448
20.	203.915	93.228	102.302
25.	84.193	17. <i>7</i> 27	18.977
35.	-54.626	-68.975	-71.701
45.	-121.589	-109.483	-112.057
55.	-152.931	-126.987	-128.836
65.	-165.569	-132.409	-133.640
75.	-168.056	-131.316	-132.114
85.	-164.968	-126.701	-127.214
100.	-155.140	-116.633	-116.898
RATE OF RETURN, PCT.	31.1	27.0	
UNDIACOUNTED DAVOUT VE		, 70	
UNDISCOUNTED PAYOUT, YE	(5. 4.59	4.79	
DISCOUNTED PAYOUT, YRS.	5.02	5.36	
Didden in the thirty in the	2.42	3.23	
UNDISCOUNTED NET/INVEST	6.13	4.13	
DISCOUNTED NET/INVEST.	3.19	2.27	

NOTES

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193 SE2 21 PM 9 46

San Juan 32-9 Unit (GC) 3180 (07327)

SEP. 1 8 1983

Mr. Jay Knaebel Meridian Oil Incorporated P. O. Box 4289 Farmington, NM 87499-4289

### Dear Mr Knaebel:

We are returning your application to establish the initial through the ninth revision of the Fruitland Participating Area in the San Juan 32-9 Unit. We have completed our paying well analysis for all of the supporting wells submitted with the application. Per your request, we are returning your applications since some of the wells submitted were determined to be non-paying wells. This will facilitate the re-organization of the various revisions for your re-submittal of the application. Listed below is our paying well determination on each well submitted:

The following wells have been determined to be capable of producing unitized substances in paying quantities.

Well No.	Allocated Acreage	Well No.	Allocated Acreage
105	E/2 Sec. 8, 31 N., 9 W.	201	E/2 Sec. 2, 31 N., 10 W.
202	W/2 Sec. 2, 31 N., 9 W.	215	All Sec. 10, 32 N., 9 W.
226	E/2 Sec. 32, 32 N., 9 W.	229	E/2 Sec. 36, 32 N., 10 W.
230	W/2 Sec. 36, 32 N., 10 W.	235	W/2 Sec. 36, 32 N., 9 W.
253	W/2 Sec. 5, 31 N., 9 W.	254	E/2 Sec. 6, 31 N., 9 W.
255	W/2 Sec. 6, 31 N., 9 W.	259	W/2 Sec. 9, 31 N., 9 W.
260	E/2 Sec. 10, 31 N., 9 W.	262	E/2 Sec. 15, 31 N., 9 W.
263	W/2 Sec. 15, 31 N., 9 W.	281	W/2 Sec. 32, 32 N., 9 W.
286	E/2 Sec. 14, 32 N., 10 W.	291	W/2 Sec. 24, 32 N., 10 W.
300	All Sec. 11, 32 N., 10 W.	301	All Sec. 12, 32 N., 10 W.
277	W/2 Sec. 30, 32 N., 9 W.	251	W/2 Sec. 4, 31 N., 9 W.
273	W/2 Sec. 19, 32 N., 9 W.	278	E/2 Sec. 31, 32 N., 9 W.
283	W/2 Sec. 33, 32 N., 9 W.	287	W/2 Sec. 14, 32 N., 10 W.
279	W/2 Sec. 31, 32 N., 9 W.	297	W/2 Sec. 35, 32 N., 10 W.
288	E/2 Sec. 23, 32 N., 10 W.	271	W/2 Sec. 18, 32 N., 9 W.
269	W/2 Sec. 1, 31 N., 10 W.	264	E/2 Sec. 17, 31 N., 9 W.
257	W/2 Sec. 8, 31 N., 9 W.	266	E/2 Sec. 18, 31 N., 9 W.
250	E/2 Sec. 4, 31 N., 9 W.	282	W/2 Sec. 33, 32 N., 9 W.
261	W/2 Sec. 10, 31 N., 9 W.	258	E/2 Sec. 9, 31 N., 9 W.
295	W/2 Sec. 26, 32 N., 10 W.	275	W/2 Sec. 29, 32 N., 9 W.

### MERIDIAN OIL **COMMERCIALITY DETERMINATION BLM DATA SHEET**

FOR LEASE:

SAN JUAN 32-9 UNIT

209

WELL	INF	ORN	<b>1A1</b>	ION:
------	-----	-----	------------	------

PRODUCTION TAXES:

Printed: 03/11/93 14:58

TRODUCTION TIMES.			
031N010W02G			GAS % OF REVENUE
SAN JUAN	SEVERANCE	(NM)	3.75%
NM	SCHOOL	(NM)	3.15%
BASIN (FRUITLAND COAL)	AD VALOREM	(NM)	1.04%
MERIDIAN OIL INC	CONSERVATION	(NM)	0.18%
03/22/90	PROD. EQUIP.	(NM)	0.19%
04/14/90	TOTAL		8.31%
03/09/92			
100.00%			
	SAN JUAN NM BASIN (FRUITLAND COAL) MERIDIAN OIL INC 03/22/90 04/14/90 03/09/92	031N010W02G SAN JUAN SEVERANCE NM BASIN (FRUITLAND COAL) MERIDIAN OIL INC 03/22/90 04/14/90 03/09/92 SEVERANCE SCHOOL AD VALOREM CONSERVATION PROD. EQUIP. TOTAL	031N010W02G SAN JUAN NM SAN SEVERANCE (NM) NM BASIN (FRUITLAND COAL) MERIDIAN OIL INC 03/22/90 04/14/90 03/09/92  SEVERANCE (NM) AD VALOREM (NM) CONSERVATION (NM) PROD. EQUIP. (NM) TOTAL

PRESSURE DATA:

NRI

WELL COST DATA:

Date: 05/09/90 TOTAL WELL COST: 1012 (PSIG) 1109 (PSIG) WHSIP: **PAYOUT YEARS:** BHSIP:

280.6 (M\$)

12.3

**AVERAGE PRODUCT PRICING:** 

PRI/GAS 1992 - \$1.59(MCF)

87.50%

Based on an average heating value of 1070 MMBTU/MCF.

### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

		NNUAL PRODUC	CTION	OPERATING EXPENSES				
YEARS	GAS (MMCF)	OIL (MBO)	WATER (MBW)	BASE (M\$)	WATER (M\$)	TOTAL (M\$)		
1990	0.0	0.0	0.0	0.0	0.0	0.0		
1991	0.0	0.0	0.0	0.0	0.0	0.0		
1992	45.6	0.0	0.0	2.7	0.0	2.7		
1993	54.8	0.0	0.0	3.3	0.0	3.3		
1994	51.8	0.0	0.0	3.3	0.0	3.3		
1995	44.1	0.0	0.0	3.3	0.0	3.3		
1996	37.5	0.0	0.0	3.3	0.0	· 3.3		
1997	31.9	0.0	0.0	3.3	0.0	3.3		
1998	27.1	0.0	0.0	3.3	0.0	3.3		
1999	23.0	0.0	0.0	3.3	0.0	3.3		
2000	19.6	0.0	0.0	3.3	0.0	3.3		
2001	16.6	0.0	0.0	3.3	0.0	3.3		
2002	14.1	0.0	0.0	3.3	0.0	3.3		

NOTE: Economics were run at a discount rate of 9.00%

<sup>\*</sup>Base operating expenses were held flat @ \$390/mo. (\$271/mo. for dry wells). Water disposal costs were also held flat @ \$1.55/Bbl.

FARMINGTON		ANNUA	L PRODUCTION	N FOR 4570A		PHS020M1
SAN JUAN 32-	9 UNIT	209	!	MERIDIAN OIL	INC	
BASIN (FRUIT	LAND COAL	) FIELD	1	FRUITLAND COAL	ZONE	
===== OIL C	UM =====	= ===	=== GAS CUM		==== WATER	CUM =====
PC DATE	BBL	S PC	DATE	MCF	DATE	BBLS
		=========	========	=========		
YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1990						
1991						
1992			28316	28316		
19 <b>93</b>			1709	30025		

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

B MY JOB

LU #21

FARMINGT SAN JUAN BASIN (F	32		209			PRODUCTION MER FRL	IDIA	OIL	INC		PHS030	CMC
[	)AYS		OIL ===	====	=3 <b>=</b> =:		GAS =	====	:=====			٠
MO T S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	С
1 2					01				15.025			0
2 2					01				15.025			0
3 2	2 <b>2</b>				01	2565	22	995	15.025			0
4 2	30				01	5900	30	995	15.025			0
5 2	27				01	2615	27	9 <b>95</b>	15.025			0
6 2	26				01	2491	25	9 <b>95</b>	15.025			0
7 2	31				01	3071	31	995	15.025			0
8 2	31				01	2636	31	995	15.025			0
9 2	30				01	2464	30	995	15.025			0
10 2	31				01	1620	31	995	15.025			0
11 2 F	30				01	2825	30	995	15.025			0
12 2 F	31				01	2129	31	1202	15.025			0
DE	6 -	PETLIDNS	TO ANNI	IAI D	T S DI A V	,	DE 3	1 _ TP	ANSEED 1	ro upos	TE	•
		HELP IN			LOFLA				SPLAY M			rt/N
ri i	<b>.</b>	ince: IN	-		00 00	0:00:00:0				214111LT	THOEC	1014

B MY JOB

NUM LU #21

FARMINGTON	1993 MONTHLY PRODUCTION	FOR 4570A PHS030M1								
SAN JUAN 32-9 UNIT	209 MERI	IDIAN OIL INC								
BASIN (FRUITLAND COA	NL) FIELD FRU	ITLAND COAL ZONE								
DAYS ===== 0	)IL =======	GAS =========								
MO T S ON PC	PROD GRV PC PROD	ON BTU PRESS WATER	PROD C							
1 2 F 29	01 1709	29 1202 15.025	0							
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
PF6 - RETURNS	TO ANNUAL DISPLAY	PF3 - TRANSFER TO UPD	ATE							
PF10 - HELP INFO	ORMATION	PF9 - DISPLAY MONTHLY	INJECTION							
	00/00/00 00:00:00:0	P12 03/02/93								

8 MY JOB NUM LU #21

### MERIDIAN OIL COMMERCIALITY DETERMINATION **BLM DATA SHEET**

Printed: 03/11/93 14:58

FOR LEASE:

SAN JUAN 32-9 UNIT

228

**WELL INFORMATION:** 

PRODUCTION TAXES:

GAS % OF REVENUE

LOCATION 032N009W36G COUNTY

SAN JUAN

SEVERANCE (NM) 3.75%

STATE FORMATION

NM BASIN (FRUITLAND COAL)

(NM) 3.15% SCHOOL (NM) 1.04% AD VALOREM (NM)

**OPERATOR** SPUD DATE

MERIDIAN OIL INC 03/25/90

CONSERVATION PROD. EQUIP.

0.18% (MM) 0.19%

**CMPL DATE** 1ST DLVRY

04/09/90 12/02/92 TOTAL

GWI 100.00%

NRI 87.50%

PRESSURE DATA:

**WELL COST DATA:** 

WHSIP:

Date: 04/17/90

TOTAL WELL COST:

352.3 (M\$)

BHSIP:

896 (PSIG) 1701 (PSIG) **PAYOUT YEARS:** 

6.0

**AVERAGE PRODUCT PRICING:** 

PRI/GAS 1992 - \$1.24(MCF)

Based on an average heating value of 930 MMBTU/MCF.

### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

	ESTIMATED A	NNUAL PRODUC	CTION	OPERATING EXPENSES				
	GAS	OL	WATER	BASE	WATER	TOTAL		
YEARS	(MMCF)	(MBO)	(MBW)	(M\$)	(M\$)	(M\$)		
1990	0.0	0.0	0.0	0.0	0.0	0.0		
1991	0.0	0.0	0.0	0.0	0.0	0.0		
1992	12.9	0.0	0.0	0.0	0.0	0.0		
1993	188.2	0.0	48.5	4.7	75 <i>.</i> 2	79.9		
1994	265.8	0.0	51.1	4.7	79.2	83.9		
1995	306.0	0.0	44.2	4.7	68.5	73.2		

NOTE: Economics were run at a discount rate of 8.50%

\*Base operating expenses were held flat @ \$390/mo. (\$271/mo. for dry wells).

Water disposal costs were also held flat @ \$1.55/Bbl.

FARMINGTON		ANNUA	AL PRODUCTIO	N FOR 4573A		PHS020M1
SAN JUAN 32-9	UNIT	228		MERIDIAN OIL	INC	
BASIN (FRUIT	AND COAL	.) FIELD		FRUITLAND COA	L ZONE	
===== OIL C	M =====	= ==	==== GAS CUM	======	==== WATER	CUM =====
PC DATE	BBL	.s pc	DATE	MCF	DATE	BBLS
		.========		<del></del>		========
YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1990						
1991						
1992			2193	2193	59 <b>5</b> 9	5959
19 <b>93</b>			1619	3812	3363	9322

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

B MY JOB

LU #21

FARMINGTON 1992 MONTHLY PRODUCTION FOR 4573A PHS SAN JUAN 32-9 UNIT 228 MERIDIAN OIL INC BASIN (FRUITLAND COAL) FIELD FRUITLAND COAL ZONE								
DAVS OI	'1 <del></del>	===== GAS =========	•					
	PROD GRV PC		TED DOOD C					
	· -		ATER PROD C					
1 2 S	01	15.025	0					
2 2 S	01	15.025	0					
3 2	01	15.025	0					
4 2	01	15.025	0					
5 2	01	15.025	0					
6 2 S	01	15.025	٥					
7 2 S	01	15.025	0					
8 2 S	01	15.025	0					
9 2 S	01	15.025	0					
·			-					
10 2 S	01	15.025	0					
11 2 S	01	15.025	0					
12 2 F 30	01	2193 30 978 15.025	5 <b>959</b> 0					
PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE  PF10 - HELP INFORMATION PF9 - DISPLAY MONTHLY INJECTION  00/00/00 00:00:00:0 P12 02/02/93								

B MY JOB

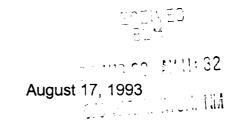
NUM LU #21

SAN	JUA		-9 UNIT	19 228 OAL) FI			Y PRODUCT	MER	IDIA	N OIL			PHS03	0M1
		DAVE		OTL					CAS					•
MO 1	S	ON	PC	PROD	GRV	PC	C PR	OD	ON	BTU	PRESS	WATER	PROD	С
1 2	F	31				01	1 16	19	31	978	15.025		3363	0
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
	P	F6 -	RETURN	S TO AN	NUAL [	DISP	LAY		PF:	3 - TR	ANSFER	TO UPDA	ATE	
	PF	10 -	HELP I	NFORMAT	ION				PF9	9 - DI	SPLAY M	ONTHLY	INJEC	TION
					00/00,	/00	00:00:00	:0	P1:	2 03/	02/93			

B MY JOB

NUM LU #21

### MERIDIAN OIL



Bureau of Land Management 1235 La Plata Highway Attn: Ray Hagar Farmington, NM 87401

Dear Ray,

As requested in our July 23 meeting concerning Meridian Oil's San Juan 32-9 Unit commerciality filing, enclosed are the following attachments:

- 1. Gas in place calculations for wells we discussed last month.
- 2. Tubing pressure information for all wells discussed except the #228.
- 3. Production curves of Fruitland Coal wells located throughout the San Juan Basin used as performance models.

I would like to meet with you and Brian Davis the week of August 23 to discuss the attachments in more detail.

Please contact me at 326-9892 if you wish to meet or if you should have any questions.

Sincerely,

Jav Knaebe

Attachments

JBK/rjp

# San Juan 32-9 Unit Commerciality Filing Gas in Place Calculations

GIP	mmcf	21,074	9,882	17,248	26,342	14,799	18,816	24,084
Drainage Area	acres	320	320	320	320	320	320	320
Coal Density	ton/acre-ft	1960	1930	1960	1960	1960	1960	1960
Gas Content			400	200	200	605	200	009
Coal Thickness	ΨI	48	40	55	09	39	09	64
	ber	104	209	228	270	274	284	287
	Well Name and Number	San Juan 32-9 Unit						

SECEIVED SUM SE MORO MILLER CTO DECEMBER AND

### San Juan 32-9 Unit #270 Line Pressure Data

Date	Avg_Line_Pres
2/18/93	290.58
2/19/93	290.46
2/20/93	289.73
2/21/93	290.02
2/22/93	290.45
2/23/93 2/25/93	287.57
2/26/93	311.27 289.06
2/27/93	288.15
2/28/93	287.27
3/1/93	355.54
3/2/93	287.69
3/3/93	294.40
3/4/93	296.50
3/5/93	294.99
3/6/93	310.49
3/9/93	370.20
3/11/93	367.68
3/12/93 3/14/93	341.43
3/15/93	342.81 343.20
3/16/93	352.00
3/17/93	349.63
3/18/93	350.08
3/19/93	350.32
3/20/93	350.40
3/21/93	350.09
3/22/93	349.76
3/23/93	349.74
3/24/93 3/25/93	352.93
3/25/93	351.03 327.30
3/27/93	277.92
3/29/93	278.91
3/30/93	280.16
3/31/93	287.69
4/1/93	334.42
4/2/93	344.70
4/3/93 4/4/93	352.76 348.43
4/5/93	347.61
4/6/93	327.34
4/7/93	276.28
4/8/93	276.09
4/9/93	280.06
4/10/93	306.97
4/11/93	330.75
4/12/93	361.45 355.18
4/1 <b>4/</b> 93 4/15/93	356.45
4/21/93	337.31
4/22/93	332.46
4/23/93	319.54
4/24/93	327.42
4/25/93	345.93
4/26/93	302.77 372.75
4/27/93 4/28/93	372.75 371.60
4/29/93	371.00 373.18
4/30/93	382.30
5/1/93	373.90
5/2/93	311.59
5/3/93	321.86
5/4/93	329.57

### San Juan 32-9 Unit #270 Line Pressure Data

Date	Avg_Line_Pres
5/5/93	342.75
5/ <b>6/93</b>	355.33
5/7/93	389.01
5/8/93	380.57
5/9/93	400.33
5/10/93	418.23
5/11/93	337.28
5/12/93	356.52
5/13/93	337.59
5/1 <b>4/</b> 93 5/15/93	328.49
5/16/93	323.76 334.57
5/17/93	333.96
5/18/93	317.79
5/19/93	316.97
5/20/93	327.02
5/21/93	324.92
5/22/93	318.20
5/23/93	343.90
5/24/93	303.13
5/ <b>25/93</b>	314.78
5/ <b>26/93</b> 5/27/93	317.60
5/28/93	341.32 317.29
5/29/93	321.53
5/30/93	306.76
6/2/93	338.24
6/3/93	321.20
6/4/93	321.74
6/5/93	331.28
6/6/93	305.70
6/7/93	308.79
6/ <b>8/93</b> 6/9/93	309.47 306.04
6/10/93	301.91
6/11/93	303.52
6/12/93	307.28
6/13/93	310.61
6/14/93	309.15
6/15/93	307.67
6/1 <b>6/93</b> 6/17/93	325.80
6/18/93	335.25 325.85
6/19/93	339.64
6/20/93	333.97
6/21/93	318.19
6/22/93	339.06
6/23/93	323.03
6/24/93	311.51
6/25/93	339.01
6/26/93	307.95
6/27/93 6/28/93	304.09 317.14
6/29/93	349.02
6/30/93	335.99
7/2/93	319.26
7/3/93	313.47
7/4/93	322.46
7/ <b>5/93</b>	316.22
7/ <b>6/93</b> 7/7/ <b>93</b>	353.26 328.22
7/1/93 7/ <b>8/93</b>	328.22 351.22
7/10/93	281.81
7/12/93	269.50

### San Juan 32-9 Unit #274 Line Pressure Data

Date	Avg_Line_Pres
2/7/93	288.00
2/9/93	303.55
2/10/93	290.40
2/11/93	287.28
2/12/93	288.84
2/14/93	286.29
2/15/93	285.82
2/16/93	287.11
2/17/93	293.10 290.91
2/18/93 2/19/93	290.90
3/14/93	341.28
3/21/93	348.38
3/22/93	348.17
3/23/93	348.24
3/24/93	351.11
3/25/93	349.72
3/26/93	325.81
3/27/93	276.01
3/28/93	274.23
3/29/93	277.32
3/30/93 3/31/93	278.26 285.93
3/31/93 4/1/93	265.93 331.69
4/2/93	344.25
4/3/93	348.41
4/4/93	341.41
4/5/93	341.92
4/6/93	322.56
4/7/93	274.48
4/8/93	274.27
4/9/93 4/10/93	278.72 308.91
4/11/93	345.26
4/12/93	356.93
4/13/93	350.94
4/14/93	353.15
4/15/93	353.81
4/16/93	349.41
4/18/93	325.41
4/19/93	317.11
4/20/93 4/21/93	311.77 315.98
4/27/93	371.25
4/28/93	370.08
4/29/93	371.71
4/30/93	380.78
5/1/93	372.40
5/2/93	310.06
5/3/93	319.91
5/4/93	328.14
5/5/93 5/6/93	339.84
5/7/93	351.44 386.91
5/8/93	363.25
5/20/93	323.82
5/21/93	321.77
5/22/93	315.00
5/23/93	340.65
5/24/93	299.90
5/25/93	310.85
5/26/93	314.50
5/27/93	337.18
5/28/93	314.08

### San Juan 32-9 Unit #274 Line Pressure Data

Date	Avg_Line_Pres
5/29/93	310.05
6/3/93	321.39
6/4/93	320.96
6/5/93	
	326.19
6/6/93	301.06
6/7/93	305.45
6/8/93	306.90
6/9/93	304.20
6/10/93	299.53
6/11/93	300.15
6/12/93	305.09
6/13/93	305.73
6/14/93	
	307.40
6/15/93	306.07
6/16/93	323.61
6/17/93	332.82
6/18/93	321.60
6/19/93	337.46
6/20/93	332.00
6/21/93	316.38
6/22/93	338.40
6/23/93	321.26
6/24/93	309.76
6/25/93	331.03
6/26/93	306.30
6/27/93	302.64
6/28/93	315.75
6/29/93	347.58
6/30/93	335.14
7/1/93	334.50
7/2/93	318.05
7/3/93	311.96
7/4/93	319.63
7/5/93	314.70
7/6/93	352.20
7/7/93	324.90
7/8/93	349.89
7/10/93	280.41
7/12/93	268.00
7/13/93	273.51
7/14/93	286.39
7/15/93	344.26
7/16/93	339.41
7/17/93	308.26
7/17/93	
	302.45
7/19/93	353.11
7/22/93	284.34
7/23/93	281.73
7/24/93	292.47
7/25/93	271.57
7/26/93	393.25
7/27/93	458.57
7/28/93	482.42
7/29/93	412.94
7/ <b>30/93</b>	326.55
7/31/93	409.88
8/1/93	380.40

### San Juan 32-9 Unit #284 Line Pressure Data

3/18/93 361.85 3/19/93 366.73 3/20/93 317.04 3/21/93 248.84 3/22/93 312.53 3/23/93 362.54 3/24/93 257.25 3/25/93 146.04 3/26/93 349.61 3/27/93 298.59 3/29/93 290.82 3/30/93 266.80 3/31/93 302.11 4/1/93 349.21 4/2/93 359.68 4/3/93 361.69 4/4/93 348.16 4/5/93 346.86 4/6/93 327.35 4/7/93 275.32 4/8/93 279.80 4/10/93 309.80 4/11/93 346.56 4/12/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/16/93 355.49 4/18/93 356.60 4/19/93 311.85 4/21/93 373.75 5/29/93 311.55 5/3/93 373.74 4/27/93 372.56 4/28/93 371.77 4/29/93 373.43 4/30/93 379.19 5/11/93 373.75 5/2/93 311.55 5/3/93 328.58 5/9/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 382.88 5/9/93 346.38 5/10/93 318.18 5/11/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.15 5/22/93 318.73	Date	Avg_Line_Pres
3/20/93 317.04 3/21/93 248.84 3/22/93 312.53 3/23/93 362.54 3/24/93 257.25 3/25/93 146.04 3/26/93 349.61 3/27/93 298.59 3/29/93 290.82 3/30/93 266.80 3/31/93 302.11 4/1/93 349.21 4/2/93 359.68 4/3/93 349.21 4/2/93 348.16 4/5/93 327.35 4/7/93 275.32 4/8/93 275.18 4/9/93 279.80 4/10/93 309.80 4/11/93 346.56 4/12/93 358.42 4/13/93 359.49 4/18/93 354.48 4/15/93 354.48 4/15/93 354.98 4/16/93 350.49 4/18/93 350.49 4/18/93 318.49 4/18/93 318.49 4/20/93 312.85 4/21/93 336.40 4/22/93 331.43 4/23/93 320.10 4/24/93 326.28 4/25/93 336.40 4/22/93 331.43 4/23/93 320.10 4/24/93 326.28 4/25/93 377.74 4/27/93 372.56 4/28/93 371.77 4/29/93 373.43 4/30/93 379.19 5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 371.77 4/29/93 373.43 4/30/93 379.19 5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 371.77 4/29/93 373.43 4/30/93 379.19 5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/10/93 373.43 4/30/93 379.19 5/11/93 373.75 5/2/93 315.51 5/10/93 315.11 5/11/93 328.95 5/10/93 315.41 5/11/93 338.24 5/10/93 317.42 5/10/93 317.42 5/10/93 317.42 5/10/93 317.42 5/10/93 317.42 5/10/93 317.42 5/10/93 317.42 5/10/93 317.42 5/10/93 317.42 5/20/93 325.15	3/18/93	361.85
3/21/93	3/19/93	366.73
3/22/93 312.53 3/23/93 362.54 3/24/93 257.25 3/25/93 146.04 3/26/93 349.61 3/27/93 298.59 3/29/93 290.82 3/30/93 266.80 3/31/93 302.11 4/1/93 349.21 4/2/93 359.68 4/3/93 361.69 4/4/93 346.86 4/6/93 327.35 4/7/93 275.32 4/8/93 275.32 4/8/93 275.84 4/10/93 359.68 4/11/93 346.56 4/12/93 358.42 4/13/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 355.49 4/18/93 373.43 4/20/93 311.85 4/21/93 326.80 4/19/93 312.85 4/21/93 326.28 4/25/93 331.43 4/23/93 320.10 4/24/93 326.28 4/25/93 377.74 4/27/93 372.56 4/28/93 377.74 4/27/93 373.43 4/30/93 379.19 5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 302.88 5/10/93 315.11 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.24 5/11/93 338.25 5/11/93 317.42 5/18/93 317.42	3/20/93	317.04
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3/26/93 349.61 3/27/93 298.59 3/29/93 290.82 3/30/93 266.80 3/31/93 302.11 4/1/93 349.21 4/2/93 359.68 4/3/93 346.86 4/6/93 327.35 4/7/93 275.32 4/8/93 279.80 4/10/93 309.80 4/11/93 346.56 4/12/93 358.42 4/13/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 373.75 5/2/93 311.43 4/20/93 312.85 4/21/93 326.28 4/22/93 331.43 4/23/93 320.10 4/24/93 326.28 4/25/93 337.74 4/27/93 372.56 4/28/93 371.77 4/29/93 373.43 4/30/93 379.19 5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 377.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/10/93 318.48 5/10/93 318.48 5/10/93 318.49 5/10/93 373.75 5/2/93 371.77 4/29/93 373.43 4/30/93 379.19 5/11/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 340.28 5/10/93 371.71 5/11/93 342.85 5/10/93 318.48 5/10/93 318.48 5/10/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11		
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3/31/93 302.11 4/1/93 349.21 4/2/93 359.68 4/3/93 361.69 4/4/93 348.16 4/5/93 327.35 4/7/93 275.32 4/8/93 275.18 4/9/93 279.80 4/10/93 309.80 4/11/93 346.56 4/12/93 358.42 4/13/93 354.48 4/15/93 354.48 4/15/93 354.48 4/15/93 354.98 4/16/93 350.49 4/18/93 318.49 4/18/93 318.49 4/20/93 312.85 4/21/93 336.40 4/22/93 331.43 4/23/93 320.10 4/24/93 326.28 4/25/93 346.65 4/26/93 337.74 4/27/93 372.56 4/28/93 371.77 4/29/93 373.43 4/30/93 379.19 5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.56 5/10/93 315.15 5/10/93 315.11 5/11/93 328.95 5/10/93 316.48 5/10/93 338.28 5/10/93 338.28 5/10/93 356.64 5/13/93 338.28 5/10/93 317.42 5/18/93 338.28 5/10/93 317.42 5/18/93 338.28 5/10/93 317.42 5/18/93 338.28 5/10/93 317.42 5/18/93 318.18 5/19/93 317.42 5/18/93 318.18		
4/1/93       349.21         4/2/93       359.68         4/3/93       361.69         4/4/93       348.16         4/5/93       327.35         4/7/93       275.32         4/8/93       275.18         4/9/93       279.80         4/10/93       309.80         4/11/93       346.56         4/12/93       358.42         4/13/93       352.28         4/14/93       354.48         4/15/93       354.98         4/16/93       350.49         4/18/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       36.40         4/22/93       331.43         4/25/93       346.65         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.43         4/30/93       379.19         5/1/93       328.58         5/5/93       346.38         5/6/93       354.70         5/793       382.85		
4/2/93       359.68         4/3/93       361.69         4/4/93       348.16         4/5/93       346.86         4/6/93       327.35         4/7/93       275.32         4/8/93       275.18         4/9/93       279.80         4/10/93       309.80         4/11/93       346.56         4/12/93       358.42         4/13/93       352.28         4/14/93       354.98         4/15/93       354.98         4/16/93       350.49         4/18/93       326.80         4/19/93       312.85         4/21/93       336.40         4/22/93       331.43         4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.43         4/30/93       379.19         5/1/93       328.58         5/5/93       346.38         5/6/93       354.70		
4/3/93 361.69 4/4/93 348.16 4/5/93 346.86 4/6/93 327.35 4/7/93 275.32 4/8/93 275.18 4/9/93 279.80 4/10/93 309.80 4/11/93 346.56 4/12/93 358.42 4/13/93 352.28 4/14/93 354.48 4/15/93 354.98 4/16/93 350.49 4/18/93 318.49 4/20/93 312.85 4/21/93 336.40 4/22/93 331.43 4/23/93 320.10 4/24/93 326.28 4/25/93 337.74 4/27/93 372.56 4/28/93 377.77 4/29/93 377.5 5/2/93 371.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 358.28 5/5/93 346.38 5/6/93 354.70 5/7/93 356.64 5/13/93 328.58 5/10/93 31.11.55 5/10/93 356.64 5/13/93 328.58 5/10/93 356.64 5/13/93 338.24 5/16/93 335.11 5/11/93 328.95 5/15/93 336.49 5/16/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11 5/11/93 335.11		
4/5/93       346.86         4/6/93       327.35         4/7/93       275.32         4/8/93       275.18         4/9/93       279.80         4/10/93       309.80         4/11/93       346.56         4/12/93       358.42         4/13/93       352.28         4/14/93       354.48         4/15/93       354.98         4/16/93       350.49         4/18/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       336.40         4/22/93       331.43         4/22/93       331.43         4/26/93       337.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       324.34         5/10/93       354.70         5/7/93       382.88         5/993       400.28         5/10/93       354.70         5/12/93       356.64 <td>4/3/93</td> <td></td>	4/3/93	
4/6/93       327.35         4/7/93       275.32         4/8/93       275.18         4/9/93       279.80         4/10/93       309.80         4/11/93       346.56         4/12/93       358.42         4/13/93       352.28         4/14/93       354.48         4/15/93       354.98         4/16/93       350.49         4/18/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       336.40         4/22/93       331.43         4/23/93       320.10         4/26/93       337.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/9/93       382.88         5/9/93       400.28         5/10/93       335.11         5/11/93       328.95         5/15/93       336.64         5/15/93       336.64 </td <td>4/4/93</td> <td>3<b>48</b>.16</td>	4/4/93	3 <b>48</b> .16
4/7/93       275.32         4/8/93       275.18         4/9/93       279.80         4/10/93       309.80         4/11/93       346.56         4/12/93       358.42         4/13/93       352.28         4/14/93       354.48         4/15/93       354.98         4/16/93       350.49         4/18/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       336.40         4/22/93       331.43         4/23/93       320.10         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/93       382.88         5/993       382.88         5/993       400.28         5/10/93       335.11         5/11/93       335.11         5/15/93       336.64         5/15/93       336.64		346.86
4/8/93       275.18         4/9/93       279.80         4/10/93       309.80         4/11/93       346.56         4/12/93       358.42         4/13/93       352.28         4/14/93       354.48         4/15/93       350.49         4/16/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       326.10         4/22/93       331.43         4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       326.88         5/9/93       382.88         5/9/93       382.88         5/9/93       400.28         5/10/93       335.11         5/12/93       356.64         5/13/93       324.34         5/16/93       335.11 </td <td>4/6/93</td> <td></td>	4/6/93	
4/9/93       279.80         4/10/93       309.80         4/11/93       346.56         4/12/93       358.42         4/13/93       352.28         4/14/93       354.48         4/15/93       350.49         4/16/93       350.49         4/18/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       326.20         4/22/93       331.43         4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       324.58         5/9/93       382.88         5/9/93       382.88         5/10/93       317.11         5/11/93       328.95         5/15/93       324.34         5/16/93       335.11         5/16/93       335.11		
4/10/93       309.80         4/11/93       346.56         4/12/93       358.42         4/13/93       352.28         4/14/93       354.48         4/15/93       354.98         4/16/93       350.49         4/18/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       326.28         4/22/93       331.43         4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       382.88         5/993       400.28         5/10/93       317.11         5/11/93       338.24         5/14/93       328.95         5/15/93       324.34 </td <td></td> <td></td>		
4/11/93       346.56         4/12/93       358.42         4/13/93       352.28         4/14/93       354.48         4/15/93       354.98         4/16/93       350.49         4/18/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       336.40         4/22/93       331.43         4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       382.88         5/993       400.28         5/10/93       417.11         5/11/93       338.24         5/14/93       328.95         5/15/93       324.34         5/16/93       335.11         5/17/93       334.42         5/18/93       318.18     <		
4/12/93 358.42 4/13/93 352.28 4/14/93 354.48 4/15/93 354.98 4/16/93 350.49 4/18/93 318.49 4/19/93 312.85 4/20/93 312.85 4/21/93 336.40 4/22/93 331.43 4/23/93 320.10 4/24/93 326.28 4/25/93 346.65 4/26/93 377.74 4/27/93 372.56 4/28/93 371.77 4/29/93 373.75 5/2/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 358.28 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 36.64 5/13/93 356.64 5/13/93 338.28 5/10/93 417.11 5/11/93 342.85 5/10/93 315.15 5/17/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 338.24 5/16/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
4/13/93       352.28         4/14/93       354.48         4/15/93       354.98         4/16/93       350.49         4/18/93       318.49         4/19/93       318.49         4/20/93       312.85         4/21/93       336.40         4/22/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       377.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/8/93       382.88         5/9/93       400.28         5/10/93       317.11         5/11/93       324.34         5/16/93       335.11         5/15/93       324.34         5/16/93       335.11         5/17/93       318.18         5/19/93       318.18     <		
4/14/93 354.48 4/15/93 354.98 4/16/93 350.49 4/18/93 326.80 4/19/93 318.49 4/20/93 312.85 4/21/93 336.40 4/22/93 331.43 4/23/93 320.10 4/24/93 326.28 4/25/93 346.65 4/26/93 377.74 4/27/93 372.56 4/28/93 371.77 4/29/93 373.43 4/30/93 379.19 5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 382.88 5/9/93 400.28 5/10/93 317.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 328.95 5/15/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 335.11 5/17/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
4/15/93       354.98         4/16/93       350.49         4/18/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       336.40         4/22/93       331.43         4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       377.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/8/93       400.28         5/10/93       417.11         5/11/93       328.85         5/12/93       356.64         5/13/93       338.24         5/16/93       335.11         5/16/93       335.11         5/17/93       318.18         5/19/93       317.42         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15		
4/18/93       326.80         4/19/93       318.49         4/20/93       312.85         4/21/93       336.40         4/22/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/893       382.88         5/993       400.28         5/10/93       417.11         5/11/93       338.24         5/13/93       338.24         5/15/93       324.34         5/16/93       335.11         5/17/93       334.42         5/18/93       318.18         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15		
4/19/93       318.49         4/20/93       312.85         4/21/93       336.40         4/22/93       321.01         4/24/93       326.28         4/25/93       346.65         4/26/93       337.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/893       382.88         5/993       400.28         5/10/93       417.11         5/11/93       338.24         5/13/93       338.24         5/15/93       324.34         5/16/93       335.11         5/17/93       334.42         5/18/93       318.18         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15	4/16/93	350.49
4/20/93       312.85         4/21/93       336.40         4/22/93       331.43         4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/6/93       354.70         5/7/93       382.88         5/993       400.28         5/10/93       417.11         5/11/93       342.85         5/12/93       356.64         5/13/93       324.34         5/16/93       324.34         5/16/93       335.11         5/17/93       334.42         5/18/93       318.18         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15	4/18/93	326.80
4/21/93       336.40         4/22/93       331.43         4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       337.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       315.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       382.88         5/993       400.28         5/10/93       417.11         5/11/93       342.85         5/12/93       356.64         5/13/93       338.24         5/15/93       324.34         5/16/93       335.11         5/17/93       334.42         5/18/93       318.18         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15		
4/22/93       331.43         4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       37.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/8/93       382.88         5/9/93       400.28         5/10/93       417.11         5/11/93       338.24         5/14/93       328.95         5/15/93       324.34         5/16/93       335.11         5/17/93       318.18         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15		
4/23/93       320.10         4/24/93       326.28         4/25/93       346.65         4/26/93       337.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       311.55         5/2/93       311.55         5/3/93       320.77         5/493       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/8/93       400.28         5/10/93       417.11         5/11/93       342.85         5/12/93       356.64         5/13/93       338.24         5/15/93       324.34         5/16/93       335.11         5/17/93       318.18         5/19/93       317.42         5/20/93       325.15		
4/24/93       326.28         4/25/93       346.65         4/26/93       337.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/8/93       382.88         5/9/93       400.28         5/10/93       417.11         5/11/93       342.85         5/12/93       356.64         5/13/93       338.24         5/14/93       324.34         5/16/93       335.11         5/17/93       318.18         5/19/93       317.42         5/20/93       325.15		
4/25/93       346.65         4/26/93       337.74         4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/8/93       400.28         5/10/93       417.11         5/11/93       342.85         5/12/93       356.64         5/13/93       338.24         5/15/93       324.34         5/16/93       335.11         5/17/93       318.18         5/19/93       317.42         5/20/93       325.15		
4/27/93       372.56         4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/8/93       400.28         5/10/93       417.11         5/11/93       342.85         5/12/93       356.64         5/13/93       338.24         5/16/93       335.11         5/16/93       335.11         5/17/93       318.18         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15		
4/28/93       371.77         4/29/93       373.43         4/30/93       379.19         5/1/93       373.75         5/2/93       311.55         5/3/93       320.77         5/4/93       328.58         5/5/93       346.38         5/6/93       354.70         5/7/93       389.50         5/8/93       400.28         5/10/93       417.11         5/11/93       342.85         5/12/93       356.64         5/13/93       338.24         5/16/93       335.11         5/16/93       335.11         5/17/93       318.18         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15	4/26/93	337.74
4/29/93 373.43 4/30/93 379.19 5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 328.95 5/15/93 324.34 5/16/93 335.11 5/17/93 335.11 5/17/93 318.18 5/19/93 317.42 5/18/93 317.42 5/20/93 327.55 5/21/93 325.15		
4/30/93 379.19 5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 328.95 5/15/93 324.34 5/16/93 335.11 5/17/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
5/1/93 373.75 5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 328.95 5/15/93 324.34 5/16/93 325.15 5/17/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
5/2/93 311.55 5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 328.95 5/15/93 324.34 5/16/93 335.11 5/17/93 334.42 5/18/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
5/3/93 320.77 5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 324.34 5/14/93 324.34 5/16/93 335.11 5/17/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
5/4/93 328.58 5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 382.88 5/9/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 324.34 5/16/93 335.11 5/17/93 334.42 5/18/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
5/5/93 346.38 5/6/93 354.70 5/7/93 389.50 5/8/93 382.88 5/9/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 324.34 5/16/93 335.11 5/17/93 334.42 5/18/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		_
5/6/93 354.70 5/7/93 389.50 5/8/93 382.88 5/9/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 324.34 5/16/93 335.11 5/17/93 334.42 5/18/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15	5/5/93	
5/8/93 382.88 5/9/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 328.95 5/15/93 324.34 5/16/93 335.11 5/17/93 334.42 5/18/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15	5/6/93	
5/9/93 400.28 5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 328.95 5/15/93 324.34 5/16/93 335.11 5/17/93 334.42 5/18/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15	5/7/93	389.50
5/10/93 417.11 5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 328.95 5/15/93 324.34 5/16/93 335.11 5/17/93 334.42 5/18/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
5/11/93 342.85 5/12/93 356.64 5/13/93 338.24 5/14/93 328.95 5/15/93 324.34 5/16/93 335.11 5/17/93 334.42 5/18/93 318.18 5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
5/12/93     356.64       5/13/93     338.24       5/14/93     328.95       5/15/93     324.34       5/16/93     335.11       5/17/93     334.42       5/18/93     318.18       5/19/93     317.42       5/20/93     327.55       5/21/93     325.15		
5/13/93       338.24         5/14/93       328.95         5/15/93       324.34         5/16/93       335.11         5/17/93       334.42         5/18/93       318.18         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15		
5/14/93     328.95       5/15/93     324.34       5/16/93     335.11       5/17/93     334.42       5/18/93     318.18       5/19/93     317.42       5/20/93     327.55       5/21/93     325.15		
5/15/93       324.34         5/16/93       335.11         5/17/93       334.42         5/18/93       318.18         5/19/93       317.42         5/20/93       327.55         5/21/93       325.15		
5/17/93     334.42       5/18/93     318.18       5/19/93     317.42       5/20/93     327.55       5/21/93     325.15	5/15/93	
5/18/93     318.18       5/19/93     317.42       5/20/93     327.55       5/21/93     325.15		
5/19/93 317.42 5/20/93 327.55 5/21/93 325.15		
5/20/93 327.55 5/21/93 325.15		
5/21/93 325.15		
		318.73

# San Juan 32-9 Unit #284 Line Pressure Data

Date	Avg_Line_Pres
5/23/93	344.38
5/24/93	303.52
5/25/93	315.49
5/26/93	318.08
5/27/93	341.30
5/28/93	317.71
5/29/93	319.80
5/30/93	
6/2/93	307.25
6/3/93	337.79
6/4/93	325.81
	326.26
6/5/93	333.50
6/6/93	306.59
6/7/93	309.83
6/8/93	305.05
6/9/93	308.38
6/10/93	190.36
6/11/93	233.09
6/12/93	298,21
6/13/93	295,93
6/14/93	293,43
6/15/93	292.04
6/16/93	291.11
6/17/93	319,44
6/18/93	325.38
6/19/93	340.32
6/20/93	296.45
6/21/93	309.73
6/22/93	340.58
6/23/93	324.96
6/24/93	313.27
6/25/93	340.64
6/26/93	
6/27/93	310.00
6/28/93	306.35
	319.57
6/29/93	351.77
6/30/93	327.54
7/2/93	322.19
7/3/93	317.01
7/4/93	323.98
7/5/93	319.07
7/6/93	355.94
7/7/93	330.71
7/8/93	357.25
7/10/93	285.53
7/12/93	273.00
7/13/93	278.07
7/14/93	278.97
7/15/93	349.02
7/16/93	333.14
7/17/93	286.36
7/18/93	283.10
7/19/93	281.25
7/27/93	192.29
7/28/93	191.05
7/29/93	303.14
7/30/93	331.05
7/31/93	413.79
8/1/93	383.99
	000.03

# San Juan 32-9 Unit #287 Line Pressure Data

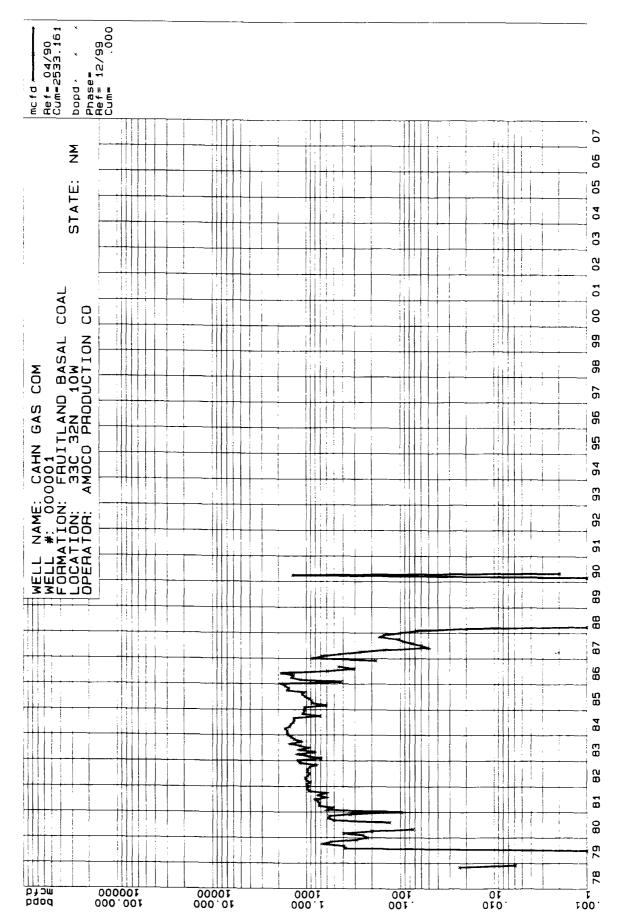
Date	Avg_Line_Pres
2/6/93	298.40
2/7/93	296.41
2/8/93	315.23
2/9/93	306.13
2/10/93	294.33
2/11/93	288.03
2/12/93 2/14/93	290.27
2/15/93	288.69 288.34
2/16/93	292.26
2/17/93	295.84
2/18/93	297.93
2/19/93	296.53
2/20/93	296.04
2/21/93	295.98
2/22/93	296.29
2/23/93	293.64
2/28/93	293.09
3/1/93	354.94
3/2/93 3/3/93	294.03
3/4/93	296.51 303.05
3/5/93	305.18
3/6/93	311.50
3/9/93	363.86
3/12/93	349.09
3/14/93	329.13
3/15/93	335.78
3/16/93	352.13
3/17/93	364.28
3/18/93 3/19/93	366.93 373.15
3/20/93	375.15 375.92
3/21/93	375.95
3/22/93	374.59
3/23/93	374.76
3/24/93	378.96
3/25/93	377.22
3/26/93	352.17
3/27/93	303.26
3/29/93 3/30/93	295.34 288.50
3/31/93	200.50 306.99
4/1/93	355.28
4/2/93	364.39
4/3/93	365.47
4/4/93	352.46
4/5/93	350.77
4/6/93	329.26
4/7/93	278.94
4/8/93	278.45
4/9/93 4/10/93	283.38 314.77
4/11/93	351.07
4/12/93	363.05
4/13/93	356.57
4/14/93	358.72
4/15/93	360.04
4/16/93	355.59
4/18/93	330.91
4/19/93	322.54
4/20/93 4/21/93	317.11 340.94
4/22/93	335.38

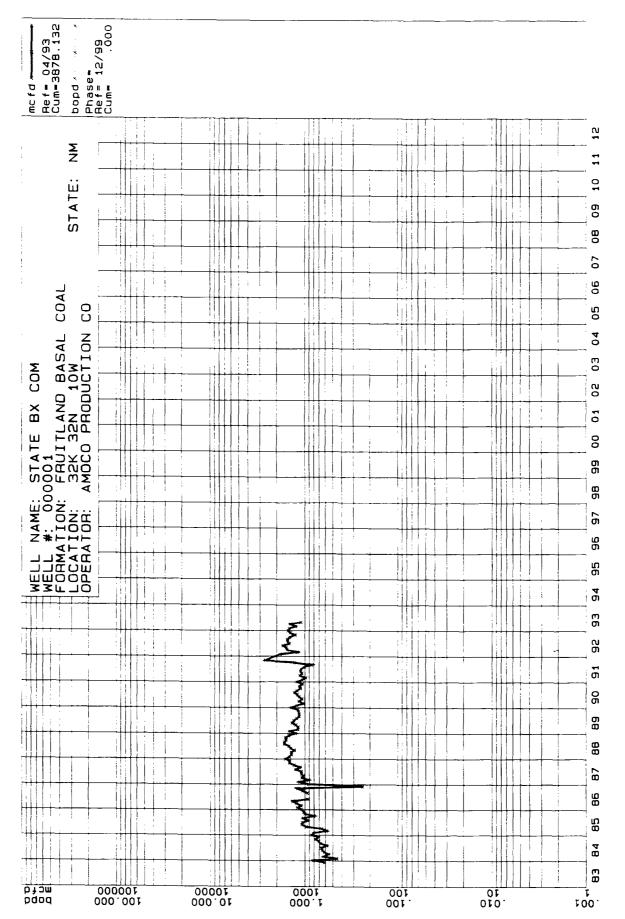
## San Juan 32-9 Unit #287 Line Pressure Data

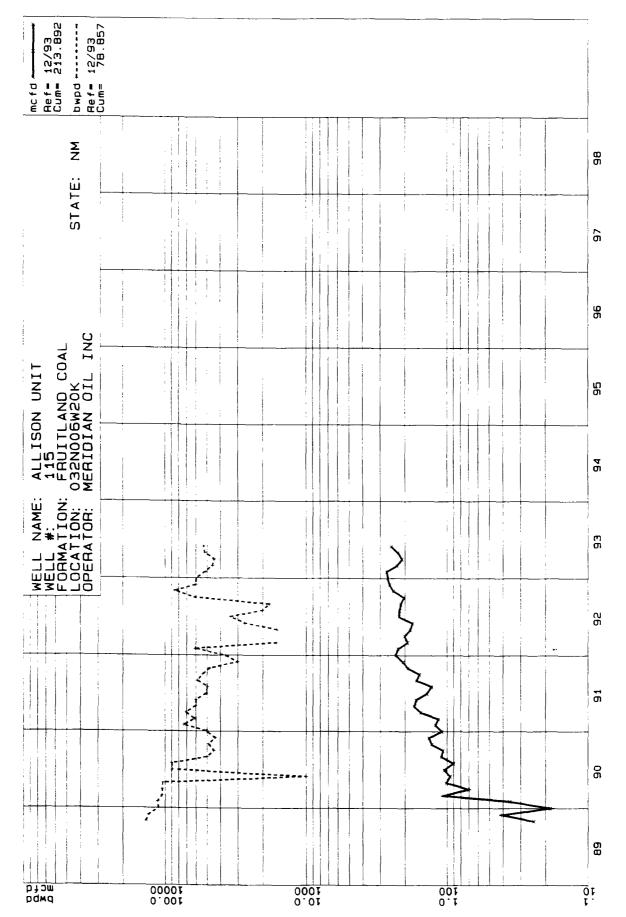
Date	Avg_Line_Pres
4/23/93	322.63
4/24/93	331.01
4/25/93 4/26/93	352.05 308.96
4/27/93	306.96 377.04
4/28/93	376.31
4/29/93	380.72
4/30/93	390.64
5/1/93	379.34
5/2/93	319.11
5/3/93 5/4/93	329.58
5/4/93 5/5/93	336.19 353.60
5/6/93	362.73
5/7/93	393.55
5/8/93	385.82
5/9/93	405.18
5/10/93	424.56
5/11/93 5/12/93	346.74 362.08
5/13/93	334.15
5/16/93	316.28
5/19/93	310.22
5/20/93	313.00
5/22/93	312.77
5/23/93 5/26/93	312.00 296.69
5/27/93	346.11
5/30/93	312.75
6/7/93	300.75
6/8/93	315.52
6/9/93 6/10/93	312.41 309.97
6/11/93	309.65
6/12/93	314.47
6/13/93	317.91
6/14/93	336.78
6/15/93 6/16/93	303.49 320.02
6/17/93	343.11
6/18/93	333.41
6/19/93	347.70
6/20/93	340.21
6/21/93	326.74
6/22/93 6/23/93	347.82 331.55
6/24/93	320.33
6/25/93	348.58
6/26/93	317.54
6/27/93	314.06
6/28/93 6/29/93	325.32 359.89
6/30/93	347.31
7/2/93	330.26
7/3/93	325.46
7/ <b>4/93</b>	332.95
7/ <b>5/9</b> 3 7/ <b>6/93</b>	328.31 365,65
7/ <b>7/93</b>	337.75
7/8/93	363.50
7/10/93	295.96
7/13/93	288.03
7/1 <b>4/</b> 93 7/15 <b>/</b> 93	299.02 355.04
1113/33	333.04

San Juan 32-9 Unit #287 Line Pressure Data

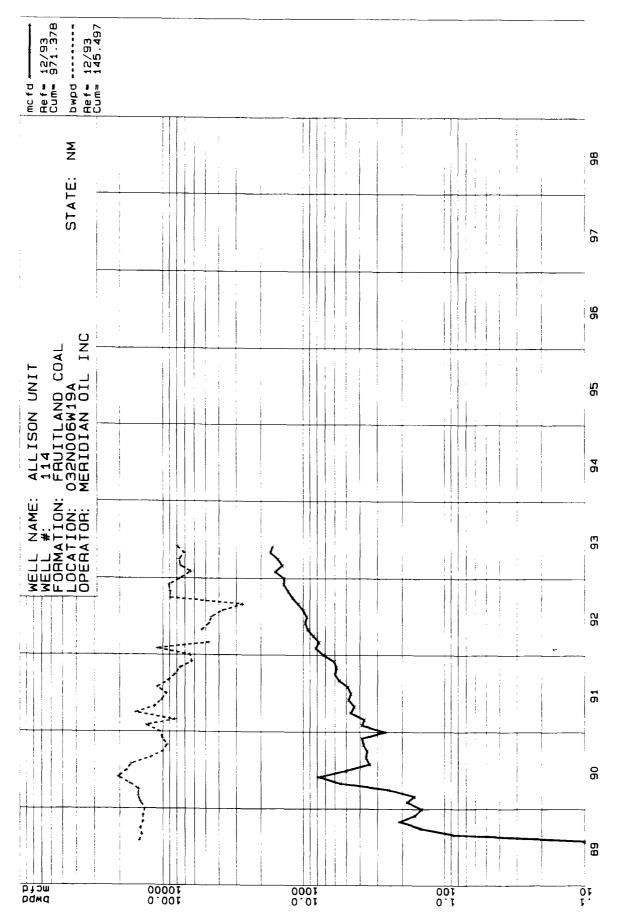
Date	Avg_Line_Pres
7/16/93	346.42
7/17/93	311.69
7/18/93	330.70
7/19/93	383.48
7/22/93	293.98
7/23/93	292.03
7/24/93	303.27
7/25/93	257.14
7/26/93	393.72
7/27/93	455.03
7/28/93	478.03
7/29/93	416.26
7/30/93	333.85
7/31/93	421.44
8/1/93	391.58



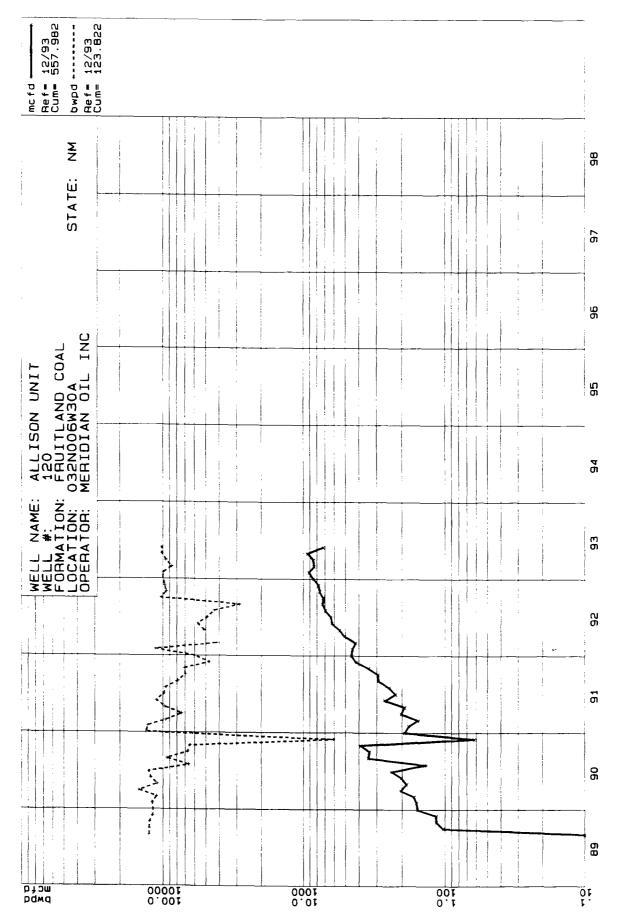




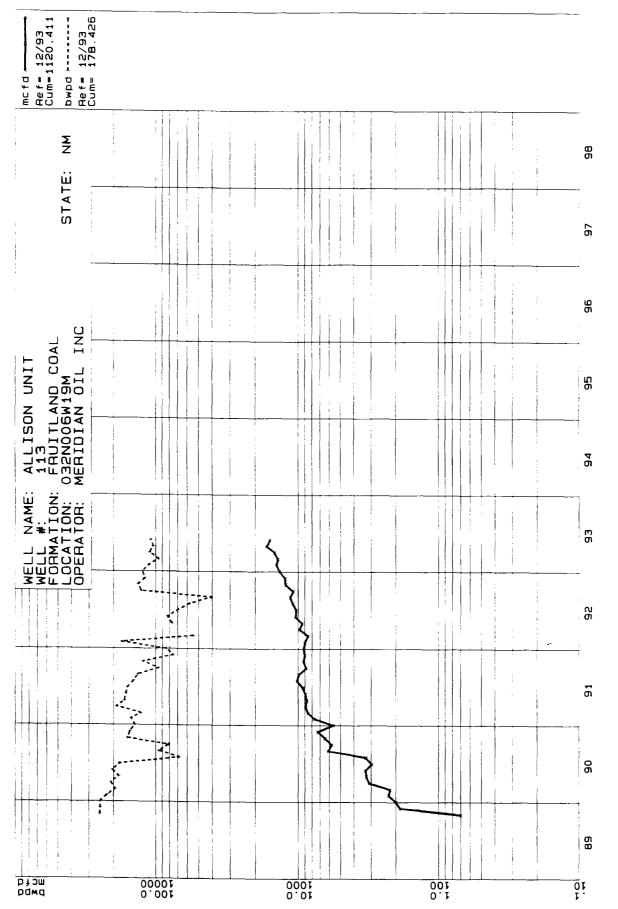
DATE



DATE



DATE



DATE

## San Juan 32-9 Unit #209 Line Pressure Data

				-
	Date A	\vg_Line_Pres		
	2/6/93	407.72		
	2/16/93			
		404.39		
	2/17/93	402.11		
	2/18/93	404.67		
	2/19/93	407.38		. –1
	2/20/93	400.89		, 3647
	2/21/93	397.56	370.43	1 20
	2/22/93	447.65	5 3 6 4 5	
	2/23/93	416.75		
	2/25/93			
		259.29		
	2/26/93	289.38		
	2/27/93	285.54		
	2/28/93	292.21		
	3/1/93	250.68		
	3/2/93	235.76		
	3/3/93	232.96		
	3/4/93	245.18		
	3/5/93	248.89		
	3/6/93	255.95		
	3/9/93	242.07		
	3/11/93	248.22		
	3/12/93	252.22		
	3/14/93	338.90		
	3/15/93	365.69		•
	3/16/93	,	- 0 1 -	, 0838
		399.01	294.20	10670
	3/17/93	421.39		
	3/18/93	391.50		
	3/19/93	369.22		
	3/20/93	381.45		
	3/21/93	346.25		
	3/23/93	269.69		
	3/24/93	271.77		
	3/25/93	270.50		
	3/26/93			
		269.30		
	3/27/93	259.95		
	3/29/93	260.11		
	3/30/93	258.91		
	3/31/93	269.36		
	4/1/93	278.89		
	4/2/93	280.20		
	4/3/93	282.39		
	4/4/93	278.74		
	4/5/93	273.26		
	4/6/93	273.09		
	4/7/93			
		280.51		
	4/8/93	287.98		
\ 2 C	4/9/93	280.57	•	
128 mej -	4/10/93	276.18	i i	
•	4/11/93	282.79		
	4/12/93	283.86	i	
	4/13/93	325.74	/	
	4/14/93	332.91	298.72	
71 ) may 5	4/15/93	362.00	210: =	
42 m(1 >				
7	4/16/93	379.09		
	4/18/93	372.42		
	4/19/93	363.75		
	4/20/93	313.29		
	4/21/93	306.43	[	
	4/22/93	305.81	1	
	4/23/93	297.15	•	
	4/24/93			
		288.31	1	
	4/25/93	286.68	1	
	4/26/93	281.14	<i>[</i>	
	4/27/93	277.22	/	
			÷	8/17/9
				0/1/3

8/17/93 8:11:47 AM

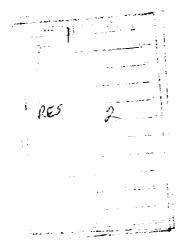
San Juan 32-9 Unit #209 Line Pressure Data

Date A	vg_Line_Pres			
4/28/93	268.63	298,72	.100 =	
4/29/93	272.80	27C , —	• -	
4/30/93	271.67			
5/2/93	270.67			
5/3/93	276.39			
5/4/93	289.54			
5/5/93	289.24			
5/6/93	289.84			
5/7/93	289.79			
5/8/93	290.64			
5/9/93	282.58			
5/10/93	283.86			
5/11/93	281.11			
5/12/93	280.31			
5/13/93	269.39			
5/14/93	263.45			
5/15/93	273.57			
5/16/93	260.17	221		
5/17/93	260.34	271.44		
5/18/93 5/19/93	275.16 259.30	. , ,		
5/20/93	259.50 264.51			
5/21/93	261.74			
5/22/93	266.31			
5/23/93	261.97			
5/24/93	263.06			
5/25/93	262.97			
5/26/93	272.43			
5/27/93	259.95			
5/28/93	261.52			
5/29/93	257.46			
5/30/93	254.55 🖊			
6/2/93	282.26			
6/3/93	278.54			
6/4/93	280.81			
6/5/93	273.23			
6/6/93	266.16			
6/7/93	268.94			
6/8/93	280.69			
6/9/93	290.34			
6/10/93 6/11/93	285.56			
6/12/93	286.82 281.49			
6/13/93	279.05	<b></b>		
6/14/93	276.11	126-82	.056	
6/15/93	315.81		<i>3</i> <b>30</b>	
6/16/93	316.83			
6/17/93	301.61			
6/18/93	296.68			
6/19/93	290.50			
6/20/93	281.86			
6/21/93	274.85			
6/22/93	282.23			
6/23/93	290.00			
6/24/93	288.40			
6/25/93	303.83			
6/26/93	287.68			
6/27/93	286.58			
6/28/93	296.65			
6/29/93	292.80			
6/30/93	281.51 _			
7/1/93	287.79			
7/2/93	283.14 275.29			
7/3/93	275.28			
			8/17/93 8:11:47	ΔM

San Juan 32-9 Unit #209 Line Pressure Data

Date	Avg_Line_Pres
7/4/93	283.15
7/5/93	270.99
7/6/93	265.74
7/7/93	277.44
7/8/93	281.99
7/10/93	298.47
7/12/93	302.00
7/13/93	295.75
7/14/93	293.07
7/15/93	291.20
7/16/93	286.40
7/17/93	287.66
7/18/93	288.95
7/19/93	285.26
7/22/93	292.02
7/23/93	298.60
7/24/93	272.41
7/25/93	291.06
7/26/93	309.22
7/2 <b>7/93</b>	301.15
7/28/93	297.97
7/29/93	303.70
7/30/93	320.38
7/31/93	349.61
8/1/93	337.73

# MERIDIAN OIL



PERENTED BLM
SBURL 12 AM ID: 55
C70 FARILL UTCN, NM

July 12, 1993

Ray Hagar Brian Davis Bureau of Land Management 1235 La Plata Highway Farmington, New Mexico 87401

Dear Sirs:

Please find the attached production volumes for the requested San Juan 32-9 Unit Fruitland Coal wells. This data is being supplied to facilitate in commerciality determinations submitted earlier this year by Meridian Oil.

Attached are daily and monthly volumes for each well requested. If you have any questions, please feel free to contact me at 326-9892. Thank you.

Sincerely,

Jay Knaebel

Reservoir Engineer

9 3. KC

**Attachments** 

JBK/rjp



# State of New Mexico

OFFICE OF THE

# Commissioner of Public Lands

Santa Fe

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1314

June 29, 1993

Meridian Oil Inc. P.O. Box 4289 3535 East 30th Street Farmington, New Mexico 87499-4289

Attn: Mr. John F. Zent

Re: 1993 1st Amendment Plan of Development

San Juan 32-9 Unit

San Juan County, New Mexico

#### Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY B. POWELL

COMMISSIONER OF RUBLIC LANDS

FLOYD O. PRANDO, Director

Oil and Gas Division

(505) 827-5744

RBP/FOP/pm

cc: OCD - Roy Johnson

BLM

# MERIDIAN OIL

Bureau of Land Management (3) Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401

Oil Conservation Division (2) State of New Mexico Energy & Minerals Department P.O. Box 2088 Santa Fe. NM 87504

June 18, 1993

Commissioner of Public Lands (2) State of New Mexico P.O. Box 1148 Santa Fe, NM 87501

RE: SAN JUAN 32-9 UNIT 1993 POD, 1ST AMENDMENT

SAN JUAN COUNTY, NEW MEXICO

#### Gentlemen:

Undercover dated March 9, 1993, Meridian Oil Inc, Operator, filed an initial Plan of Development for the San Juan 32-9 Unit Area, 1993. Said Plan of Development, has been approved by all regulatory agencies. Meridian has recently been requested to add two (2) wells to the 1993 Plan of Development for the San Juan 32-9 Unit Area. Said wells have been proposed by a drillblock owner and Meridian will initiate permitting and obtaining unit/drillblock approval. The two (2) wells to be added to the 1993 Plan of Development are as follows:

WELL NAME	DRILLBLOCK	<b>FORMATION</b>
San Juan 32-9 Unit # 113	W/2 Section 9, T31N, R9W	Dakota
San Juan 32-9 Unit # 114	E/2 Section 17, T31N, R9W	Dakota

The two (2) wells detailed above may be completed at shallower horizons if merited by geological determination and if the option is available under State spacing requirements. Meridian Oil Inc, as Unit Operator, plans to drill any offset wells required to prevent drainage to unitized substances and any other wells deemed necessary or desirable by the Unit Working Interest Owners. If this First Amended Plan of Development is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space proved on the attached sheet and return an approved copy to the undersigned at the letterhead address. Copies of this letter are being sent to the unit working interest owners shown on the attached sheet.

Very truly yours,

rea Landm

JZ/lr

junejz/10-11

Conoco Inc. - Attn: Steve Klein

Amoco Production - Attn: Jodie B. West

Regulatory Agencies June 17, 1993 Page Two

APPROVED:		DATE	):
	Bureau of Land Management		
	(Subject to like approval by the		
	Commissioner of Public Lands and		
	the Oil Conservation Division)		
APPROVED:		DATE	E:
	Commissioner of Public Lands		
	(Subject to like approval by the		
	Bureau of Land Management and		
	the Oil Conservation Division)		
,			
APPROVED:	Dy Chillian	DATE	<u>: 7-1-93</u>
	Oil Conservation Division		
	(Subject to like approval by the		
	Bureau of Land Management and the		
	Commissioner of Public Lands)		

# SAN JUAN 32-9 UNIT MESAVERDE WORKING INTEREST OWNERS

Amoco Production Company
Bolack Minerals Co.
John S. Brown Jr.
Conoco Inc.
El Paso Production Company
Fina Oil & Chemical Company
Koch Industries Inc./Koch Exploration Company
T. H. McElvain Oil & Gas Limited Partnership
Meridian Oil Production Inc.
Phillips Petroleum Company
James M. Raymond
Southland Royalty Company
Texaco Exploration & Production Inc.
Total Minatome Corporation
Williams Production Co.



Steven C. Klein Senior Landman Midland Division Exploration Production

Conoco Inc.

10 Desta Drive, Suite 100W

Midland, Texas 79705-4500

(915) 686-5475

ML CONCEP TO 12 PM SIG

193 (James) - mi 9-01

June 7, 1993

Oil Conservation Division
State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico 87501-2088

Meridian Oil Inc. 3535 East 30th Street P.O. Box 4289 Farmington, New Mexico 87499-4289 Bureau of Land Management Farmington Resource Area 1235 La Plata Highway Farmington, New Mexico 87401

Commissioner of Public Lands State of New Mexico P.O Box 1148 Santa Fe, New Mexico 87501-1148

Re: San Juan 32-9 Unit, Well Nos. 265 and 267

San Juan County, New Mexico

**Commerciality of Fruitland Coal Formation Wells** 

#### Gentlemen:

By letter dated May 13, 1993, Meridian Oil Inc. advised that three (3) Fruitland Coal Wells are not capable of producing unitized substances in paying quantities from within the San Juan 32-9 Unit. Conoco is a 50% Working Interest owner in two of said wells being the No. 265, located in the W/2 of Section 17-31N-10W, and No. 267, being located in the W/2 of Section 18-31N-9W.

Conoco contends that, to date, the two wells in question have not been satisfactorily completed. By letter dated April 12, 1993, Conoco requested that Meridian Oil, as Operator, perform an additional procedure on the No. 265 in order to attempt to bring production up to an economic level. If successful, the operation would then be performed on the No. 267.

To date, Meridian Oil has not commenced said procedure. At this time, until the additional procedure we have requested has been performed, we disagree with Meridian's contention that a "subcommercial reservoir" exists under the drilling blocks. Conoco's position is that these wells were not initially completed to our satisfaction, and until the requested procedures have been performed, their commerciality cannot be determined.

Very truly yours,

Francisco State State

Steven C. Klein

# MERIDIAN OIL

D- Unitletter The

May 13, 1993

Bureau of Land Management (2) Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401

Commissioner of Public Lands (1) State of New Mexico P.O. Box 1148 Santa Fe, NM 87501-1148

Oil Conservation Division (1) State of New Mexico P.O. Box 2088 Santa Fe, NM 87501-2088

> SAN JUAN 32-9 UNIT, 14-08-001-569 We No. 210, 265, 267 RE: SAN JUAN COUNTY, NEW MEXICO NOTICE OF NON-COMMERCIAL WELLS FRUITLAND FORMATION

## Gentlemen:

In accordance with Section 11a of the San Juan 32-9 Unit Agreement, approved June 26, 1953, Meridian Oil Inc., as Unit Operator, has determined that the following wells are not capable of producing unitized substances in paying quantities from the Fruitland formation and should not be admitted to the Participating Area:

#### San Juan 32-0 Unit #210

		n Juan 32-9	Unit #210	
	Tract/			
<b>Description</b>	Lease No.	<u>Acres</u>	Tract Description	Comp. Date
W/2 2-31N-10W	Tr. 31/	40.57	Lot 4	4/23/90
	E-70-25			
	Tr. 36/	40.00	NE/4 SW/4	
	E-286-27			
	Tr. 40/	40.00	SW/4 NW/4	
	E-3150-1			
	Tr. 47/	40.00	NW/4 SW/4	
	E-5318			
	Tr. 51/	40.00	SE/4 NW/4	
	E-5843			
	Tr. 60/	80.00	S/2 SW/4	
	B-11133-31			
	Tr. 61/	40.49	Lot 3	
	B-11133.32			

# San Juan 32-9 Unit #265

<u>Description</u>	Tract/ <u>Lease No.</u>	Acres	Tract Description	Comp. Date
W/2 17-31N-09W	Tr. 4/ SF-078386	313.79	Lots 3-6, 11-14	8/16/90

# San Juan 32-9 Unit #267

<u>Description</u>	Tract/ <u>Lease No.</u>	Acres	Tract Description	Comp. Date
W/2 18-31N-09W	Tr. 6/ SF-078438	201.47	Lots 7-10, 15-18	8/27/90

A recap of the production from each of the three (3) wells is attached for your review. Attempts to improve production include using injection compression and a surface separator to handle produced paraffin. Despite this work, the wells have failed to respond, indicating a subcommercial reservoir underlying the drilling block.

Please advise in writing of your determination regarding these wells as soon as possible.

If there are any questions regarding this letter, call John Zent at 326-9758.

Very truly yours,

John F

ea Landman

JZ/lr notice/1-2

xc: 32-9

32-9 Frt. P.A. File WI Owners

Fina Oil & Chemical Company

Koch Industries, Inc.

T. H. McElvain Oil & Gas Limited Partnership

**Phillips Petroleum Company** 

Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay & Madell Miller Mast Trusts

Southland Royalty Company

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Bolack Minerals Company
Mr. John S. Brown, Jr.
Conoco, Inc.
El Paso Production Company
Fina Oil & Chemical Company
Koch Industries, Inc.
T. H. McElvain Oil & Gas Limited Partnership
Phillips Petroleum Company
Mr. James M. Raymond, Ind. & as
Trustee for Corinne Miller Gay &
Madell Miller Mast Trusts
Southland Royalty Company
Texaco Exploration & Production Inc.
Total Minatome Corporation
Williams Production Company

**Amoco Production Company** 

Arco Oil & Gas Company

# MERIDIAN OIL COMMERCIALITY DETERMINATION **BLM DATA SHEET**

FOR LEASE:

SAN JUAN 32-9 UNIT

210

**WELL INFORMATION:** 

PRODUCTION TAXES:

GAS % OF

LOCATION 031N010W02N COUNTY SAN JUAN STATE NM FORMATION

BASIN (FRUITLAND COAL) MERIDIAN OIL INC

**OPERATOR** SPUD DATE 03/19/90 CMPL DATE 04/23/90 1ST DLVRY 03/09/92

GWI 100.00% 87.50% NRI

REVENUE 3.75% (NM) SEVERANCE SCHOOL (NM) 3.15% AD VALOREM (NM) 1.04% CONSERVATION (NM) 0.18% PROD. EQUIP. 0.19% (NM) TOTAL 8.31%

Printed: 03/11/93 14:58

PRESSURE DATA:

**WELL COST DATA:** 

Date: 05/02/90

WHSIP: BHSIP: 645 (PSIG) 694 (PSIG)

TOTAL WELL COST: **PAYOUT YEARS:** 

280.6 (M\$) NO PAYOUT

**AVERAGE PRODUCT PRICING:** 

PRI/GAS 1992 - \$1.59(MCF)

Based on an average heating value of 1070 MMBTU/MCF.

#### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

	ESTIMATED AN	NNUAL PRODUC	CTION	OPERATING EXPENSES							
	GAS	OIL	WATER	BASE	WATER	TOTAL					
YEARS	(MMCF)	(MBO)	(MBW)	(M\$)	(M\$)	(M\$)					
1990	0.0	0.0	0.0	0.0	0.0	0.0					
1991	0.0	0.0	0.0	0.0	0.0	0.0					
1992	55.1	0.0	0.0	2.7	0.0	2.7					
1993	40.1	0.0	0.0	3.3	0.0	3.3					
1994	37.9	0.0	0.0	3.3	0.0	3.3					
1995	32.3	0.0	0.0	3.3	0.0	3.3					
1996	27.5	0.0	0.0	3.3	0.0	3.3					
1997	23.3	0.0	0.0	3.3	0.0	3.3					
1998	19.8	0.0	0.0	3.3	0.0	3.3					
1999	16.9	0.0	0.0	3.3	0.0	3.3					
2000	14.3	0.0	0.0	3.3	0.0	3.3					
2001	12.2	0.0	0.0	3.3	0.0	3.3					
2002	10.4	0.0	0.0	3.3	0.0	3.3					
2003	8.8	0.0	0.0	3.3	0.0	3.3					
2004	7.5	0.0	0.0	3.3	0.0	3.3					
2005	6.4	0.0	0.0	3.3	0.0	3.3					
2006	5.4	0.0	0.0	3.3	0.0	3.3					
2007	4.6	0.0	0.0	3.3	0.0	3.3					
2008	3.9	0.0	0.0	3.3	0.0	3.3					

NOTE: Economics were run at a discount rate of 9.00%

\*Base operating expenses were held flat @ \$390/mo. (\$271/mo. for dry wells).

Water disposal costs were also held flat @ \$1.55/Bbl.

<b>37,111</b>	32-9 UNIT 2 RUITLAND COAL)	10 FIELD	•	MERIDIAN OIL :		
====== 0	IL CUM =====	===	=== GAS CUM	======	==== WATER	CUM =====
PC DATE	BBLS	PC	DATE	MCF	DATE	BBLS
=======		=======	.s========	==========	=========	========
YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1990						
1991						
1992			21835	21835		
1993			1368	23203		

ANNUAL PRODUCTION FOR 4567A

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PHS020M1

PF10 - HELP INFORMATION

B MY JOB

FARMINGTON

LU #21

							PRODUCTION				Pi	HS030M1
				210					N OIL			
BAS	IN	(FRUIT	rland co	DAL) FIE	LD		FRI	JITLA	ND COA	IL ZONE		
												•
		ON	PC	PROD	GRV		PROD	ON	BTU		WATER P	
1						01				15.025		0
2	_					01				15.025		0
3	2	23				01	2000	23	1079	15.025		0
4	2	30				01	911	30	1079	15.025		0
5	2	27				01	1916	27	1079	15.025		0
6	2	26				01	1146	26	1068	15.025		0
7	2	31				01	2728	31	1068	15.025		0
8	2	31				01	3314	31	1068	15.025		0
9	2	30				01	2670	30	1068	15.025		0
10	2	31				01	2698	31	1068	15.025		0
11	2 F	30				01	2953	30	1068	15.025		0
12	2 F	31				01	1499	31	1065	15.025		0
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MY	JOE	}			NUM	LU	#21					

			-9 UNIT TLAND CO	210 DAL) FIE	ELD					ND CO	INC AL ZONE			
		DAYS		OIL ===		====		===	GAS	Z====:				•
MO	T S	ON	PC	PROD	GRV	PC	F	PROD	ON	BTU	PRESS	WATER	PROD	С
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B MY	JOE	1			NUM	LU	#21							

1993 MONTHLY PRODUCTION FOR 4567A

PHS030M1

FARMINGTON

# MERIDIAN OIL **COMMERCIALITY DETERMINATION BLM DATA SHEET**

FOR LEASE:

SAN JUAN 32-9 UNIT

265

**WELL INFORMATION:** 

PRODUCTION TAXES:

GAS % OF

LOCATION 031N009W17L COUNTY SAN JUAN STATE NM BASIN (FRUITLAND COAL) FORMATION

**OPERATOR** MERIDIAN OIL INC

SPUD DATE 07/26/90 **CMPL DATE** 08/16/90 1ST DLVRY 03/03/92 GWI 100.00% **NRI** 87.50%

**REVENUE SEVERANCE** (NM) 3.75% 3.15% **SCHOOL** (NM) AD VALOREM 1.04% (NM) **CONSERVATION** (NM) 0.18% PROD. EQUIP. (NM) 0.19%

Printed: 03/11/93 14:58

**TOTAL** 

8.31%

PRESSURE DATA:

**WELL COST DATA:** 

Date: 08/31/90

WHSIP: 642 (PSIG) BHSIP: 692 (PSIG) TOTAL WELL COST: **PAYOUT YEARS:** 

280.6 (M\$) NO PAYOUT

AVERAGE PRODUCT PRICING:

PRI/GAS 1992 - \$1.42(MCF)

Based on an average heating value of 1070 MMBTU/MCF.

#### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

	ESTIMATED A	NNUAL PRODUC	CTION	OPI	ERATING EXPEN	ISES
YEARS	GAS (MMCF)	OIL (MBO)	WATER (MBW)	BASE (M\$)	WATER (M\$)	TOTAL ( <b>M\$</b> )
1990	0.0	0.0	0.0	0.0	0.0	0.0
1991	0.0	0.0	0.0	0.0	0.0	0.0
1992	2.0	0.0	0.3	2.7	0.5	3.2
1993	2.4	0.0	0.3	3.3	0.4	3.7
1994	0.4	0.0	0.0	0.5	0.1	0.6

NOTE: Economics were run at a discount rate of 9.00%

\*Base operating expenses were held flat @ \$390/mo. (\$271/mo. for dry wells).

Water disposal costs were also held flat @ \$1.55/Bbl.

SAN JUAN 32 BASIN (FRU:	ITLAND COAL	•		MERIDIAN OIL FRUITLAND CO	AL ZONE	0. 61.04
===== UIL	CUM =====	====	:=== GAS CUM	======	==== WAIE	( CUM =====
PC DATE	BBL	_S PC	DATE	MCF	DATE	BBLS
YEAR 1990	0IL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1992 1993			1969 121	1969 2090		

ANNUAL PRODUCTION FOR 4884A

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PHS020M1

PF10 - HELP INFORMATION

B MY JOB

FARMINGTON

LU #31

FAR	MIN	GTON		199	2 MON	THLY	PRODUCTION	I FOR	4884	IA.		PHS030	DM1
SAN	JU	AN 32	-9 UNIT	265			MER	IDIA	N OIL	INC			
BAS	SIN	(FRUI	TLAND CO	DAL) FIE	LD		FRU	ITLA	ND COA	AL ZONE			
		DAYS	=====	OIL ===	====	====		GAS	=====	.=====			
MO	T S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	С
1	2					01				15.025			0
2	2					01				15.025			0
3	2	19				01	154	19	898	15.025			0
4	2	30				01	260	30	898	15.025			0
5	2	31				01	162	31	1110	15.025			0
6	2	30				01	488	30	1110	15.025			0
7	2	31				01	120	31	1110	15.025			0
8	2	31				01	118	31	1081	15.025			0
9	2	30				01	164	30	1081	15.025			0
10	2	31				01	161	31	1081	15.025			0
11	2 F	30				01	201	30	1081	15.025			0
12	2 F	31				01	141	31	1081	15.025			0
	F	F6 -	RETURNS	TO ANNU	JAL D	SPLA	Y	PF3	3 - TR	ANSFER T	O UPDA	TE	
	PF	10 -	HELP IN	FORMATIO	ON			PFS	- DI	SPLAY MO	NTHLY	INJECT	ION
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B MY	100	,			NUM	111	#31						
D M	JUE	•			NOM	ĽŪ	#31						

SAN	JU		-9 UNI	199 T 265 COAL) FIE		HLY		RIDIA	N OIL			PHS03	0M1
		DAYS	=====	= OIL ===	.===	====	*********	GAS	=====	======			٠
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1	2 F	31				01	121	31	1081	15.025			0
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B MY	JOE	3			NUM	LU	#31						

# MERIDIAN OIL COMMERCIALITY DETERMINATION BLM DATA SHEET

Printed: 03/11/93 14:58

FOR LEASE:

SAN JUAN 32-9 UNIT

# 267

**WELL INFORMATION:** 

PRODUCTION TAXES:

GAS % OF 031N009W18K LOCATION **REVENUE** COUNTY SAN JUAN SEVERANCE (NM) 3.75% STATE NM SCHOOL (NM) 3.15% FORMATION **BASIN (FRUITLAND COAL)** 1.04% AD VALOREM (NM) **CONSERVATION OPERATOR** MERIDIAN OIL INC (NM) 0.18% SPUD DATE 08/08/90 PROD. EQUIP. (NM) 0.19% CMPL DATE 08/23/90 TOTAL 8.37%

1ST DLVRY 04/09/92 GWI 100.00% NRI 87.50%

PRESSURE DATA:

WELL COST DATA:

Date: 10/06/90 TOTAL WELL COST:

WHSIP: 250 (PSIG) BHSIP: 381 (PSIG) TOTAL WELL COST: 280.6 (M\$) PAYOUT YEARS: NO PAYOUT

**AVERAGE PRODUCT PRICING:** 

PRI/GAS 1992 - \$1.42(MCF)

Based on an average heating value of 1070 MMBTU/MCF.

#### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

	ESTIMATED AN	INUAL PRODUC	CTION	OPE	PRATING EXPEN	TOTAL (M\$) 0.0 0.0 4.7 5.4 4.6 4.0 3.7 3.5 3.4		
	GAS	OIL	WATER	BASE	WATER			
YEARS	(MMCF)	(MBO)	(MBW)	(M\$)	(M\$)	(M\$)		
1990	0.0	0.0	0.0	0.0	0.0	0.0		
1991	0.0	0.0	0.0	0.0	0.0	0.0		
1992	9.0	0.0	1.5	2.4	2.3	4.7		
1993	12.0	0.0	1.4	3.3	2.2	5.4		
1994	11.5	0.0	0.9	3.3	1.4	4.6		
1995	9.8	0.0	0.5	3.3	0.8	4.0		
1996	8.3	0.0	0.3	3.3	0.4	3.7		
1997	7.1	0.0	0.2	3.3	0.3	3.5		
1998	6.0	0.0	0.1	3.3	0.1	3.4		
1999	5.1	0.0	0.1	3.3	0.1	3.3		
2000	4.4	0.0	0.0	3.3	0.0	3.3		
2001	2.5	0.0	0.0	2.2	0.0	2.2		

NOTE: Economics were run at a discount rate of 9.00%

\*Base operating expenses were held flat @ \$390/mo. (\$271/mo. for dry wells).

Water disposal costs were also held flat @ \$1.55/Bbl.

ANNUAL PRODUCTION FOR	4933A	PHS020M1
MERID	IAN OIL INC	
LD FRUIT	LAND COAL ZONE	
===== GAS CUM ====	=== WATER	CUM =====
PC DATE	MCF DATE	BBLS
=======================================		
CUM GAS G	AS CUM WATER	WATER CUM
1233	1233	
	1233	
	MERID  _D FRUIT  ===== GAS CUM ====  PC DATE CUM GAS G	PC DATE MCF DATE  CUM GAS GAS CUM WATER  1233 1233

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

B MY JOB LU #31

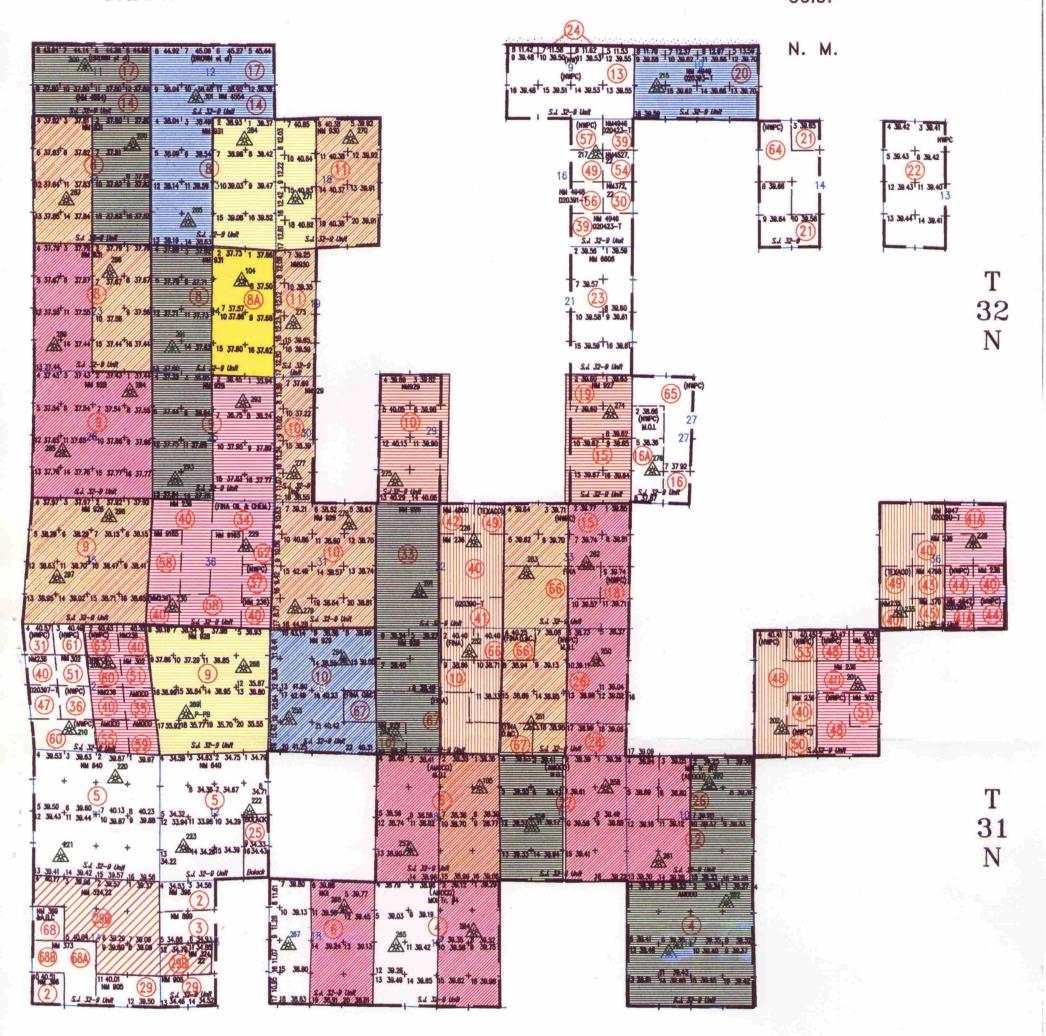
				267					IDIAN OIL INC				
BAS	IN	(FRUI	TLAND CO	DAL) FIE	LD		FRL	JITLA	ND COA	L ZONE			
		DAYS	= <b>===</b> =	OIL ===	<b>===</b>	====		GAS	=====				•
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2	2 5	3				01				15.025			0
3	2 5	5				01				15.025			0
4	2 F	3				01	382	3	904	15.025			0
5	2 F	1				01	33	1	904	15.025			0
6	2 F	1				01	51	1	904	15.025			0
7	2 F	1				01	38	1	904	15.025			0
8	2 F	1				01	12	1	904	15.025			0
9	2 f	1				01	52	1	904	15.025			0
10	2 3	3				01				15.025			0
11	2 3	3				01				15.025			0
12	2 3	3				01	665	31	904	15.025			0
			DETURNO.	TO 41111		00.4							•
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	Ы	10 -	HELP IN	FORMATIO				PF9 - DISPLAY MONTHLY INJECTION					ION
				00	0/00/0	0 0	0:00:00:0	D P12 02/02/93					
MY	101	<b>.</b>			NUM	1 11	# <b>3</b> 1						
1*1 ¥	ŲΟΙ	•			NUM	LU	#31						

SAN JUA	N 32-9 UNIT	MERIDIAN OIL INC								
BASIN (FRUITLAND COAL) FIELD			FRUITLAND COAL ZONE							
	DAYS =====	OIL =====		=====	GAS :	=====	=====			
	ON PC	PROD GRV		PROD	ON	BTU	PRESS	WATER	PROD C	
1 2 S			01				15.025		0	
2										
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Р	PF6 - RETURNS TO ANNUAL DISPLAY					PF3 - TRANSFER TO UPDATE				
PF	PF10 - HELP INFORMATION					PF9 - DISPLAY MONTHLY INJECTION				
		00/00/0	00:00:	00:0	P12	03/0	02/93			
B MY JOB		NUM	LU #31							

1993 MONTHLY PRODUCTION FOR 4933A

PHS030M1

FARMINGTON



# SAN JUAN 32-9 UNIT

Fruitland Coal Participating Area





# State of New Mexico

OFFICE OF THE

# Commissioner of Public Lands

Santa Fe

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1265

March 17, 1993

Meridian Oil Inc. P.O. Box 4289 Farmington, New Mexico 87499-4289

Attn: Mr. Kent Beers

Re: 1993 Plan of Development

San Juan 32-9 Unit

San Juan County, New Mexico

#### Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

FLOYD O. PRANDO, Director Oil and Gas Division (505) 827-5744

JB/FOP/pm cc: OCD BLM

## MERIDIAN OIL

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March 9, 1993 156 1. 11 8 54

Bureau of Land Management (3) Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401 Commissioner of Public Lands (2) State of New Mexico P.O. Box 1148 Santa Fe, NM 87501

Oil Conservation Division (2) State of New Mexico Energy & minerals Department P.O. Box 2088 Santa Fe, NM 87504

> RE: SAN JUAN 32-9 UNIT, #14-08-001-569 SAN JUAN COUNTY, NEW MEXICO 1993 PLAN OF DEVELOPMENT

#### Gentlemen:

By letters dated February 25, 1992, October 14, 1992 and November 13, 1992, Meridian Oil Inc., as Unit Operator, for the San Juan 32-9 Unit, filed a Plan of Development, First Amendment and Second amendment to said Plan of Development concerning the referenced unit for the calendar year 1992. These programs provided for the drilling of the listed wells:

<b>FORMATION</b>	PROPOSED	ACTUALLY DRILLED
Fruitland Coal	5	4
Pictured Cliffs	40	4
Mesaverde	1	0

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Fruitland Coal, Drilled 92 Pending Completion	4
Fruitland Coal, Being Evaluated Pending Commerciality	59
Pictured Cliffs, Commercial	21
Pictured Cliffs, Being Evaluated Pending Commerciality	5
Pictured Cliffs, Plugged & Abandoned	2
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	107
Mesaverde, Non-Commercial	5
Mesaverde, Plugged & Abandoned	4
Dakota, Non-Commercial	1
Morrison/Salt Water Disposal	1

Regulatory Agencies March 9, 1993 Page Two

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, Meridian Oil Inc., as Unit Operator, hereby submits the following wells for the 1993 Plan of Development.

WELL NAME	DRILLBLOCK	FORMATION
San Juan 32-9 Unit # 4R	E/2 Sec. 12, T31N, R10W (PA)	MV
San Juan 32-9 Unit # 5R	W/2 Sec. 15, T31N, R09W (PA)	MV
San Juan 32-9 Unit # 6R	E/2 Sec. 15, T31N, R09W (PA)	MV
San Juan 32-9 Unit #12ST	W/2 Sec. 10, T31N, R09W (PA)	MV
San Juan 32-9 Unit #18R	W/2 Sec. 17, T31N, R09W (PA)	MV
San Juan 32-9 Unit #22R	W/2 Sec. 14, T31N, R10W (PA)	MV
San Juan 32-9 Unit #26A	W/2 Sec. 01, T31N, R10W (PA)	MV
San Juan 32-9 Unit #44A	E/2 Sec. 11, T31N, R10W (PA)	MV

Meridian Oil Inc., has contacted all the Working Interest Owners and has not yet received the necessary concurrence to drill the above listed wells during the calendar year 1993; however, a Unit Meeting is scheduled March 24, 1993, and it is anticipated sufficient approval will be obtained to drill the listed wells. However, if Unit approval is not received, or if other proposals are generated, Meridian, as Unit Operator, will so amend the 1993 Plan of Development.

Meridian Oil Inc., as Unit Operator, plans to drill any offset wells required to prevent drainage to unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners.

If this Plan of Development is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to the attention of the undersigned at the letterhead address.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

Kent Beers,

Attorney-in-Fact

KOB:JFZ/lr POD93/1-4

xc: San Juan 32-9 Unit, 3.0

Regulatory Agencies March 9, 1993 Page Three

APPROVED:		DATE:	
	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)		
APPROVED:		DATE:	
	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division)		
APPROVED:	Ty John	DATE: _ 5	?-11-93
	Oil Conservation Division (Subject to like approval by the Bureau of Land Management and the Commissioner of Public Lands)		

## SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company
Arco Oil & Gas Company
<b>Bolack Minerals Company</b>
Mr. John S. Brown, Jr.
Conoco, Inc.
El Paso Production Company
Fina Oil & Chemical Company
Koch Industries, Inc.
T. H. McElvain Oil & Gas Limited Partnership
Phillips Petroleum Company
Phillips Petroleum Company  Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay & Madell Miller Mast Trusts
Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay &
Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay & Madell Miller Mast Trusts
Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay & Madell Miller Mast Trusts Southland Royalty Company
Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay & Madell Miller Mast Trusts  Southland Royalty Company  Texaco Exploration & Production Inc.
Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay & Madell Miller Mast Trusts  Southland Royalty Company  Texaco Exploration & Production Inc.  Total Minatome Corporation

MERIDIAN OIL

OIL CONSERV ON DIVISION REC: 7ED

'92 NO 177 AM 8 39

November 13, 1992

Bureau of Land Management 1235 La Plata Highway Farmington, NM 87401 NM Commissioner of Public Lands P.O. Box 1148 Santa Fe, NM 87501

NM Oil Conservation Division Energy & Minerals Department P.O. Box 2088 Santa Fe, NM 87504

RE: San Juan 32-9 Unit #14-08-001-569

San Juan County, NM 1992 Plan of Development

2nd Supplemental

#### Gentlemen:

Under cover dated February 24, 1992, Meridian Oil Inc., Operator, submitted for the Bureau of Land Management, New Mexico Oil Conservation Division, and New Mexico Commissioner of Public Lands the 1992 Plan of Development for the San Juan 32-9 Unit. Said Plan of Development has been approved by all Agencies and was subsequently amended by Meridian Oil Inc., under cover dated October 14, 1992. Said 1st Supplemental Plan of Development has also been approved by all Agencies. Meridian wishes to further amend said 1992 Plan of Development by addition of the four (4) wells detailed below:

WELL NAME San Juan 32-9 Unit #220	DRILL BLOCK/OWNERS E/2 Section 1-T31N-R10W El Paso Production Company - 100%	FORMATION Fruitland Coal
San Juan 32-9 Unit #221	W/2 Section 11, T32N-R10W El Paso Production Company - 100%	Fruitland Coal
San Juan 32-9 Unit #222	E/2 Section 12, T31N-R10W El Paso Production Company - 75.119404% Bolack Minerals Company - 24.880591%	Fruitland Coal
San Juan 32-9 Unit #223	W/2 Section 12, T31N-R10W El Paso Production Company - 100%	Fruitland Coal

Regulatory Agencies November 13, 1992 Page 2.

By copy of this letter, Meridian is advising all Working Interest Owners of the proposed Amendment to the 1992 Plan of Development. Meridian has notified all Working Interest Owners in the proposed Drill Blocks of the pending operation. Meridian Oil Inc., as Unit Operator, plans to offset any wells required to prevent drainage to unitized substances and any other wells deemed necessary or desired by the Unit Operator and/or the Working Interest Owners.

If this 2nd Supplemental Amendment to the 1992 Plan of Development is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to the attention of the undersigned at the letterhead address. Copies of this letter are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

Regional Land Manager

KOB:JFZ:ll ID:jfznov/34 San Juan 32-9 Unit, 3.0

APPROVED:	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	DATE:
APPROVED:	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division)	DATE:
APPROVED:	Oil Conservation Division (Subject to like approval by the Bureau of Land Management and the Commissioner of Public Lands)	DATE: 11-20-92

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

## **Amoco Production Company**

Arco Oil & Gas Company

**Bolack Minerals Company** 

Mr. John S. Brown, Jr.

Conoco, Inc.

El Paso Production Company

Fina Oil & Chemical Company

Koch Industries, Inc.

T. H. McElvain Oil & Gas Properties on behalf of: Catherine M. Harvey Catherine B. McElvain T. H. McElvain, Jr.

Phillips Petroleum Company

Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay & Madell Miller Mast Trusts

**Southland Royalty Company** 

Texaco Exploration & Producing Inc.

**Total Minatome Corporation** 

Williams Production Company

# MERIDIAN ONE CONSERTED A PROPERTY DIVISION RECTARDS

'92 0C 18 PM 9 06

October 14, 1992

Bureau of Land Management Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401 N.M. Commissioner of Public Lands P.O. Box 1148 Santa Fe, NM 87501

N.M. Oil Conservation Division Energy & Minerals Department P.O. Box 2088 Santa Fe, NM 87504

RE: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico 1992 Plan of Development, 1st Supplemental

#### Gentlemen:

Under cover dated February 25, 1992, Meridian Oil Inc., Operator, submitted to the Bureau of Land Management, the Oil Conservation Division State of New Mexico, and the Commissioner of Public Lands the 1992 Plan of Development for the San Juan 32-9 Unit. Said Plan of Development has been approved by said agencies under covers dated February 27, 1992, February 27, 1992, and September 29, 1992 respectively. Meridian wishes to amend said 1992 Plan of Development, by including the following well:

WELL NAME San Juan 32-9 Unit #18R DRILL BLOCK
Mesaverde Participating Area
(W/2 Section 17, T31N-R9W)

FORMATION Mesaverde

By copy of this letter, Meridian will contact all Working Interest Owners of the proposed Amendment to the 1992 Plan of Development. The well will be a Unit Well and be proposed to all Working Interest Owners in the Mesaverde Participating Area. Meridian Oil Inc., as Unit Operator, plans to offset any offset wells required to prevent drainage to unitize substances and any other wells deemed necessary or desirable by the Unit Operator and/or the Working Interest

Regulatory Agencies October 14, 1992 Page 2.

Owners. If this Amendment to the 1992 Plan of Development is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to the attention of the undersigned at the letterhead address. Copies of this letter are being sent to Working Interest Owners shown on the attached sheet.

Very truly yours,

Kent Beers

Regional Land Manager

KOB:JFZ:ll ID:jfzoct/33 San Juan 32-9 Unit

APPROVED:		DATE:
	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED:	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division)	DATE:
APPROVED:	Oil Conservation Division (Subject to like approval by the Bureau of Land Management and the Commissioner of Public Lands)	DATE: 10-19-92

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

**Amoco Production Company** 

Arco Oil & Gas Company

**Bolack Minerals Company** 

Mr. John S. Brown, Jr.

Conoco, Inc.

**El Paso Production Company** 

Fina Oil & Chemical Company

Koch Industries, Inc.

T. H. McElvain Oil & Gas Properties on behalf of: Catherine M. Harvey Catherine B. McElvain T. H. McElvain, Jr.

**Phillips Petroleum Company** 

Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay & Madell Miller Mast Trusts

**Southland Royalty Company** 

Texaco Exploration & Producing Inc.

**Total Minatome Corporation** 

**Williams Production Company** 



## State of New Mexico

OFFICE OF THE

## Commissioner of Public Ands

Santa Fe

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1221

November 30, 1992

Meridian Oil Company P.O. Box 4289 Farmington, New Mexico 87499-4289

Attn: Mr. Kent Beers

Re: 2nd Supplemental - 1992 Plan of Development

San Juan 32-9 Unit

San Juan County, New Mexico

#### Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: Doyle ( A und Eloyd O. PRANDO, Director Oil and Gas Division (505) 827-5744

JB/FOP/pm cc: OCD BLM



## State of New Mexico

OFFICE OF THE

## Commissioner of Public Lands

Santa Fe

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1207

September 29, 1992

Meridian Oil Inc. P.O. Box 4289 Farmington, New Mexico 87499-4289

Attn: Kent Beers

Re: 1992 Plan of Development

San Juan 32-9 Unit

San Juan County, New Mexico

#### Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: Doylo Vhan FLOYD O. PRANDO, Director Oil and Gas Division (505) 827-5744

JB/FOP/pm cc: OCD BLM



## State of New Mexico

OFFICE OF THE

## Commissioner of Public Lands

JIM BACA COMMISSIONER

Santa Fe

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

September 16, 1992

Meridian Oil Inc. P. O. Box 4289 Farmington, New Mexico 87499-4289

Attn: Ms. Karen Hopkins

Re: San Juan 32-9 Unit

San Juan County, New Mexico

Pictured Cliffs Participating Area 5th Expansion - Effective 12-1-89 6th Expansion - Effective 1-1-90

Dear Ms. Hopkins:

The Bureau of Land Management has notified this office that the 5th and 6th expanded Participating Area for the Pictured Cliffs Formation San Juan 32-9 unit, San Juan County, New Mexico has been approved. Please be advised that the Commissioner of Public Lands concurs with the Bureau of Land Management and has this date also approved your application for the above mentioned Participating Areas.

The 5th revision adds 320.00 acres to the Pictured Cliffs Participating Area and is described as the W½ of Section 8, Township 31 North, Range 9 West. The 5th revision is effective December 1, 1989.

The 6th revision adds 640.00 acres to the Pictured Cliffs Participating Area and is described as the W½ of Section 17, and the E½ of Section 18, Township 31 North, Range 9 West. The 6th revision is effective January 1, 1990.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA

COMMISSIONER OF PUBLIC LANDS

BY: Hoyle The FLOYD O. PRANDO, Director

Oil/Gas and Minerals Division

(505) 827-5744

JB/FOP/pm

encls.

cc: Reader File
OCD-Santa Fe
BLM-Farmington
TRD-Santa Fe

1,5

OIL CONSERVE ON DIVISION RECEIVED

'92 JUN 22 AM 8 50

San Juan 32-9 Unit Pictured Cliffs (PA) 3180 (019)

JUN. 1 9 1992

CERTIFIED--RETURN RECEIPT REQUESTED P 081 571 293

Ms. Karen Hopkins Meridian Oil Incorporated P.O. Box 4289 Farmington, NM 87499-4289

Dear Ms. Hopkins:

Your application for the 5th and 6th Revisions to the Pictured Cliffs Participating Area in the San Juan 32-9 Unit is hereby approved. The wells involved and effective dates are as follows:

Revision	Well	Acreage	Effective Date
5th	101	W/2 8-31N-9W	12/01/89
	102	W/2 17-31N-9W	
6th	103	E/2 18-31N-9W	1/1/90

Please notify all affected parties of this approval.

Under provisions of 43 CFR 3165.3, you may request an Administrative Review of the orders described above. Such request, including all supporting documents, must be filed in writing within 20 business days of receipt of this notice and must be filed with the State Director, Bureau of Land Management, P. O. Box 27115, Santa Fe, New Mexico 87502-7115. Such request shall not result in a suspension of the order(s) unless the reviewing official so determines. Procedures governing appeals from instructions, orders or decisions are contained in 43 CFR 3165.4 and 43 CFR 4.400 et seq.

If you have any questions concerning this approval, please call Duane Spencer at (505)599-8950.

Sincerely,

/s/ Duane Spencer

Mike Pool Area Manager

#### 2 Enclosures

1 - Schedule B, 5th Rev.

2 - Schedule B, 6th Rev.

cc:

See Attached

Minerals Management Service
Royalty Management Program
Reference Data Branch
PO Box 5760 - (MS-3240)
Denver, CO 80217 w/enclosure

New Mexico Oil Conservation Division 310 Old Santa Fe Trail, Room 206 Santa Fe, NM 87503 w/o enclosure

Commissioner of Public Lands State of New Mexico PO Box 1148 Santa Fe, NM 87504 w/o enclosure

## MERIDIAN OIL

5-20-93 D- Unit letter Thx Ry

May 12, 1992

Bureau of Land Management (3) Attn: Mr. Duane Spencer 1235 La Plata Highway Farmington, NM 87401

State of New Mexico (2)
Oil Conservation Division
Energy & Minerals Department
P.O. Box 2088
Santa Fe, NM 87504

Commissioner of Public Lands (2) State of New Mexico P.O. Box 1148 Santa Fe, NM 87504-1148

RE: SAN JUAN 32-9 UNIT, #14-08-001-569 SAN JUAN COUNTY, NEW MEXICO

FRUITLAND PARTICIPATING AREA

Initial Expansion: Effective 11/30/89
First Expansion: Effective 1/1/90
Second Expansion: Effective 5/1/90
Third Expansion: Effective 7/1/90
Fourth Expansion: Effective 8/1/90
Fifth Expansion: Effective 9/1/90
Sixth Expansion: Effective 10/1/90

Seventh Expansion: Effective 11/1/90 Eighth Expansion: Effective 4/1/91 Ninth Expansion: Effective 5/1/91

#### Gentlemen:

Pursuant to Section 11 (a) of the Unit Agreement for the referenced Unit, approved June 26, 1953, Meridian Oil Inc., as Unit Operator, has determined on the dates indicated below that the following wells are capable of producing unitized substances in paying quantities from the Fruitland Coal formation and thereby should be admitted to the Fruitland Participating Area:

Expansion	<b>Effective Date</b>	Wells Included	Tract #	Tr. acres	Tr. Description	Comp. Date
Initial	11/30/89	S. J. 32-9 Unit #104 (E/2 Sec. 24-32N-10W)	8A	301.02	Lots 1,2,7-10, 15&16 (E/2)	11/30/89
		301.02 acres		<del></del>	Total P/A acres=301.02	
First	1/1/90	S. J. 32-9 Unit #105 (E/2 Sec. 8-31N-9W)	6	309.00	Lots 1,2,7-10, 15&16 (E/2)	12/15/89
		309.00 acres			Total P/A acres=610.02	
	E (1 /00	G 1 22 0 11 1 12 200			CHAIR NEGS	1/0/00
Second	5/1/90	S. J. 32-9 Unit #228	40	80.00	SW/NE, NE/SE	4/9/90
		(E/2 Sec. 36-32N-9W)	41A	160.00	N/2 NE, SE/NE, SW/SE	
		320.00 acres	44	80.00	NW/SE, SE/SE	
		S. J. 32-9 Unit #201	40	80.00	S/2 NE/4	4/17/90
		(E/2 Sec. 2-31N-9W)	51	80.51	Lot 1, NE/SE	
		320.98 acres	48	160.47	Lot 2, SE/SE, W/2 SE/4	
		S. J. 32-9 Unit #209	35	40.00	NE/SE	4/14/90
		(E/2 Sec. 2-31N-10W)	40	80.35	Lot 1, NW/SE	
		320.78 acres	51	40.00	SE/NE	
			55	40.00	SW/SE	
			59	40.00	SE/SE	
			60	40.00	SW/NE	
			63	40.43	Lot 2	
		S. J. 32-9 Unit #230	40	200.00	SE/NW, N/2 NW/4, NE/SW,	4/22/90
		(W/2 Sec. 36-32N-10W)		200.00	SW/SW	
		320.00 acres	58	120.00	SW/NW, SE/SW, NW/SW	
		S. J. 32-9 Unit #229	24	90.00	N/O NIC/A	4/28/90
		(E/2 Sec. 36-32N-10W)	34 37	80.00 40.00	N/2 NE/4 NE/SE	4/26/30
		320.00 acres	40	40.00	SE/SE	
		320.00 acres	58	120.00	SW/NE, W/2 SE/4	
			62	40.00	SE/4 NE/4	
		S. J. 32-9 Unit #292 (IDB) (E/2 Sec. 25-32N-10W)	9	296.82	Lots 1, 2, 7-10, 15, 16 (E/2)	9/27/90
		296.82 acres			Total P/A acres=2,508.60	
				·····		
Third	7/1/90	S. J. 32-9 Unit #202	40	40.00	NE/SW	6/13/90
		(W/2 Sec. 2-31N-9W)	48	200.41	Lot 4, W/2 SW/4, S/2 NW/4	
		320.86 acres	53	40.45	Lot 3	
			50	40.00	SE/SW	
		S. J. 32-9 Unit #235	40	80.00	SE/NW, SW/SW	6/20/90
		(W/2 Sec. 36-32N-9W)	45	40.00	SE/SW	
		320.00 acres	41A	120.00	N/2 NW/4, SW/NW	
			43	40.00	NE/SW	
			49	40.00	NW/SW	
		S. J. 32-9 Unit #226	40	160.00	S/2 NE/4, N/2 SE/4	6/29/90
		(E/2 Sec. 32-32N-9W)	42	40.00	NW/NE	<del></del>
		,	49	40.00	NE/NE	
		320.00 acres	49			

	Effective Date				Tr. Description	Comp. Date
Third		S. J. 32-9 Unit #252 (IDB)	10	115.90	Lots 9-11	8/10/90
(cont.)		(E/2 Sec. 5-31N-9W)	66	80.80	Lots 1 & 2	
		316.70 acres	67	120.00	S/2 SE/4, NW/SE  Total P/A acres=3,786.16	
Fourth 8/1/90	S. J. 32-9 Unit #259 (W/2 Sec. 9-31N-9W) 314.92 acres	27	314.92	Lots 3-6, 11-14 (W/2)	7/6/90	
		S. J. 32-9 Unit #286 (E/2 Sec. 14-32N-10W) 302.52 acres	8A	302.52	Lots 1, 2, 7-10, 15 &16 (E/2)	7/10/90
		S. J. 32-9 Unit #263 (W/2 Sec. 15-31N-9W) 315.36 acres	4	315.36	Lots 3-6, 11-14 (W/2)	7/14/90
		S. J. 32-9 Unit #291 (W/2 Sec. 24-32N-10W) 301.86 acres	8A	301.86	Lots 3-6, 11-14 (W/2)	7/16/90
		S. J. 32-9 Unit #281 (W/2 Sec. 32-32N-9W) 320.00 acres	33	320.00	W/2	7/20/90
		S. J. 32-9 Unit #253 (W/2 Sec. 5-31N-9W) 313.85 acres	10 67	193.85 120.00	Lots 5-8 & 12 E/2 SW/4, NW/SW	7/24/90
		S. J. 32-9 Unit #262 (E/2 Sec. 15-31N-9W) 314.94 acres	4	314.94	Lots 1, 2, 7-10, 15 & 16 (E/2)	7/24/90
		S. J. 32-9 Unit #300	17	177.10	Lots 9-12	7/27/90
		(All Sec. 11-32N-10W) 328.30 acres	14	151.20	Lots 5-8	1/21/90
		S. J. 32-9 Unit #260	12	157.30	Lots 9, 10, 15 & 16 (SE/4)	7/31/90
		(E/2 Sec. 10-31N-9W) 314.42 acres	26	157.12	Lots 1, 2, 7 & 8 (NE/4)	7/31/70
		S. J. 32-9 Unit #293 (IDB) (W/2 Sec. 25-32N-10W)	9	299.64	Lots 3-6, 11-14 (W/2)	4/7/91
		299.64 acres			Total P/A acres=6,911.97	
Fifth	9/1/90	S. J. 32-9 Unit #254 (E/2 Sec. 6-31N-9W) 315.84 acres	10 67	275.84 40.00	Lots 8, 9, 14-16, 21 & 22 NE/SE	8/2/90
		S. J. 32-9 Unit #301	17	180.72	Lote 5.9	8/4/90
		(All Sec. 12-32N-10W) 335.52 acres	17	154.80	Lots 5-8 Lots 9-12	6/ <del>4</del> /7U
		S. J. 32-9 Unit #255 (W/2 Sec. 6-31N-9W) 208.15 acres	10	208.15	Lots 10-13, 17-20	8/23/90

Expansion	<b>Effective Date</b>		Tract #	Tr. acres	Tr. Description	Comp. Date
Fifth (cont.)		S. J. 32-9 Unit #285 (IDB) (W/2 Sec. 13-32N-10W) 306.70 acres	8	306.70	Lots 3-6, 11-14	4/16/91
		S. J. 32-9 Unit #215 (All Sec. 10-32N-9W)	20	367.84	Lots 5-16	8/12/90
· · · · · · · · · · · · · · · · · · ·		367.84 acres			Total P/A acres=8,446.02	
Sixth	10/1/90	S. J. 32-9 Unit #277 (W/2 Sec. 30-32N-9W) 196.56 acres	10	196.56	Lots 7-10, 15-18	9/6/90
		S. J. 32-9 Unit #270 (E/2 Sec. 18-32N-9W) 321.15 acres	11	321.15	Lots 5, 6, 11-14, 19 & 20	9/30/90
		S. J. 32-9 Unit #251	26	194.99	Lots 7-9, 14 & 15	9/8/90
		(W/2 Sec. 4-31N-9W)	67	40.00	SW/SW	
		314.19 acres	66	40.25	Lot 4	
		<del></del>	28	38.95	Lot 16	
		S. J. 32-9 Unit #273 (W/2 Sec. 19-32N-9W) 206.48 acres	11	206.48	Lots 7-10, 15-18	9/22/90
		S. J. 32-9 Unit #278 (E/2 Sec. 31-32N-9W) 309.21 acres	10	309.21	Lots 5, 6, 11-14, 19 & 20	9/13/90
		S. J. 32-9 Unit #283	15	158.67	Lots 3-6	9/21/90
		(W/2 Sec. 33-32N-9W) 318.67 acres	66	160.00	SW/4	
		S. J. 32-9 Unit #287 (W/2 Sec. 14-32N-10W) 302.64 acres	8	302.64	Lots 3-6, 11-14	9/26/90
		S. J. 32-9 Unit #296 (IDB) (E/2 Sec. 35-32N-10W) 306.38 acres	9	306.38	Lots 1, 2, 7-10, 15 & 16	4/13/91
		S. J. 32-9 Unit #279 (W/2 Sec. 31-32N-9W) 205.66 acres	10	205.66	Lots 7-10, 15-18	9/15/90
		S. J. 32-9 Unit #297 (W/2 Sec. 35-32N-10W) 307.82 acres	9	307.82	Lots 3-6, 11-14	9/17/90
		S. J. 32-9 Unit #288 (E/2 Sec. 23-32N-10W	8	300.92	Lots 1, 2, 7-10, 15 & 16	9/20/90
		300.92 acres	<del></del>		Total P/A acres=11,535.70	-
Seventh	11/1/90	S. J. 32-9 Unit #271 (W/2 Sec. 18-32N-9W) 212.62 acres	11	212.62	Lots 5-7, 15-18	10/7/90

Expansion	Effective Date	Wells Included	Tract #	Tr. acres	Tr. Description	Comp. Date
Seventh (cont.)		S. J. 32-9 Unit #269 (W/2 Sec. 1-31N-10W) 298.39 acres	9	298.39	Lots 7-10, 15-18	10/8/90
		S. J. 32-9 Unit #268 ( IDB) (E/2 Sec. 1-31N-10W) 292.63 acres	9	292.63	Lots 5, 6, 11-14, 19 & 20	3/31/91
		S. J. 32-9 Unit #284 (E/2 Sec. 13-32N-10W)	8	313.80	Lots 1, 2, 7-10, 15 & 16	10/13/90
<u> </u>		313.80 acres			Total P/A acres=12,653.14	
Eighth	4/1/91	S. J. 32-9 Unit #264 (E/2 Sec. 17-31N-9W) 316.41 acres	4	316.41	Lots 1, 2, 7-10, 15 & 16	3/3/91
		S. J. 32-9 Unit #257 (W/2 Sec. 8-31N-9W) 309.37 acres	6	309.37	Lots 3-6. 11-14	3/7/91
		S. J. 32-9 Unit #266 (E/2 Sec. 18-31N-9W) 314.75 acres	6	314.75	Lots 5, 6, 11-14, 19 & 20	3/11/91
		S. J. 32-9 Unit #250 (E/2 Sec. 4-31N-9W) 311.27 acres	26 28	233.23 78.04	Lots 5, 6, 10-13	3/13/91
		S. J. 32-9 Unit #282 (E/2 Sec. 33-32N-9W) 318.19 acres	15 18 66	159.17 119.02 40.00	Lots 1, 2, 7 & 8 Lots 9-11 NW/SE	3/19/91
		S. J. 32-9 Unit #261 (W/2 Sec. 10-31N-9W) 312.32 acres	12 26	234.47 77.85	Lots 4 & 5, 11-14 Lots 3 & 6	3/25/91
		S. J. 32-9 Unit #258 (E/2 Sec. 9-31N-9W) 316.35 acres	27	316.35	Lots 1, 2, 7-10, 15 & 16	3/17/91
		S. J. 32-9 Unit #295 (W/2 Sec. 26-32N-10W) 300.76 acres	9	300.76	Lots 3-6, 11-14	3/27/91
		S. J. 32-9 Unit #294 (IDB) (E/2 Sec. 26-32N-10W) 300.82 acres	9	300.82	Lots 1, 2, 7-10, 15 & 16	4/1/91
		S. J. 32-9 Unit #289 (IDB) (W/2 Sec. 23-32N-10W)	8	300.90	Lots 3-6, 11-14	4/21/91
Ninth	5/1/91	300.90 acres S. J. 32-9 Unit #274	15	158.63	Total P/A acres=15,754.28  Lots 9, 10, 15 & 16	4/10/91
. unui	5/1/21	(E/2 Sec. 28-32N-9W) 317.08 acres	19	158.45	Lots 1, 2, 7 & 8	T/ 10/ 21
		S. J. 32-9 Unit #275 (W/2 Sec. 29-32N-9W)	10	320.12	Lots 3-6, 11-14	4/5/91
		320.12 acres			Total P/A acres=16,391.48	

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Regulatory Agencies May 12, 1993 Page 6

An Economic Summary Sheets are attached for your information for each well's commerciality. The Expansion Schedules for the Initial through the Ninth Participating Areas are also enclosed. The schedules describe the Participating Areas and show the percentage of unitized substances allocated to the Tracts according to the ownership within the Tracts.

We would appreciate consideration of these Expansions as soon as possible. Please contact John Zent at (505) 326-9758 if there are any questions regarding this matter.

Copies of this letter are being furnished to the Working Interest Owners on the attached list.

Very truly yours,

Regional Land Manager

KOB:JFZ:ll ID:EXPAN/6 S.J. 32-9 Unit, 4.5

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

**Amoco Production Company** Arco Oil & Gas Company **Bolack Minerals Company** Mr. John S. Brown, Jr. Conoco, Inc. **El Paso Production Company** Fina Oil & Chemical Company Koch Industries, Inc. T. H. McElvain Oil & Gas Limited Partnership **Phillips Petroleum Company** Mr. James M. Raymond, Ind. & as Trustee for Corinne Miller Gay & **Madell Miller Mast Trusts** Southland Royalty Company Texaco Exploration & Production Inc. **Total Minatome Corporation** 

Williams Production Company

## MERIDIAN OIL

-1 9 55

February 25, 1992

Bureau of Land Management Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401

Oil Conservation Division State of New Mexico Energy & Minerals Department P.O. Box 2088 Santa Fe, NM 87504 Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87501

RE: San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico 1992 Plan of Development

#### Gentlemen:

By letters dated February 26, 1991, and June 25, 1991, Meridian Oil Inc., as Unit Operator, for the San Juan 32-9 Unit, filed a Plan of Development and First Amendment to said Plan of Development concerning the referenced unit for the calendar year 1991. These programs provided for the drilling of our (4) Pictured Cliffs formation wells, two (2) Fruitland formation wells, and one (1) Morrison/Entrada salt water disposal well. Two (2) Fruitland Coal wells and the Salt Water Disposal were drilled.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Fruitland Coal, Being Evaluated	59
Pictured Cliffs, Commercial	16
Pictured Cliffs, Being Evaluated	6
Pictured Cliffs, Plugged & Abandoned	2
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	4
Mesaverde, Plugged & Abandoned	4
Mesaverde/Dakota Dual (Plugged Back to Mesaverde)	1
Dakota, Non-Commercial	1
Morrison/Salt Water Disposal	1_
	196

Regulatory Agencies February 25, 1992 Page 2.

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, Meridian Oil Inc., as Unit Operator, hereby submits the following wells for the 1992 Plan of Development.

WELL NAME	DRILLBLOCK	FORMATION
San Juan 32-9 Unit #109*	W/2 Sec. 15-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #110*	E/2 Sec. 15-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #111*	E/2 Sec. 8-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #112*	E/2 Sec. 9-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #113	W/2 Sec. 14-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #114	E/2 Sec. 14-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #115	W/2 Sec. 13-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #116	E/2 Sec. 13-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #117	W/2 Sec. 18-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #118	E/2 Sec. 18-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #119	W/2 Sec. 23-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #120	E/2 Sec. 23-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #121	W/2 Sec. 24-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #122	E/2 Sec. 24-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #123	W/2 Sec. 19-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #124	W/2 Sec. 26-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #125	E/2 Sec. 26-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #126	W/2 Sec. 25-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #127	E/2 Sec. 25-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #128	W/2 Sec. 30-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #129	W/2 Sec. 29-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #130	E/2 Sec. 28-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #131	W/2 Sec. 35-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #132	E/2 Sec. 35-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #133	E/2 Sec. 36-32N-10W	Pictured Cliffs
San Juan 32-9 Unit #134	W/2 Sec. 31-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #135	E/2 Sec. 31-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #136	W/2 Sec. 32-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #137	E/2 Sec. 32-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #138	W/2 Sec. 33-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #139	E/2 Sec. 33-32N-9W	Pictured Cliffs
San Juan 32-9 Unit #140	W/2 Sec. 1-31N-10W	Pictured Cliffs
San Juan 32-9 Unit #141	E/2 Sec. 1-31N-10W	Pictured Cliffs
San Juan 32-9 Unit #142	W/2 Sec. 6-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #143	E/2 Sec. 6-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #144	W/2 Sec. 5-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #145	E/2 Sec. 5-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #146	W/2 Sec. 4-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #147	E/2 Sec. 4-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #148	E/2 Sec. 10-31N-9W	Pictured Cliffs
San Juan 32-9 Unit #272(IDB)	E/2 Sec. 21-32N-9W	Fruitland Coal

\*Carried over from 1991 Plan of Development

Regulatory Agencies February 25, 1992 Page 3.

Meridian Oil Inc. has contacted all the Working Interest Owners and has received the necessary concurrence to propose the drilling of the above listed wells during the calendar year 1992.

Meridian Oil Inc., as Unit Operator, plans to drill any offset wells required to prevent drainage to unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners.

If this Plan of Development is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to the attention of the undersigned at the letterhead address.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

Kent Beers WA Attorney-in-Fact

KOB:KLH:11 ID#313+5 San Juan 32-9 Unit, 3.0

APPROVED:		DATE:
	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED:	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division)	DATE:
APPROVED:	Oil Conservation Division (Subject to like approval by the Bureau of Land Management and the	DATE: 2-27-92

Commissioner of Public Lands)

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company Arco 0il & Gas Company

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr. and Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mr. John S. Brown, Jr.

Continental Illinois National

Bank & Trust Company of Chicago

Trustee for Trust No. 23935

Continental Illinois National

Bank & Trust Company of Chicago

Trustee for Trust No. 23949

Conoco, Inc.

Cross Timbers Group

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

El Paso Production Company

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Fina Oil & Chemical Company

Mrs. Minnie A. Fitting

Mr. Ralph U. Fitting, III and

J. Robert Jones, Anc. Executor

of the Estate of Ralph U. Fitting Jr. Williams Production Company

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortland T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Estate of Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. J. Robert Jones

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude Lumbe

James E. Palmer, Successor Trustee

U/T/A dated 1-21-63 with Martha M.

Lattner Settlor

Robert S. McDonald, Agnus McDonald &

the Northern Trust Company, Trustees

under the Will of Margaret S.

McDonald Trust

T. H. McElvain Oil & Gas Properties

on behalf of:

Catherine M. Harvey

Catherine B. McElvain

T. H. McElvain, Jr.

Meridian Oil Production Inc.

Total Minatome Corporation

Phillips Petroleum Company

Ms. Nora R. Ranney

Mr. Edward L. Rayerson, Jr.

Mr. James M. Raymond, Ind. & as

Trustee for Corinne Miller Gay &

Madell Miller Mast Trusts

Ms. Catherine R. Ruml

Shaw, Isham and Company

Trust #1 for Benefit of John I. Shaw

and Rodger D. Shaw

Elizabeth B. Simpson Trust of the

William B. Simpson Revocable Tr.

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart Trust

Mr. William P. Sutter

Texaco Producing Inc.

Kay B. Towle

Estate of Frederick F. Webster

Katherine Isham White

Miss Mary S. Zick

### MERIDIAN OIL

Molecular National Programme Company of the Company

Marin a 25 9 26

January 29, 1992

Bureau of Land Management (3) Attn: Mr. Duane Spencer 1235 La Plata Highway Farmington, NM 87401

Commissioner of Public Lands (2) State of New Mexico P.O. Box 1148 Santa Fe, NM 87504-1148

New Mexico Oil Conversation Division (2) Energy & Minerals Department P.O. Box 2088 Santa Fe, NM 87504 D-UNIT LETTER TIX P

RE: SAN JUAN 32-9 UNIT 14-08-001-569

San Juan County, New Mexico

PICTURED CLIFFS PARTICIPATING AREA 5th Expansion - Effective 12-1-89 6th Expansion - Effective 1-1-90

#### Gentlemen:

Pursuant to Section 11 (a) of the unit agreement for the referenced unit, approved June 26, 1953, Meridian Oil Inc., as unit operator, has determined on the dates indicated below that the following wells are capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation and thereby should be admitted to the Pictured Cliffs Participating Area:

#### FIFTH EXPANSION - EFFECTIVE DECEMBER 1, 1989

WELL NO./DESCRIPTION	TRACT/ACRES	TR. DESCRIPTION	COMP. DATE
#101 W/2 8-31N-9W	Tr. 6/320.00	W/2	11-6-89

#### SIXTH EXPANSION - EFFECTIVE JANUARY 1, 1990

WELL NO./DESCRIPTION	TRACT/ACRES	TR. DESCRIPTION	COMP. DATE
#102 W/2 17-31N-9W	Tr. 4/320.00	₩/2	12-11-89
#103 E/2 18-31N-9W	Tr. 6/320.00	E/2	12-11-89

An economic summary sheet is attached for your information for each well's Commerciality. The expansion schedules for the Fifth and Sixth Participating Areas are also enclosed. The schedules describe the participating areas and show the percentage of unitized substances allocated to the tracts according to the ownership within the tracts.

We would appreciate consideration of these expansion as soon as possible. Please contact Karen Hopkins at (505) 326-9789 if there are any questions regarding this matter.

Copies of this letter is being furnished to the working interest owners on the attached list.

Yours very truly

Kent Beers WM Regional Land Manager

KB:MW/lr ID#20/1-3 SJ 32-9 Unit, 4.1

# SAN JUAN 32-9 UNIT PICTURED CLIFFS WORKING INTEREST OWNERS

Amoco Production Company

Bolack Minerals Co.

Conoco, Inc.

El Paso Production Company

Phillips Petroleum Company

Southland Royalty Company

Total Minatome Corporation

Williams Production Company

Printed: 12/09/91 15:20

WELL INFOR	MATION:			PRODUCTION TAX	XES:	GAS % OF
LEASE LOCATION COUNTY STATE FORMATION OPERATOR SPUD DATE	SAN JUAN 32 9 UNIT 31N-09W-08E SAN JUAN NM BLANCO (PICTURED CLIFFS) MERIDIAN OIL INC 10/01/89		000101	SEVERANCE SCHOOL AD VALOREM CONSERVATION PROD. EQUIP.	(NM) (NM) (NM) (NM) (NM)	REVENUE 3.75% 3.15% 1.54% 0.18% 0.28%
CMPL DATE 1ST DLVRY PA DATE PA #	11/06/89 03/25/90 12/01/89 05	GWI NRI	100.00% 87.50%	TOTAL		8.90%

WELL TEST DATA:

**WELL COST DATA:** 

Date: 11/06/89

WHSIP: 372 (PSIG) BHSIP: (PSIG)

TOTAL WELL COST: PAYOUT YEARS:

250.0 (M\$)

2.2

**AVERAGE PRODUCT PRICING:** 

\$1.56 (MCF) PRICE TO LIFE\*

\*Based on an average heating value of 1135 MMBTU/MCF.

#### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

YEARS	EST. ANNUAL PI GAS (MMCF)	RODUCTION OIL (MBO)	OPERATING EXPENSES* (M\$)
1989	0.0	0.0	0.0
1990	170.0	0.0	2.2
1991	204.0	0.0	2.6

Printed: 12/09/91 15:20

WELL INFOR	MATION:			PRODUCTION TAX	XES:	GAS % OF
LEASE LOCATION COUNTY STATE FORMATION OPERATOR SPUD DATE	SAN JUAN 32 9 UNIT 31N-09W-17D SAN JUAN NM BLANCO (PICTURED CLIFFS) MERIDIAN OIL INC 10/08/89	#(	000102	SEVERANCE SCHOOL AD VALOREM CONSERVATION PROD. EQUIP.	(NM) (NM) (NM) (NM) (NM)	REVENUE 3.75% 3.15% 1.54% 0.18% 0.28%
CMPL DATE 1ST DLVRY PA DATE PA #	12/11/89 03/22/90 01/01/90 06	GWI NRI	100.00% 87.50%	TOTAL		8.90%

WELL TEST DATA:

WELL COST DATA:

Date: 12/11/89

WHSIP: BHSIP:

341 (PSIG) (PSIG) TOTAL WELL COST: PAYOUT YEARS:

250.0 (M\$)

1.2

**AVERAGE PRODUCT PRICING:** 

\$1.56 (MCF) PRICE TO LIFE\*

\*Based on an average heating value of 1135 MMBTU/MCF.

#### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

<u>YEARS</u>	EST. ANNUAL PRO GAS (MMCF)	DUCTION OIL (MBO)	OPERATING EXPENSES* (M\$)
1990	173.7	0.0	2.0
1991	231.6	0.0	2.6
1992	152.8	0.0	2.6

Printed: 12/09/91 15:20

WELL INFOR	MATION:			PRODUCTION TA	XES:	040 % 05
LEASE LOCATION COUNTY STATE FORMATION OPERATOR	SAN JUAN 32 9 UNIT 31N-9W-18A SAN JUAN NM BLANCO (PICTURED CLIFFS) MERIDIAN OIL INC 09/24/89		000103	SEVERANCE SCHOOL AD VALOREM CONSERVATION PROD. EQUIP.	(NM) (NM) (NM) (NM) (NM)	GAS % OF <u>REVENUE</u> 3.75% 3.15% 1.54% 0.18% <u>0.28%</u>
SPUD DATE CMPL DATE 1ST DLVRY PA DATE PA #	12/11/89 05/23/90 01/01/90 06	GWI NRI	100.00% 87.50%	TOTAL		8.90%

WELL TEST DATA:

Date: 12/09/89

WHSIP:

209 (PSIG)

BHSIP:

(PSIG)

**WELL COST DATA:** 

TOTAL WELL COST: PAYOUT YEARS:

250.0 (M\$)

7.5

**AVERAGE PRODUCT PRICING:** 

\$1.56 (MCF) PRICE TO LIFE\*

\*Based on an average heating value of 1135 MMBTU/MCF.

#### ESTIMATED GROSS ANNUAL PRODUCTION AND OPERATING EXPENSES:

YEARS	EST. ANNUAL I GAS (MMCF)	PRODUCTION OIL (MBO)	OPERATING EXPENSES* (M\$)
1990	44.6	0.0	1.8
1991	66.9	0.0	2.6
1992	44.5	0.0	2.6
1993	35.6	0.0	2.6
19 <b>94</b>	28.5	0.0	2.6
1995	22.8	0.0	2.6

Printed: 12/09/91 15:20

1996	18.2	0.0	2.6
1997	14.6	0.0	2.6

### RUN DATE 01/28/92 RUN TIME 08:59:06

## MERIDIAN OIL INC SCHEDULE VI THE 005 EXPANDED PARTICIPATING AREA FOR PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

PAGE 1 FED530AP-A

SERIAL NUMBER SF-078316-B	ω	DESCRI 10W	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK
	SEC.	13	!	<b>E 20</b> CO	••	
	SEC		SW/4 SW/4	-√ » m ≤	WORKING INTEREST: EL PASO PRODUCTION CO AMOCO PRODUCTION COMPANY TOTAL MINATOME CORPORATION	
				т	TOTAL	
SF-078316-G	312	10W		80.00	ORRI:	
	SEC.	<u>1</u>	S/2 NW/4	m ≰ zu	ROYALTY: WORKING INTEREST: EL PASO PRODUCTION CO	
SF-078389-A	31 <sub>N</sub>	10w	•	1,200.00	TOTAL TRACT:	-
	SEC.	12	ALL N/2, SW/4, W/2 SE/4	m € 20 C	WORKING INTEREST: EL PASO PRODUCTION CO	
				Ŧ	TOTAL	
		R E M	REMARKS: 59.374022% ORRI IS / REFLECTS THE GLA-66 ORRI IS THE ORIGINAL	' ω -	SPECIAL ORRI THAT ETTLEMENT. 5.0% ORRI FOR THIS TRACT	
SF-078438	3 1 N	W6		525.80		TRACT:
	SEC.	T 60	LOTS 1 - 4. W/2 (W/2) W/2	C A W R	WORKITY: WORKING INTEREST: AMOCO PRODUCTION COMPANY CONOCO INC	Ū
		, 00 L		7(	TOTAL	

RUN DATE 01/28/92 RUN TIME 08:59:06

## MERIDIAN OIL INC SCHEDULE VI THE 005 EXPANDED PARTICIPATING AREA FOR PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

PAGE 2 FED530AP-A

NM-01594				NM-01594			1M~060B				SF-079909	SERIAL
000 SEC.			SEC.	SEC.		SEC.	31N			SEC.	318	DE
000	REMARKS:		14 NE/4.	10W		13 14	10W			12	10w	DESCRIPTION
SAME AS TR 29B	ACTUAL TOTAL REMAINING 22 AS UNCOMMITT		N/2 NW. SE/NW.	1 4		S/2 SW/4 S/2 SE/4				E/2 SE/4	1	ION
220.00	CARR:	_1		220.00		m < T	160.00		rn «		80.00	NUMBER OF ACRES
ORRI: ROYALTY: WORKING INTEREST: LAURENCE C KELLY DECD LAURENCE BEVER KELLY ROBERT LORENZO KELLY GREGORY LOUIS KELLY TOTAL	440 ACRES. IED UNDER TR 29C BY EPPC.	TOTAL	WORKING INTEREST:	••	TOTAL	WORKING INTEREST: EL PASO PRODUCTION (	ORRI:	TOTAL	BOLACK MINERALS COM	ROYALTY:	361	OWNERSHIP
TRACT:			СО	TRACT:		CO	TRACT:		COMPANY		TRACT:	DRILLING
029C				029B			029				025	BLOCK
3.000000 12.500000 42.250000 21.125000 10.562500 10.562500		100.000000	85.500000	2.000000 12.500000	100.000000	85.500000	2.000000	100.000000	87.500000	12.500000		PERCENTAGE
3.000000 12.500000 42.250000 21.125000 10.562500 10.562500		100.000000	85.500000	2.000000 12.500000	100.000000	85.500000	2.000000	100.000000	87.500000	12.500000		PERCENTAGE COMMITTED
0.000000				6.901658			5.019387				2.509694	PERCENT ACTUAL PARTICIPATION

EFFECTIVE 89/12/01

REMARKS:

REMAINING UNCOMMITTED 220 ACRES (KELLY INTEREST).

PAGE 3 FED530AP-A

SER I AL DESCRIPTION NUMBER OF ACRES OWNERSHIP DRILLING BLOCK PERCENTAGE PERCENTAGE COMMITTED PERCENT ACTUAL
PARTICIPATION

	E-5318-1		E-3150-1				E-286-33			1	ת מפלים מפלים			E-70-37	
SEC.	31N		31N SEC.			SEC.	3 1 N			SEC.	์ 2 2		SEC.	3 1 1 2	
2	10W		10W  2			2	10W			2	1 0 ¥		2	10w	
NW/4 SW/4			LOT 1. NW/SE.			NE/4 SW/4				NE/4 SE/4			LOT 4. (NW/NW)		- LOZ
~I () \$₹ 72 (	40.00	<b>⊣</b> m:	120.35 O R	4	≨ to:	ŧπο	40.00	1	0.24		40 00	_ <b>~</b> ~ ~	1 <b>4</b> 71	40.57	OT ACKED
ROYALTY: WORKING INTEREST: SOUTHLAND ROYALTY CO			T ORRI: ROYALTY: WORKING INTEREST.	TOTAL	S PETROLEUM C	WORKING INTERFOT.		TOTAL	AMOCO PRODUCTION COMPANY	·		WILLIAMS PRODUCTION CO	INTEREST:	ORRI:	
	TRACT: 047		TRACT: 040		COMPANY		TRACT: 036		ANY		TRACT: 035	COMPANY		TRACT: 031	
12.500000 87.500000 		82.500000  100.000000	5.000000 12.500000	100.000000	69.290000 15.210000	3.000000 12.500000		100.000000	42.500000 42.500000	2.500000 12.500000		15.210000	12.500000	3.000000	
12.500000 87.500000 		82.500000 100.000000	5.000000 12.500000	100.000000	69.290000 15.210000	3.000000 12.500000		100.000000	42.500000 42.500000	2.500000 12.500000		15.210000	12.500000	3.000000	COMMITTER
	i		3.775520				1.254847				1 254847	-	-	1.272728	

PAGE 4 FED530AP-A

	100.000000	100.000000		TOTAL	тс				
	71.750000	71.750000 15.750000		WILLIAMS PRODUCTION COMPANY	₩ PT				
1.270219	12.500000	12.500000	061	TRACT:	40.49 OR RC	LOT 3 (NE/NW)	10W	31N SEC.	B-11133-34
	100.000000	100.000000		TOTAL	Τ(				
	69.290000 15.210000	69.290000 15.210000		<i>,</i> 0, 0,	₹ D				
3.764541	3.000000 12.500000	3.000000 12.500000	060	TRACT: ORRI: ROYALTY: WORKING INTEREST:	120.00 OF RC	SW/NE, S/2 SW	10W	SEC.	B-11133-33
	100.000000	100.000000		TOTAL	τ.				
	42.500000 42.500000	42.500000 42.500000		- N	C A :				
1.254846	2.500000 12.500000	2.500000 12.500000	059	TRACT: ROYALTY: WORKING INTERFAT:	40.00 OF RC	SE/4 SE/4	10W	SEC.	8-11133-37
	100.000000	100.000000		TOTAL	7,				
	42.500000 42.500000	42.500000 42.500000		- J	O.A.				
1.254847	2.500000 12.500000	2.500000 12.500000	0 ຫ	TRACT: Orri: Royalty: Working interest:	40,00 01 R0	SW/4 SE/4	10W	SEC.	B-11124-46
	100.000000	100.000000		TOTAL	7				
	87.500000	87.500000		PASO PRODUC	m :				
	12.500000	12.500000		WORKING INTEREST:	<b>₹</b> ₽ (	SE/NE. SE/NW	2	SEC.	
2.509694			051	TRAC	0		10W	31N	E-5843
PERCENT ACTUAL PARTICIPATIÓN	PERCENTAGE COMMITTED	PERCENTAGE	BLOCK	OWNERSHIP	NUMBER OF ACRES	TION	DESCRIPTION	DE	SERIAL
111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 				1		9

PAGE -

ហ

T1 FEE FI FI B-11370-46 SERIAL NUMBER SEC. ω 1 2 31<sub>N</sub> SEC. 31N SEC. 31X SEC. DESCRIPTION 4 10W 14 10W 4 10W ¥0. N NW/4 SW/4 E/2 SW/4 SW/4 NW/4 LOT 2 (NW/NE) 유 NUMBER ACRES 40.00 80.00 40.00 40.43 WORKING INTEREST:

AMOCO PRODUCTION COMPANY
TOTAL MINATOME CORPORATION
EL PASO PRODUCTION CO WORKING INTEREST:
EL PASO PRODUCTION CO
TOTAL MINATOME CORPORATION
AMOCO PRODUCTION COMPANY TOTAL ROYALTY: ORRI: TOTAL ROVALTY: WORKING INTEREST:
EL PASO PRODUCTION CO
TOTAL MINATOME CORPORATION WORKING INTEREST:
PHILLIPS PETROLEUM COMPANY
WILLIAMS PRODUCTION COMPANY ORRI: TOTAL AMOCO PRODUCTION COMPANY ROYALTY: ORRI: TOTAL ROYALTY: ORRI: OWNERSHIP DRILLING TRACT: TRACT: TRACT: TRACT: BLOCK 0688 068A 063 19.031250 43.500000 100.000000 0.500000 12.500000 100.000000 19.140625 24.609375 100.000000 43.750000 19.140625 PERCENTAGE 24.468750 43.750000 24.609375 00.000000 3.000000 12.500000 12.500000 12.500000 15.210000 69.290000 COMMITTED 100.000000 24.468750 19.031250 100.000000 43.750000 19.140625 0.500000 12.500000 100.000000 43.750000 19.140625 100.000000 69.290000 15.210000 3.000000 12.500000 43.500000 24.609375 12.500000 24.609375 12.500000 PERCENT ACTUAL PARTICIPATION 1.254847 1.268336 2.509694 1.254847

R R

PAGE
DATE 01/28/92

R E C A P I T U L A T I O N
FED535AI
DESCRIPTION OF COMMITTED LANDS IN PARTICIPATING AREA:
DESCRIPTION OF COMMITTED LANDS IN PARTICIPATING AREA:

FED535AP-A

TOWNSHIP 31N .

SECTION 2 : N
SECTION 2 : N
SECTION 2 : N
SECTION 2 : N
SECTION 2 : SI
SECTION 11 : AL
SECTION 12 : N
SECTION 13 : N
SECTION 13 : N
SECTION 14 : SW
SECTION 18 : LO
SECTION 19 : SW RANGE 10W : LOT 4, (NW/NW) : NE/4 SE/4 : NE/4 SW/4 . RANGE 9W : LOTS 1 - 4, E/2 SE/4

E/2 SE/4

E/2 SW/4

E/2 SW/4

E/2 SW/4

E/2 SW/4

E/2 SW/4

E/2 SW/4

SW/4 SE/NW/4

SW/4 SW/4

SW/4 SW/4

SW/4 SW/4

SW/4 SW/4

SW/4 SW/4

SW/4 SW/4

SW/4 SW/4 SE/NE. SE/NW
SE/A SE/A
SW/NE, S/2 SW
LOT 3 (NE/NW)
LOT 2 (NW/NE) LOT 1, NW/SE, SW/4 SE/4 NE/4, N/2 SE W/2 SE/4 TOWNSHIP 000 , RANGE 000 SECTION 000 : SAME AS TR 29B

TOTAL NUMBER OF ACRES IN PARTICIPATING AREA:

W/2

3,187.64

E/2 W/2 (W/2)

3,407.64

220.00

TOTAL ACRES NON-COMMITTED:

PAGE FED530AP-A

		SF-078389-A			SF-078386				SF-078316-G				SF-078316-B	SERIAL
	SEC.	31N SEC.			SEC.			SEC.	3 1 2		( ( (	SEC.	31N	DE
	12	10W			9W			13	1 OW		Ī	13	10W	DESCRIPTION
	N/2, SW/4, W/2 SE/4	A L L			W/2			S/2 NW/4				N/2 NW/4		DESCRIPTION
		1,200.00			320.00			,	80.00				120.00	NUMBER OF ACRES
TOTAL	EL PASO PRODUCTION CO	ORRI:	TOTAL	WORKING INTEREST: AMOCO PRODUCTION COMPANY CONOCO INC		TOTAL	EL PASO PRODUCTION CO	••		TOTAL	- 2	WORKING INTEREST:	ORRI:	OWNERSHIP
		005			004				003				002	BLOCK
100.000000	23.125978	64.374022 12.500000	100.000000	37.250000 37.250000	13.000000 12.500000	100.000000	85.500000	12.500000		100.000000	43.750000 25.520833 18.229167	12.500000		PERCENTAGE
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		1 0 0	01		8.360243				2.090060	-			3.135091	PERCENT ACTUAL PARTICIPATION

REMARKS:

59.374022% ORRI IS A SPECIAL ORRI THAT REFLECTS THE GLA-66 SETTLEMENT. 5.0% ORRI IS THE ORIGINAL ORRI FOR THIS TRACT

EFFECTIVE 90/01/01

PAGE FED530AP-A

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NM-01594 NM-0608 SF-079909 SF-078438 SER I AL SEC. SEC. 3 1 N 3 1 N SEC. 3 1 2 Ω Z SEC. 18 LOTS 1 - 4, E/2 W/2, E/2 (ALL) SEC. 8 W/2 DESCRIPTION ₩ 13 14 10W 10W 12 10W 24 NE/4, N/2 SE S/2 SW/4 S/2 SE/4 N/2 SW/4 E/2 SE/4 NUMBER OF ACRES 220.00 160.00 845.80 80.00 ROYALTY:
WORKING INTEREST:
EL PASO PRODUCTION CO WORKING INTEREST: EL PASO PRODUCTION CO ROYALTY: ROYALTY:
WORKING INTEREST:
BOLACK MINERALS COMPANY TOTAL ORRI: TOTAL ORRI: WORKING INTEREST:
AMOCO PRODUCTION COMPANY TOTAL ORRI: TOTAL CONOCO INC ROYALTY: ORRI: OWNERSHIP DRILLING BLOCK TRACT: TRACT: TRACT: TRACT: 025 029 0298 006 100.000000 100.000000 2.000000 12.500000 2.000000 12.500000 37.250000 37.250000 PERCENTAGE 100.000000 100.000000 85.500000 85.500000 87.500000 13.000000 12.500000 12.500000 PERCENTAGE COMMITTED 100.000000 2.000000 12.500000 100.000000 37.250000 37.250000 100.000000 100.000000 85.500000 85.500000 2.000000 12.500000 13.000000 12.500000 87.500000 12.500000 PARTICIPATION 22.097167 5.747667 4.180121 2.090061

REMARKS:

ACTUAL TOTAL ACREAGE IS 440 ACRES.
REMAINING 220 ACRES CARRIED UNDER TR 29C
AS UNCOMMITTED.
.5% ORRI IS BORNE SOLELY BY EPPC.

EFFECTIVE 90/01/01

PAGE FED530AP-A

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E-286-33 E-286-36 E-70-37 NM-01594 SERIAL NUMBER SEC. SEC. 3 1 Ν SEC. 31 N 31N 000 SEC. DESCRIPTION REMARKS: 000 000 10W 10W **10**W N N N NE/4 SW/4 NE/4 SE/4 LOT 4, (NW/NW) SAME AS TR 29B REMAINING UNCOMMITTED 220 ACRES (KELLY INTEREST). OF ACRES NUMBER 220.00 40.00 40.00 40.57 LAURENCE C KELLY DECD LAURENCE BEVER KELLY ROBERT LORENZO KELLY GREGORY LOUIS KELLY WORKING INTEREST:
PHILLIPS PETROLEUM COMPANY
WILLIAMS PRODUCTION COMPANY ORRI: ROYALTY:
WORKING INTEREST:
AMOCO PRODUCTION COMPANY WORKING INTEREST:
PHILLIPS PETROLEUM COMPANY
WILLIAMS PRODUCTION COMPANY ROYALTY: ROYALTY: CONOCO INC ORRI: TOTAL TOTAL TOTAL ORRI: WORKING INTEREST: TOTAL ROYALTY: OWNERSHIP DRILLING TRACT: TRACT: TRACT: TRACT: BLOCK 036 035 031 0290 100.000000 ........ 100.000000 69.290000 15.210000 3.000000 2.500000 12.500000 100.000000 PERCENTAGE 42.500000 3.000000 12.500000 100.000000 21.125000 10.562500 15.210000 42.500000 3.000000 12.500000 69.290000 10.562500 42.250000 PERCENTAGE COMMITTED 100.000000 42.500000 42.500000 3.000000 12.500000 100.000000 100.000000 100.000000 42.250000 21.125000 69.290000 2.500000 12.500000 3.000000 12.500000 3.000000 15.210000 15.210000 69.290000 10.562500 10.562500 PERCENT ACTUAL PARTICIPATION 1.045031 1.045030 1.059922 0.000000

EFFECTIVE 90/01/01

### RUN DATE 01/28/92 RUN TIME 08:59:09

## MERIDIAN OIL INC SCHEDULE VII THE 006 EXPANDED PARTICIPATING AREA FOR PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

PAGE FED530AP-A

	2		8-11124-46				E-5843				E-5318-1				E-3150-1	
SEC.	) 4		31N SEC.			SEC.	312			SEC.	3 1 Z			SEC.	312	0
2	•		10W			2	10W			2	10w			2	10w	DESCRIPTION
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			40.00				80.00				40.00				120.35	ותו ותו
ORRI: ROYALTY: WORKING INTEREST: AMOCO PRODUCTION COMPANY CONOCO INC		AMOCO PRODUCTION COMPANY CONOCO INC	TRACT:	TOTAL	EL PASO PRODUCTION CO	**	TRACT:	TOTAL	SOUTHLAND ROYALTY CO	EORKING INTERFOL.	TRACT:	TOTAL	EL PASO PRODUCTION CO	••	TRACT:	NG NG
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			1.045030				2.090061							1 1 1		PERCENT ACTUAL PARTICIPATION

EFFECTIVE 90/01/01

PAGE 5 FED530AP-A

		71 ETI ETI		-	TI ITI ITI				8-11370-46				B-11133-34				8-11133-33	
	SEC.	312 12		SEC.	312			SEC.				SEC.	3 1 N			SEC.	312	D
	14	10W		4	10W			2	10w			2	10W			2	10w	DESCRIPTION
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_	b⊣m≤n	80.00		<b></b>	40.00		-		40,43				40.49				120.00	NUMBER OF ACRES
TOTAL	ROYALTY: WORKING INTEREST: EL PASO PRODUCTION CO TOTAL MINATOME CORPORATION AMOCO PRODUCTION COMPANY	ORRI:	EL PASO PRODUCTION CO TOTAL MINATOME CORPORATION AMOCO PRODUCTION COMPANY TOTAL	: INTEREST:	TRACT:	TOTAL	SS	WORKING INTERFOT.	TRACT:	TOTAL	WILLIAMS PRODUCTION COMPANY	••	TRACT:	TOTAL	WILLIAMS PRODUCTION COMPANY	••	TRACT:	<u>.</u> ຄ ເ
		068A			068				063				061				060	BLOCK
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MERIDIAN OIL INC SCHEDULE VII THE 006 EXPANDED PARTICIPATING AREA FOR PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
THE 1	31N 10W 40.00	40.00	TRACT: 0688		\$ \$ \$ \$ 1 1	1.045031
	*******************	ORRI:		0.500000	0.500000	
	SEC. 14 NW/4 SW/4	ROV	ROYALTY:	12.500000	12.500000	
		WOR	WORKING INTEREST:			
		AMC	AMOCO PRODUCTION COMPANY	24.468750	24.468750	
		101	TOTAL MINATOME CORPORATION	19.031250	19.031250	
		EL	EL PASO PRODUCTION CO	43.500000	43.500000	
		TOTAL	À	100.000000	100.000000	

EFFECTIVE 90/01/01

PAGE FED530AP-A თ

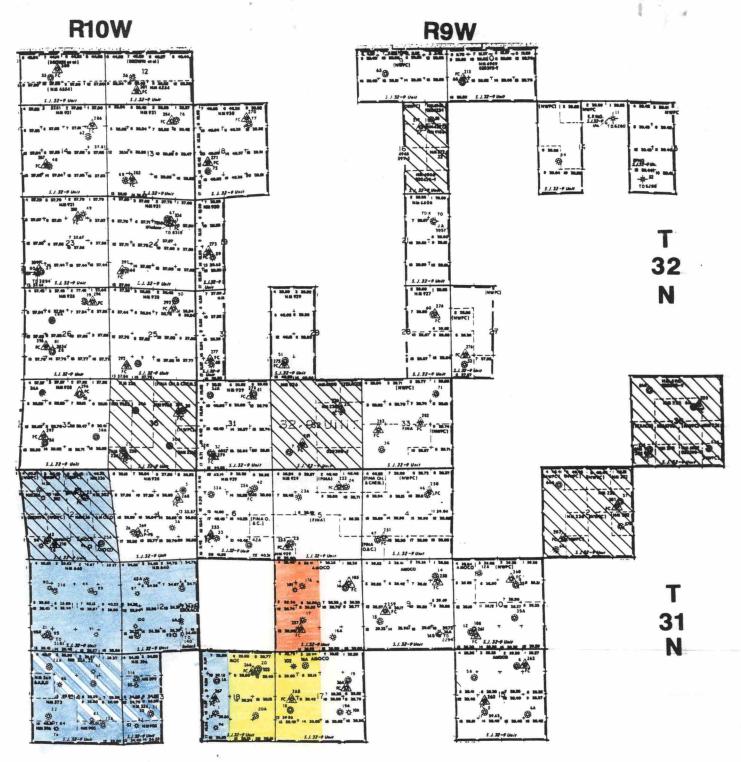
TOWNSHIP 31N RANGE 10W SECTION 000 : SAME AS TR 29B

O ACREO NON-COMMITTED	3,827.64	TOTAL COMMITTED:	
total and to total time.		SECTION 8 : W/2	
	E/2 W/2, E/2 (ALL)	18:	
		SECTION 17 : W/2	,,
		₹	
		SECTION 14 : SW/4 SW/4	
		SECTION 14 : NW/4 SW/4	
		SECTION 14 : E/2 SW/4	
		SECTION 14 : SW/4 NW/4	
		SECTION 14 : S/2 SE/4	
	NE/4, N/2 SE	SECTION 14 : N/2 NW, SE/NW,	
		SECTION 13 : N/2 SW/4	, .
		SECTION 13 : N/2 NW/4	
		SECTION 13 : S/2 NW/4	
		SECTION 13 : S/2 SW/4	
		SECTION 12 : E/2 SE/4	,,
	W/2 SE/4	12 :	,,
		<del>-</del> :	,,
		02 :	,,
		SECTION 2 : LOT 3 (NE/NW)	
		2	,,
		2 :	, .
		SECTION 2 : SE/NE, SE/NW	
		SECTION 2 : NW/4 SW/4	
	SW/NW	2	
		2 : NE/4	
		2 : NE/4	
		SECTION 2 : LOT 4, (NW/NW)	
		CRNUILT GIV . XXXXXX CO	

TOTAL NUMBER OF ACRES IN PARTICIPATING AREA:

4,047.64

220.00



#### SAN JUAN 32-9 UNIT



- 井 Pictured Cliffs
- **帶** Chacra
- Mesaverde
- Gallup

- Pending 5th expansion Effective 12/1/89
  Pending 6th expansion Effective 1/1/90
- APPROVED PICTURED CLIFFS PARTICIPATING AREA
- OIL & GAS OWNED BY STATE OF NEW MEXICO

MERIDIAN OIL
LAND DEPARTMENT
January 24, 1992

#498

MERIDIAN OF CONSERV ON DIVISION REC: /ED

June 25, 1991

'91 JUN 27 NM 9 09

Bureau of Land Management Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87501

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM 87501

RE: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
1991 Plan of Development
1st Supplemental Plan

#### Gentlemen:

By letter dated February 26, 1991, Meridian Oil Inc., as Unit Operator of the San Juan 32-9 Unit, filed a 1991 Plan of Development which proposed the drilling of six (6) wells. In addition to the Plan of Development proposed by letter dated February 26, 1991, Meridian Oil Inc., as Unit Operator, submits the following additional well for drilling during the 1991 calendar year.

WELL NAME DESCRIPTION FORMATION

San Juan 32-9 Unit SWD #5 NE/4 NE/4 Sec. 18 T31N-R9W Morrison/Entrada

Meridian Oil Inc., as Unit Operator will drill any offset wells that may be required to prevent drainage of unitized substances and any other wells deemed necessary or which are requested by the Unit Operator or the Working Interest Owners. If this 1st Supplemental Plan of Development is acceptable, please signify your approval as required under Section 9 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to the attention of the undersigned at the letterhead address. Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

Kent Beers WA Attorney-in-Fact

KOB:KLH:11 ID#412+61 San Juan 32-9 Unit, 3.0

APPROVED:	DATE:
Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division.)	
APPROVED:	DATE:
Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division.)	·
APPROVED; Ky Caffurn	DATE: 7-1-9/
Oil Conservation Division (Subject	•
to like approval by the Bureau of Land	
Management and the Commissioner of	
Public Lands.)	
table Lands,	

The foregoing approvals for the 1st Supplemental 1991 Plan of Development for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company

Arco Oil & Gas Company

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr. and Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mr. John S. Brown, Jr.

Meridian Oil Production Inc.

Continental Illinois National
Bank & Trust Company of Chicago
Trustee for Trust No. 23935

Continental Illinois National
Bank & Trust Company of Chicago
Trustee for Trust No. 23949

Conoco, Inc. - Election to Midland

Cross Timbers Group

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

El Paso Production Company

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Fina Oil & Chemical Company

Mrs. Minnie A. Fitting

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude Lambe

James E. Palmer, Successor Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Total Minatome Corporation

Robert S. McDonald, Agnus
McDonald & the Northern
Trust Company, Trustees under
the Will of Margaret S.
McDonald Trust

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil & Gas Prop.

Mesa Petroleum Company

Williams Production Company

Freeport-McMoRan Oil & Gas Co.

Phillips Petroleum Company

Ms. Nora R. Ranney

Mr. Edward L. Rayerson, Jr.

Mr. James M. Raymond, Ind. & as Trustee for Corrine Miller Gay & Maydell Miller Mast Trusts

Ms. Catherine R. Ruml

Shaw, Isham and Company
 Trust #1 for Benefit of John I.
 Shaw and Rodger D. Shaw

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS PAGE 2

Mr. Ralph U. Fitting, III and J. Robert Jones, Anc. Executor of the Estate of Ralph U. Fitting Jr.

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortland T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Estate of Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. J. Robert Jones

Elizabeth B. Simpson Trust

William B. Simpson Revocable Tr.

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart Trust

Mr. William P. Sutter

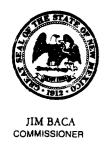
Texaco Producing Inc.

Kay B. Towle

Estate of Frederick F. Webster

Katherine Isham White

Miss Mary S. Zick



#### State of New Mexico

OFFICE OF THE

#### Commissioner of Public Cands

Santa Fe

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

April 11, 1991

Meridian Oil Incorporated 3535 East 30th Street P.O. Box 4289 Farmington, NM 87499-4289

Attn: Karen L. Hopkins

Re: San Juan 32-9 Unit

San Juan County, New Mexico

1991 Plan of Development Approval

Dear Ms. Hopkins:

The Commissioner of Public Lands has this date approved the 1991 Plan of Development for the San Juan 32-9 Unit. Our approval is subject to like approval by all other appropriate agencies.

There is a possibility of drainage by wells outside the Unit Area and the need for further development may exist.

If we may be of further assistance please contact our office at (505) 827-5791.

Sincerely,

JIM BACA

COMMISSIONER OF PUBLIC LANDS

Bv.

Floyd O. Prando, Director Oil, Gas & Minerals Division

Done Hum

JB/FOP/DM/dm

cc: OCD

Unit POD File

Unit Correspondence File

#### MERIDIAN OIL

February 26, 1991

11 FEB 29 AM 9 24

PIL DOMSERY OF DIVISION

Bureau of Land Management Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401 Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87501

Oil Conservation Commission State of New Mexico P.O. Box 2088 Santa Fe, NM 87501

> RE: San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico 1991 Plan of Development

#### Gentlemen:

By letters dated February 28, 1990, May 15, 1990, and September 5, 1990, Meridian Oil Inc., as Unit Operator, for the San Juan 32-9 Unit, filed a Plan of Development and First and Second Amendments to said Plan of Development concerning the referenced unit for the calendar year 1990. These programs provided for the drilling of five (5) Pictured Cliffs formation wells and sixty-eight (68) Fruitland formation wells. Fifty-eight (58) wells were drilled. The following wells were not drilled and should be cancelled from the Plan of Development:

WELL NUMBER	DRILLING BLOCK	<u> FORMATION</u>
San Juan 32-9 Unit #212	W/2 13-31N-10W	Fruitland Coal
San Juan 32-9 Unit #213	E/2 14-31N-10W	Fruitland Coal
San Juan 32-9 Unit #214	W/2 14-31N-10W	Fruitland Coal
San Juan 32-9 Unit #220	E/2 11-31N-10W	Fruitland Coal
San Juan 32-9 Unit #221	W/2 11-31N-10W	Fruitland Coal
San Juan 32-9 Unit #222	E/2 12-31N-10W	Fruitland Coal
San Juan 32-9 Unit #223	W/2 12-31N-10W	Fruitland Coal
San Juan 32-9 Unit #241	W/2 13-32N-09W	Fruitland Coal
San Juan 32-9 Unit #242	W/2 14-32N-09W	Fruitland Coal
San Juan 32-9 Unit #272	E/2 21-32N-09W	Fruitland Coal
San Juan 32-9 Unit #302	A11 09-32N-09W	Fruitland Coal

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Fruitland Coal, Being Evaluated	41
Fruitland Coal, Waiting on Completion	16
Fruitland Coal, Plugged & Abandoned	2
Pictured Cliffs, Commercial	16
Pictured Cliffs, Being Evaluated	6
Pictured Cliffs, Plugged & Abandoned	2
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	5
Mesaverde, Plugged & Abandoned	3
Mesaverde/Dakota Dual (Plugged Back to Mesaverde)	1
Dakota, Non-Commercial	1
•	195

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, Meridian Oil Inc., as Unit Operator, hereby submits the following wells for the 1991 Plan of Development.

WELL NUMBER	DRILLING BLOCK	<u> FORMATION</u>
San Juan 32-9 Unit #109*	NW/4 15-31N-09W	Pictured Cliffs
San Juan 32-9 Unit #110*	SE/4 15-31N-09W	Pictured Cliffs
San Juan 32-9 Unit #111	SE/4 08-31N-09W	Pictured Cliffs
San Juan 32-9 Unit #112	SE/4 09-31N-09W	Pictured Cliffs
San Juan 32-9 Unit #217*	E/2 16-32N-09W	Fruitland Coal
San Juan 32-9 Unit #276*	W/2 27-32N-09W	Fruitland Coal

\*Carried over from 1990 Plan of Development.

Meridian Oil Inc. has contacted all of the Working Interest Owners and has received the necessary concurrence to propose the drilling of the above listed wells during the calendar year 1991.

Meridian Oil Inc., as Unit Operator, plans to drill any offset wells required to prevent drainage to unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners.

If this Plan of Development is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to the attention of the undersigned at the letterhead address.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

Kent Beers

Attorney-in-Fact

KOB:KLH:11 ID#404+82

San Juan 32-9 Unit, 3.0

APPROVED:	DATED:
Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED:  Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division)	DATED:
APPROVED:  Oil Conservation Division (Subject to like approval by the Bureau of Land Management and the	DATED: 3-6-9/

Commissioner of Public Lands)

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company

Arco Oil & Gas Company

Bolack Minerals Company

John S. Brown, Jr.

Conoco, Inc.

El Paso Production Company

FMP Operating Company

Fina Oil and Chemical Company

Koch Industries, Inc.

Mr. T. H. McElvain, Jr.

Catherine M. Harvey

T. H. McElvain Oil & Gas Prop.

Mesa Petroleum Company

Northwest Pipeline Corporation

Phillips Petroleum Company

Mr. James M. Raymond, Ind., and as Executor of Estate of Mabelle McElvain Miller Nestler, and Trustee for Corinne Miller Gay and Maydell Miller Mast Trust

Southland Royalty Company

Texaco Producing Inc.

Tract #5 Working Interest Owners (See Attached Sheet)

#### SAN JUAN 32-9 UNIT TRACT #5 WORKING INTEREST OWNERS

Suzanne La Force Baber

Douglas N. Bard

James C. Bard

Ralph A. Bard, Jr., and Ralph Austin Bard, Jr.

Roy E. Bard, Jr.

G. R. Brainard, Jr.

Continental Illinois National
Bank & Trust Company of Chicago
Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Suzette M. Davidson

Eleanor Isham Dunne

Charles W. Farnham

Elizabeth B. Farrington

Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Anc. Executor of the Estate of Ralph U. Fitting, Jr.

Robert D. Fitting

Nancy H. Gerson

Jay C. Halls, Trustee

Cortland T. Hill

Albert L. Hopkins, Jr.

George S. Isham

Estate of Henry P. Isham, Jr.

Robert T. Isham

Josephine Jacobson

J. Robert Jones

Nancy LaForce Keyes

W. Watson LaForce, J.

James E. Palmer, Successor Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settler

Robert S. McDonald, Agnus
McDonald & the Northern Trust
Company, Trustees under the
Will of Margaret S. McDonald
Trust

Nora R. Ranney

Edward L. Rayerson, Jr.

Catherine R. Ruml

Shaw, Isham and Company
Trust #1 for Benefit of John I.
Shaw and Rodger D. Shaw

William B. Simpson Revocable Trust

Elizabeth B. Simpson Trust

Sydney Stein, Jr.

John Stuart

R. Douglas Stuart Trust

William P. Sutter

Kay B. Towle

Estate of Frederick F. Webster

Katherine Isham White

Mary S. Zick



#### United States Department of the Interior

FARMINGTON RESOURCE AREA
1235 LAPLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401



IN REPLY REFER TO:

San Juan 32-9 Unit (POD) 3183.6 (019)

NOV. 3 O 1998

Meridian 0il
P. 0. Box 4289
Farmington, NM 87499-4289

Re: San Juan 32-9 Unit

2nd Supplement, 1990 POD

Gentlemen:

Enclosed is an approved copy of your Second Supplement to the 1990 Plan of Development for the San Juan 32-9 Unit. Your 1991 POD is due March 1, 1991.

Please call Duane Spencer at (505) 327-5344 if you have any questions concerning this matter.

Sincerely,

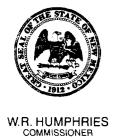
7s/ John L. Keller

John L. Keller Chief, Branch of Mineral Resources

cc:

New Mexico Oil Conservation Division, 310 Old Santa Fe Trail, Room 206, Santa Fe, NM 87503 w/o encl.
State of New Mexico, Commissioner of Public Lands, P. O. Box 1148, Santa Fe, NM 87504 w/o encl.

#### State of New Mexico





#### Commissioner of Public Lands

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

October 4, 1990

Mr. Tom Hawkins, Senior Landman Meridian Oil Inc., 3535 East 30th Street P.O. box 4289 Farmington, NM 87499-4289

Re: San Juan 32-9 Unit Rio Arribe County, New Mexico 1990 Plan of Development and First Amendment

Dear Mr. Hawkins:

The Commissioner of Public Lands this date approved the 1990 Plan of Development for the San Juan 32-9 Unit. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development may exist. You will be contacted at a later date regarding these possibilities.

If we may be of further help, please do not hesitate to contact Clyde Langdale at (505) 827-5791.

Sincerely,

W. R. HUMPHRIES

BY: I Copy to Man

Floyd O. Prando, Director Oil, Gas & Minerals Division

cc: OCD

Unit Corresp.

Unit POD

#### MERIDIAN OIL

OF COMSER OF ON DIVISION REFERED

'90 SEP 7 AM 8 28

September 5, 1990

Bureau of Land Management
Farmington Resource Area
1235 La Plata Highway
Farmington, New Mexico 87401

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87501

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM 87501

Re: San Juan 32-9 Unit, #14-08-001-569
San Juan County, New Mexico
1990 Plan of Development
Second Supplemental Plan

#### Gentlemen:

By letter dated February 28, 1990, Meridian Oil Inc., as Unit Operator of the San Juan 32-9 Unit, filed a 1990 Plan of Development which proposed the drilling of sixty-six (66) wells. By letter dated May 15, 1990, Meridian Oil Inc., as Unit Operator, filed the First Supplemental Plan which proposed the drilling of three (3) additional wells.

In addition to the Plan of Development proposed by letters dated February 28, 1990 and May 15, 1990, Meridian Oil Inc., as Unit Operator, submits the following additional wells for drilling during the 1990 calendar year.

WELL NAME	DESCRIPTION	FORMATION
San Juan 32-9 Unit #220	E/2 Section 11, T31N, R10W	Fruitland Coal
San Juan 32-9 Unit #221	W/2 Section 11, T31N, R10W	Fruitland Coal
San Juan 32-9 Unit #222	E/2 Section 12, T31N, R10W	Fruitland Coal
San Juan 32-9 Unit #223	W/2 Section 12, T31N, R10W	Fruitland Coal

Meridian Oil Inc., as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Second Supplemental Plan of Development is acceptable, please signify your approval as required under Section 9 of the Unit Agreement in the space provided on the attached sheet and return an approved copy of the attention of the undersigned at the letterhead address.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

Kent Beers JFH Attorney-in-Fact

KOB:TFH:gm Enclosures San Juan 32-9 Unit, 3.0

APPROVED:	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	DATED:
APPROVED:	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division)	DATED:
APPROVED:	Oil Conservation Division (Subject to like approval by the Bureau of Land Management and the Commissioner of Public Lands)	DATED: <u>9-12-90</u>

The foregoing approvals for the Second Amendment to the 1990 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company

Arco Oil & Gas Company

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr. and Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Conoco, Inc. - Election to Midland

Crown Central Petroleum

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

El Paso Natural Gas Company

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Fina Oil & Chemical Company

Mrs. Minnie A. Fitting

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude Lambe

James E. Palmer, Successor Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Total Minatome Corporation

Robert S. McDonald, Agnus
McDonald & the Northern
Trust Company, Trustees under
the Will of Margaret S.
McDonald Trust

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil & Gas Prop.

Mesa Petroleum Company

Northwest Pipeline Corp.

FMP Operating Company

Phillips Petroleum Company

Ms. Nora R. Ranney

Mr. Edward L. Rayerson, Jr.

Mr. James M. Raymond, Ind. & as Executor of Estate of Mabelle McElvain Miller Nestler, & Trustee for Corrine Miller Gay & Maydell Miller Mast Trusts

Ms. Catherine R. Ruml

Shaw, Isham and Company
Trust #1 for Benefit of John I.
Shaw and Rodger D. Shaw

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS PAGE 2

Mr. Ralph U. Fitting, III and
 J. Robert Jones, Anc. Executor
 of the Estate of Ralph U. Fitting Jr.

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortland T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Estate of Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. J. Robert Jones

Elizabeth B. Simpson Trust

William B. Simpson Revocable Tr.

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart Trust

Mr. William P. Sutter

Texaco Producing Inc.

Kay B. Towle

Estate of Frederick F. Webster

Katherine Isham White

Miss Mary S. Zick

IL CONSERVE TON DIVISION

United States Department of the Interior

ATBUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA 1235 La Plata Highway

Farmington, New Mexico 87401

San Juan 32-9 Unit (POD) 3180 (019)

JUL. 0 6 1990

Meridian Oil Incorporated P. C. Box 4269 Sacrington, NA 37499

westlemen:

One approved copy of your first supplement to your 1990 Plan of Development for the Sun Juan 32-9 Unit area. San Juan County. New Mexico in enclosed. Such plan, proposing the drilling of three additional Fruitland Coal wells was approved on this date (subject to like approval by the appropriate officials of the State of New Mexico).

The possibility of drainage by wells outside of the unit boundary say exist. You will be contacted at a later date about this possibility.

If you have any questions, please contact Kenny Howell, Petroleum Engineer, st the above address or telephone (505) 327-5344.

Sincerely.

/s/ John L. Keller

John L. Keller, Chief Branch of Mineral Resources

Siste of New Mexico, Commissioner of Public Lands, P. O. Nox 1149. Zanta Pe. NE 87504 /New Sexico Cil Conservation Division, 310 Old Santa Fe Trail, Boom 200, Santa Pe. NS 87503

#### MERIDIAN OIL

cogn 23 P.1 8 50

May 15, 1990

Bureau of Land Management Farmington Resource Area 1235 La Plata Highway Farmington, New Mexico 87401

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87501

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM 87501

> Re: San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico 1990 Plan of Development First Supplemental Plan

#### Gentlemen:

By letter dated February 28, 1990, Meridian Oil Inc., as Unit Operator of the San Juan 32-9 Unit, filed a 1990 Plan of Development which proposed the drilling of sixty-six (66) wells.

In addition to the Plan of Development proposed by letter dated February 28, 1990 Meridian Oil Inc., as Unit Operator, submits the following additional wells for drilling during the 1990 calendar year.

May 15, 1990

<u>WELL NAME</u>	DESCRIPTION	FORMATION
San Juan 32-9 Unit #300	All Sec. 11-32N-10W	Fruitland Coal
San Juan 32-9 Unit #301	All Sec. 12-32N-10W	Fruitland Coal
San Juan 32-9 Unit #302	All Sec. 9-32N-9W	Fruitland Coal

Meridian Oil Inc., as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances and any other wells deemed necessary or which are requested by the Unit Operator or the working interest owners.

If this First Supplemental Plan of Development is acceptable, please signify your approval as required under Section 9 of the Unit Agreement in the space provided on the attached sheet and return an approved copy of the attention of the undersigned at the letterhead address.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

Kent Beers

Attorney-in-Fact

aft

KOB:TFH:sb

S.J. 32-9 Unit 3.0

APPROVED:	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	DATED:	_
APPROVED:	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the	DATED:	<del>-</del>
	Oil Conservation Division)		٠
APPROVED:	Oil Conservation Division (Subject to like approval by the Bureau of Land Management and the	DATED: 5-24-90	

Commissioner of Public Lands)

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company

Arco Oil & Gas Company

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr. and Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Continental Illinois National
Bank & Trust Company of Chicago
Trustee for Trust No. 23935

Continental Illinois National
Bank & Trust Company of Chicago
Trustee for Trust No. 23949

Conoco, Inc. - Election to Midland

Crown Central Petroleum

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

El Paso Natural Gas Company

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Fina Oil & Chemical Company

Mrs. Minnie A. Fitting

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude Lambe

James E. Palmer, Successor Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Total Minatome Corporation

Robert S. McDonald, Agnus
McDonald & the Northern
Trust Company, Trustees under
the Will of Margaret S.
McDonald Trust

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil & Gas Prop.

Mesa Petroleum Company

Northwest Pipeline Corp.

FMP Operating Company

Phillips Petroleum Company

Ms. Nora R. Ranney

Mr. Edward L. Rayerson, Jr.

Mr. James M. Raymond, Ind. & as Executor of Estate of Mabelle McElvain Miller Nestler, & Trustee for Corrine Miller Gay & Maydell Miller Mast Trusts

Ms. Catherine R. Ruml

Shaw, Isham and Company
Trust #1 for Benefit of John I.
Shaw and Rodger D. Shaw

# SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS PAGE 2

Mr. Ralph U. Fitting, III and J. Robert Jones, Anc. Executor of the Estate of Ralph U. Fitting Jr.

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortland T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Estate of Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. J. Robert Jones

Elizabeth B. Simpson Trust

William B. Simpson Revocable Tr.

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart Trust

Mr. William P. Sutter

Texaco Producing Inc.

Kay B. Towle

Estate of Frederick F. Webster

Katherine Isham White

Miss Mary S. Zick

# 498

MERIDIAN OIL

199 AM 5 AM 10 11

Weisivie - Control

February 28, 1990

Bureau of Land Management Farmington Resource Area 1235 La Plata Highway Farmington, New Mexico 87401

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87501

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM 87501

> Re: San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico 1990 Plan of Development

## Gentlemen:

By letters dated February 24, 1989, June 8, 1989 and September 14, 1989, Amoco Production Company, as Unit Operator, for the San Juan 32-9 Unit, filed a Plan of Development and First and Second Amendments to said Plan of Development concerning the referenced unit for the calendar year 1989. These programs provided for the drilling of three (3) Pictured Cliffs formation wells and two (2) Fruitland formation wells. All five wells were drilled.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs, Commercial	16
Pictured Cliffs, Being Evaluated	3
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	4
Mesaverde, Plugged & Abandoned	3
Mesaverde/Dakota Dual (Plugged Back to Mesaverde)	1
Mesaverde/Dakota Dual (Plugged & Abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Being Evaluated	2
Fruitland, Plugged & Abandoned	2
	135

Meridian Oil Inc. has succeeded Amoco Production Company as Unit Operator.

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, Meridian Oil Inc., as Unit Operator, hereby submits the following wells for the 1990 Plan of Development.

Well Number	Drilling Block	Formation
San Juan 32-9 Unit #106	E/2 17-31N-09W	Pictured Cliffs
San Juan 32-9 Unit #107	W/2 09-31N-09W	Pictured Cliffs
San Juan 32-9 Unit #108	W/2 10-31N-09W	Pictured Cliffs
San Juan 32-9 Unit #109	W/2 15-31N-09W	Pictured Cliffs
San Juan 32-9 Unit #110	E/2 15-31N-09W	Pictured Cliffs
San Juan 32-9 Unit #201	E/2 02-31N-09W	Fruitland Coal
San Juan 32-9 Unit #202	W/2 02-31N-09W	Fruitland Coal
San Juan 32-9 Unit #209	E/2 02-31N-10W	Fruitland Coal
San Juan 32-9 Unit #210	W/2 02-31N-10W	Fruitland Coal
San Juan 32-9 Unit #212	W/2 13-31N-10W	Fruitland Coal
San Juan 32-9 Unit #213	E/2 14-31N-10W	Fruitland Coal
San Juan 32-9 Unit #214	W/2 14-31N-10W	Fruitland Coal
San Juan 32-9 Unit #215	A11 10-32N-09W	Fruitland Coal
San Juan 32-9 Unit #217	E/2 16-32N-09W	Fruitland Coal
San Juan 32-9 Unit #226	E/2 32-32N-09W	Fruitland Coal
San Juan 32-9 Unit #228	E/2 36-32N-09W	Fruitland Coal
San Juan 32-9 Unit #229	E/2 36-32N-10W	Fruitland Coal
San Juan 32-9 Unit #230	W/2 36-32N-10W	Fruitland Coal
San Juan 32-9 Unit #235	W/2 36-32N-09W	Fruitland Coal
San Juan 32-9 Unit #241	W/2 13-32N-09W	Fruitland Coal
San Juan 32-9 Unit #242	W/2 14-32N-09W	Fruitland Coal
San Juan 32-9 Unit #250	E/2 04-31N-09W	Fruitland Coal
San Juan 32-9 Unit #251	W/2 04-31N-09W	Fruitland Coal
San Juan 32-9 Unit #252	E/2 05-31N-09W	Fruitland Coal
San Juan 32-9 Un <b>i</b> t #253	W/2 05-31N-09W	Fruitland Coal
San Juan 32-9 Unit #254	E/2 06-31N-09W	Fruitland Coal
San Juan 32-9 Un <b>i</b> t #255	W/2 06-31N-09W	Fruitland Coal
San Juan 32-9 Unit #257	W/2 08-31N-09W	Fruitland Coal
San Juan 32-9 Unit #258	E/2 09-31N-09W	Fruitland Coal
San Juan 32-9 Unit #259	W/2 09-31N-09W	Fruitland Coal
San Juan 32-9 Unit #260	E/2 10-31N-09W	Fruitland Coal
San Juan 32-9 Unit #261	W/2 10-31N-09W	Fruitland Coal
San Juan 32-9 Unit #262	E/2 15-31N-09W	Fruitland Coal
San Juan 32-9 Unit #263	W/2 15-31N-09W	Fruitland Coal
San Juan 32-9 Unit #264	E/2 17-31N-09W	Fruitland Coal
San Juan 32-9 Unit #265	W/2 17-31N-09W	Fruitland Coal
San Juan 32-9 Unit #266	E/2 18-31N-09W	Fruitland Coal
San Juan 32-9 Unit #267	W/2 18-31N-09W	Fruitland Coal
San Juan 32-9 Unit #268	E/2 01-31N-10W	Fruitland Coal
San Juan 32-9 Unit #269	W/2 01-31N-10W	Fruitland Coal
San Juan 32-9 Unit #270	E/2 18-32N-09W	Fruitland Coal
San Juan 32-9 Unit #271	W/2 18-32N-09W	Fruitland Coal
San Juan 32-9 Unit #272	E/2 21-32N-09W	Fruitland Coal
San Juan 32-9 Unit #273	W/2 19-32N-09W	Fruitland Coal

Well Number	Dri	lling Block	Formati	on
San Juan 32-9 Unit	#274 E/2	28-32N-09W	Fruitland	Coal
San Juan 32-9 Unit	#275 W/2	29-32N-09W	Fruitland	Coal
San Juan 32-9 Unit	#276 W/2	27-32N-09W	Fruitland	Coal
San Juan 32-9 Unit	#277 W/2	30-32N-09W	Fruitland	Coa1
San Juan 32-9 Unit	#278 E/2	31-32N-09W	Fruitland	Coal
San Juan 32-9 Unit	#279 W/2	31-32N-09W	Fruitland	Coal
San Juan 32-9 Unit	#281 W/2	32-32 <b>N</b> -09W	Fruitland	Coal
San Juan 32-9 Unit	#282 E/2	33-32N-09W	Fruitland	Coal
San Juan 32-9 Unit	#283 W/2	33-32N-09W	Fruitland	Coal
San Juan 32-9 Unit	#284 E/2	13-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#285 W/2	13-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#286 E/2	14-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#287 W/2	14-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#288 E/2	23-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#289 W/2	23-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#291 W/2	24-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#292 E/2	25-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#293 W/2	25-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#294 E/2	26-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#295 W/2	26-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#296 E/2	35-32N-10W	Fruitland	Coal
San Juan 32-9 Unit	#297 W/2	35-32N-10W	Fruitland	Coal

Meridian Oil Inc. has contacted all of the working interest owners and has received the necessary concurrence to propose the drilling of the above listed wells during the calendar year 1990.

Meridian Oil Inc., as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Plan of Development is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to the attention of the undersigned at the letterhead address.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours

Kent Beers

Attorney-in-Fact FH

KB:TFH:jf Enclosures 85+ San Juan 32-9 Unit, 3.0

APPROVED:		DATED:	
	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)		
APPROVED:	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division)	DATED:	
APPROVED:	Oil Conservation Division (Subject to like approval by the Bureau of Land Management and the	dated: <u>3-6-90</u>	

Commissioner of Public Lands)

The foregoing approvals for the 1990 Plan of Development for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

# OIL CONSERVATION DIVISION RECEIVED

# '89 OCT 23 AM 9 21

San Juan 32-9 Unit (POD) 3180 (019)

OCT. 1 9 1989

Amoco Production Company P. O. Box 800 Denver, CO 80201

### Gentlesen:

One approved copy of your Second Amendment to your 1989 Plan of Development for the San Juan 32-9 Unit area, San Juan County, New Mexico, is enclosed. Such plan, proposing the drilling of two Fruitland Coal wells (San Juan 32-9 No. 104 and San Juan 32-9 No. 105) was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

The possibility of drainage by wells outside of the unit boundary may exist. You will be contacted at a later date about this possibility.

If you have any questions, please contact Gail Keller at the above address or telephone (505) 327-5344.

Sincerely,

/s/ John L. Keller

John Keller Chief, Branch of Minerals

Enclosure

cc: Mew Mexico Oil Conservation Division, State Land Office Building, P. O. Box 2038, Santa Fe, MM 87504
Commissioner of Public Lands, State of New Mexico, P. O. Box 1148, Santa Fe, NM 87504

# State of New Mexico





# Commissioner of Public Lands

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

September 25, 1989

Amoco Production Company Southern Division P.O. Box 800 Denver, CO 80201

ATTN:

T.D. Autrey

RE:

San Juan 32-9 Unit

San Juan County, New Mexico

1989 Plan of Development - Second Amendment

### Gentlemen:

The Commissioner of Public Lands has this date approved the Second Amendment to your 1989 Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

Enclosed is an approved copy for your files. If we may be of further help, please do not hesitate to contact Susan Howarth at (505) 827-5791.

Very truly yours,

W.R. HUMPHRIES COMMISSIONER OF PUBLIC LANDS

4 Caple Thank

BV.

FLOYD O. PRANDO, Director Oil and Gas Division

(505) 827-5749

cc: OCD - Santa Fe, New Mexico

BI M

Unit Correspondence File

Unit P.O.D. File

WRH/FOP/SMH



## **Amoco Production Company**

Southern Division 1670 Broadway P.O. Box 800 Denver, Colorado 80201 303-830-4040

T. D. Autry
Division Production Manager

September 14, 1989

Bureau of Land Management Albuquerque District Office 435 Montano N.E. Albuquerque, NM 87107 Oil Conservation Division State of New Mexico 310 Old Santa Fe Trail, Room 206 Santa Fe, NM 87503

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87504

File: KSD-143-416/WF

KSD-143-416/WF

San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico
1989 Plan of Development - Second Amendment

RECEINED

SEP 21 1989

OIL CONSERVATION DIV. SANTA FE

By letter dated April 28, 1989, Amoco Production Company, as Unit Operator for the San Juan 32-9 Unit filed the First Amendment to the 1989 Drilling Program. Subsequent to the submittal of said letter, two additional wells have been proposed for drilling under the 1989 Drilling Program. The wells proposed for drilling are as follows:

Well Name

Location

**Formation** 

San Juan 32-9 Unit #104

E/2 Sec. 24-T32N-R10W

Fruitland Coal

San Juan 32-9 Unit #105

N/2 Sec. 8-T31N-R9W

Fruitland Coal

All necessary working interest owners have been contacted and advised of the Second Amendment to the Drilling Program in accordance with the Unit Agreement.

Please signify your approval of the proposed amendment to the 1989 San Juan 32-9 Unit Plan of Development in the space provided below and return an approved copy to Amoco Production Company, P.O. Box 800, Denver, CO 80201, Attention: J.L. Spitler as soon as possible.

Bureau of Land Management, et al September 14, 1989 Page 2

Copies of this letter are being sent to all members of the unit as shown on the attached sheet.  $\,$ 

T. D. autry so

89021.JLS/cs

Attachment

Approved:	Bureau of Land Management (subject to like approval of Public Lands and the Oil Conservation Division)	Dated:	
( t	ommissioner of Public Lands subject to like approval of he Bureau of Land Management nd Oil Conservation Division)	Dated:	

Approved:

Oil Conservation Division (subject to like approval of the Bureau of Land Management and the Commissioner of Public Lands) Dated: 9-28-89

# Address List San Juan 32-9 Unit - Any and All Formations

Bolack Minerals Route 3, Box 47 3901 Bloomfield Highway Farmington, NM 87401

Grace M. Brown 2400 Savannah Avenue El Paso, TX 79930

Chevron U.S.A. Inc. Denver Area Production Supt. P.O. Box 599 Denver, CO 80201

Dave Wacker Conoco, Inc. P.O. Box 460 Hobbs, NM 88240

Fina Oil & Chemical Co. P.O. Box 2990 Midland, TX 79702

Koch Exploration Co. 3605 N. Dustin Street Farmington, NM 87401

T. H. McElvain, Estate Catherine B. McElvain P.O. Box 2148 Santa Fe, NM 87504 Meridian Oil, Inc. P.O. Box 4289 Farmington, NM 87499-4289

Mesa Petroleum Onshore Operations Division P.O. Box 2009 Amarillo, TX 79189

Sharon Clement Total Minatome P.O. Box 4326 Houston, TX 77210

Paul Thompson Northwest Pipeline Corp. P.O. Box 90 Farmington, NM 87401

James M. Raymond, Individually and as Trustee for M. Miller, C. Miller and M. Mast P.O. Box 1445
Kerrville, TX 78028

Texaco, Inc. Land Department P.O. Box 1270 Midland, TX 79702

Catherine M. Harvey P.O. Box 2148 Santa Fe, NM 87504

San Juan 32-9 Unit (POD) 3180 (019)

JUN. 3 0 1989

Amoco Production Company Attn: M. A. Ivy P. O. Box 800 Denver, CO 80201

#### Gentlemen:

One approved copy of your 1989 Plan of Development for the San Juan 32-9 Unit area, San Juan County, New Mexico is enclosed. Such plan, proposing the drilling of no wells during the calendar year 1989 was approved on this date (subject to like approval by the appropriate officials of the State of New Mexico).

The possibility of drainage by wells outside of the unit boundary may exist. You will be contacted at a later date about this possibility.

If you have any questions, please contact Gail Keller at the above address or telephone (505) 327-5344.

Sincerely,

John Keller

Chief, Branch of Minerals

Buclosure

cc: New Mexico 011 Conservation Division, State Land Office Building,
P. O. Box 2088, Santa Fe, NM 87504

Commissioner of Public Lands, State of New Mexico, P. O. Box 1148,
Santa Fe, NM 87504

Ć.

San Juan 32-9 Unit (POD) 3180 (019)

JUN. 3 0 1283

Amoco Production Company Attn: T. D. Autry P. O. Nox 800 Denvex, CO 80201

### Gentlemen:

One approved copy of the 1st Amendment to your 1989 Plan of Development for the San Juan Unit area, San Juan County, New Mexico, is enclosed. Such plan, proposing the drilling of three Pictured Cliffs wells (San Juan 32-9 Unit No. 101, San Juan 32-9 Unit No. 102 and San Juan 32-9 Unit No. 103) was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

The possibility of drainage by wells outside of the unit boundary may exist. You will be contacted at a later date about this possibility.

If you have any questions, please contact Gail Keller at the above address or telephone (505) 327-3344.

Sincerely,

John Keller

Chief, Branch of Minerals

Enclosure

ce: New Mexico Cil Conservation Division, State Land Office Building,
P. C. Box 2088, Santa Fe, NM 87504
Commissioner of Public Lands, State of New Mexico, P. C. Box 1148,

Santa Fe, MM 87504

William .

# State of New Mexico





# Commissioner of Public Lands

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

June 15, 1989

Amoco Production Company Southern Division P.O. Box 800 Denver, Colorado 80201

ATTN:

T. D. Autry

RE:

1989 Plan of Development - First Amendment

San Juan 32-9 Unit

San Juan County, New Mexico

## Gentlemen:

The Commissioner of Public Lands has this date approved the First Amendment to the above captioned 1989 Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

Enclosed is an approved copy for your files. If we may be of further help, please do not hesitate to contact us.

Very truly yours,

W.R. HUMPHRIES COMMISSIONER OF PUBLIC LANDS

4 Coyle Vhan

BY:

FLOYD O. PRANDO, Director Oil and Gas Division (505) 827-5749

cc: OCD - Santa Fe, New Mexico

Unit Correspondence File

WRH/FOP/SMH



## **Amoco Production Company**

Southern Division 1670 Broadway P.O. Box 800 Denver, Colorado 80201 303-830-4040

T. D. Autry Division Production Manager

June 8, 1989

Bureau of Land Management Albuquerque District Office 435 Montano N.E. Albuquerque, NM 87107

Oil Conservation Division State of New Mexico 310 Old Santa Fe Trail, Room 206 Santa Fe, NM 87503

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87504 **ENVISIONAL** 

JUN 1 3 1989

OIL CONSERVATION DIV.

File: LF-083-416

San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1989 Plan of Development First Amendment

Amoco Production Company, as Unit Operator, submits for your approval a proposed First Amendment to the 1989 Drilling Program.

Amoco proposes drilling the following three Pictured Cliffs wells in the unit in 1989.

Well Name	<u>Location</u>	<u>Formation</u>
San Juan 32-9 Unit #101	NW/4 Sec. 8 T31N, R9W	Pictured Cliffs
San Juan 32-9 Unit #102	NW/4 Sec. 17 T31N, R9W	Pictured Cliffs
San Juan 32-9 Unit #103	NE/4 Sec. 18 T31N, R9W	Pictured Cliffs

All three of the above described wells have been approved by Conoco, our working interest partner in the wells.

Please signify your approval of the proposed amendment to the 1989 San Juan 32-9 Unit Plan of Development in the space provided below and return an approved copy to Amoco Production Company, P.O. Box 800, Denver, CO 80201, Attention: J.A. Beckstrom.

Copies of this letter are being sent to all members of the unit as shown on the attached sheet.

TD Autry 107

T.D. Autry

Approved:	Dated:
Bureau of Land Managemen	
(subject to like approva	
Public Lands and the Oi	L
Conservation Division)	
Approved:	Dated:
Commissioner of Public L	ands
(subject to like approva	1
of the Bureau of Land	
Management and Oil	
Conservation Division)	
Approved: Tay Commen	Dated: 6-14-89
011 Corservation Divisio	n)
(subject to like approva	1
of the Bureau of Land	
Management and the	
Commissioner of Public	Lands)

JAB/jab

JAB01MAE

## ADDRESS LIST San Juan 32-9 Unit - Any and All Formations Revised March 1, 1989

Bolack Minerals Route 3, Box 47 3901 Bloomfield Highway Farmington, NM 87401

Grace M. Brown 2400 Savannah Avenue El Paso, TX 79930

Chevron U.S.A. Inc. Denver Area Production Supt. P. O. Box 599 Denver, CO 80201

Dave Wacker Conoco, Inc. P. O. Box 460 Hobbs, NM 88240

Charles Koch, Executor of The Estate of Claude Lamb Box 2256 Wichita, KS 67201

Fina Oil & Chemical Company P. O. Box 2990 Midland, TX 79702

Koch Exploration Company 3605 N. Dustin Street Farmington, NM 87401

Meridian Oil, Inc. P. O. Box 4289 Farmington, NM 87499-4289

Mesa Petroleum Onshore Operations Division P. O. Box 2009 Amarillo, TX 79189

Sharon Clement Total Minatome P. O. Box 4326 Houston, TX 77210

Paul Thompson Northwest Pipeline Corporation P. O. Box 90 Farmington, NM 87401

James M. Raymond, Individually and as Trustee for M. Miller, C. Miller & M. Mast P. O. Box 1445 Kerrville, TX 78028

Texaco, Inc. Land Department P. O. Box 1270 Midland, TX 79702

T. H. McElvain, Jr.
T. H. McElvain Oil & Gas Properties
P. O. Box 2149
Santa Fe, NM 87501



### Amoco Production Company

RECEIVE

OIL CONSERVATION DIV.

SANTAFE

Denver Region 1670 Broadway P.O. Box 800 Denver, Colorado 80201 303-830-4040

April 28, 1989

State of New Mexico Oll Conservation Commission 310 Old Santa Fe Trail, Room 206 Santa Fee, New Mexico 87503

File: JMA-107-417

Designation of Operator San Juan Units 28-7 a

Gentlemen:

Please be advised that Amoco has received formal approval from the BLM as unit operator of said units. Copies of such approvals are attached.

In further support, Conoco recognizes Amoco as successor to Tenneco Oli Company's Rocky Mountain Division and uphoids our legal right to operate these properties. Attached is a copy of a letter from Conoco.

Amoco continues to strongly support its own position as operator of these properties and we do not believe a ballot for change of operator is authorized or required by the operating agreement.

If further questions arise concerning this issue, please feel free to contact me.

Very truly yours.

M. R. Ivy Division Operations Manager

Attachments

cc: M. E. Cuba - 2425 AB cc: L. Fandriana - 2194 AB

## MONTGOMERY & ANDREWS

OF COUNSEL
William R. Federici

J. O. Seth (1883-1963)
A. K. Montgomery (1903-1987)
Frank Andrews (1914-1981)

Frank Andrews (1914-1981)

ontgomery Edmund H. Kendric

Seth D. Montgomery Victor R. Ortega Jeffrey R. Brannen John B. Pound Gary R. Kilpatric Thomas W. Olson William C. Madison Walter J. Melendres Bruce Herr Robert P. Worcester John B. Draper Nancy Anderson King Janet McL. McKay Joseph E. Earnest W. Perry Pearce Sarah M. Singleton Stephen S. Hamilton Bradford V. Coryell Michael H. Harbour Mack E. With Katherine W. Hall Robert J. Mroz Richard L. Puglisi Galen M. Buller

Edmund H. Kendrick Jay R. Hone Deborah J. Van Vleck James C. Murphy James R. Jurgens Ann M. Maloney Arturo Rodriguez Anne B. Hemenway Joan M. Waters Deborah S. Dungan Daniel E. Gershon Anne B. Tallmadge Kenneth B. Baca Robert A. Bassett Susan Andrews Joseph E. Whitley Paula G. Maynes Neils L. Thompson Cynthia S. Murray Nancy A. Taylor Rod D. Baker Joel P. Serra James C. Brockmann Sheila Scott Harris

PROFESSIONAL ASSOCIATION ATTORNEYS AND COUNSELORS AT LAW

April 4, 1989

HAND DELIVERED

.

(M. 19)

SANTA FE OFFICE 325 Paseo de Peralta Post Office Box 2307 Santa Fe, New Mexico 87504-2307

> Telephone (505) 982-3873 Telecopy (505) 982-4289

ALBUQUERQUE OFFICE 707 Broadway, N.E. Suite 500 Post Office Box 26927 Albuquerque, New Mexico 87125-6927

> Telephone (505) 242-9677 Telecopy (505) 242-9677

> REPLY TO SANTA FE OFFICE

Gary A. Stevens
Assistant District Manager
Mineral Resources
Albuquerque District Office
Bureau of Land Management
435 Montano, NE
Albuquerque, New Mexico 87107

Re: San Juan 32-9 Unit San Juan 28-7 Unit

Dear Mr. Stevens:

This letter is written on behalf of Meridian Oil, Inc. ("Meridian"), a major interest owner in the San Juan 32-9 and San Juan 28-7 Units in northwest New Mexico. As a substantial interest owner within these two federally approved units, Meridian requests that the Bureau of Land Management ("BLM") exercise its authority to ensure the proper administration of those units under the unit agreements and unit operating agreements which the BLM or its predecessor federal agency has approved.

Amoco Production Company ("Amoco"), a recent purchaser of an interest in the referenced units, is attempting to have itself named as successor operator of the units without consideration being given to the procedures set forth in the unit agreements and without consideration being given to the desires of working interest owners within those units.

Gary A. Stevens April 4, 1989 Page 2

In this regard, I have been forwarded copies of the letters of March 15, 1989 from Meridian to the working interest owners in the units, along with the cover letter which forwarded that letter to you, the Commissioner of Public Lands and the New Mexico Oil Conservation Division. In addition, I have reviewed a copy of your letter to Meridian dated March 24, 1989.

In your letter to Meridian, you state: "We have determined that the assignments filed on March 15, 1989 by Amoco for successor operator of the two units in question are correct as submitted . . ."

After reviewing the agreements governing the operation of these two units, along with federal regulation, we believe that the determination stated in your letter is inappropriate, and Meridian requests that you reconsider that determination before it is made formal.

Under the unit agreements covering the San Juan 32-9 and San Juan 28-7 units, in order for a successor operator to be authorized to operate the units, a vote of a majority of the working interest owners within those units is necessary. Both of the unit agreements have provisions governing this matter, and I am attaching a copy of the language of those two unit agreement sections to this letter as Attachments 1 and 2, respectively. This procedure has not been followed in this case.

Instead, Amoco is attempting to take over the operatorship of the two units by way of assignment. Assignment of the operatorship of these two units is not provided for in the unit agreements themselves. Although Amoco has completed and submitted to the BLM an assignment in a form set forth in the Code of Federal Regulations, (43 C.F.R 3186.4), the use of a form set forth in the Code of Federal Regulations is not an appropriate method of changing operatorship of these two units. The unit agreements, which memorialize the agreement of the parties, set forth the means for appointing a successor operator.

The form set forth in the Code of Federal Regulations is not intended to provide a means to circumvent the agreement of the parties and/or amend a unit agreement. The purposes of the form are (1) to represent to the BLM that the successor operator agrees to be bound by the terms and provisions of the unit agreement and (2) to obtain the BLM's approval of the successor operator.

Gary A. Stevens April 4, 1989 Page 3

Accordingly, in the absence of amendment of the approved unit agreements to permit transferring operatorship of these units by assignment, such transfer should not be approved nor should it be determined to be "correct as submitted".

The history of the operatorship and ownership of the working interest now claimed by Amoco is complicated. The two units were initially formed by El Paso Natural Gas Company, which transferred operatorship to Tenneco Oil Company effective October 1, 1985. This transfer of operatorship from El Paso to its successor operator, Tenneco Oil Company, was voted upon by a majority of the working interest owners within the two units, as is required by the unit agreements, as evidenced by two letters to you dated September 23, 1985, from Millard F. Carr, Senior Division Attorney with Tenneco Oil Company, attached as Attachments 3 and 4.

Subsequent to this time, Tenneco Oil Company apparently transferred ownership of this working interest to TOC-Rocky Mountains Inc. However, we have been unable to find any transfer of operatorship from Tenneco Oil, Inc. to TOC-Rocky Mountains Inc. Very soon after transfer of the interest from Tenneco Oil Inc. to TOC-Rocky Mountains Inc., the working interest was apparently sold to Amoco. On the basis of acquiring the working interest from TOC-Rocky Mountains Inc., Amoco now seeks to gain operatorship to the two units by way of the unauthorized transfer through assignment. This, despite the fact that TOC-Rocky Mountains Inc. was never the possessor of the operatorship of the units in question.

Meridian requests that you reconsider your preliminary determination and return the plans of development submitted for these two units by Amoco to that Company unapproved. The provisions of the approved unit agreements for each of these two units dictate that the working interest owners in each of these units must select a successor unit operator by vote as outlined in the unit agreements. The attempt to transfer operatorship by way of unauthorized assignment should not be sanctioned.

In the event I can provide any additional information, please do not hesitate to contact me.

Willes Illen

V. Perry Péarce

WPP:dl;35 Attachments

cc: Sally McDonald, Esq. (w/attachments)

Commissioner of Public Lands (w/attachments)

Oil Conservation Division Director (w/attachments)

## 6. Successor unit operator.

Whenever the Unit Operator shall tender his or its resignation as Unit Operator or shall be removed as hereinabove provided, the owners of the working interests in the participating area or areas according to their respective acreage interests in such participating area or areas, or until a participating area shall have been established, the owners of the working interests according to their respective acreage interests in all unitized land, shall by majority vote select a successor Unit Operator; Provided, That, if a majority but less than 75 per cent of the working interests qualified to vote are owned by one party to this agreement, a concurring vote of one or more additional working interest owners shall be required to select a new operator. Such selection shall not become effective until (a) a Unit Operator so selected shall accept in writing the duties and responsibilities of Unit Operator, and (b) the selection shall have been approved by the Director and Commissioner. If no successor Unit Operator is selected and qualified as herein provided, the Director and Commissioner at their election may declare this unit agreement terminated.

## 6. Successor unit operator.

Whenever the Unit Operator shall tender his or its resignation as Unit Operator or shall be removed as hereinabove provided, the owners of the working interests in the participating area or areas according to their respective acreage interests in such participating area or areas, or until a participating area shall have been established, the owners of the working interests according to their respective acreage interests in all unitized land, shall by majority vote select a successor Unit Operator; Provided, That, if a majority but less than 75 per cent of the working interests qualified to vote are owned by one party to this agreement, a concurring vote of one or more additional working interest owners shall be required to select a new operator. Such selection shall not become effective until (a) a Unit Operator so selected shall accept in writing the duties and responsibilities of Unit Operator, and (b) the selection shall have been approved by the Director and Commissioner. If no successor Unit Operator is selected and qualified as herein provided, the Director and Commissioner at their election may declare this unit agreement terminated.

### ATTACHMENT 2

# Tenneco Oil Company

Western Rocky Mountain Division PO Box 3249 Englewood, Colorado 80155 (303) 740-4800

Delivery Address: 6162 South Willow Drive Englewood, Colorado 80111

September 23, 1985



Mr. Gary Stephens Bureau of Land Management Albuquerque District Office P.O. Box 6770 Albuquerque, New Mexico 87197-5770

Re: San Juan 32-9 Unit

San Juan County, New Mexico

(PA-81)

Dear Mr. Stephens:

Enclosed are two executed and three xerox copies of Resignation of Unit Operator and Designation of Successor Unit Operator signed by El Paso Natural Gas Company, Conoco Inc. and Tenneco Oil Company. This combines the resignation of El Paso Natural as Unit Operator and the designation of Tenneco Oil Company as successor Unit Operator.

Also enclosed is a copy of Tenneco's letter of September 17, 1985 to the remaining working interest owners in the San Juan 32-9 Unit, requesting their execution of a counterpart of the enclosed instrument. While we will furnish you copies of additional executed counterparts when received from other working interest owners, the enclosed executed copies fully authorize Tenneco's taking over operations since the Unit Agreement only requires a majority vote. The working interests of El Paso Natural, Conoco and Tenneco aggregate over 73% of the working interests in the entire Unit Area including the completely expanded Mesaverde participating area. The aggregate interests of the three companies also exceed 83% in the Pictured Cliffs participating area.

As discussed in our telephone conversation last week, Tenneco will plan to assume unit operations on October 1, 1985.

Yours very truly,

MFC/ps/2885L Encls.

Millard F. Carr Senior Division Attorney

cc: John Keller - Bureau of Land Management, Farmington, N.M. Working Interest Owners

# RESIGNATION OF UNIT OPERATOR AND DESIGNATION OF SUCCESSOR UNIT OPERATOR

THIS AGREEMENT is entered into by and between El Paso Natural Gas Company, Tenneco Oil Company and the owners of unitized working interests, hereinafter designated individually as "Non-Operator" and collectively as "Non-Operators";

## WITNESSETH, THAT:

WHEREAS, under the provisions of the act of February 25, 1920, 41 Stat, 437, 30 U.S.C. secs 181 et seq., as amended by the act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior or his designated representative has approved the Unit Agreement dated February 10, 1953 for the Development and Operation of the San Juan 32-9 Unit Area, San Juan County, New Mexico.

WHEREAS, El Paso Natural Gas Company is designated as Unit Operator under the terms of said Unit Agreement; and

WHEREAS, El Paso Natural Gas Company herein resigns as such Unit Operator, and the designation of a successor Unit Operator is now required pursuant to the terms of said Unit Agreement; and

WHEREAS, Tenneco Oil Company has been and hereby is designated by Non-Operators as Unit Operator (and by El Paso where El Paso retains any working interest in the unit area) and Tenneco Oil Company desires to assume all the rights, duties, and obligations of Unit Operator under the said Unit Agreement.

NOW, THEREFORE, in consideration of the premises and of the covenants herein contained, Tenneco Oil Company hereby covenants and agrees to fulfill. the duties and assume the obligations of Unit Operator under and pursuant to all of the terms of said Unit Agreement, and Non-Operators covenant and agree that, effective upon approval of this Agreement by the Director of the Bureau of Land Management or his designated representative, Tenneco shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement, as it may have been heretofore amended, being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this instrument.

THIS INSTRUMENT may be executed in any number of counterparts, each of which shall be considered an original for all purposes, or may be ratified or consented to by separate instrument in writing specifically referring hereto.

IN WITNESS WHEREOF, this Agreement is executed effective the 1st day of September, 1985.

TENNECO OIL COMPANY
 P.W. Cayce, Jr. Attorney-in-Fact
BL PASO NATURAL GAS COMPANY
By: James & lement
, Attorney-in-Fact
V ATTACHM

## Tenneco Oil Company

Western Rocky Mountain Division PO Box 3249 Englewood, Colorado 80155 (303) 740-4800

Delivery Address: 6162 South Willow Drive Englewood, Colorado 80111

September 23, 1985

Mr. Gary Stephens
Bureau of Land Management
Albuquerque District Office
P.O. Box 6770
Albuquerque, New Mexico 87197-6770

Re: San Juan 28-7 Unit

Rio Arriba County, New Mexico

(PA-4236)

## Dear Mr. Stephens:

Enclosed are two executed and three xerox copies of Resignation of Unit Operator and Designation of Successor Unit Operator signed by El Paso Natural Gas Company, Conoco Inc. and Tenneco Oil Company. This combines the resignation of El Paso Natural as Unit Operator and the designation of Tenneco Oil Company as successor Unit Operator.

Also enclosed is a copy of Tenneco's letter of September 17, 1985 to the remaining working interest owners in the San Juan 28-7 Unit, requesting their execution of a counterpart of the enclosed instrument. While we will furnish you copies of additional executed counterparts when received from other working interest owners, the enclosed executed copies fully authorize Tenneco's taking over operations since the Unit Agreement only requires a majority vote. The working interests of Bl Paso Natural, Conoco and Tenneco aggregate over 78% of the working interests in the entire Unit Area including the completely expanded Dakota participating area. The aggregate interests of the three companies also exceed 90% in the Mesaverde participating area and 95% in the Pictured Cliffs and Chacra participating areas.

As discussed in our telephone conversation last week, Tenneco will plan to assume unit operations on October 1, 1985.

Yours very truly,

MFC/ps/2883L Encls.

Millard F. Carr Senior Division Attorney

cc: John Keller - Bureau of Land Management, Farmington, N.M.
Working Interest Owners

# RESIGNATION OF UNIT OPERATOR AND DESIGNATION OF SUCCESSOR UNIT OPERATOR

THIS AGREEMENT is entered into by and between El Paso Natural Gas Company, Tenneco Oil Company and the owners of unitized working interests, hereinafter designated individually as "Non-Operator" and collectively as "Non-Operators";

#### WITNESSETH, THAT:

WHEREAS, under the provisions of the act of February 25, 1920, 41 Stat, 437, 30 U.S.C. secs 181 et seq., as amended by the act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior or his designated representative has approved the Unit Agreement dated November 18, 1952 for the Development and Operation of the San Juan 28-7 Unit Area, Rio Arriba County, New Mexico.

WHEREAS, El Paso Natural Gas Company is designated as Unit Operator under the terms of said Unit Agreement; and

WHEREAS, El Paso Natural Gas Company herein resigns as such Unit Operator, and the designation of a successor Unit Operator is now required pursuant to the terms of said Unit Agreement; and

WHEREAS, Tenneco Oil Company has been and hereby is designated by Non-Operators as Unit Operator (and by El Paso where El Paso retains any working interest in the unit area) and Tenneco Oil Company desires to assume all the rights, duties, and obligations of Unit Operator under the said Unit Agreement.

NOW, THEREFORE, in consideration of the premises and of the covenants herein contained, Tenneco Oil Company hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to all of the terms of said Unit Agreement, and Non-Operators covenant and agree that, effective upon approval of this Agreement by the Director of the Bureau of Land Management or his designated representative, Tenneco shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement, as it may have been heretofore amended, being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this instrument.

THIS INSTRUMENT may be executed in any number of counterparts, each of which shall be considered an original for all purposes, or may be ratified or consented to by separate instrument in writing specifically referring hereto.

IN WITNESS WHEREOF, this Agreement is executed effective the 1st day of September, 1985.

By:

P.W. Cayce, Jr.

Attorney-in-Fact

BL PASO NATURAL GAS COMPANY

By:

Attorney-in-Pact

ATTACHMENT 4

Page 2 of 2



# United States Department of the Interior



BUREAU OF LAND MANAGEMENT ALBUQUERQUE DISTRICT OFFICE 435 MONTANO N.E. ALBUQUERQUE, NEW MEXICO 87107

> SJ 32-9 (UA) 3180 (015)

APR 4 1989

Amoco Production Company Attn: Michael E. Cuba P.O. Box 800 Denver, Colorado 80201

### Gentlemen:

Your letter of March 13, 1989, transmitted four copies of a change in Unit Operator by which Amoco Production Company replaces TOC-Rocky Mountains Inc. as Unit Operator of the San Juan 32-9 Unit, San Juan County, New Mexico, effective March 13, 1989.

The Change in Unit Operator by Assignment from TOC-Rocky Mountains Inc. to Amoco Production Company is approved on this date.

If you have any questions, contact Robert Kent at the above address or telephone (505) 761-4503.

Sincerely,

Assistant District Manager

sid Vogelpoll

Minerals

Enclosure



David L. Wacker
Division Manager
Production Department
Hobbs Division
North American Production

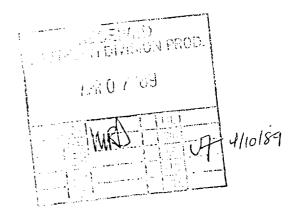
Conoco Inc. P.O. Box 460 726 East Michigan Hobbs, NM 88240 (505) 397-5800

March 28, 1989

Amoco Production Company P. O. Box 800 1670 Broadway Denver, Colorado 80201

Attention Mr. Michael R. Ivy

Gentlemen:



Please allow this letter to serve as Conoco's complete support for Amoco Production Company as "Operator" of all Delhi-Taylor properties previously operated by Tenneco. We believe Amoco will serve these Units well as "Operator" and will work with Conoco and other non-operators to develop a strong, binding and cohesive relationship.

Conoco continues to recognize Amoco Production Company, as successor to Tenneco Oil Company, as having the legal right to operate these properties and assume all of Tenneco Oil Company's rights and obligations under that certain operating agreement between Tenneco Oil Company and Continental Oil Company, dated September 1, 1964.

Conoco looks forward to a strong, lasting relationship with Amoco. We believe Amoco recognizes the importance Conoco places on these assets and will work to operate and develop the San Juan Basin in the most prudent manner possible.

Yours very truly,

David L. Wacker Division Manager

WWB:dw

cc:

Arco Oil & Gas Company Meridian Oil Company Mesa Operating Ltd. Partnership Basin Minerals

## MERIDIAN OIL

March 15, 1989

#498

WORKING INTEREST OWNERS ON ATTACHED LIST

RE: San Juan 32-9 Unit San Juan County. New Mexico

### Gentlemen:

Meridian Oil Inc. recently received a copy of the 1989 Plan of Development filed by Amoco Production Company as Unit Operator of the captioned federal unit. Meridian Oil Inc., on behalf of Southland Royalty Company and El Paso Production Company, as major working interest owners in this federal unit, does not recognize Amoco as Unit Operator and hereby objects to Amoco's attempt to automatically assume operations in the subject unit. Amoco has indirectly purchased the oil and gas leasehold interests of Tenneco Oil Co., the current Unit Operator. A successor Unit Operator must now be selected by the Unit Working Interest Owners. In this regard, Meridian asks, by copy of this letter to the regulatory agencies, that approval of the 1989 Plan of Development be placed on hold pending a ballot of the Unit Working Interest Owners for election of a successor Unit Operator.

By copy of this letter, Meridian Oil Inc. is notifying all other interested parties of its desire to operate the referenced unit. As a major working interest owner in the unit and a major operator in the San Juan Basin, Meridian feels that it is best suited to provide expert, cost-effective and diligent management of the unit.

Meridian is proven as a successful and prudent operator of more properties than any other operator in the San Juan Basin. Meridian's fully staffed office, including engineers, geologists, landmen and field operating personnel is located in Farmington, New Mexico. This office allows Meridian to operate San Juan Basin properties efficiently and economically. Meridian has operations completely surrounding the subject unit. We could thus assume operations of the unit with little change in our current procedures and staffing.

Our marketing ability in the San Juan Basin is unsurpassed. We are the most aggressive marketer of natural gas in the Basin and plan to maintain that position. We can offer our marketing expertise and service to any and all owners in the unit if we are elected Operator.

San Juan 32-9 Working Interst Owners

The election of a successor Unit Operator should be held immediately so as to allow as little disruption as possible to regular unit activities. Meridian asks that Amoco, acting only as an interim operator, proceed to ballot all of the Unit Working Interest Owners for election of a successor Unit Operator. The results of this election should be tallied and reported to all owners and governmental agencies concerned.

Very truly yours,

Kent Beers Area Land Manager

KB:RJH:ch

cc: Bureau of Land Management Commissioner of Public Lands Oil Conservation Division

Document 253+

### SAN JUAN 32-9 UNIT

Amoco Production Company

Arco Oil & Gas Company

Suzanne Laforce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr. and Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Chevron, U.S.A., Inc.

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National
Bank & Trust Company of Chicago
Trustee for Trust No. 23949

Conoco, Inc. - Election to Midland

Crown Central Petroleum

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

El Paso Natural Gas Company

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Fina Oil & Chemical Company

Mrs. Minnie A. Fitting

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude Lambe

Frederick P.G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Lear Petroleum Exploration, Inc.

Robert S. McDonald, Agnus
McDonald & the Northern
Trust Company, Trustees under
the Will of Margaret S.
McDonald Trust

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil & Gas Prop.

Mesa Petroleum Company

Northwest Pipeline Corp.

FMP Operating Company

Phillips Petroleum Company

Ms. Nora R. Ranney

Mr. Edward L. Rayerson, Jr.

Mr. James M. Raymond, Ind. & as Executor of Estate of Mabelle McElvain Miller Nestler, & Trustee for Corrine Miller Gay & Maydell Miller Mast Trusts

Ms. Catherine R. Ruml

Shaw, Isham and Company
Trust #1 for Benefit of John I.
Shaw and Rodger D. Shaw

## SAN JUAN 32-9 UNIT

Mr. Ralph U. Fitting, III and
 J. Robert Jones, Anc. Executor
 of the Estate of Ralph U. Fitting Jr.

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortland T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Estate of Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. J. Robert Jones

Elizabeth B. Simpson Trust

William B. Simpson Revocable Tr.

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart Trust

Mr. William P. Sutter

Tenneco Oil Company

Texaco Producing Inc.

Kay B. Towle

Estate of Frederick F. Webster

Katherine Isham White

Miss Mary S. Zick

# State of New Mexico





# Commissioner of Public Lands

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1065

March 27, 1989

Amoco Production Company Attn: J. A. Beckstrom P.O. Box 800 Denver, Colorado 80201

Re: 1989 Plan of Development

San Juan 32-9 Unit

San Juan County, New Mexico

### Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development.

Our approval is subject to like approval by all other appropriate agencies.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES

COMMISSIONER OF PUBLIC LANDS

FLOYD O. PRANDO, Director

Oil and Gas Division

(505) 827-5744

cc: OCD

# State of New Mexico





# Commissioner of Public Lands

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1065

March 27, 1989

Amoco Production Company Attn: J. A. Beckstrom P.O. Box 800 Denver, Colorado 80201

Re: 1989 Plan of Development

San Juan 32-9 Unit

San Juan County, New Mexico

#### Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development.

Our approval is subject to like approval by all other appropriate agencies.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES

COMMISSIONER OF PUBLIC LANDS

BY: - 13 344 1

FLOYD O. PRANDO, Director

Oil and Gas Division

(505) 827-5744

cc: OCD



M. R. Ivy Division Operations Manager

## **Amoco Production Company**

Southern Division 1670 Broadway P.O. Box 800 Denver, Colorado 80201 303-830-4040

February 24, 1989

Bureau of Land Management Albuquerque District Office 435 Montano N.E. Albuquerque, NM 87107

Oil Conservation Division State of New Mexico 310 Old Santa Fe Trail, Room 206 Santa Fe, NM 87503

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, NM 87504

File: LF-025-416

San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1989 Plan of Development

Amoco Production Company, as Unit Operator, submits the attached 1989 Plan of Development for the San Juan 32-9 Unit. The plan proposes that no new wells be drilled in the unit during 1989. All affected working interest owners have been contacted and the approval provisions of the Unit Operating Agreement have been followed.

Please signify your approval in the space provided on the attached sheet and return an approved copy to Amoco Production Company, P. O. Box 800, Denver, CO, 80201, Attention: J. A. Beckstrom.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Sincerely,

JAB/pe:6243R

Attachment

1989 Plan of Development San Juan 32-9 Unit February 24, 1989 Page 2

APPROVED:		DATED:
	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED:	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division	DATED:
APPROVED:	(2011)	DATED: 3-7-89

The foregoing approvals are for the 1989 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

#### ADDRESS LIST San Juan 32-9 Unit - Any and All Formations Revised January 31, 1989

Bolack Minerals Route 3, Box 47 3901 Bloomfield Highway Farmington, NM 87401

Grace M. Brown 2400 Savannah Avenue El Paso, TX 79930

Chevron U.S.A. Inc. Denver Area Production Supt. P. O. Box 599 Denver, CO 80201

Dave Wacker Conoco, Inc. P. O. Box 460 Hobbs, NM 88240

Charles Koch, Executor of The Estate of Claude Lamb Box 2256 Wichita, KS 67201

Fina Oil & Chemical Company P. O. Box 2990 Midland, TX 79702

Koch Exploration Company 3605 N. Dustin Street Farmington, NM 87401 Meridian Oil, Inc. P. O. Box 4289 Farmington, NM 87499-4289

Mesa Petroleum Onshore Operations Division P. O. Box 2009 Amarillo, TX 79189

Energy Development Corporation 1200 Smith, Suite 3040 Houston, TX 77002

Paul Thompson Northwest Pipeline Corporation P. O. Box 90 Farmington, NM 87401

James M. Raymond, Individually and as Trustee for M. Miller, C. Miller & M. Mast P. O. Box 1445 Kerrville, TX 78028

Texaco, Inc. Land Department P. O. Box 1270 Midland, TX 79702

T. H. McElvain, Jr.
T. H. McElvain Oil & Gas Properties
P. O. Box 2149
Santa Fe, NM 87501

JAB/pe:6243R

# San Juan 32-9 Unit #14-08-001-469 San Juan County, New Mexico 1989 Plan of Development March 1, 1989

#### 1988 Operations Summary

During 1988 no new wells were drilled in the unit. The 1988 Drilling Program, filed in a letter dated April 20, 1988, provided for the drilling of no wells.

The attached Figure 1 is a base map for the Mesaverde and Pictured Cliffs participating areas. The geologic interpretation for these two formations has not changed since the last map submitted.

#### Number of Completions

	<u>Participating</u>		Non-Participating			
	<u>Active</u>	<u>Inactive</u>	<u>Active</u>	<u>Inactive</u>	<u>P &amp; A</u>	
Mesaverde	102	0	3	1	3	
Pictured Cliffs	16	1	0	0	1	
Dakota	0	0	0	0	1	
Fruitland	0	0	0	0	2	
Nacimiento	0	<u>0</u>	<u>0</u>	1	<u>0</u>	
Total	118	1	3	2	7	

#### Well Status

As of this date, the total number of wells in the San Juan 32-7 Unit is as follows:

	<u>Participating</u>	Non-Participating
Mesaverde (MV)	102	4
Pictured Cliffs (PC) PC/Nacimiento Dual	1	0
Plugged and Abandoned	4	<u>3</u>
	124	7

#### Performance Curves

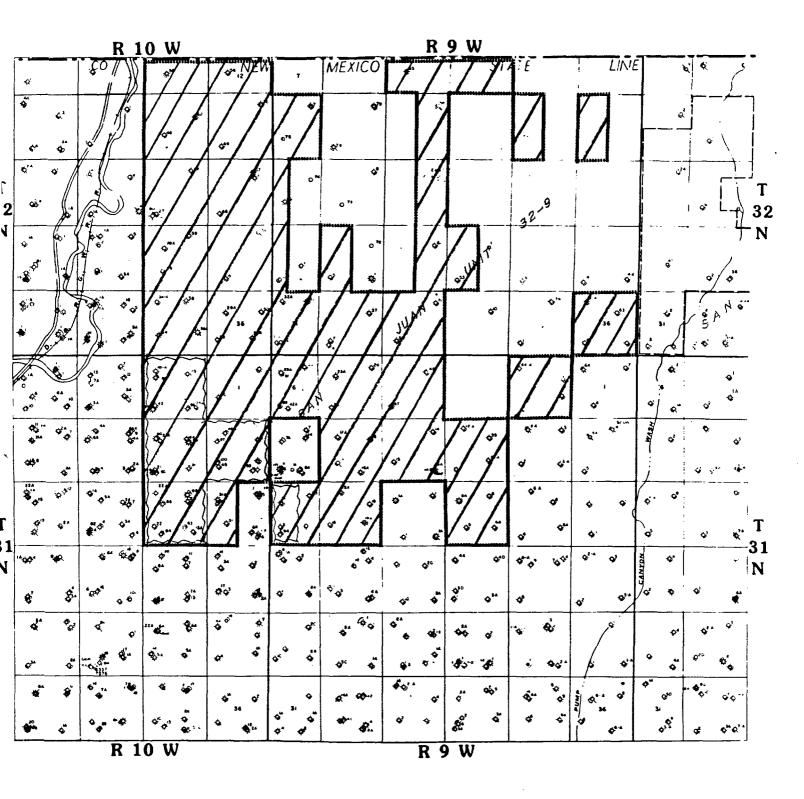
Performance curves for the total unit and each formation are presented by Figures 2-4. These summary plots do not include non-participating wells within the unit boundary.

#### 1989 Proposed Drilling Program

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, Amoco Production Company, as successor Unit Operator, submits a Drilling Program providing for the drilling of no wells during the calendar year 1989.

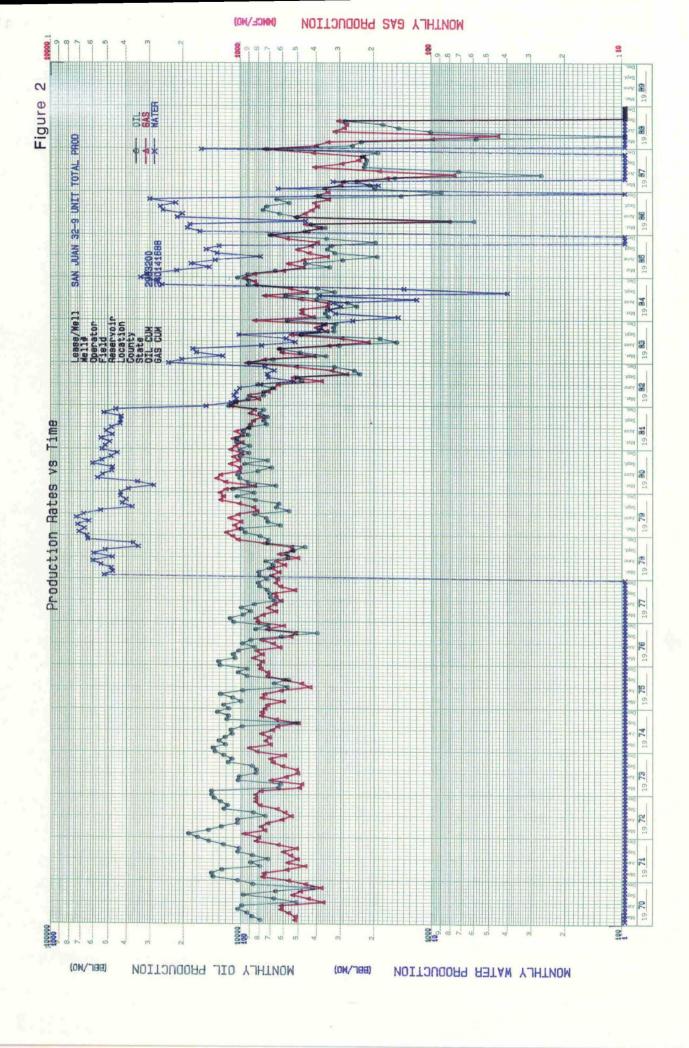
JAB/pe:2/20/89:6243R

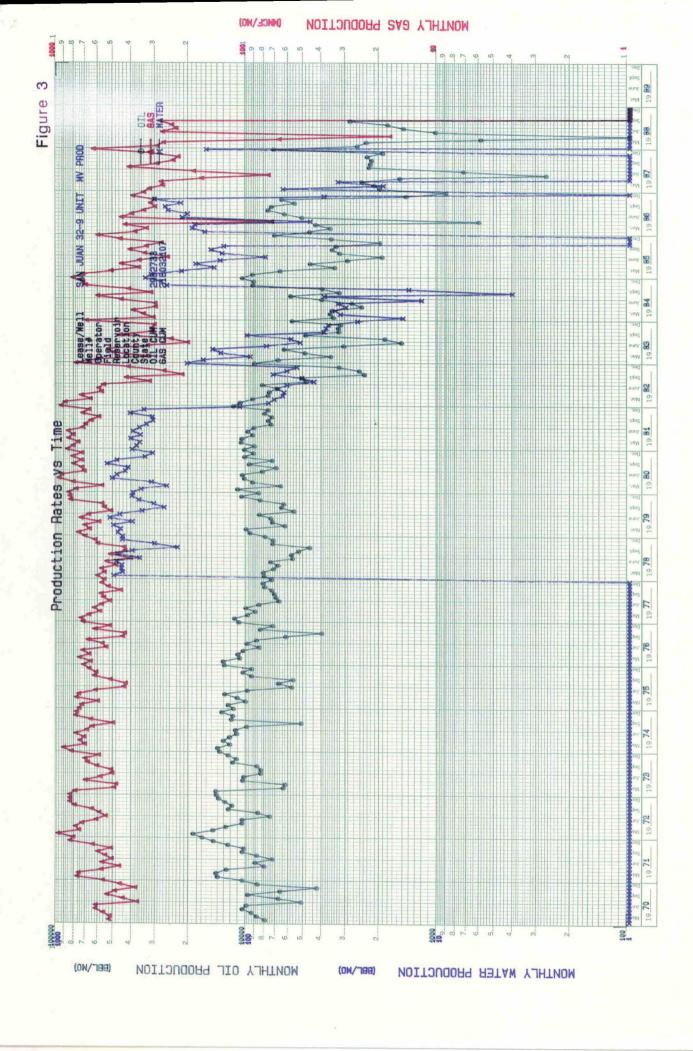
# SAN JUAN 32-9 UNIT

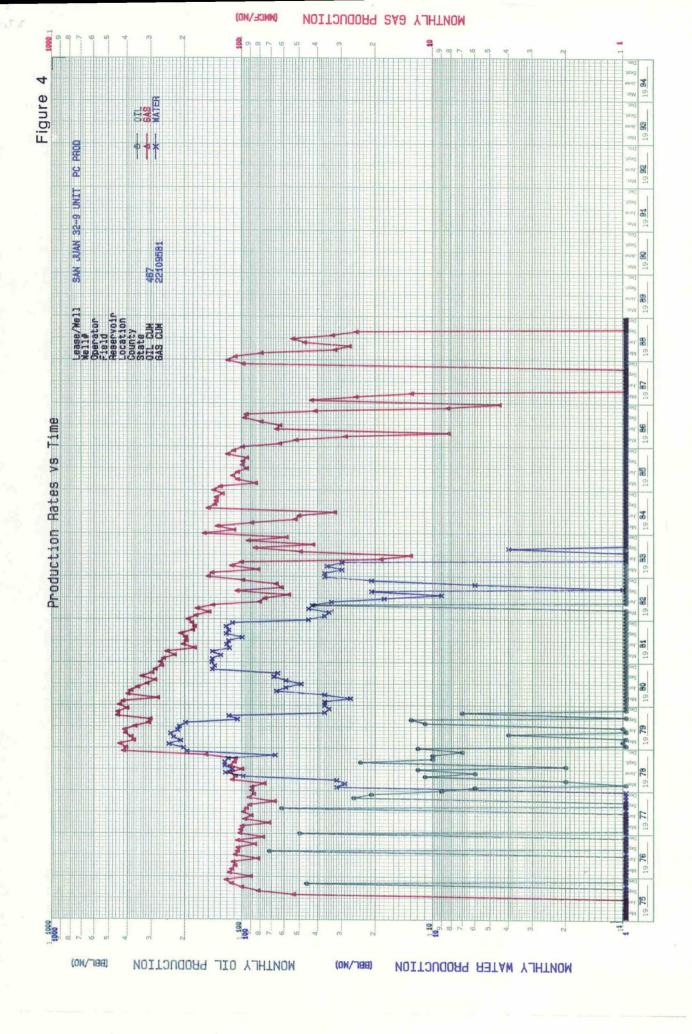


MESAVERDE PARTICIPATING AREA

PICTURED CLIFFS PARTICIPATING AREA







# **Tenneco Oil Company**

A Tenneco Company

Rocky Mountain Division P.O Box 3249 Englewood, Colorado 80155 (303) 740-4800 TENNECO

Delivery Address 6162 South Willow Drive Englewood, Colorado 80111

April 20, 1988

498

Bureau of Land Management South Central Region P.O. Box 6770 Albuquerque, New Mexico 87197

Oil Conservation Division State of New Mexico P.O. box 2008 Santa Fe, New Mexico 87501

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, New Mexico 87501

> RE: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1988 Plan of Development

#### Gentlemen:

By letter dated March 27, 1987, Tenneco Oil Company, as Unit Operator for the San Juan 32-9 Unit #14-08-001-569, filed a Drilling Program for the calendar year 1987. This program provided for the drilling of no wells.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs, Commercial	16
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	4
Mesaverde, Plugged and Abandoned	3
Mesaverde/Dakota Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Plugged and Abandoned	2
	130

1988 Plan of Development San Juan 32-9 Unit April 20, 1988 Page 2

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, Tenneco Oil Company, as successor Unit Operator, submits a Drilling Program providing for the drilling of no wells during the calendar year 1988.

All affected working interest owners have been contacted and approval provisions of the Unit Operating Agreement followed. We believe that all current obligations have been satisfied and that the 1988 Drilling Program reflects the desires of the unit owners.

Tenneco Oil Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to Tenneco Oil Company to the attention of Willis Douglass.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Sincerely,

TENNECO OIL COMPANY

Louis D. Jones

Division Production Manager

Losen Done

LDJ/WD/tf Enclosures

2282H

1988 Plan of Development San Juan 32-9 Unit April 20, 1988 Page 3

APPROVED:		DATED:
	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED:		DATED:
	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division	
APPROVED:	To Elohum	DATED: 5-3-88
	Oil Conservation Division (Subject to like approval by the Bureau of Land Management and the Commissioner of Public Lands)	

The foregoing approvals are for the 1988 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

2282H

# ADDRESS LIST 32-9 UNIT - ANY AND ALL FORMATIONS Revised April 8, 1988

Amoco Production Company
P.O. Box 800
Denver, CO 80202
ATTN: Division Production Manager

Bolack Minerals Route 3, Box 47, 3901 Bloomfield Highway Farmington, NM 87401

Mrs. Grace M. Brown 2400 Savannah Avenue El Paso, TX 79930

Chevron U.S.A. Inc. P.O. Box 599 Denver, CO 80201 ATTN: Denver Area Production Supt.

Conoco, Inc. P. O. Box 460 Hobbs, NM 88240

Charles Koch, Executor of The Estate of Claude Lamb Box 2256 Wichita, KS 67201

Fina Oil & Chemical Company P.O. Box 2990 Midland, TX 79702

Koch Exploration Company 3605 N. Dustin Street Farmington, NM 87401

Meridian Oil, Inc. P.O. Box 4289 Farmington, NM 87499-4289 32-9 Unit - All formations Revised April 8, 1988 Page Two

Mesa Petroleum P.O. Box 2009 Amarillo, TX 79189 ATTN: Onshore Operations Division

Minatome Corp. Suite 400, One Allen Center Houston, TX 77002

Northwest Pipeline Corporation P.O. Box 90 Farmington, NM 87401 ATTN: Paul Thompson

James M. Raymond, Individually and as Trustee for M. Miller, C. Miller & M. Mast P.O. Box 1445
Kerrville, TX 78028

Texaco, Inc. P.O. Box 3109 Midland, TX 79702 ATTN: Melvin Glerup

T. H. McElvain Oil & Gas Properties P.O. Box 2149
Santa Fe, NM 87501
ATTN: Mr. T. H. McElvain, Jr.

2241H



MAY 2 7 1988

Sac Juan 32-9 (POP) 3180 (015)

Tenneco Oll Company ATTN: Louis D. Jones P.O. Box 3249 Englewood, CO 80155

#### Gentlemen:

One approved copy of your 1988 Plan of Development for the San Juan 32-9 Unit area, San Juan County, New Mexico is enclosed. Such plan, proposing no drilling in 1988 was approved this date subject to like approval by the appropriate officials of the State of New Mexico.

Starting with the 1989 Plan of Development, please provide the following information in your annual Plan of Development.

- 1. A summary of operations for the past year which should include up-to-date maps showing the latest geologic interpretations, all wells and participating area boundaries. Should there be no changes from one year to another, reference may be made to the most recent map submitted.
- 2. A list showing the status of all wells.
- 3. Performance curves covering the productive life of each horizon under a participating area, including injectivity curves.
- 4. Your plans for development within the unit area for the next year.
- 5. Pertinent data as to the effectiveness of the enhanced recovery project (if applicable). This information should include data on current and cumulative water injection rates, current and cumulative water, gas, and oil production and current water-oil ratios. A short discussion as to the general progress of the flood and any significant changes in any phase of the project should also be included.

All plans of development are to be filed in triplicate.

The possibility might exist of drainage by wells outside of the unit boundary. You will be contacted at a later date about this possibility.

If you have any questions, please contact Shirley Bryant at the above address or telephone (505) 761-4503.

Sincerely,

(Orig. Signed) - Sid Vogelpohl

Assistant District Hanager Hineral Resources

Enclosure

cc:
1M-019
NHOCD, Santa Fe w/o encl.
Comm. of Pub. Lands, Santa Fe w/o encl.
015:SBryant:ja:5/18/88:0059M

# State of New Mexico





# Commissioner of Public Lands

SLO REF NO OG-780

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

May 9, 1988

Tenneco Oil Company Attn: Mr. Louis D. Jones P. O. Box 3249 Englewood, Colorado 80111

> Re: 1988 Plan of Development San Juan 32-9 Unit San Juan County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved your 1988 Plan of Development for the above captioned unit area.

Our approval is subject to like approval by all other appropraiate agencies.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

٠.

W. R. HUMPHRIES COMMISSIONER OF PUBLIC LANDS

BY:

FLOYD O. PRANDO, Director Oil and Gas Division (505) 827-5744

WRH/FOP/pm encls.cc: OCD

BLM







SLO REF. NO. 0G-371

# Commissioner of Public Lands

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

September 2: 1987

Tenneco Oil Co. Attention: Harry Hufft P. O. Box 3249 Englewood, Colorado 80155

Re: San Juan 32-9 Unit

1987 Plan of Development

#### Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all appropriate agencies.

If we may be of further help, please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES COMMISSIONER OF PUBLIC LANDS

BY: Dayle Vacualy
FLOYD O. PRANDO, Director
Oil & Gas Division
(505) 827-5744

WRH/FOP/ams
enclosure
cc:Bureau of Land Management
Oil Conservation Division



# United States Department of the Interior

# BUREAU OF LAND MANAGEMENT ALBUQUERQUE DISTRICT OFFICE

435 Montano N.E. Albuquerque, New Mexico 87107



San Juan 32-9 (POD) 3180 (015)

JUN 2 5 1987

Tenneco Oil Company Attn: Harry Hufft P.O. Box 3249 Englewood, CO 80155

Gentlemen:

One approved copy of your 1987 Plan of Development for the San Juan 32-9 Unit area, San Juan County, New Mexico is enclosed. Such plan, proposing the drilling of no wells during the calendar year 1987 was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

The possibility might exist of drainage by wells outside of the unit boundary. You will be contacted at a later date about this possibility.

If you have any questions please contact Gail Keller at the above address or telephone (505) 761-4503.

Sincerely,

(Orig. Signed) - Sid Mossippid

Assistant District Manager Mineral Resources

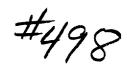
Enclosure

cc:

NMOCD, Santa Fe Comm. of Public Lands, Santa Fe

### ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION





April 13, 1987

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FEINEW MEXICO 87501 (505) 827-5800

Tenneco Oil Company
P. O. Box 3249
Englewood, Colorado 80155

Attention: Harry Hufft

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico 1987 Plan of Development

#### Gentlemen:

The above-referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

ROY E. JOHNSON, Senior Petroleum Geologist

REJ/dr

cc: Commissioner of Public Lands - Santa Fe Bureau of Land Management - Albuquerque

# **Tenneco Oil Company**

A Tenneco Company

Rocky Mountain Division P.O. Box 3249 Englewood, Colorado 80155 (303) 740-4800 My



Delivery Address: 6162 South Willow Drive Englewood, Colorado 80111

March 27, 1987

Bureau of Land Management South Central Region P.O. Box 6770 Albuquerque, New Mexico 87197

Oil Conservation Division 
State of New Mexico
P.O. Box 2008
Santa Fe, New Mexico 87501

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, New Mexico 87501

> RE: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1987 Plan of Development

#### Gentlemen:

By letter dated April 7, 1986, Tenneco Oil Company, as Unit Operator for the San Juan 32-9 Unit #14-08-001-569, filed a Drilling Program for the calendar year 1986. This program provided for the drilling of no wells.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs, Commercial	16
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	4
Mesaverde, Plugged and Abandoned	3
Mesaverde/Dakota Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Plugged and Abandoned	2
	130

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, Tenneco Oil Company, as successor Unit Operator, submits a Drilling Program providing for the drilling of no wells during the calendar year 1987.

All affected working interest owners have been contacted and approval provisions of the Unit Operating Agreement followed. We believe that all current obligations have been satisfied and that the 1987 Drilling Program reflects the desires of the unit owners.

Tenneco Oil Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to Tenneco Oil Company to the attention of Kevin G. Heringer.

Copies of this letter are being sent to the working interest owners shown the attached sheet.

Sincerely

TENNECO OIL COMBANY

Harry/Hufft

Division Production Manager

HH/KGH/lh Enc.

APPROVED:	DATED:
Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED:	DATED:
Commissioner of Public Lands	
(Subject to like approval by the Bureau of Land Management and	
the Oil Conservation Division)	
() a 1 1	•
ADDDOVED. Ke Sharan	DATED: 4-6-87
Oil Conservation Division	DATED:
(Subject to like approval by the	
Bureau of Land Management and	
the Commissioner of Dublic Lands)	

The foregoing approvals are for the 1987 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, Rio Arriba County, New Mexico.

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company

Bolack Minerals

Mrs. Grace M. Brown

Chevron USA, Inc.

Conoco, Inc.

Meridian Oil, Inc.

Charles Koch, Executor of the Estate of Claude Lamb

Fina Oil and Chemical Company

Koch Exploration Company

Mesa Petroleum Company

Northwest Pipeline Corporation

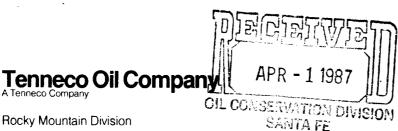
James M. Raymond, Individually and as Trustee for M. Miller, C. Miller & M. Mast

Southland Royalty Company % Meridian Oil, Inc.

Texaco Producing, Inc.

T. H. McElvain Oil and Gas Properties

Minatome Corporation



TENNECO

Rocky Mountain Division P.O. Box 3249 Englewood, Colorado 80155 (303) 740-4800

Delivery Address: 6162 South Willow Drive Englewood, Colorado 80111

March 27, 1987

Bureau of Land Management South Central Region P.O. Box 6770 Albuquerque, New Mexico 87197

Oil Conservation Division ✓ State of New Mexico P.O. Box 2008 Santa Fe. New Mexico 87501

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, New Mexico 87501

> RE: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1987 Plan of Development

#### Gentlemen:

By letter dated April 7, 1986, Tenneco Oil Company, as Unit Operator for the San Juan 32-9 Unit #14-08-001-569, filed a Drilling Program for the calendar year 1986. This program provided for the drilling of no wells.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs, Commercial	16
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	4
Mesaverde, Plugged and Abandoned	3
Mesaverde/Dakota Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Plugged and Abandoned	2
	130

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, Tenneco Oil Company, as successor Unit Operator, submits a Drilling Program providing for the drilling of no wells during the calendar year 1987.

All affected working interest owners have been contacted and approval provisions of the Unit Operating Agreement followed. We believe that all current obligations have been satisfied and that the 1987 Drilling Program reflects the desires of the unit owners.

Tenneco Oil Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to Tenneco Oil Company to the attention of Kevin G. Heringer.

Copies of this letter are being sent to the working interest owners shown the attached sheet.

Sincerely

TENNECO OIL COMBANY

Harry/Hufft

Division Production Manager

HH/KGH/lh Enc.

APPROVED:	DATED:
Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED:	DATED:
Commissioner of Public Lands (Subject to like approval by the	
Bureau of Land Management and	
the Oil Conservation Division)	
	DATED: 4-6-8>
APPROVED: 19 Comme	DATED: 700 8
Oil Conservation Division	
(Subject to like approval by the Bureau of Land Management and	
the Commissioner of Public Lands)	

The foregoing approvals are for the 1987 Drilling Program for the San Juan 32 $\pm$ 9 Unit, #14-08-001-569, Rio Arriba County, New Mexico.

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company

**Bolack Minerals** 

Mrs. Grace M. Brown

Chevron USA, Inc.

Conoco, Inc.

Meridian Oil, Inc.

Charles Koch, Executor of the Estate of Claude Lamb

Fina Oil and Chemical Company

Koch Exploration Company

Mesa Petroleum Company

Northwest Pipeline Corporation

James M. Raymond, Individually and as Trustee for M. Miller, C. Miller & M. Mast

Southland Royalty Company % Meridian Dil, Inc.

Texaco Producing, Inc.

T. H. McElvain Oil and Gas Properties

Minatome Corporation

### Tenneco Oil Company

Western Rocky Mountain Division

PO Box 3249 Englewood, Colorado 80155 (303) 740-4800 Delivery Address: 6162 South Willow Drive glewood, Colorado 80111

May 16, 1986

OIL CONSERVATION DIVISION

Bureau of Land Management A South Central Region P.O. Box 6770 Albuquerque, NM 87197

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87504

Oil Conservation Division 🗸 State of New Mexico P.O. Box 2008 Santa Fe. NM 87501

RE: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico 1986 Plan of Development

#### Gentlemen:

The 1986 Plan of Development for the San Juan 32-9 Unit was approved by the regulatory bodies on the dates indicated:

Bureau of Land Management 5/7/86 Commissioner of Public Lands 4/17/86 Oil Conservation Division 4/11/86

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Sincerely,

TENNECO OIL COMPANY

Kevin G. Heringer

Landman

KGH/1h

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company

Bolack Minerals

Mrs. Grace M. Brown

Chevron USA, Inc.

Conoco, Inc.

Meridian Oil, Inc.

Charles Koch, Executor of the Estate of Claude Lamb

Fina Oil and Chemical Company

Koch Exploration Company

Mesa Petroleum Company

Northwest Pipeline Corporation

James M. Raymond, Individually and as Trustee for M. Miller, C. Miller & M. Mast

Southland Royalty Company % Meridian Oil, Inc.

Texaco Producing, Inc.

T. H. McElvain Oil and Gas Properties

Lear Petroleum Exploration, Inc.

Abuquerque, NM 87197-6776

MAY 0 7 1986

San Juan 32-9 Unit POD 3180 (015)



#498

Tenneco Oil Company ATTN: Harry Hufft P.O. Box 3249 Englewood, CO 80155

#### Gentlemen:

One approved copy of your 1986 Plan of Development for the San Juan 32-9 Unit area, San Juan County, New Mexico is enclosed. Such plan, proposing the drilling of no wells during the calendar year 1986, is approved this date subject to like approval by the appropriate officials of the State of New Mexico.

The possibility of drainage by wells outside of the unit boundary may exist. You will be contacted at a later date about this possibility.

If you have any questions, please contact Gail Keller at the above address or telephone (505) 766-2841.

Sincerely,

(Orig. Signed) - GARY A. STECHENS

For District Manager

Enclosure(s)

cc:
Micrographics 943B-1
Fluids Section FRAH
NMOCD, Santa Fe
Comm. of Pub. Lands, Santa Fe
O&G Chron

015:GKeller:klm:5-5-86:1840M

# State of New Mexico





# Commissioner of Public Lands

April 17, 1986

P.O. BOX 1148
SANTA FE. NEW MEXICO 87504-1148
Express Mail Delivery Use:
310 Old Santa Fe Trail
Santa Fe, New Mexico 87574

Tenness Oil Company Astri: Mr. Harry Hufft

m. O. Box 3249

Englevood) Colomado 80156

Re: San Juan 32-9 Unit

Ban Juan County, New Maxico 1986 Plan of Development

Gant emen:

The Commissioner of Public Lands has this date approved your 1985 Figh of Development for the San Juan 32-9 Unit Asea, San Juan County, New Mexico. Such plan calls for the drilling of hower is.

Our approval is subject to ,ike approval by the New Maxico Oi. Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

Very truly yours,

JIM BACA

COMMISSIONER OF FUBLIC LANDS

BY: 1 Couple V2 com

FLOYD O. PRANDO, Director

Oil and Gas Division

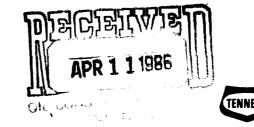
(505) 827-5744

J8/F0P/pm

encis.

co: OCD-Santa Fe, New Mex.co

BLM-Albuquerque, New Mexico Attn: Fluids Branch



### **Tenneco Oil Company**

A Tenneco Company

Western Rocky Mountain Division

P O. Box 3249 Englewood, Colorado 80155 (303) 740-4800 Delivery Address: 6162 South Willow Drive Englewood, Colorado 80111 #498

April 7, 1986

Bureau of Land Management South Central Region P. O. Box 6770 Albuquerque, NM 87197

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87501

Oil Conservation Division State of New Mexico P.O. Box 2008 Santa Fe, NM 87501

> RE: San Juan 32-9 Unit #14-08-001-569 San Juan County, NM 1986 Plan of Development

By letter dated February 22, 1985, El Paso Natural Gas Company, as Unit Operator for the San Juan 32-9 Unit #14-08-001-569, filed a Drilling Program for the calendar year 1985. This program provided for the drilling of no wells.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs, Commercial	16
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	4
Mesaverde, Plugged & Abandoned	3
Mesaverde/Dakota Dual	
(Plugged back to Mesaverde)	1
(Plugged & Abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Plugged & Abandoned	2
	130

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, Tenneco Oil Company, as successor Unit Operator, submits a Drilling Program providing for the drilling of no wells during the calendar year 1986.

All affected working interest owners have been contacted and approval provisions of the Unit Operating Agreement followed. We believe that all current obligations have been satisfied and that the 1986 Drilling Program reflects the desires of the unit owners.

Tenneco Oil Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this drilling program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to Tenneco Oil Company to the attention of Kevin G. Heringer.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Sincerely,

TENNECO OIL COMPANY

Harry∕Hufft

Division Production Manager

HH/KGH/1h Enc.

APPROVED	•	DATED:
	Bureau of Land Management (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED	:	DATED:
	Commissioner of Public Lands (Subject to like approval by the Bureau of Land Management and the Oil Conservation Division)	;
APPROVED		DATED: 4-11-86
	Oil Conservation Division (Subject to like approval by the Bureau of Land Management and	

The foregoing approvals are for the 1986 Drilling Program for the San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico.

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

Amoco Production Company

**Bolack Minerals** 

Mrs. Grace M. Brown

Chevron USA, Inc.

Conoco, Inc.

Meridian Oil, Inc.

Charles Koch, Executor of the Estate of Claude Lamb

Fina Oil and Chemical Company

Koch Exploration Company

Mesa Petroleum Company

Northwest Pipeline Corporation

James M. Raymond, Individually and as Trustee for M. Miller, C. Miller & M. Mast

Southland Royalty Company % Meridian Oil, Inc.

Texaco Producing, Inc.

T. H. McElvain Oil and Gas Properties

Lear Petroleum Exploration, Inc.

# State of New Mexico



JIM BACA COMMISSIONER



# Commissioner of Public Lands

March 5, 1986

P.O. BOX 1148
SANTA FE, NEW-MEXICO 87504-1148
Express Mail Delivery Uses
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Tenneco Oil Company P. O. Box 3249 Englewood, Colorado 80155

Re:

Extension to 1986 Plan of Development San Juan 32-9 Unit San Juan County, New Mexico

ATTENTION: Mr. Harry Hufft

Gentlemen:

This office is in receipt of your letter of February 28, 1986, wherein as Unit Operator of the San Juan 32-9 Unit, area, you have advised us that you have been unable to obtain agreement from sufficient working interest owners to file a 1986 unit development program by March 1, 1986 and have asked for a 60-day extension, or until May 1, 1986, in which to determine the annual Plan of Development.

The Commissioner of Public Lands has this date granted you an extension until May 1, 1986, in which to submit your 1986 Plan of Development. Our approval is subject to like approval by the New Mexico Oil Conservation Divsion and the Bureau of Land Management.

Very truly yours,

JIM BACA COMMISSIONER OF PUBLIC LANDS

BY: 7 Rophe Thank

FLOYD O. PRANDO, Director Oil and Gas Division AC505/827-5744

JB/FOP/pm encls.

cc: OCD-Santa Fe, New Mexico

BLM-Albuquerque, New Mexico Attn: Fluids Branch

BLM-Roswell, New Mexico Attn: Mr. Armando Lopez

# Tenneco Oil Company

Wee

Western Rocky Mountain Division P.O. Box 3249 Englewood, Colorado 80155 (303) 740-4800

Delivery Address: 6162 South Willow Drive Englewood, Colorado 80111

February 28, 1986

Bureau of Land Management South Central Region P.O. Box 6770 Albuquerque, New Mexico 87197

Re: 1986 Plan of Development

San Juan 32-9 Unit

San Juan County, New Mexico

#### Gentlemen:

To date Tenneco Oil Company as Unit Operator has been unable to obtain agreement from sufficient working interest owners to file a 1986 Unit development program by March 1, 1986.

We respectfully request a 60-day extension, or until May 1, 1986, in which to determine the annual Plan of Development.

Yours very truly,

TENNECO OIL COMPANY

By:

Division Production Manager

HFH/MFC/ps

cc: Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, New Mexico 87504

> Oil Conservation Commission State of New Mexico P.O. Box 2008 Santa Fe, New Mexico 87501

UNIT WORKING INTEREST OWNERS

# State of New Mexico







# Commissioner of Public Lands

December 2, 1985

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery Use:
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Tenneco Oil Company P. O. Box 3249 Englewood, Colorado 80155

Re: Resignation - Designation of

Unit Operator San Juan 32-9 Unit

San Juan County, New Mexico

ATTENTION: Mr. C. Jeffrey Elliott

Gentlemen:

The Commissioner of Public Lands has this date approved the resignation of El Paso Natural Gas Company as Unit Operator and the designation of Tenneco Oil Company as successor unit operator of the San Juan 32-9 Unit, Rio Arriba County, New Mexico. The effective date is September 1, 1985. Our approval is subject to like approval by the Bureau of Land Management.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

JIM BACA

COMMISSIONER OF PUBLIC, LANDS

BY: Aug D. GRAMAM, Director

Oil and Gas Division

AC 505/827-5744

JB/RDG/pm
encls.

cc:

OCD-Santa Fe, New Mexico

BLM-Albuquerque, New Mexico Attn: Fluids Branch BLM-Roswell, New Mexico Attn: Mr. Armando Lopez

### RESIGNATION OF UNIT OPERATOR AND DESIGNATION OF SUCCESSOR UNIT OPERATOR

THIS AGREEMENT is entered into by and between El Paso Natural Gas Company, Tenneco Oil Company and the owners of unitized working interests, hereinafter designated individually as "Non-Operator" and collectively as "Non-Operators";

### WITNESSETH, THAT:

WHEREAS, under the provisions of the act of February 25, 1920, 41 Stat, 437, 30 U.S.C. secs 181 et seq., as amended by the act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior or his designated representative has approved the Unit Agreement dated February 10, 1953 for the Development and Operation of the San Juan 32-9 Unit Area, San Juan County, New Mexico.

WHEREAS, El Paso Natural Gas Company is designated as Unit Operator under the terms of said Unit Agreement; and

WHEREAS, El Paso Natural Gas Company herein resigns as such Unit Operator, and the designation of a successor Unit Operator is now required pursuant to the terms of said Unit Agreement; and

WHEREAS, Tenneco Oil Company has been and hereby is designated by Non-Operators as Unit Operator (and by El Paso where El Paso retains any working interest in the unit area) and Tenneco Oil Company desires to assume all the rights, duties, and obligations of Unit Operator under the said Unit Agreement.

NOW, THEREFORE, in consideration of the premises and of the covenants herein contained, Tenneco Oil Company hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to all of the terms of said Unit Agreement, and Non-Operators covenant and agree that, effective upon approval of this Agreement by the Director of the Bureau of Land Management or his designated representative, Tenneco shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement, as it may have been heretofore amended, being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this

THIS INSTRUMENT may be executed in any number of counterparts, each of which shall be considered an original for all purposes, or may be ratified or consented to by separate instrument in writing specifically referring hereto.

IN WITNESS WHEREOF, this Agreement is executed effective the 1st day of September, 1985.

TENNECO OIL COMPANY

Attorney-in-Fact

CONOCO INC.

, Attorney-in-Fá

COMMISS

BL PASO NATURAL GAS COMPANY

Attorney-in-Fact

2831L (1)

Approved ....

Assistant District Manager for Minerals

Accepted for Record OCT 0 3 1985

Albuquerque District

# Tenneco Oil Company

A Tenneco Company

Western Rocky Mountain Division PO. Box 3249 Englewood. Colorado 80155 (303) 740-4800



Delivery Address: 6162 South Willow Drive Englewood, Colorado 80111

November 5, 1985

State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, NM 87504

Attention: Mr. Ray D. Graham

RE: Resignation - Designation of Unit Operator San Juan 32-9 Unit San Juan County, NM

### Gentlemen:

As per the terms of Articles 5 and 6 of the San Juan 32-9 Unit Agreement, enclosed please find a true copy of the Resignation of Operator and Designation of Successor Operator, naming Tenneco Oil Company as operator of the San Juan 32-9 Unit.

Also enclosed are copies of pertinent correspondence between Tenneco, the Bureau of Land Management, and Working Interest Owners of said unit.

Please advise should you require anything further.

Sincerely,

TENNECO OIL COMPANY

C. Jeffrey Elliott Senior Title Analyst

CJE/pb

**Enclosures** 

6CD

# State of New Mexico







# Commissioner of Public Lands

October 11, 1985

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148 Express Mail Delivery Uses 310 Old Santa Fe Trail Santa Fe, New Mexico 87501

Tenneco Oil Company P. O. Box 3249 Englewood, Colorado 80155

> Re: Resignation-Designation of Unit Open ew Mexico

ATTENTION: Mr. Millard F. Cari

Gentlemen:

The Bureau of Land Management has notified this office that you have transmitted copies of documents entitled "Resignation of Unit Operator and Designation of Successor Unit Operator" by which El Paso Natural Gas Company resigns as unit operator of the San Juan 32-9 Unit, San Juan County, New Mexico and Tenneco Oil Company is designated as the Successor Unit Operator.

As per Articles 5 and 6 of the San Juan 28-7 Unit Agreement, please submit a copy of these documents to this office.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

JIM BACA

COMMISSIONER OF PUBLIC LANDS

BY: RAY D. GRAHAM, Director

Oil and Gas Division

AC 505/827-5744

JD 700/5m

encls. cc:

OCD-Santa Fe, New Mexico

BLM-Albuquerque, New Mexico Attn: Fluids Branch BLM-Roswell, New Mexico Attn: Mr. Armando Lopez

IN REPLY REFER TO:



# United States Department of the Interior

San Juan 32-9 Unit 3100 (015)

# BUREAU OF LAND MANAGEMENT ALBUQUERQUE DISTRICT OFFICE

505 Marquette, N.W.
P.O. Box 6770
Albuquerque, New Mexico 87197-6770

OCT 0 3 1985

RECEIVED

067 - 8 1985

LEGAL

Tenneco Oil Company ATTN: Millard F. Carr P.O. Box 3249 Englewood, CO 80155

### Gentlemen:

Your letter of September 23, 1985, transmitted five copies of a "Resignation of Unit Operator and Designation of Succesor Unit Operator" by which E1 Paso Natural Gas Company resigns as unit operator and Tenneco Oil Company is designated as unit operator of the San Juan 32-9 Unit, San Juan County, New Mexico, effective as of September 1, 1985.

The resignation of El Paso Natural Gas Co. as unit operator and the designation of Tenneco Oil Co. as successor unit operator are hereby accepted for record purposes.

If you have any questions, please contact Gary Stephens at the above address or telephone (505) 766-2841.

Sincerely,

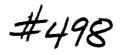
For District Manager

Sid Vogelpoll

Enclosure

cc: El Paso Natural Gas Co. P.O. Box 4289 Farmington, NM 87499 (with enclosure)

# State of New Mexico







JIM BACA COMMISSIONER

# Commissioner of Public Lands

May 2, 1985

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

Express Mail Delivery Uses 110 Old Santa For Invil Santa Fe. New V vino 87511

El paso Exploration Company P. O. Box 4289 Farmington, New Mexico 87499-4289

Re: 1985 Plan of Development

San Juan 32-9 Unit

San Juan County, New Mexico

ATTENTION: Mr. Alan Alexander

Gentlemen:

The Commissioner of Public Lands has this date approved your 1985 Plan of Development for the San Juan 32-9 Unit Area, San Juan County, New Mexico. Such plan provides for the drilling of no wells during the calendar year 1985. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

Very truly yours,

JIM BACA

COMMISSIONER OF PUBLIC LANDS

BY: CHAM, Director

Oil and Gas Division

AC 505/827-5744

JB/RDG/pm

encls.

cc:

OCD-Santa Fe, New Mexico BLM-Albuquerque, New Mexico BLM-Roswell, New Mexico



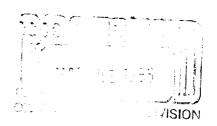
# United States Department of the Interior

SJ 32-9 Unit (015)

# BUREAU OF LAND MANAGEMENT ALBUQUERQUE DISTRICT OFFICE

505 Marquette, N.W. P.O. Box 6770 Albuquerque, New Mexico 87197-6770

MAR 20 1985



El Paso Exploration Company Attention: Alan Alexander P.O. Box 4289 Farmington, New Mexico 87499-4289

#### Gentlemen:

Two approved copies of your 1985 Plan of Development for the San Juan 32-9 Unit area, San Juan County, are enclosed. Such plan, proposing to drill no wells druing 1985, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

The possibility might exist of drainage by wells outside of the unit boundary. You will be contacted at a later date about this possibility.

Sincerely yours,

(ORIG. SGD.) GARY A. STEPHENS

For District Manager

#### Enclosures

cc:

MMOCD, Santa Fe

Comm. of Pub. Lands, Santa Fe

Micrographics 943B-4

Fluids Section FRAH (w/enc.)

File: SJ 32-9 POD

O&G Chron

015:RKent:tt:3/19/85:0567M

#498



P O BOX 4289 FARMINGTON, NEW MEXICO 87499-4289 PHONE 505-325-2841

February 22, 1985

Bureau of Land Management South Central Region Post Office Box 6770 Albuquerque, New Mexico 87197

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501 FE2 : OIL COROL ... SANTA . 2

Re: San Juan 32-9 Unit #14-08-001-569
San Juan County, New Mexico

1985 Drilling Program

#### Gentlemen:

By letter dated March 14, 1984, El Paso Natural Gas Company, as Unit Operator, for the San Juan 32-9 Unit #14-08-001-569, filed a Drilling Program concerning the referenced unit for calendar year 1984. This program provided for the drilling of no wells.

As of this date, the total number of active wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs	16
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	5
Mesaverde, Plugged & Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde/Dakota Dual	
(Plugged back to Mesaverde)	1
(Plugged & Abandoned)	1
Dakota, Non-commercial	1
Fruitland, Temporarily Abandoned	2
	131

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of no wells during the calendar year 1985.

All working interest owners have been contacted and this Drilling Program reflects their desires. EPNG, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

EPNG, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to the undersigned at the above address.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

Alan Alexander No.
District Land Manager

Alan Herpancker

AA:DMP:1d attachment San Juan 32-9 Unit, 3.0

APPROVED:	DATED:
Bureau of Land Management	
(Subject to like approval by the	
Commissioner of Public Lands and	
the Oil Conservation Division)	
APPROVED:	DATED:
Commissioner of Public Lands	
(Subject to like approval by the	
Bureau of Land Management and the	
Oil Conservation Division)	
$\left( \begin{array}{c} S_{1} \end{array} \right)$	
APPROVED: ) Con Columnia	DATED: 2-28-85
Oil Conservation Division	
(Subject to like approval by the	
Bureau of Land Management and the	
Commissioner of Public Lands)	

The foregoing approvals for the 1985 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company

Arco Oil & Gas Company

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr. and Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Chevron, USA, Inc.

Continental Illinois National
Bank & Trust Company of Chicago
Trustee for Trust No. 23935

Conoco, Inc.

Crown Central Petroleum

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude Lambe

Frederick P.G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Lear Petroleum Exploration, Inc.

Robert S. McDonald, Agnus Mc MacDonald & The Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil & Gas Properties

Mesa Petroleum Company

Northwest Pipeline Corporation

Petro-Lewis Corporation

Phillips Petroleum Company

Ms. Nora R. Ranney

Mr. James M. Raymond, Individually & Attorney-In-Fact for Mabelle McElvain Miller, Trustee for Corinne Miller Gay and Maydell Miller Mast Trusts

Ms. Catherine R. Ruml

Mr. Edward L. Ryerson, Jr.

Shaw, Isham and Company

Trust #1 for benefit of John I. Shaw and Rodger D. Shaw

Mr. Ralph U. Fitting, III and J. Robert Jones, Anc. Exec. of the Estate of Ralph U. Fitting, Jr.

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Estate of Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. J. Robert Jones

Elizabeth B. Simpson Trust

William B. Simpson Revocable Trust

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

Mr. R. Douglas Stuart Trust

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Estate of Frederick F. Webster

Katherine Isham White

Miss Mary S. Zick

P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-541-2600



May 18, 1984

Bureau of Land Management South Central Region 505 Marquette Avenue, N.W., Suite 815 Albuquerque, New Mexico 87102

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

1984 Drilling Program

### Gentlemen:

The 1984 Drilling Program for the San Juan 32-9 Unit was approved by the regulatory bodies on the dates indicated:

Bureau of Land Management 4-24-84 Commissioner of Public Lands 4-30-84 Oil Conservation Commission 3-26-84

Copies of this letter are being sent to the working interest owners of the above unit.

Very truly yours

Van L. Goebel

Landman

Land Department

VLG:cc San Juan 32-9 Unit, 3.0



## SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco. Production Company (4)

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr. and Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack and Tommy Bolack, General Partners Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Chevron U.S.A. Inc. (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Conoco, Inc.

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Mr. Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Estate of Henry P. Isham, Jr. c/o The First National Bank of Chicago

Robert T. Isham

Ms. Josephine Jacobson

Mr. Robert J. Jones

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Lear Petroleum Exploration, Inc.

Robert S. MacDonald, Angus MacDonald and The Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil & Gas Properties

Mesa Petroleum Co. (2) Amarillo, Texas 79189

Northwest Pipeline Corporation Denver, Colorado 80217 Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Petro-Lewis Corporation

Phillips Petroleum Company

Ms. Nora R. Ranney

Mr. James M. Raymond, Individually and as Attorney-in-Fact for Mabelle McElvain Miller, Trustee for Corinne Miller Gay Trust and Trustee for Maydell Miller Mast Trust

Ms. Catharine R. Ruml

Mr. Edward L. Ryerson, Jr.

Shaw, Isham and Company

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Elizabeth B. Simpson Trust

William Simpson Revocable Trust

Southland Royalty Company

Mr. Sidney Stein, Jr.

Mr. John Stuart

R. Douglas Stuart Trust c/o The First National Bank of Chicago

Mr. William P. Sutter

Tenneco Oil Exploration and Production

Texaco, Inc.

Kay B. Towle

Estate of Frederick F. Webster, Dec'd.

Katherine Isham White

Miss Mary S. Zick

#498

# State of New Mexico





COMMISSIONER



Commissioner of Public Lands
April 27, 1984

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery User
310 Old Santa Fe Inait
Santa Fe, New Mexico 87501

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

Re: San Juan 32-9 Unit

San Juan County, New Mexico

1984 Drilling Program

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1984 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico. Such program provides for the drilling of no wells during the Calander year 1984. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY:

RAY D. GRAHAM, Director Oil and Gas Division AC 505/827-5744

JB/RDG/pm
encls.

cc:

OCD-Santa Fe, New Mexico BLM-Albuquerque, New Mexico BLM-Roswell, New Mexico

#498



P. O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-541-2600

March 14, 1984

Bureau of Land Management South Central Region 505 Marquette Avenue, N.W., Suite 815 Albuquerque, New Mexico 87102

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501



Re:

San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

1984 Drilling Program

### Gentlemen:

By letter dated June 10, 1983, El Paso Natural Gas Company, as Unit Operator, for the San Juan 32-9 Unit, filed a Drilling Program concerning the captioned Unit for the calendar year 1983. This program provided for the drilling of no wells.

As of this date, the total number of active wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs	16
Dual Nacimiento/Pictured Cliffs,	
Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	5
Mesaverde, Plugged and Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde/Dakota Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Temporarily Abandoned	2
	131

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of no wells during the calendar year of 1984.

Regulatory Agencies March 14, 1984 Page Two

All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

D. N. Camfield

Attorney-in-Fact

DNC/VLG/cc Attachment San Juan 32-9, 3.0

APPROVED:		DATED:
	Bureau of Land Management	
	(Subject to like approval by the	
	Commissioner of Public Lands and	
	the Oil Conservation Division)	
APPROVED:		DATED:
	Commissioner of Public Lands	· · · · · · · · · · · · · · · · · · ·
	(Subject to like approval by the	
	Bureau of Land Management and	
	the Oil Conservation Division)	
	1/a/l	
APPROVED:	Sore John	DATED: 3-26-84
	Oil Conservation Division	
	(Subject to like approval by the	
	Bureau of Land Management and	
	the Commissioner of Public Lands)	

The foregoing approvals for the 1984 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, Rio Arriba County, New Mexico

# SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (4)

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr. and Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack and Tommy Bolack, General Partners Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Chevron U.S.A. Inc. (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Conoco, Inc.

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Mr. Ralph U. Fitting, III and J. Robert Denver, Colorado 80203 Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. Robert J. Jones

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Lear Petroleum Exploration, Inc.

Robert S. MacDonald, Angus MacDonald and The Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil & Gas Properties

Mesa Petroleum Co. (2) Amarillo, Texas 79101

Mesa Petroleum Company

Northwest Pipeline Corporation Denver, Colorado 80217

Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Phillips Petroleum Company

Ms. Nora R. Ranney

Mr. James M. Raymond, Individually and as Attorney-in-Fact for Mabelle McElvain Miller, Trustee for Corinne Miller Gay Trust and Trustee for Maydell Miller Mast Trust

Ms. Catharine R. Ruml

Mr. Edward L. Ryerson, Jr.

Shaw, Isham and Company

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Elizabeth B. Simpson Trust

William Simpson Revocable Trust

Southland Royalty Company

Mr. Sidney Stein, Jr.

Mr. John Stuart

R. Douglas Stuart Trust

Mr. William P. Sutter

Tenneco Oil Company

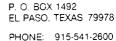
Texaco, Inc.

Kay B. Towle

Estate of Frederick F. Webster, Dec'd.

Katherine Isham White

Miss Mary S. Zick



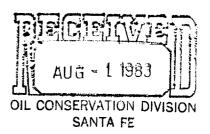
El Paso Exploration Company

July 25, 1983

Bureau of Land Management South Central Region 505 Marquette Avenue, N.W., Suite 815 Albuquerque, New Mexico 87102

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501



Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

1983 Drilling Program

### Gentlemen:

The 1983 Drilling Program for the San Juan 32-9 Unit was approved by the regulatory bodies on the dates indicated:

Bureau of Land Management 7-7-83 Commissioner of Public Lands 7-7-83 Oil Conservation Commission 7-8-83

Copies of this letter are being sent to the working interest owners of the above unit.

11 0 11

Very Eruly yours

Van L. Goebel

Landman

Land Department

VLG:cc

San Juan 32-9 Unit, 3.0

# SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (4)

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Bard Associates
(Mr. Ralph Austin Bard, Jr. and Mr. Timothy Bard Johnson)

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack and Tommy Bolack, General Partners Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Chevron U.S.A. Inc. (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Conoco, Inc.

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Mr. Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. Robert J. Jones

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Lear Petroleum Exploration, Inc.

Robert S. MacDonald, Angus MacDonald and The Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil & Gas Properties

Mesa Petroleum Co. (2) Amarillo, Texas 79101

Mesa Petroleum Company Denver, Colorado 80203

Northwest Pipeline Corporation Denver, Colorado 80217 Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Phillips Petroleum Company

Ms. Nora R. Ranney

Mr. James M. Raymond, Individually and as Attorney-in-Fact for Mabelle McElvain Miller, Trustee for Corinne Miller Gay Trust and Trustee for Maydell Miller Mast Trust

Ms. Catharine R. Ruml

Mr. Edward L. Ryerson, Jr.

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Mr. John Stuart

R. Douglas Stuart Trust

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Estate of Frederick F. Webster, Dec'd.

Katherine Isham White

Miss Mary S. Zick



### STATE OF NEW MEXICO

# ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR

July 12, 1983

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

El Paso Natural Gas Co. P.O. Box 1492 El Paso, Texas 79978

Attention: D. N. Canfield

Re: Unit Agreements \*
Northwest New Mexico

Dear Mr. Canfield:

Enclosed please find the approved copies of the material referenced above. Such approval is contingent upon like approval by the Commissioner of Public Lands and the United States Minerals Management Service.

Sincerely,

ROY E. JOHNSON

Petroleum Geologist

REJ/dp

CC: Commissioner of Public Lands - Santa Fe
Minerals Management Service - Albuquerque
OCD District Office - Aztec

3100.6



#498

JUL 07 1983

El Paso Natural Gas Attention: D. N. Canfield P. O. Box 1492 El Paso, Texas 79978

### Gentlemen:

Three approved copies of your 1983 Plan of Development for the San Juan 32-9 unit area, Rio Arriba County, New Mexico are enclosed. Such plan, proposing the drilling of no wells during calendar year 1983, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JAMES W. SHELTON
Assistant District Manager
for Minerals

### Enclosure

cc: NMOCD Commissioner Public Lands Farmington Resource Area (w/enclosure) Unit File San Juan 32-9 O & G Chrono

SEUmshler:pmr:7-6-83

# State of New Mexico







# Commissioner of Public Lands July 7, 1983

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978 #498

Re: San Juan 32-9 Unit San Juan County, New Mexico

1983 Drilling Program

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1983 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico. Such program provides for the drilling of no wells during the Calender year 1983. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505/827-5744

JB/RDG/pm
encls.

cc:

OCD-Santa Fe, New Mexico BLM-Albuquerque, New Mexico BLM-Roswell, New Mexico





P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-541-2600

June 10, 1983

Bureau of Land Management South Central Region 505 Marquette Avenue, N.W., Suite 815 Albuquerque, New Mexico 87102

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501 #498

Re: San Juan 32-9 #14-08-001-569 Rio Arriba County, New Mexico

1983 Drilling Program

### Gentlemen:

By letter dated November 23, 1982, El Paso Natural Gas Company, as Unit Operator of the San Juan 32-9 Unit, filed a Drilling Program covering the subject Unit for the calendar year 1982. This program provided for the drilling of no wells.

As of this date the total number of wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs	16
Dual Nacimiento/Pictured Cliffs,	
Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	5
Mesaverde, Plugged and Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde/Dakota Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Temporarily Abandoned	2
	$\overline{131}$

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of no wells during the calendar year 1983.

Regulatory Agencies Page Two

All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

D. N. Canfield Attorney-in-Fact \$

infued

•

DNC:VLG:cc Enclosures SJ 32-9 Unit, 3.0

APPROVED:		DATED:
	Minerals Management Service (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED:		DATED:
	Commissioner of Public Lands (Subject to like approval by the Minerals Management Service and the Oil Conservation Division)	
APPROVED:	Loy & Johnson	DATED: 7-8-8-3
	Oil Conservation Division (Subject to like approval by the Minerals Management Service and the Commissioner of Public Lands)	

The foregoing approvals for the 1983 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

# SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (4)

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Bard Associates
(Mr. Ralph Austin Bard, Jr.
and Mr. Timothy Bard Johnson)

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack and Tommy Bolack, General Partners Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Chevron U.S.A. Inc. (2)

Continental Illinois National
Bank & Trust Company of Chicago
Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Conoco, Inc.

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Mr. Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. Robert J. Jones

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Lear Petroleum Exploration, Inc.

Robert S. MacDonald, Angus MacDonald and The Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

Mr. T. H. McElvain, Jr.

T. H. McElvain Oil & Gas Properties

Mesa Petroleum Co. (2) Amarillo, Texas 79101

Mesa Petroleum Company Denver, Colorado 80203

Northwest Pipeline Corporation Denver, Colorado 80217 Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Phillips Petroleum Company

Ms. Nora R. Panney

Mr. James M. Raymond, Individually and as Attorney-in-Fact for Mabelle McElvain Miller, Trustee for Corinne Miller Gay Trust and Trustee for Maydell Miller Mast Trust

Ms. Catharine R. Ruml

Mr. Edward L. Ryerson, Jr.

Shaw, Isham and Company

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Elizabeth B. Simpson Trust

William Simpson Revocable Trust

Southland Royalty Company

Mr. Sidney Stein, Jr.

Mr. John Stuart

R. Douglas Stuart Trust

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Estate of Frederick F. Webster, Dec'd.

Katherine Isham White

Miss Mary S. Zick



# United States Department of the Interior

OIL CONSERVATION DIVISION SANTA FE

BUREAU OF LAND MANAGEMENT 505 MARQUETTE AVENUE, N.W., SUITE 815 ALBUQUERQUE, NEW MEXICO 87102

#498

JAN 2 7 1983

El Paso Natural Gas Company Attention: D. N. Canfield P. O. Box 1492 El Paso, Texas 79978

#### Gentlemen:

Three approved copies of your 1982 plan of development for the San Juan 32-9 unit area, San Juan County, New Mexico, are enclosed. Such plan, proposing no drilling during 1982, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico, are enclosed. Such plan, proposing no drilling during 1982, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

The possibility might exist of drainage by wells outside of the unit boundary. You will be contacted by our Development Unit about this possibility.

Sincerely yours,

(CRIG 560), 1.172 T. SETTING

Gene F. Daniel
Deputy Minerals Manager
Oil and Gas

Enclosure

cc: Ccmm. of Public Lands NMOCD

# State of New Mexico







# Commissioner of Public Lands

December 13, 1982

P. O. BOX 1148 SANTA FE, N. M. 87504-1148

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

Re: San Juan 32-9 Unit

San Juan County, New Mexico

1982 Drilling Program

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1982 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico. Such program provides for the drilling of no wells during the Calander year 1982. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the United States Minerals Management Service.

Enclosed is an approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

ALEX J. ARMIJO COMMISSIONER OF PUBLIC LANDS

BY: \*\* ... FLOYD O. PRANDO, Assistant Director Oil and Gas Division AC 505/827-5744

AJA/FOP/pm encls.

cc:

OCD-Santa Fe, New Mexico USMMS-Albuquerque, New Mexico

Administration



## STATE OF NEW MEXICO

# ENERGY AND MINERALS DEPARTMENT

### OIL CONSERVATION DIVISION

December 6, 1982

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

EL PASO EXPLORATION COMPANY P.O. Box 1492 El Paso, Texas 79978

ATTENTION: D. N. Canfield

RE: San Juan 32-9 Unit 1982 Drilling Program San Juan County, NM

Dear Mr. Canfield:

Enclosed please find an approved copy of the material referenced above. Such approval is contingent upon like approval by the Commissioner of Public Lands and the U. S. Minerals Management Service.

Sincerely,

Roy E. Johnson

Petroleum Geologist

REJ/dp

cc: Commissioner of Public Lands - Santa Fe Minerals Management Service - Albuquerque OCD District Office

Case# 498 R# 309



P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

November 23, 1982

Minerals Management Service South Central Region 505 Marquette Avenue, N.W., Suite 815 Albuquerque, New Mexico 87102

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501 UEU 6 1962

RECEIVED

Oil Conservation Division, State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit #14-08-001-569

San Juan County, New Mexico

1982 Drilling Program

1

### Gentlemen:

By letter dated November 7, 1980, El Paso Natural Gas Company, as Unit Operator of the San Juan 32-9 Unit, filed a Drilling Program covering the subject Unit for the calendar year 1981. This program provided for the drilling of three Mesaverde wells and one Pictured Cliffs well.

As of this date the total number of wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs	16
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	101
Mesaverde, Non-Commercial	5
Mesaverde, Plugged and Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde/Dakota Dual	
(Plugged back to Mesaverde)	1
(Plugged and Abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Temporarily Abandoned	2
	131

Regulatory Agencies November 23, 1982 Page Two

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of no wells during the calendar year 1982.

All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

D. N. Zanfield
Attorney-in-Facture

DNC:VLG:cc Enclosures

SJ 32-9 Unit, 3.0

APPROVED:		DATED:
	Minerals Management Service (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)	
APPROVED:	Commissioner of Public Lands (Subject to like approval by the Minerals Management Service and the Oil Conservation Division)	DATED:
APPROVED:	Oil Conservation Division (Subject to like approval by the Minerals Management Service and the Commissioner of Public Lands)	DATED:

The foregoing approvals for the 1982 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company Attention: Land Department Denver, Colorado 80202

Amoco Production Company Attention: Production Department Denver, Colorado 80202

Amoco Production Company Farmington, New Mexico 87401

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack and Tommy Bolack, General Partners Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Chevron U.S.A. Inc. (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

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Conoco, Inc.

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Mr. Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. Robert J. Jones

Ms. Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Estate of Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

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James M. Raymond, Trustee for Corinne Miller Gay Trust

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Northwest Pipeline Corporation Denver, Colorado 80217

Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

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Ms. Nora R. Ranney

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Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Estate of Frederick F. Webster, Dec'd.

Katherine Isham White

Miss Mary S. Zick

# El Paso NATURAL GAS COMPANY



Area Oil and Gas Supervisor United States Geological Survey Post Office Box 26124 Albuquerque, New Mexico 87125

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico, NOTICE OF COMPLETION OF ADDITIONAL

> > WELLS, Mesaverde Formation

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that seven (7) additional wells capable of producing unitized substances from the Mesaverde Formation have been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 32-9 Unit #12-A Well, located 850' from the North line and 1540' from the West line of Section 10, Township 31 North, Range 9 West, N.M.P.M., was spudded on April 7, 1980, and completed on January 28, 1981, at a plugged back depth of 6167'. The Mesaverde Formation at selected intervals between 5106' and 6111' was treated with a sandwater fracturing process on January 18, 1981. The well was shut-in on January 21, 1981, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on January 28, 1981, using the Pitot tube method with an after frac guage of 2359 MCF/D, with an SIPC of 722 psia and an SIPT of 379 psia. The spacing unit for this well is described as the W/2 of Section 10, Township 31 North, Range 9 West, N.M.P.M., containing 312.32 acres.

The San Juan 32-9 Unit #14-B Well, located 910' from the South line and 845' from the East line of Section 9, Township 31 North, Range 9 West, N.M.P.M., was spudded on March 21, 1980, and completed on February 10,

498

1981, at a plugged back depth of 6151'. The Mesaverde Formation at selected intervals between 5640' and 6084' was treated with a sandwater fracturing process on January 29, 1981. The well was shut-in on February 3, 1981, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on February 10, 1981, using the Pitot tube method with an after frac guage of 1587 MCF/D, with an SIPC of 640 psia and an SIPT of 382 psia. The spacing unit for this well is described as the E/2 of Section 10, Township 31 North, Range 9 West, N.M.P.M., containing 316.35 acres.

The San Juan 32-9 Unit #35-A Well, located 1750' from the South line and 1680' from the East line of Section 10, Township 31 North, Range 9 West, N.M.P.M., was spudded on March 30, 1980, and completed on February 4, 1981, at a plugged back depth of 6063'. The Mesaverde Formation at selected intervals between 5556' and 5998' was treated with a sand-water fracturing process on January 24, 1981. The well was shut-in on January 27, 1981, and after being shut-in for eight (8) days, the Mesaverde Formation was tested on February 4, 1981, using the Pitot tube method with an after frac guage of 1445 MCF/D, with an SIPC of 531 psia and an SIPT of 259 psia. The spacing unit for this well is described as the E/2 of Section 10, Township 31 North, Range 9 West, N.M.P.M., containing 314.42 acres.

The San Juan 32-9 Unit #57-A Well, located 1810' from the South line and 790' from the East line of Section 2, Township 31 North, Range 9 West, N.M.P.M., was spudded on May 4, 1980, and completed on January 13, 1981, at a plugged back depth of 6150'. The Mesaverde Formation at selected intervals between 5571' and 6096' was treated with a sandwater fracturing process on December 29, 1980. The well was shut-in on January 6, 1981, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on January 13, 1981, using the Pitot tube method with an after frac guage of 1445 MCF/D, with an SIPC of 741 psia and an SIPT of 486 psia. The spacing unit for this well is described as the E/2 of Section 2, Township 31 North, Range 9 West, N.M.P.M., containing 320.98 acres.

The San Juan 32-9 Unit #61-A Well, located 840' from the North line and 1100' from the West line of Section 36, Township 32 North, Range 9 West, N.M.P.M., was spudded on April 25, 1980, and completed on January 19, 1981, at a plugged back depth of 6384'. The Mesaverde Formation at selected intervals between 5600' and 6322' was treated with a sand-water fracturing process on January 7, 1981. The well was shut-in on January 11, 1981, and after being shut-in for eight (8) days, the Mesaverde Formation was tested on January 19, 1981, using the Pitot tube method with an after frac guage of 1841 MCF/D, with an SIPC of 1040 psia and an SIPT of 1025 psia. The spacing unit for this well is described as the W/2 of Section 36, Township 32 North, Range 9 West, N.M.P.M., containing 320.00 acres.

The San Juan 32-9 Unit #63-A Well, located 1030' from the South line and 840' from the East line of Section 36, Township 32 North, Range 9 West, N.M.P.M., was spudded on May 13, 1980, and completed on January

Page Three

6, 1981, at a plugged back depth of 6161'. The Mesaverde Formation at selected intervals between 5421' and 6091' was treated with a sandwater fracturing process on December 22, 1980. The well was shut—in on December 28, 1980, and after being shut—in for nine (9) days, the Mesaverde Formation was tested on January 6, 1981, using the Pitot tube method with an after frac guage of 1120 MCF/D, with an SIPC of 923 psia and an SIPT of 698 psia. The spacing unit for this well is described as the E/2 of Section 36, Township 32 North, Range 9 West, N.M.P.M., containing 320.00 acres.

The San Juan 32-9 Unit #64-A Well, located 1090' from the North line and 970' from the West line of Section 2, Township 31 North, Range 9 West, N.M.P.M., was spudded on April 16, 1980, and completed on January 26, 1981, at a plugged back depth of 6210'. The Mesaverde Formation at selected intervals between 5634' and 6145' was treated with a sandwater fracturing process on January 14, 1981. The well was shut-in on January 17, 1981, and after being shut-in for nine (9) days, the Mesaverde Formation was tested on January 26, 1981, using the Pitot tube method with an after frac guage of 494 MCF/D, with an SIPC of 696 psia and an SIPT of 821 psia. The spacing unit for this well is described as the W/2 of Section 2, Township 31 North, Range 9 West, N.M.P.M., containing 320.86 acres.

All seven (7) of the drilling blocks for the above-described wells are included within the existing Mesaverde Participating Area; therefore, the Mesaverde Participating Area is not enlarged by these wells.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

Van L. Goebel

Landman

Land Department

VIG: jb Attachment San Juan 32-9, 4.2.1

cc: Mr. Antonio Martinez

### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company Attention: Land Department Denver, Colorado 80202

Amoco Production Company Attention: Production Department Denver, Colorado 80202

Amoco Production Company Farmington, New Mexico 87401

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack and Tommy Bolack, General Partners Bolack Minerals Company

Mr. G. R. Brainard, Jr.

Mrs. Grace Brown

Chevron U.S.A. Inc. (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Conoco, Inc.

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Ms. Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Mr. Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

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Koch Industries, Inc.

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Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Lear Petroleum Exploration, Inc.

Robert S. MacDonald, Angus MacDonald and The Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

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T. H. McElvain Oil & Gas Properties

Mesa Petroleum Co. (2) Amarillo, Texas 79101

Mesa Petroleum Company Denver, Colorado 80203

James M. Raymond, Ind. and as Attorney-in-Fact for Mabelle McElvain Miller

James M. Raymond, Trustee for Corinne Miller Gay Trust

James M. Raymond, Trustee for Maydell Miller Mast Trust

Northwest Pipeline Corporation Denver, Colorado 80217

Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Phillips Petroleum Company

Ms. Nora R. Ranney

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Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Estate of Frederick F. Webster, Dec'd.

Katherine Isham White

Miss Mary S. Zick





P. O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-543-2600

498

Area Oil and Gas Supervisor United States Geological Survey Post Office Box 26124 Albuquerque, New Mexico 87125

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Re: San Juan 32-9 Unit, #14-08-001-569,

San Juan County, New Mexico

NOTICE OF COMPLETION OF ADDITIONAL WELLS, Mesaverde and Pictured Cliffs Formation

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that sixteen (16) additional wells capable of producing unitized substances from the Mesaverde and Pictured Cliffs formations have been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 32-9 Unit #5A Well, located 1600' from the North line and 1120' from the West line of Section 15, Township 31 North, Range 9 West, N.M.P.M., was spudded on August 9, 1979, and completed on March 10, 1980, at a plugged back depth of 5125'. The Mesaverde Formation at the selected intervals between 5245' and 6038' was treated with a sand-water fracturing process on January 5, 1980. The well was shut-in on August 19, 1980, and after being shut-in for nine (9) days, the Mesaverde Formation was tested on March 10, 1980, using the Pitot tube method with an after frac guage of 1295 MCF/D, with an SIPC of 595 psia and an SIPT of 305 psia. The spacing unit for this well is described as the W/2 of Section 15, Township 31 North, Range 9 West, N.M.P.M., containing 315.36 acres.

The San Juan 32-9 Unit #16A Well, located 790' from the South line and 1780' from the East line of Section 8, Township 31 North, Range 9 West, N.M.P.M., was spudded on July 30, 1979, and completed on January 10, 1980, at a plugged back depth of 6173'. The Mesaverde Formation at the selected intervals between 5336' and 6150' was treated with a sand-water fracturing process on December 31, 1979. The well was shut-in on January 3, 1980, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on January 10, 1980, using the Pitot tube method with an after frac guage of 3038 MCF/D, with an SIPC of 710 psia and an SIPT of 356 psia. The spacing unit for this well is described as the E/2 of Section 8, Township 31 North, Range 9 West, N.M.P.M., containing 320.00 acres.

The San Juan 32-9 Unit #18A Well, located 800' from the North line and 1785' from the West line of Section 17, Township 31 North, Range 9 West, N.M.P.M., was spudded on August 30, 1979, and completed on February 12,1980, at a plugged back depth of 6120'. The Mesaverde Formation at the selected intervals between 5283' and 6038' was treated with a sand-water fracturing process on January 17, 1980. The well was shut-in on May 6, 1980, and after being shut-in for nine (9) days, the Mesaverde Formation was tested on February 12, 1980, using the Pitot tube method with an after frac guage of 3866 MCF/D, with an SIPC of 742 psia and an SIPT of 360 psia. The spacing unit for this well is described as the W/2 of Section 15, Township 31 North, Range 9 West, N.M.P.M., containing 320.00 acres.

The San Juan 32-9 Unit #23A Well, located 1600' from the North line and 1490' from the West line of Section 5, Township 31 North, Range 9 West, N.M.P.M., was spudded on July 8, 1979, and completed on January 3, 1980, at a plugged back depth of 6377'. The Mesaverde Formation at the selected intervals between 5232' and 6266' was treated with a sand-water fracturing process on December 18, 1979. The well was shut-in on December 23, 1979, and after being shut-in for eleven (11) days, the Mesaverde Formation was tested on January 3, 1980, using the Pitot tube method with an after frac guage of 3201 MCF/D, with an SIPC of 725 psia and an SIPT of 268 psia. The spacing unit for this well is described as the W/2 of Section 5, Township 31 North, Range 9 West, N.M.P.M., containing 313.85 acres.

The San Juan 32-9 Unit #29A Well, located 1770' from the North line and 1520' from the West line of Section 36, Township 32 North, Range 10 West, N.M.P.M., was spudded on May 28, 1979, and completed on July 16, 1979, at a plugged back depth of 6,217'. The Mesaverde Formation at select intervals

between 5075' and 6192' was treated with a sand-water fracturing process on July 3, 1979. The well was shut-in on July 7, 1979, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on July 16, 1979, using the Pitot tube method with an after frac guage of 2902 MCF/D, with an SIPC of 685 psia and an SIPT of 599 psia. The spacing unit for this well is described as the W/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The San Juan 32-9 Unit #30A Well, located 1450' from the South line and 1610' from the East line of Section 36, Township 32 North, Range 10 West, N.M.P.M., was spudded on June 15, 1979, and completed on July 19, 1979, at a plugged back depth of 6454'. The Mesaverde Formation at select intervals between 5308' and 6327' was treated with a sand-water fracturing process on July 9, 1979. The well was shut-in on July 12, 1979, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on July 19, 1979, using the Pitot tube method with an after frac guage of 3733 MCF/D, with an SIPC of 755 psia and an SIPT of 755 psia. The spacing unit for this well is described as the E/2 of Section 36, Township 32 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The San Juan 32-9 Unit #32A Well, located 790' from the North line and 800' from the West line of Section 31, Township 32 North, Range 9 West, N.M.P.M., was spudded on May 19, 1979, and completed on July 10, 1979, at a total depth of 6238'. The Mesaverde Formation at select intervals between 5408' and 6170' was treated with a sand-water fracturing process on June 29, 1979. The well was shut-in on July 3, 1979, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on July 10, 1979, using the Pitot tube method with an after frac guage of 158 MCF/D, with an SIPC of 699 psia and an SIPT of 286 psia. The spacing unit for this well is described as the W/2 of Section 31, Township 32 North, Range 9 West, N.M.P.M., containing 205.66 acres.

The San Juan 32-9 Unit #33A Well, located 1420' from the North line and 810' from the West line of Section 6, Township 31 North, Range 9 West, N.M.P.M., was spudded on June 26, 1979, and completed on July 13, 1979, at a plugged back depth of 6186'. The Mesaverde Formation at select intervals between 5058' and 6160' was treated with a sand-water fracturing process on July 15, 1979. The well was shut-in on July 18, 1979, and after being shut-in for thirteen (13) days, the Mesaverde Formation was tested on July 31, 1979, using the Pitot tube method with an after frac guage of 3201 MCF/D, with an SIPC of 740 psia and an SIPT of 702 psia. The spacing unit for this well is described as the W/2 of Section 6, Township 31 North, Range 9 West, N.M.P.M., containing 208.15 acres.

The San Juan 32-9 Unit #38A Well, located 1880' from the South line and 720' from the East line of Section 35, Township 32 North, Range 10 West, N.M.P.M., was spudded on June 6, 1979, and completed on July 16, 1979, at a plugged back depth of 6209'. The Mesaverde Formation at select intervals between 5060' and 6181' was treated with a sand-water fracturing process on July 7, 1979. The well was shut-in on July 9, 1979, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on July 16, 1979, using the Pitot tube method with an after frac guage of 2695 MCF/D, with an SIPC of 647 psia and an SIPT of 259 psia. The spacing unit for this well is described as the E/2 of Section 35, Township 32 North, Range 10 West, N.M.P.M., containing 306.38 acres.

The San Juan 32-9 Unit #42A Well, located 840' from the South line and 1460' from the East line of Section 6, Township 31 North, Range 9 West, N.M.P.M., was spudded on July 21, 1979, and completed on January 10, 1980, at a plugged back depth of 6151'. The Mesaverde Formation at select intervals between 4999' and 6078' was treated with a sand-water fracturing process on December 27, 1979. The well was shut-in on December 30, 1979, and after being shut-in for eleven (11) days, the Mesaverde Formation was tested on January 10, 1980, using the Pitot tube method with an after frac guage of 3201 MCF/D, with an SIPC of 630 psia and an SIPT of 430 psia. The spacing unit for this well is described as the E/2 of Section 6, Township 31 North, Range 9 West, N.M.P.M., containing 315.84 acres.

The San Juan 32-9 Unit #85 Well, located 1820' from the North line and 830' from the West line of Section 13, Township 31 North, Range 10 West, N.M.P.M., was spudded on May 25, 1979, and completed on July 23, 1979, at a plugged back depth of 3377'. The Pictured Cliffs Formation at selected intervals between 3155' and 3387' was treated with a sand-water fracturing process on June 22, 1979. The well was shut-in on July 13, 1979, and after being shut-in for ten (10) days, the Pictured Cliffs Formation was tested on July 23, 1979, using the Pitot tube method with an after frac guage of 1295 MCF/D, with an IBHP of 661 psia and an SIPT of N/A psia. The spacing unit for this well is described as the W/2 of Section 13, Township 31 North, Range 10 West, N.M.P.M., containing 309.11 acres.

The San Juan 32-9 Unit #90 Well, located 1620' from the North line and 1170' from the West line of Section 11, Township 31 North, Range 10 West, N.M.P.M., was spudded on June 15, 1979, and completed on August 2, 1979, at a plugged back depth of 3100'. The Pictured Cliffs Formation at select intervals between 2962' and 3114' was treated with a sand-water fracturing process on July 19, 1979. The well was shut-in on July 26, 1979, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on August 2, 1979, using the Pitot tube method with an after frac guage of 1587 MCF/D, with an SIPC of 562 psia and an SIPT of N/A psia. The spacing unit for this well is described as the W/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The San Juan 32-9 Unit #92 Well, located 1000' from the North line and 1650' from the East line of Section 14, Township 31 North, Range 10 West, N.M.P.M., was spudded on May 19, 1979, and completed on July 30, 1979, at a plugged back depth of 3243'. The Pictured Cliffs Formation at select intervals between 3107' and 3253' was treated with a sand-water fracturing process on July 9, 1979. The well was shut-in on July 23, 1979, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on July 30, 1979, using the Pitot tube method with an after frac guage of 3201 MCF/D, with an SIPC of 583 psia and an SIPT of N/A psia. The spacing unit for this well is described as the E/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M., containing 315.52 acres.

The San Juan 32-9 Unit #98 Well, located 790' from the South line and 800' from the West line of Section 2, Township 31 North, Range 10 West, N.M.P.M., was spudded on June 25, 1979, and completed on August 2, 1979, at a plugged back depth of 3125'. The Pictured Cliffs Formation at select intervals between 3002' and 3136' was treated with a sand-water fracturing process on July 19, 1979. The well was shut-in on July 26, 1979, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on August 2, 1979, using the Pitot tube method with an after frac guage of 2265 MCF/D, with an SIPC of 547 psia and an SIPT of N/A psia. The spacing unit for this well is described as the W/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M., containing 321.06 acres.

The San Juan 32-9 Unit #99 Well, located 1840' from the North line and 1500' from the East line of Section 11, Township 31 North, Range 10 West, N.M.P.M., was spudded on June 9, 1979, and completed on August 2, 1979, at a total depth of 3173'. The Pictured Cliffs Formation at selected intervals between 3025' and 3173' was treated with a sand-water fracturing process on July 10, 1979. The well was shut-in on July 26, 1979, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on August 2, 1979, using the Pitot tube method with an after frac guage of 1942 MCF/D, with an SIPC of 591 psia and an SIPT of N/A psia. The spacing unit for this well is described as the E/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The San Juan 32-9 Unit #100 Well, located 1560' from the South line and 800' from the West line of Section 12, Township 31 North, Range 10 West, N.M.P.M., was spudded on June 4, 1979, and completed on July 23, 1979, at a plugged back depth of 3321'. The Pictured Cliffs Formation at selected intervals between 3174' and 3332' was treated with a sand-water fracturing process on June 22, 1979. The well was shut-in on July 13, 1979, and after being shut-in for ten (10) days, the Pictured Cliffs Formation was tested on July 23, 1979, using the Pitot tube method with an after frac guage of 3889 MCF/D, with an SIPC of 408 psia and an SIPT of N/A psia. The spacing unit for this well is described as the W/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

All sixteen (16) of the drilling blocks for the above-described wells are included within the existing Mesaverde and Pictured Cliffs Participating Area; therefore, the Mesaverde and Pictured Cliffs Participating Areas are not enlarged by these wells.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

Van L. Goebel

Landman

Land Department

VLG:jec Attachment SJ 32-9, 4.2.1

cc: Mr. Antonio Martinez

### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company Attention: Land Department Denver, Colorado 80202

Amoco Production Company Attention: Production Department Denver, Colorado 80202

Amoco Production Company Farmington, New Mexico 87401

Atlantic Richfield Company (3)

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Mr. Ralph Austin Bard, Jr.

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Mr. Robert D. Fitting

Ms. Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Henry P. Isham, Jr.

Robert T. Isham

Ms. Josephine Jacobson

Mr. Robert J. Jones

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Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Lear Petroleum Exploration, Inc.

Robert S. MacDonald, Angus MacDonald and The Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

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T. H. McElvain Oil & Gas Properties

Mesa Petroleum Co. (2) Amarillo, Texas 79101

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Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Estate of Frederick F. Webster, Dec'd.

Katherine Isham White

Miss Mary S. Zick

# EIPaso NATURAL GAS COMPANY

P. O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-543-2600

May 8, 1981

Area Oil and Gas Supervisor United States Geological Survey Post Office Box 26124 Albuquerque, New Mexico 87125

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit #14-08-001-569 Rio Arriba County, New Mexico

1981 Drilling Program

#### Gentlemen:

The Drilling Program for 1981 for the referenced unit was approved on the following dates:

USGS

CPL

 $\infty$ 

2/4/81

12/2/80

12/8/80

Copies of this letter are being sent to the working interest owners on the attached sheet.

Very truly yours,

Tom F. Hawkins

Landman

Land Department

OIL CONS....

SANTA FE

TFH/en SJ 32-9 Unit, 3.0

### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

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Amoco Production Company Farmington, New Mexico 87401

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Mr. James C. Bard

Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. Tommy Bolack & Terry Bolack Co-Personal Representatives of the Est. of Alice S. Bolack

Mr. G. R. Brainard, Jr.

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(George S. Isham)

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Est. of Frederick F. Webster, Dec'd.

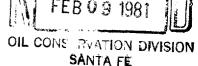
Katherine Isham White

Miss Mary S. Zick



# United States Department of the Interior

GEOLOGICAL SURVEY
South Central Region
P. 0. Box 26124
Albuquerque, New Mexico 87125



04 FEB 1981

498

El Paso Natural Gas Company Attention: D. N. Canfield P. O. Box 1492 El Paso, Texas 79973

Gentlemen:

Three approved copies of your 1981 plan of development for the San Juan 32-9 unit area, San Juan County, New Mexico are enclosed. Such plan, proposing to drill three Mesaverde and one Pictured Cliffs wells was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

ORIGINAL SIGNED BY:

Gene F. Daniel Deputy Conservation Manager Oil and Gas

Enclosures

cc: NMOCD, Santa Fe

# OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

December 8, 1980

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79978

Attention: D. N. Canfield

Re: Case No. 498
San Juan 32-9 Unit

1981 Orilling Program

Gentlemen:

We hereby approve the 1981 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Drilling Program is returned herewith.

Yours very truly,

JOE D. RAMEY Director

JDR/EP/fd
enc.

cc: U.S.G.S. - Roswell
Commissioner of Public Lands

# State of New Mexico



ALEX J. ARMIJO COMMISSIONER



Commissioner of Public Lands
December 2, 1980

498

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

> Re: San Juan 32-9 Unit San Juan County, New Mexico 1981 Drilling Program

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1981 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico. Such program calls for the drilling of wells no. 26A, 25A, 45A and 95R. Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:

FLOYD O. PRANDO, Assistant Director- Oil & Gas Division AC 505-827-2748

AJA/FOP/s encls.

cc:

OCD-Santa Fe, New Mexico
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico

# **NATURAL GAS**

P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

November 7, 1980

Area Oil and Gas Supervisor United States Geological Survey P. O. Box 26124 Albuquerque, New Mexico 87125

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> San Juan 32-9 Unit #14-08-001-569 Re:

San Juan County, New Mexico 1981 DRILLING PROGRAM

#### Gentlemen:

By letter dated November 27, 1979, El Paso Natural Gas Company, as Unit Operator of the San Juan 32-9 Unit, filed a Drilling Program covering the subject Unit for the calendar year 1980. This Program provided for the drilling of seven (7) Mesaverde Wells. Each well was within the Participating Area for the formation. All of the above wells are currently being drilled.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs
Dual Nacimiento/Pictured Cliffs, Commercial
Mesaverde, Commercial
Mesaverde, Non-Commercial
Mesaverde, Non

Mesaverde, Temporarily Abandoned

Mesaverde/Dakota Dual

(Plugged back to Mesaverde)

(Plugged and Abandoned)

1

Dakota, Non-Commercial Fruitland, Temporarily Abandoned

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of the following wells during the calendar year 1981:

Well No.	Location	<u>Formation</u>
26A	W/2 of Section 1, T-31-N, R-10-W	Mesaverde
25A	E/2 of Section 2, T-31-N, R-10-W	Mesaverde
45A	W/2 of Section 12, T-31-N, R-10-W	Mesaverde
95R	W/2 of Section 11, T-31-N, R-10-W	Pictured Cliffs

All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours

D. N. Canfield Attorney-in-Fact

DNC:TFH:pw Attachments

SJ 32-9 Unit 3.0

APPROVED:		DATED:	
	Area Oil and Gas Supervisor United States Geological Survey (Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Division)		
APPROVED:		DATED:	
	Commissioner of Public Lands (Subject to like approval by the United States Geological Survey & the Oil Conservation Division)		
APPROVED:	Je Hamen	DATED:	12/8/80
	Oil/Conservation Division (Subject to like approval by the United States Geological Survey & the Commissioner of Public Lands)		

The foregoing approvals are for the 1981 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

# SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (3) Attention: Mr. T. M. Curtis Denver, Colorado 80202

Amoco Production Company Attention: Mr. L. O. Speer, Jr. Farmington, New Mexico 87401

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23949

Conoco, Inc.

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunner

Mr. Charles W. Farnham

Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Ralph W. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine M. Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

(George S. Isham)

(Henry P. Isham, Jr.)

(Robert T. Isham)

Josephine C. Jacobson

Mr. Robert J. Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Lear Petroleum Exploration, Inc.

Robert S. MacDonald, Angus MacDonald and the Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

T. H. McElvain, Jr.

T. H. McElvain Oil and Gas Properties

Mesa Petroleum Co. (2) Amarillo, Texas

Mesa Petroleum Company Denver, Colorado

Mabelle M. Miller

Northwest Pipeline Corporation Attention: Mr. J. W. Shepardson Denver, Colorado 80202

Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Phillips Petroleum Company

Nora R. Ranney

Mr. James M. Raymond

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Shaw, Isham and Company

Elizabeth B. Simpson Trust

William Simpson Revocable Trust

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

R. Douglas Stuart Trust

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Est. of Frederick F. Webster, Dec'd.

Katherine Isham White

Miss Mary S. Zick

# EIP350 NATURAL GAS COMPANY

P. O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-543-2600

March 11,1980

Area Oil & Gas Supervisor United States Geological Survey P. O. Box 26124 Albuquerque, New Mexico 87125

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State Of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501 546 Cam \$177 443 443 448 V

#### Gentlemen:

The 1980 Drilling Program for the below listed units were approved by the regulatory bodies on the dates indicated:

<u>Unit</u>	USGS	CPL	<u>occ</u>
San Juan 27-5	2-01-80	1-21-80	2-21-80
San Juan 28-7	2-29-80	11-30-79	1-07-80
San Juan 30-6	2-01-80	12-05-79	1-07-80
San Juan 32-9	2-04-80	12-05-79	1-07-80
Rincon	3-07-80	12-05-79	1-07-80

Copies of this letter are being sent to the working interest owners of the above units.

Very truly yours,

R. H. Nordhausen Senior Landman

Land Department

Energy Resource Development

RIO Kollain

RHN:en

SJ 27-5, 3.0; SJ 28-7, 3.0;

SJ 30-6, 3.0; SJ 32-9, 3.0;

Rincon, 3.0



# United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

FEB 0 4 1980

498

El Paso Natural Gas Company Attention: Mr. D.N. Canfield P. O. Box 1492 El Paso, Texas 79978

### Gentlemen:

Your 1989 plan of development submitted for the San Juan 32-9 unit area, San Juan County, New Mexico, was approved on this date subject to like approval by the appropriate State officials.

Such plan proposes the drilling of seven Mesaverde wells and three approved copies are enclosed.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor, SRMA

### Enclosure

cc: NMOCD, Santa Fe (ltr only)



#### OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

January 7, 1980

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79978

Attention: D. N. Canfield

Re: Case No. 498 San Juan 32-9 Unit 1980 Drilling Program

Gentlemen:

We hereby approve the 1980 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Drilling Program is returned herewith.

Yours very truly,

JOE D. RAMEY Director

JDR/EP/fd enc.

U.S.G.S. - Roswell Commissioner of Public Lands

# State of New Mexico



ALEX J. ARMIJO COMMISSIONER



Commissioner of Public Lands
December 5, 1979

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79978

498

Re: San Juan 32-9 Unit

San Juan County, New Mexico

1980 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1980 Drilling Program for the San Juan 32-9 Unit, San Juan County, New Mexico. Such program provides for the drilling of the following wells during 1980, Wells No 64A, 57A, 14A, 12A, 35A, 61A, and 63A. Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

ALEX J. ARMIJO

COMMISSIONER OF PUBLIC IANDS

BY:

FLOYD O. PRANDO, ASSISTANT DIRECTOR

Oil and Gas Division

AC 505-827-2748

AJA/FOP/s

encl.

OCD-Santa Fe, New Mexico

USGS-Roswell, New Mexico USGS-Albuquerque, New Mexico



P. O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-543-2600

November 27, 1979

3 oK for approx

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Division State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501



Re: San Juan 32-9 Unit #14-08-001-569 San Juan County, New Mexico 1980 DRILLING PROGRAM

### Gentlemen:

By letter dated January 4, 1979, El Paso Natural Gas Company, as Unit Operator of the San Juan 32-9 Unit, filed a Drilling Program covering the subject Unit for the calendar year 1979. This Program provided for the drilling of six (6) Pictured Cliffs Wells and ten (10) Mesaverde wells. Each well was within the Participating Area for the formation to which such well was drilled.

All of the wells have been drilled and all, except for five (5) of the Mesaverde Wells, have also been completed.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Regulatory Agencies November 27, 1979 Page Two

Pictured Cliffs	15
Dual Nacimiento/Pictured Cliffs, Commercial	1
Mesaverde, Commercial	87
Mesaverde, Non-Commercial	5
Mesaverde, waiting on completion	5
Mesaverde, Plugged and Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde/Dakota Dual	
(plugged back to Mesaverde)	1
(plugged and abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Temporarily Abandoned	2
	121

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of the following Mesaverde wells during the calendar year 1980.

Well No.	<u>Drilling Block</u>		
6 <b>4</b> A	W/2 Sec. 2, T-31-N, R-9-W		
57A	E/2 Sec. 2, T-31-N, R-9-W		
14A	E/2 Sec. 9, T-31-N, R-9-W		
12A	W/2 Sec. 10, T-31-N, R-9-W		
35A	E/2 Sec. 10, T-31-N, R-9-W		
61A	W/2 Sec. 36, T-32-N, R-9-W		
63A	E/2 Sec. 36, T-32-N, R-9-W		

All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners, believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Regulatory Agencies November 27, 1979 Page Three

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Actorney-in-F

DNC:RHN:pw Attachments San Juan 32-9 Unit 3.0

APPROVED:		DATE:		
	Regional Oil & Gas Supervisor			
	United States Geological Survey			
	Subject to like approval by the			
	Commissioner of Public Lands and the Oil Conservation Division			
	the Off Conservation Division			
APPROVED:	•	DATE:		
	Commissioner of Public Lands			
	Subject to like approval by the			
	United States Geological Survey as	nd		
	the Oil Conservation Division			
APPROVED:	100 M 1000	DATE:	1/7/80	
APPROVED:	Oil Conservation Division	DATE:		<del></del>
	Subject to like approval by the			
	Upited States Geological Survey			
	and the Commissioner of Public La	nds		

The foregoing approvals for the 1980 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, San Juan County, New Mexico.

### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (3) Attention: Mr. T. M. Curtis Denver, Colorado 80202

Amoco Production Company
Attention: Mr. L. O. Speer, Jr.
Farmington, New Mexico 87401

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Co.

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago
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Mr. Charles W. Farnham

Elizabeth B. Farrington

Mrs. Minnie A. Fitting

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Mr. Robert D. Fitting

Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

(George S. Isham)

(Henry P. Isham, Jr.)

(Robert T. Isham)

Josephine C. Jacobson

Mr. Robert J. Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

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T. H. McElvain, Jr.

T. H. McElvain Oil and Gas Prop.

Mesa Petroleum Co. (2)

Mabelle Miller

Northwest Pipeline Corporation Attention: Mr. J. W. Shepardson Denver, Colorado 80202

Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Phillips Petroleum Company

Nora R. Ranney

Mr. James M. Raymond

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Shaw, Isham and Company

Elizabaeth B. Simpson Trust

William Simpson Revocable Trust

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

R. Douglas Stuart Trust

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Estate of Frederick F. Webster, Dec'd.

Katherine Isham White

Miss Mary S. Zick



P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

August 13, 1979

498

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201



Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico NOTICE OF COMPLETION OF ADDITIONAL WELLS, Mesaverde Formation

### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that fourteen (14) additional wells capable of producing unitized substances from the Mesaverde formation have been completed upon acreage committed to the Unit. These wells are as follows:

Unit Well No. 1-A, located 1710' from the North line and 925' from the West line of Section 18, Township 31 North, Range 9 West, N.M.P.M., was spudded on April 27, 1978, and completed on August 1, 1978, at a plugged back total depth of 6201'. The Mesaverde formation at the intervals of 4995', 5246', 5291', 5309', 5317', 5323', 5339', 5343', 5354', 5361', 5368', 5444', 5478', 5566', 5573', 5580', 5674', 5679', 5724', 5731', 5736', 5742', 5748', 5753', 5764', 5794', 5811', 5816', 5831', 5863', 5902', 5944', 5950', 5977', 5982', 5995', 6033', 6064', was treated with a sand-water fracturing process on July 16, 1978.

The well was shut-in on July 18, 1978, and after being shut-in for fourteen (14) days, the Mesaverde Formation was tested on August 1, 1978, using the Pitot tube method with an after frac gauge of 2536 MCF/D, with an SIPC of 714 psia and an SIPT of 293 psia. The spacing unit for this well is described as the W/2 of Section 18, Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 3-A, located 1815' from the South line and 1450' from the East line of Section 1, Township 31 North, Range 10 West, N.M.P.M., was spudded on August 12, 1978, and completed on September 20, 1978, at a plugged back total depth of 6012'. The Mesaverde formation at the intervals of 5185', 5253', 5262', 5276', 5287', 5299', 5306', 5513', 5320', 5325', 5399', 5405', 5425', 5536', 5546', 5589', 5611', 5647', 5663', 5686', 5692', 5698', 5704', 5710', 5730', 5736', 5747', 5753', 5759', 5765', 5771', 5790', 5802', 5865', 5933', 5937', 5960', 5963', 5967', 5971', 5975', 5979', 5993', 5997', 5999', 6021', 6023', 6025', was treated with a sand-water fracturing process on September 6, 1978. The well was shut-in on September 10, 1978, and after being shut-in for ten (10) days, the Mesaverde Formation was tested on September 20, 1978, using the Pitot tube method with an after frac gauge of 2779 MCF/D, with an SIPC of 696 psia and an SIPT of 622 psia. The spacing unit for this well is described as the E/2 of Section 1, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 4-A, located 1670' from the South line and 1090' from the East line of Section 12, Township 31 North, Range 10 West, N.M.P.M., was spudded on June 10, 1978, and completed on August 15, 1978, at a plugged back total depth of 6083'. The Mesaverde formation at the intervals of 5171', 5215', 5231' 5251', 5259', 5277', 5287', 5351', 5365', 5389', 5399', 5421', 5489', 5518', 5533', 5543', 5607', 5621', 5634', 5640', 5661', 5665', 5678', 5683', 5688', 5693', 5704', 5709', 5727', 5739', 5778', 5835', 5849', 5890', 5897', 5928', 5941', 5979', 6011', 6057', was treated with a sand-water fracturing process on August 3, 1978. The well was shut-in on August 3, 1978, and remained shut-in until it was tied into the pipeline on November 6, 1978. Based on a flow test from November 19, 1978 to Novemer 27, 1978, the flow rate was calculated at 1188 MCF/D, a SIPC of 587 psia and an SIPT of 341 psia was measured on December 4, 1978. The spacing unit for this well is described as the E/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 6-A, located 1500' from the South line and 1050' from the East line of Section 15, Township 31 North, Range 9 West, N.M.P.M., was spudded on June 21, 1978, and completed on August 21, 1978, at a plugged back total depth of 6052'. The Mesaverde formation at the intervals of 5217', 5225', 5239',

5249', 5258', 5267', 5272', 5281', 5314', 5319', 5333', 5349', 5421', 5441', 5471', 5477', 5624', 5629', 5633', 5645', 5649', 5653', 5657', 5661', 5683', 5695', 5700', 5731', 5763', 5793', 5831', 5863', 5885', 5917', 5939', 5971', 5979', was treated with a sand-water fracturing process on August 9, 1978. The well was shut-in on August 12, 1979, and after being shut-in for nine (9) days, the Mesaverde Formation was tested on August 21, 1978, using the Pitot tube method with an after frac gauge of 1996 MCF/D, with an SIPC of 569 psia and an SIPT of 546 psia. The spacing unit for this well is described as the E/2 of Section 15, Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 13-A, located 1190' from the South line and 1140' from the East line of Section 14, Township 31 North, Range 10 West, N.M.P.M., was spudded on October 8, 1978, and completed on May 16, 1979, at a plugged back total depth of 5881'. The Mesaverde formation at the intervals of 4656', 4750', 4779', 4792', 4877', 4896', 4926', 4943', 4958', 4969', 4980', 4989', 5008', 5073', 5099', 5124', 5202', 5222', 5261', 5291', 5351', 5372', 5378', 5384', 5390', 5396', 5404', 5409', 5416', 5444', 5451', 5467', 5488', 5511', 5572', 5607', 5639', 5646', 5701', 5836', was treated with a sand-water fracturing process on May 7, 1979. The well was shut-in on May 9, 1979, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on May 16, 1979, using the Pitot tube method with an after frac gauge of 4133 MCF/D, with an SIPC of 710 psia and an SIPT of 674 psia. The spacing unit for this well is described as the E/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 17-A, located 1500' from the North line and 1600' from the West line of Section 8, Township 31 North, Range 9 West, N.M.P.M., was spudded on July 28, 1978, and completed on October 19, 1978, at a plugged back total depth of 6211'. Mesaverde formation at the intervals of 5128', 5341', 5431', 5439', 5445', 5466', 5474', 5484', 5489', 5500', 5507', 5512', 5561', 5568', 5592', 5809', 5814', 5823', 5828', 5850', 5854', 5861', 5864', 5873', 5877', 5887', 5899', 5913', 5917', 5929', 5941', 5973', 6006', 6019', 6032', 6047', 6070', 6084', 6101', 6119', 6155', 6179', was treated with a sand-water fracturing process on October 7, 1978. The well was shut-in on October 1, 1978, and after being shut-in for eight (8) days, the Mesaverde Formation was tested on October 19, 1978, using the Pitot tube method with an after frac gauge of 2039 MCF/D, with an SIPC of 754 psia and an SIPT of 562 psia. The spacing unit for this well is described as the W/2 of Section 8. Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 19-A, located 1760' from the South line and 1480' from the East line of Section 17, Township 31 North, Range 9 West, N.M.P.M., was spudded on May 8, 1978, and completed on August 1, 1978, at a plugged back total depth of 6069'. The Mesaverde formation at the intervals of 5182'-5190', 5210'-5230', 5236'-5244', 5256'-5270', 5290'-5300', 5360'-5366', 5510'-5522', 5530'-5538', 5618'-5638', 5658'-5682', 5700'-5708', 5718'-5726', 5750'-5760', 5774'-5780', 5790'-5796', 5868'-5874', 5904'-5914', 5920'-5932', 5956'-5972', 5986'-5994', 6002'-6014', was treated with a sand-water fracturing process on July 20, 1978. The well was shut-in on July 25, 1978, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on August 1, 1978, using the Pitot tube method with an after frac gauge of 2902 MCF/D, with an SIPC of 660 psia and an SIPT of 623 psia. The spacing unit for this well is described as the E/2 of Section 17, Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 20-A, located 1550' from the South line and 1155' from the East line of Section 18, Township 31 North, Range 9 West, N.M.P.M., was spudded on May 29, 1978, and completed on August 10, 1978, at a plugged back total depth of 6105'. The Mesaverde formation at the intervals of 4919', 5163', 5182', 5209', 5227', 5237', 5255', 5265', 5287', 5351', 5360', 5392', 5421', 5451', 5463', 5481', 5491', 5523', 5541', 5581', 5586', 5592', 5604', 5609', 5635', 5655', 5659', 5663', 5667', 5675', 5680', 5685', 5699', 5719', 5723', 5727', 5750', 5797', 5837', 5911', 5963', was treated with a sand-water fracturing process on July 30, 1978. The well was shut-in on August 2, 1978, and after being shut-in for eight (8) days, the Mesaverde Formation was tested on August 10, 1978, using the Pitot tube method with an after frac gauge of 3500 MCF/D, with an SIPC of 734 psia and an SIPT of 450 psia. The spacing unit for this well is described as the E/2 of Section 18, Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 21-A, located 1750' from the North line and 1480' from the West line of Section 11, Township 31 North, Range 10 West, N.M.P.M., was spudded on April 24, 1978, and completed - on November 7, 1978, at a total depth of 5678'. The Mesaverde formation at the intervals of 4510', 4608', 4648', 4655', 4757', 4780', 4803', 4822', 4835', 4840', 4846', 4855', 4872', 4877', 4959', 4996', 5028', 5049', 5055', 5101', 5107', 5219', 5225', 5231', 5237', 5244', 5249', 5254', 5264', 5270', 5276', 5282', 5288', 5310', 5332', 5342', 5366', 5389', was treated with a sand-water fracturing process on October 12, 1978 and October 14, 1978. The well was shut-in on October 19, 1978, and after being shut-in for nineteen (19) days, the absolute open flow from the

Mesaverde Formation was calculated from meter readings on November 7, 1978, at 12,880MCF/D, with an SIPC of 582 psia and an SIPT of 582 psia. The spacing unit for this well is described as the W/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 22-A, located 830' from the North line and 1080' from the West line of Section 14, Township 31 North, Range 10 West, N.M.P.M., was spudded on November 11, 1978, and completed on December 11, 1978, at a plugged back total depth of 5686'. The Mesaverde formation at the intervals of 4683', 4695', 4802', 4814', 4833', 4853', 4858', 4870', 4876', 4882', 4888', 4894'. 4908', 4914', 4920', 4924', 4941', 4995', 5047', 5149', 5161' 5176', 5290', 5296', 5303', 5308', 5314', 5330', 5336', 5341', 5357', 5361', 5382', 5400', 5439', 5468', 5502', 5531', 5554', 5573', 5591', 5608', 5612', 5615', 5639', 5684', was treated with a sand-water fracturing process on November 27, 1978. The well was shut-in on November 30, 1978, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on December 11, 1978, using the Pitot tube method with an after frac gauge of 3333 MCF/D, with an SIPC of 598 psia and an SIPT of 598 psia. The spacing unit for this well is described as the W/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 28-A, located 1835' from the North line and 1660' from the West line of Section 26, Township 32 North, Range 10 West, N.M.P.M., was spudded on August 24, 1978, and completed on October 17, 1978, at a plugged back total depth of 6466'. The Mesaverde formation at the intervals of 5695', 5707', 5719', 5729', 5743', 5749', 5795', 5801', 5856', 5949', 5953', 5965', 5970', 5995', 5999', 6105', 6109', 6129', 6133', 6137', 6151', 6155', 6159', 6183', 6188', 6207', 6222', 6245', 6303', 6335', 6357', was treated with a sand-water fracturing process on October 3, 1978. The well was shut-in on October 6, 1978. and after being shut-in for seven (7) days, the Mesaverde Formation was tested on October 17, 1978, using the Pitot tube method with an after frac gauge of 1587 MCF/D, with an SIPC of 712 psia and an SIPT of 224 psia. The spacing unit for this well is described as the W/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M.

Unit Well No. 31-A, located 1490' from the North line and 865' from the West line of Section 13, Township 31 North, Range 10 West, N.M.P.M., was spudded on October 23, 1978, and completed on May 30, 1979, at a plugged back total depth of 5826'. The Mesaverde formation at the intervals of 3372'-3407', 4664'-4672', 4733'-4737', 4806'-4813', 4900'-4919', 4952'-4964', 4968'-4989', 4994'-5008', 5101'-5113', 5123'-5129', 5156'-5161', 5243'-5253', 5268'-5276', 5283'-5290', 5313'-5318', 5392'-5409',

5409'-5426', 5432'-5441', 5455'-5475', 5501'-5508', 5534'-5540', 5566'-5574', 5601'-5621', 5644'-5660', 5668'-5679', 5690'-5696', 5706'-5720', 5780'-5786', was treated with a sand-water fracturing process on May 14, 15 and 16, 1979. The well was shut-in on May 23, 1979, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on May 30, 1979, using the Pitot tube method with an after frac gauge of 3466 MCF/D, with an SIPC of 727 psia and an SIPT of 727 psia. The spacing unit for this well is described as the W/2 of Section 13, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 34-A, located 800' from the North line and 1135' from the West line of Section 35, Township 32 North, Range 10 West, N.M.P.M., was spudded on April 26, 1978, and completed on July 17, 1978, at a plugged back total depth of 5733'. The Mesaverde formation at the intervals of 4816', 4876', 4885', 4889', 4910', 4924', 4930', 4934', 4938', 4942', 4993', 4998', 5003', 5056', 5061', 5078', 5264', 5273', 5282', 5292', 5300', 5306', 5310', 5316', 5323, 5332', 5359', 5365', 5371', 5383', 5406', 5445', 5463', 5481'. 5491, 5522', 5537', 5581', 5601', 5615', 5636', was treated with a sand-water fracturing process on July 6, 1978. The well was shut-in on July 8, 1978, and after being shut-in for nine (9) days, the Mesaverde Formation was tested on July 17, 1978, using the Pitot tube method with an after frac gauge of 2279 MCF/D, with an SIPC of 666 psia and an SIPT of 663 psia. The spacing unit for this well is described as the W/2 of Section 35. Township 32 North, Range 10 West, N.M.P.M.

Unit Well No. 43-A. located 1150' from the North line and 1055' from the West line of Section 2. Township 31 North, Range 10 West, N.M.P.M., was spudded on April 17, 1978, and completed on July 13, 1978, at a plugged back total depth of 5619'. The Mesaverde formation at the intervals of 4440', 4446', 4546', 4584', 4680', 4691', 4734', 4742', 4750', 4764', 4776', 4784', 4792', 4800', 4808', 4847', 4854', 4915', 4922', 4934', 4998', 5006', 5014', 5022', 5053', 5116', 5129', 5138', 5162', 5168', 5174', 5180', 5186', 5192', 5198, 5210', 5213', 5216', 5228', 5234', 5240', 5246', 5252', 5266', 5281', 5289', 5329', 5374', 5412', 5454', 5462', 5509', was treated with a sand-water fracturing process on July 3, 1978. The well was shut-in on July 5, 1978, and after being shut-in for eight (8) days, the Mesaverde Formation was tested on July 13, 1978, using the Pitot tube method with an after frac gauge of 2167 MCF/D, with an SIPC of 647 psia and an SIPT of 444 psia. The spacing unit for this well is described as the W/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M.

Regulatory Agencies August 13, 1979 Page 6

All fourteen (14) of the drilling blocks for the above-described wells are included within the existing Mesaverde Participating Area; therefore, the Mesaverde Participating Area is not enlarged by these wells.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

James R. Permenter

Manager, Land Contracts

and Titles

Land Department Exploration

JRP:RHN:pw Attachment San Juan 32-9 4.2.1.

cc: Mr. Antonio Martinez

SAN JUAN 32-9 UNIT MESAVERDE WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company

Tom Bolack

Brookhaven Oil Company

Grace Brown

Chevron Oil Company

Koch Industries

Claude Lambe

T. H. McElvain Oil and Gas Properties

Mesa Petroleum Co.

Mabelle M. Miller

Northwest Pipeline Corporation

Southland Royalty Company

Texaco, Inc.



P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

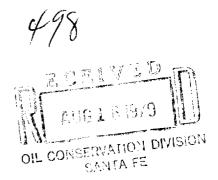
August 13, 1979

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe. New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit, #14-08-001-569, San Juan County, New Mexico NOTICE OF COMPLETION OF ADDITIONAL WELLS, Mesaverde Formation



### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that fourteen (14) additional wells capable of producing unitized substances from the Mesaverde formation have been completed upon acreage committed to the Unit. These wells are as follows:

Unit Well No. 1-A, located 1710' from the North line and 925' from the West line of Section 18, Township 31 North, Range 9 West, N.M.P.M., was spudded on April 27, 1978, and completed on August 1, 1978, at a plugged back total depth of 6201'. The Mesaverde formation at the intervals of 4995', 5246', 5291', 5309', 5317', 5323', 5339', 5343', 5354', 5361', 5368', 5444', 5478', 5566', 5573', 5580', 5674', 5679', 5724', 5731', 5736', 5742', 5748', 5753', 5764', 5794', 5811', 5816', 5831', 5863', 5902', 5944', 5950', 5977', 5982', 5995', 6033', 6064', was treated with a sand-water fracturing process on July 16, 1978.

The well was shut-in on July 18, 1978, and after being shut-in for fourteen (14) days, the Mesaverde Formation was tested on August 1, 1978, using the Pitot tube method with an after frac gauge of 2536 MCF/D, with an SIPC of 714 psia and an SIPT of 293 psia. The spacing unit for this well is described as the W/2 of Section 18, Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 3-A, located 1815' from the South line and 1450' from the East line of Section 1, Township 31 North, Range 10 West, N.M.P.M., was spudded on August 12, 1978, and completed on September 20, 1978, at a plugged back total depth of 6012'. The Mesaverde formation at the intervals of 5185', 5253', 5262', 5276', 5287', 5299', 5306', 5513', 5320', 5325', 5399', 5405', 5425', 5536', 5546', 5589', 5611', 5647', 5663', 5686', 5692', 5698', 5704', 5710', 5730', 5736', 5747', 5753', 5759', 5765', 5771', 5790', 5802', 5865', 5933', 5937', 5960', 5963', 5967', 5971', 5975', 5979', 5993', 5997', 5999', 6021', 6023', 6025', was treated with a sand-water fracturing process on September 6, 1978. The well was shut-in on September 10, 1978, and after being shut-in for ten (10) days, the Mesaverde Formation was tested on September 20, 1978, using the Pitot tube method with an after frac gauge of 2779 MCF/D, with an SIPC of 696 psia and an SIPT of 622 psia. The spacing unit for this well is described as the E/2 of Section 1. Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 4-A, located 1670' from the South line and 1090' from the East line of Section 12, Township 31 North, Range 10 West, N.M.P.M., was spudded on June 10, 1978, and completed on August 15, 1978, at a plugged back total depth of 6083'. Mesaverde formation at the intervals of 5171', 5215', 5231' 5251', 5259', 5277', 5287', 5351', 5365', 5389', 5399', 5421', 5489', 5518', 5533', 5543', 5607', 5621', 5634', 5640', 5661', 5665', 5678', 5683', 5688', 5693', 5704', 5709', 5727', 5739', 5778', 5835', 5849', 5890', 5897', 5928', 5941', 5979', 6011', 6057', was treated with a sand-water fracturing process on August 3, 1978. The well was shut-in on August 3, 1978, and remained shut-in until it was tied into the pipeline on November 6, 1978. Based on a flow test from November 19, 1978 to Novemer 27, 1978, the flow rate was calculated at 1188 MCF/D, a SIPC of 587 psia and an SIPT of 341 psia was measured on December 4, 1978. The spacing unit for this well is described as the E/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 6-A, located 1500' from the South line and 1050' from the East line of Section 15, Township 31 North, Range 9 West, N.M.P.M., was spudded on June 21, 1978, and completed on August 21, 1978, at a plugged back total depth of 6052'. The Mesaverde formation at the intervals of 5217', 5225', 5239',

5249', 5258', 5267', 5272', 5281', 5314', 5319', 5333', 5349', 5421', 5441', 5471', 5477', 5624', 5629', 5633', 5645', 5649', 5653', 5657', 5661', 5683', 5695', 5700', 5731', 5763', 5793', 5831', 5863', 5885', 5917', 5939', 5971', 5979', was treated with a sand-water fracturing process on August 9, 1978. The well was shut-in on August 12, 1979, and after being shut-in for nine (9) days, the Mesaverde Formation was tested on August 21, 1978, using the Pitot tube method with an after frac gauge of 1996 MCF/D, with an SIPC of 569 psia and an SIPT of 546 psia. The spacing unit for this well is described as the E/2 of Section 15, Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 13-A, located 1190' from the South line and 1140' from the East line of Section 14, Township 31 North, Range 10 West, N.M.P.M., was spudded on October 8, 1978, and completed on May 16, 1979, at a plugged back total depth of 5881'. The Mesaverde formation at the intervals of 4656', 4750', 4779', 4792', 4877', 4896', 4926', 4943', 4958', 4969', 4980', 4989', 5008', 5073', 5099', 5124', 5202', 5222', 5261', 5291', 5351', 5372', 5378', 5384', 5390', 5396', 5404', 5409', 5416', 5444', 5451', 5467', 5488', 5511', 5572', 5607', 5639', 5646', 5701', 5836', was treated with a sand-water fracturing process on May 7, 1979. The well was shut-in on May 9, 1979, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on May 16, 1979, using the Pitot tube method with an after frac gauge of 4133 MCF/D, with an SIPC of 710 psia and an SIPT of 674 psia. The spacing unit for this well is described as the E/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 17-A, located 1500' from the North line and 1600' from the West line of Section 8, Township 31 North, Range 9 West, N.M.P.M., was spudded on July 28, 1978, and completed on October 19, 1978, at a plugged back total depth of 6211'. The Mesaverde formation at the intervals of 5128', 5341', 5431', 5439', 5445', 5466', 5474', 5484', 5489', 5500', 5507', 5512', 5561', 5568', 5592', 5809', 5814', 5823', 5828', 5850', 5854', 5861', 5864', 5873', 5877', 5887', 5899', 5913', 5917', 5929', 5941', 5973', 6006', 6019', 6032', 6047', 6070', 6084', 6101', 6119', 6155', 6179', was treated with a sand-water fracturing process on October 7, 1978. The well was shut-in on October 1, 1978, and after being shut-in for eight (8) days, the Mesaverde Formation was tested on October 19, 1978, using the Pitot tube method with an after frac gauge of 2039 MCF/D, with an SIPC of 754 psia and an SIPT of 562 psia. The spacing unit for this well is described as the W/2 of Section 8, Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 19-A, located 1760' from the South line and 1480' from the East line of Section 17, Township 31 North, Range 9 West, N.M.P.M., was spudded on May 8, 1978, and completed on August 1, 1978, at a plugged back total depth of 6069'. The Mesaverde formation at the intervals of 5182'-5190', 5210'-5230', 5236'-5244', 5256'-5270', 5290'-5300', 5360'-5366', 5510'-5522', 5530'-5538', 5618'-5638', 5658'-5682', 5700'-5708', 5718'-5726', 5750'-5760', 5774'-5780', 5790'-5796', 5868'-5874', 5904'-5914', 5920'-5932', 5956'-5972', 5986'-5994', 6002'-6014', was treated with a sand-water fracturing process on July 20, 1978. The well was shut-in on July 25, 1978, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on August 1, 1978, using the Pitot tube method with an after frac gauge of 2902 MCF/D, with an SIPC of 660 psia and an SIPT of 623 psia. The spacing unit for this well is described as the E/2 of Section 17, Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 20-A, located 1550' from the South line and 1155' from the East line of Section 18, Township 31 North, Range 9
West, N.M.P.M., was spudded on May 29, 1978, and completed on August 10, 1978, at a plugged back total depth of 6105'. The Mesaverde formation at the intervals of 4919!, 5163', 5182', 5209', 5227', 5237', 5255', 5265', 5287', 5351', 5360', 5392', 5421', 5451', 5463', 5481', 5491', 5523', 5541', 5581', 5586', 5592', 5604', 5609', 5635', 5655', 5659', 5663', 5667', 5675', 5680', 5685', 5699', 5719', 5723', 5727', 5750', 5797', 5837', 5911', 5963', was treated with a sand-water fracturing process on July 30, 1978. The well was shut-in on August 2, 1978, and after being shut-in for eight (8) days, the Mesaverde Formation was tested on August 10, 1978, using the Pitot tube method with an after frac gauge of 3500 MCF/D, with an SIPC of 734 psia and an SIPT of 450 psia. The spacing unit for this well is described as the E/2 of Section 18, Township 31 North, Range 9 West, N.M.P.M.

Unit Well No. 21-A, located 1750' from the North line and 1480' from the West line of Section 11, Township 31 North, Range 10 West, N.M.P.M., was spudded on April 24, 1978, and completed - on November 7, 1978, at a total depth of 5678'. The Mesaverde formation at the intervals of 4510', 4608', 4648', 4655', 4757', 4780', 4803', 4822', 4835', 4840', 4846', 4855', 4872', 4877', 4959', 4996', 5028', 5049', 5055', 5101', 5107', 5219', 5225', 5231', 5237', 5244', 5249', 5254', 5264', 5270', 5276', 5282', 5288', 5310', 5332', 5342', 5366', 5389', was treated with a sand-water fracturing process on October 12, 1978 and October 14, 1978. The well was shut-in on October 19, 1978, and after being shut-in for nineteen (19) days, the absolute open flow from the

Mesaverde Formation was calculated from meter readings on November 7, 1978, at 12,880MCF/D, with an SIPC of 582 psia and an SIPT of 582 psia. The spacing unit for this well is described as the W/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 22-A, located 830' from the North line and 1080' from the West line of Section 14. Township 31 North. Range 10 West, N.M.P.M., was spudded on November 11, 1978, and completed on December 11, 1978, at a plugged back total depth of 5686'. The Mesaverde formation at the intervals of 4683', 4695', 4802', 4814', 4833', 4853', 4858', 4870', 4876', 4882', 4888', 4894', 4908', 4914', 4920', 4924', 4941', 4995', 5047', 5149', 5161', 5176', 5290', 5296', 5303', 5308', 5314', 5330', 5336', 5341', 5357', 5361', 5382', 5400', 5439', 5468', 5502', 5531', 5554', 5573', 5591', 5608', 5612', 5615', 5639', 5684', was treated with a sand-water fracturing process on November 27, 1978. The well was shut-in on November 30, 1978, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on December 11, 1978, using the Pitot tube method with an after frac gauge of 3333 MCF/D, with an SIPC of 598 psia and an SIPT of 598 psia. The spacing unit for this well is described as the W/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 28-A, located 1835' from the North line and 1660' from the West line of Section 26, Township 32 North, Range 10 West, N.M.P.M., was spudded on August 24, 1978, and completed on October 17, 1978, at a plugged back total depth of 6466'. The Mesaverde formation at the intervals of 5695', 5707', 5719', 5729', 5743', 5749', 5795', 5801', 5856', 5949', 5953', 5965', 5970', 5995', 5999', 6105', 6109', 6129', 6133', 6137', 6151', 6155', 6159', 6183', 6188', 6207', 6222', 6245', 6303', 6335', 6357', was treated with a sand-water fracturing process on October 3, 1978. The well was shut-in on October 6, 1978, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on October 17, 1978, using the Pitot tube method with an after frac gauge of 1587 MCF/D, with an SIPC of 712 psia and an SIPT of 224 psia. The spacing unit for this well is described as the W/2 of Section 26, Township 32 North, Range 10 West, N.M.P.M.

Unit Well No. 31-A, located 1490' from the North line and 865' from the West line of Section 13, Township 31 North, Range 10 West, N.M.P.M., was spudded on October 23, 1978, and completed on May 30, 1979, at a plugged back total depth of 5826'. The Mesaverde formation at the intervals of 3372'-3407', 4664'-4672', 4733'-4737', 4806'-4813', 4900'-4919', 4952'-4964', 4968'-4989', 4994'-5008', 5101'-5113', 5123'-5129', 5156'-5161', 5243'-5253', 5268'-5276', 5283'-5290', 5313'-5318', 5392'-5409',

5409'-5426', 5432'-5441', 5455'-5475', 5501'-5508', 5534'-5540', 5566'-5574', 5601'-5621', 5644'-5660', 5668'-5679', 5690'-5696', 5706'-5720', 5780'-5786', was treated with a sand-water fracturing process on May 14, 15 and 16, 1979. The well was shut-in on May 23, 1979, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on May 30, 1979, using the Pitot tube method with an after frac gauge of 3466 MCF/D, with an SIPC of 727 psia and an SIPT of 727 psia. The spacing unit for this well is described as the W/2 of Section 13, Township 31 North, Range 10 West, N.M.P.M.

Unit Well No. 34-A, located 800' from the North line and 1135' from the West line of Section 35, Township 32 North, Range 10 West, N.M.P.M., was spudded on April 26, 1978, and completed on July 17, 1978, at a plugged back total depth of 5733'.

The Mesaverde formation at the intervals of 4816', 4876', 4885', 4889', 4910', 4924', 4930', 4934', 4938', 4942', 4993', 4998', 5003', 5056', 5061', 5078', 5264', 5273', 5282', 5292', 5300', 5306', 5310', 5316', 5323, 5332', 5359', 5365', 5371', 5383', 5406', 5445', 5463', 5481', 5491, 5522', 5537', 5581', 5601', 5615', 5636', was treated with a sand-water fracturing process on July 6, 1978. The well was shut-in on July 8, 1978, and after being shut-in for nine (9) days, the Mesaverde Formation was tested on July 17, 1978, using the Pitot tube method with an after frac gauge of 2279 MCF/D, with an SIPC of 666 psia and an SIPT of 663 psia. The spacing unit for this well is described as the W/2 of Section 35, Township 32 North, Range 10 West, N.M.P.M.

Unit Well No. 43-A, located 1150' from the North line and 1055' from the West line of Section 2, Township 31 North, Range 10 West, N.M.P.M., was spudded on April 17, 1978, and completed on July 13, 1978, at a plugged back total depth of 5619'. The Mesaverde formation at the intervals of 4440'. 4446'. 4546'. 4584', 4680', 4691', 4734', 4742', 4750', 4764', 4776', 4784', 4792', 4800', 4808', 4847', 4854', 4915', 4922', 4934', 4998', 5006', 5014', 5022', 5053', 5116', 5129', 5138', 5162', 5168', 5174', 5180', 5186', 5192', 5198, 5210', 5213', 5216', 5228'. 5234', 5240', 5246', 5252', 5266', 5281', 5289', 5329', 5374', 5412', 5454', 5462', 5509', was treated with a sand-water fracturing process on July 3, 1978. The well was shut-in on July 5, 1978, and after being shut-in for eight (8) days, the Mesaverde Formation was tested on July 13, 1978, using the Pitot tube method with an after frac gauge of 2167 MCF/D, with an SIPC of 647 psia and an SIPT of 444 psia. The spacing unit for this well is described as the W/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M.

Regulatory Agencies August 13, 1979 Page 6

All fourteen (14) of the drilling blocks for the above-described wells are included within the existing Mesaverde Participating Area; therefore, the Mesaverde Participating Area is not enlarged by these wells.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

James R. Permenter

Manager, Land Contracts

and Titles

Land Department Exploration

JRP:RHN:pw Attachment San Juan 32-9 4.2.1.

cc: Mr. Antonio Martinez

SAN JUAN 32-9 UNIT MESAVERDE WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company

Tom Bolack

Brookhaven Oil Company

Grace Brown

Chevron Oil Company

Koch Industries

Claude Lambe

T. H. McElvain Oil and Gas Properties

Mesa Petroleum Co.

Mabelle M. Miller

Northwest Pipeline Corporation

Southland Royalty Company

Texaco, Inc.



P. O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-543-2600

February 16, 1979

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Offfice Box 2088 Santa Fe, New Mexico 87501 No. 49 8

Re: San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico FOURTH EXPANDED PARTICIPATING AREA Pictured Cliffs Formation Effective December 1, 1978

### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, has determined that the below listed well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation and that the Pictured Cliffs Participating Area should be expanded as follows:

### FOURTH EXPANDED PARTICIPATING AREA - Efective December 1, 1978

Drilling Block	Acres	Well No.
W/2 Sec. 18, T-31-N, R-9-W	205.80	#94

Well No. 94 is located 800' from the south line and 800' from the west line of Section 18, Township 31 North, Range 9 West, N.M.P.M., was spudded on June 19, 1978, and completed on November 8, 1978, at a total depth of 3,692'. The Pictured Cliffs Formation at the intervals of 3,522', 3,525', 3,536', 3,541',

Regulatory Agencies February 16, 1978 Page 2

3,546', 3,553', 3,558', 3,564', 3,567' was treated with sand-water fracturing process on September 19, 1978. The well was shut-in on November 1, 1978, and after being shut-in for seven days, the Pictured Cliffs Formation was tested on November 8, 1978, using the Pitot tube method with an after frac guage of 344 MCF/D, with an SIPC of 731 psia. The spacing unit for this well is described as W/2 of Section 18, Township 31 North, Range 9 West, N.M.P.M., containing 205.8 acres.

Attached is Schedule V showing the Fourth Expanded Participating Area for the Pictured Cliffs Formation for the San Juan 32-9 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of December 1, 1978.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

Íames R. Permenter

Manager, Land Contracts

and Titles

Land Department

Energy Resource Development

JRP:RHN:pw Attachment SJ 32-9, 4.1

### SAN JUAN 32-9 UNIT PICTURED CLIFFS FORMATION WORKING INTEREST OWNERS

Amoco Production Company

Tom Bolack

Brookhaven Oil Company

Northwest Pipeline Corporation

Southland Royalty Co.

# SCHEDULE V T AREA EXPANSION SCHEDULE - SAN JUAN BASIN FOURTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION 21-71 (2-72) SAN JUAN 32-9 UNIT AREA

E 078389-A	E 070016-G	;F 078316-B	AL NUMBER
T-31-N, R-10-W 1200.00 Sec. 11: All Sec. 12: W/2, NE/4, W/2 SE/4	T-31-N, R-10-W 80.00 Sec. 13: S/2 NW/4	T-31-N, R-10-W 120.00 Sec. 13: N/2 NW/4 Sec. 14: SW/4 SW/4	DESCRIPTION NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI;	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.; ORRI;	DRILLING BLOCK
12.500000% 82.500000% 5.000000%	12.500000% 85.500000% 2.000000%	12.500000% 43.750000% 25.520833% 18.229167% .000000%	PERCENTAGE
12.5000008 82.5000008 5.0000008	12.500000% 85.500000% 2.000000% 100.000000%	12.500000% 43.750000% 25.520833% 18.229167% .000000%	PERCENTAGE COMMITTED
41.8462578	2.789751%	4.184626%	PRESENT ACTUAL PARTICIPATION

: 01594	· 0608	F 079909	F 078438	L NOWBER
T-31-N, R-10-W Sec. 13: N/2 SW/4 Sec. 14: N/2 NW/4, SE/4 NW/4, NE/4, N/2 SE/4	T-31-N, R-10-W Sec. 13: S/2 SW/4 Sec. 14: S/2 SE/4	T-31-N, R-10-W Sec. 12: E/2 SE/4	T-31-N, R-9-W Sec. 18: W/2	DESCRIPTION
440.00	160.00	80.00	205.80	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; L. B. Kelly et al; ORRI;	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: Tom Bolack TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	OWNERSHIP DRILLING B
	29-в	. 25	ļ <sub>0</sub>	BLOCK
12.5000008 41.7500008 42.2500008 3.5000008	12.500000% 85.500000% 2.000000% 100.000000%	12.500000% 87.500000% 100.0000000%	12.500000% 74.000000% 13.500000%	PERCENTAGE
6.250000% 41.750000% .000000% 2.000000% 50.000000%	12.5000008 85.5000008 2.0000008 100.0000008	12.500000% 87.500000% 100.000000%	12.500000% 74.000000% 13.500000%	PERCENTAGE COMMITTED
7.671814	5.579501%	2.789751%	7.176633%	PRESENT ACTUAL PARTICIPATION

<

-286-27 -286-19 -70-25 AL NUMBER -3150-1 T-31-N, R-10-W Sec. 2: NE/4: T-31-N, R-10-W Sec. 2: Lot 4 NW/4 SE/4, Lot 1 Sec. 2: SW/4 NW/4, T-31-N, R-10-W Sec. 2: NE/4 SW/4 T-31-N, R-10-W (NE/4 NE/4) (NW/4 NW/4) DESCRIPTION NE/4 SE/4 OF ACRES 120.35 40.00 40.00 40.57 ORRI; Northwest Pipeline Corp.; Working ORRI; Northwest Pipeline Corp.; Working Interest: ORRI; Working ORRI; Working Interest: El Paso Natural Gas Co.; Royalty Royalty Interest; El Paso Natural Gas Co.; Royalty Royalty Interest; OWNERSHIP Interest; Interest; Interest: Interest: DRILLING BLOCK TOTAL TOTAL TOTAL TOTAL TRACT 40 TRACT 36 TRACT 35 TRACT 31 PERCENTAGE 84.500000% 3.000000% 100.000000% 3.0000008 100.0000008 100.000000€ 82.5000008 84.5000008 84.5000008 12.5000008 12.500000% 12.5000008 12.5000008 5.0000008 3.000000% 3.000000% 82.5000008 5.0000008 84.500000% 3.000000% 100.0000008 100.000000 100.0000008 PERCENTAGE COMMITTED 12.500000% 12.500000% 84.5000008 84.5000008 12.5000008 12.500000% 3.0000008 PRESENT ACTUAL PARTICIPATION 4.196831% 1.394875% 1.394875 1.414752%

### SCHEDULE Page 4 <

. 11133-28	11124-26	·5843	-5318	L NCWBE'S
T-31-N, R-10-W Sec. 2: SE/4 SE/4	T-31-N, R-10-W Sec. 2: SW/4 SE/4	T-31-N, R-10-W Sec. 2: SE/4 NW/4, SE/4 NE/4	T-31-N, R-10-W Sec. 2: NN/4 SW/4	DESCRIPTION O
40.00	40.00	80.00	40.00	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORPI;	Royalty Interest; Working Interest: El Paso Natural Gas Co.; TOTAL	Royalty Interest; Working Interest: Aztec Oil & Gas Co.; TOTAL	OWNERSHIP DRILLING BLOCK
12.500000% 85.000000% 2.500000% 100.000000%	12.500000% 85.000000% 2.500000% 100.0000000%	12.500000% 87.500000%	12.500000% 87.500000% 100.000000%	PERCENTAGE
12.500000% 85.000000% 2.500000% 100.000000%	12.500000% 85.000000% 2.500000%	12.500000% 87.500000% 100.0000000%	12.500000% 87.500000%	PERCENTAGE
1.394875	1.394875%	2.789751%	1.394875%	PRESENT ACTUAL PARTICIPATION

<

PARTICIPATION

4.1846268

ŏ IL NOMBER -11370-42 -11133-32-11133-31T-31-N, R-10-W Sec. 2: Lot 3 T-31-N, R-10-W Sec. 2: S SW/4 NE/4 Sec. 14: SW/4 NW/4 Sec. 2: Lot 2 T-31-N, R-10-W 了31-N, 平10-W (NE/4 NW/4) (NW/4 NE/4) DESCRIPTION S/2 SW/4, NUMBER OF ACRES 120.00 40.00 40.49 40.43 ORRI; ORRI; Northwest Pipeline Corp.; Working Interest: Royalty Interest; ORRI; Brookhaven Oil Co.; Amoco Production Co.; El Paso Natural Gas Co.; Working Interest: Royalty Interest; Northwest Pipeline Corp.; Working Interest: Royalty Interest; Northwest Pipeline Corp.; Working Interest: Royalty Interest; OWNERSHIP DRILLING BLOCK TOTAL TOTAL TOTAL TOTAL TRACT 63 TRACT 61 TRACT 68 TRACT 60 PERCENTAGE 100.0000008 100.0000008 100.0000008 100.0000008 84.5000008 87.500000% 84.5000008 43.750000% 12.5000008 19.140625% 24.609375% 12.5000008 12.500000% 12.500000% 3.0000008 3.000000% \$000000 PERCENTAGE COMMITTED 8000000 100.0000008 100.0000008 100.000008 84.5000008 43.750000% 84.5000008 87.500000% 24.609375% 12.500000% 12.500000% 19.140625% 12.5000008 12.500000% 3.0000008 3.000000% .0000008

1.409870%

1.394875%

1.411962%

### SCHEDULE V Page 6

AL NOMBER	DESCRIPTION	NUMBER	DRILLING BLOCK		PERCENTAGE	PRESENT ACTUAL
2 0 3 0	00 7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	OF ACRES	OWNERSHIP PE	ERCENTAGE	COMMITTED	PARTICIPATION
			TRACT 68-A			
ee	T-31-N, R-10-W Sec. 14: E/2 SW/4	80.00	Royalty Interest;	12.500000%	12.500000%	2.789750%
	7(C) +11. 1/4 On/1		El Paso Natural Gas Co.;	43.750000%	43.750000%	
			Amoco Production Co.;	24.609375%	24.609375%	
			Brookhaven Oil Co.;	19.140625%	19,140625%	
			ORRI;	\$000000\$	\$000000	
			TOTAL	8000000	100.0000008	
			-84 LV48L			
?ee	T-31-N, R-10-W Sec. 14: NV/4 SW/4	40.00 4	Royalty Interest; Working Interest:	12.500000%	12.500000%	1.394875%
			El Paso Natural Gas Co.;	43.500000%	43.500000%	
			Amoco Production Co.;	24.468750%	24.468750%	
			Brookhaven Oil Co.;	19.031250%	19.031250%	
			CRRI;	-500000%	.500000%	
			TOTAL	\$000000 • 00T	*0000000	

### Effective December 1, 1978

## RECAPITUATION FOURTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

## Description of Lands in Participating Area

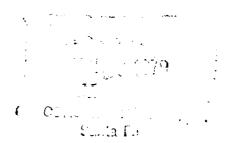
Total Number of Acres in Participating Area: Total Number of Acres Committed in Participating Area:					Section 18: 17/2	T-31-N, R-9-W, N.M.P.M.
ipating Area: l in Participati	Section 14:	Section 13:	Section 12:	Section 11:	Section 2:	H-31-N, R-10-W, N.M.P.M
ng Area:	Al 1	W/2	Al l	A11	All	W, N.M.P
3,087.64 2,867.64					-	2

### January 23, 1979

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501



### Gentlemen:

The 1979 Drilling Program for the below listed units were approved by the regulatory bodies on the dates indicated:

	<u>Unit</u>	<u>usgs</u>	CPL	OCC
540	San Juan 27-5	1-17-79	1-10-79	1-11-79
553	San Juan 28-5	1-17-79	N/A	1-11-79
445	San Juan 28-7	1-17-79	1-10-79	1-11-79
493	San Juan 30-6	1-17-79	1-10-79	1-11-79
1498	San Juan 32-9	1-17-79	1-10-79	1-16-79
541	Canyon Largo	1-17-79	1-10-79	1-11-79
299	Rincon	1-17-79	1-10-79	1-11-79

Copies of this letter are being sent to the working interest owners of the above units.

Very truly yours,

R. H. Nordhausen Senior Landman

Land Department

Energy Resource Development

RHN: pw

SJ 27-5, 3.0; SJ 28-5, 3.0; SJ 28-7, 3.0;

SJ 30-6, 3.0; SJ 32-9, 3.0; Canyon Largo, 3.0;

Rincon, 3.0 Attachment

### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (3) Attention: Mr. T. M. Curtis Denver, Colorado 80202

Amoco Production Company Attention: Mr. L. O. Speer, Jr. Farmington, New Mexico 87401

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Ralph W. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Robert S. MacDonald, Angus MacDonald and the Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

Mrs. Catherine B. McElvain

T. H. McElvain, Jr.

T. H. McElvain Oil and Gas Prop.

Mesa Petroleum Co. (2)

Mabelle Miller

Northwest Pipeline Corporation Attention: Mr. J. W. Shepardson Denver, Colorado 80202

Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Phillips Petroleum Company

Nora R. Ranney

Mr. James M. Raymond

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Shaw, Isham and Company

Elizabaeth B. Simpson Trust

Mr. William Simpson

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

Estate of R. Douglas Stuart, Dec'd. c/o H. Tom DeWees
First National Bank of Chicago

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Miss Mary S. Zick

### OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

### January 16, 1979

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

Attention: D. N. Canfield

Re: Case No. 498
San Juan 32-9 Unit
1979 Drilling Program

### Gentlemen:

.

We hereby approve the 1979 Drilling Program for the San Juan 32-9 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Drilling Program is returned herewith.

Yours very truly,

JOE D. RAMEY Director

JDR/LT/fd enc.

cc: U.S.G.S. - Roswell
Commissioner of Public Lands



### United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124 Albuquerque, New Mexico 87125

JAN 17 1979

El Paso Hatural Gas Company Attention: Hr. D. N. Canfield P. O. Box 1492 El Paso, Texas 79978

No. 498

Three approved copies of your 1979 plan of development for the San Juan 32-9 unit area, Rio Arriba County, New Mexico, are Gentlemen: enclosed. Such plan, proposing the drilling of ten Mesaverde wells and six Pictured Cliffs wells, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico. Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

011 and Gas Supervisor. SRMA

Enclosures (3)

cc: NMOCD, Santa Fe (1tr. only) NMOCD, Santa Fe (1tr. only) Com. Pub. Lands, Santa Fe (1tr. only)

### State of New Mexico



ALEX J. ARMIJO COMMISSIONER



### Commissioner of Public Lands

January 10, 1979

P. O. BOX 1148 SANTA FE, NEW MEXICO

E1 Paso Natural Gas Company P. O. Box 1492 E1 Paso, Texas 79978

m. 498

Re: San Juan 32-9 Unit
Rio Arriba County, New Mexico
1979 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1979 Drilling Program for the San Juan 32-9 Unit, Rio Arriba County, New Mexico. Such plan provides for the of Ten Mesaverde wells and Six Pictured Cliffs wells. Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

ALEX J. ARMIJO COMMISSIONER OF PUBLIC LANDS

BY: RAY D. GRAHAM, Director Oil and Gas Division

AJA/RDG/s encls.

cc:

OCD-Santa Fe, New Mexico USGS-Rowell, New Mexico USGS-Albuquerque, New Mexico

JAN -8 B



C. CONSERVATION COMMIC Santa Fe

P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

January 4, 1979

Regional Oil & Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

no. 498 • Approve

Re: San Juan 32-9 Unit #14-08-001-569 Rio Arriba County, New Mexico 1979 DRILLING PROGRAM

### Gentlemen:

By letter dated January 12, 1978, El Paso Natural Gas Company, as Unit Operator of the San Juan 32-9 Unit, filed a Drilling Program covering the subject Unit for the calendar year 1978. This Program provided for the drilling of 8 Pictured Cliffs Wells and 14 Mesaverde wells within the existing Mesaverde Participating Area.

Pictured Cliffs well #95 which was within the existing Pictured Cliffs Participating Area was completed as a well capable of producing unitized substances in paying quantities. Pictured Cliffs wells #82, 83, 91, 96 & 97 were completed as wells capable of producing unitized substances in paying quantities, causing the second expansion of the Pictured Cliffs Participating Area.

Pictured Cliffs well #93 was completed as a well capable of producing unitized substances in paying quantities, causing the third expansion of the Pictured Cliffs Participating Area.

Pictured Cliffs well #94 has been drilled and is currently being evaluated to determine whether it is a well capable of producing unitized substances in paying quantities so as to cause an expansion of the Pictured Cliffs Participating Area.

Page Two

All of the Mesaverde wells have been drilled and all, except for well #31A, have also been completed.

As of this date, the total number of wells in the San Juan 32-9 Unit is as follows:

Pictured Cliffs	8
Pictured Cliffs (being evaluated)	1
Dual Nacimiento/Pictured Cliffs, Commercial	. 1
Mesaverde, Commercial	81
Mesaverde, Non-Commercial	5
Mesaverde, waiting on completion	1
Mesaverde, Plugged & Abandoned	2
Mesaverde, Temporarily Abandoned	1
Mesaverde/Dakota Dual	
(plugged back to MV)	1
(plugged and abandoned)	1
Dakota, Non-Commercial	1
Fruitland, Temporarily Abandoned	2
	106

Pursuant to Section 10 of the San Juan 32-9 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of the following wells during the calendar year 1979.

Well No.	Drilling Block	Formation
5A	W/2 Sec. 15, T-31-N, R-9-W	Mesaverde
16A	E/2 Sec. 8, T-31-N, R-9-W	Mesaverde
18A	W/2 Sec. 17, T-31-N, R-9-W	Mesaverde
23A	W/2 Sec. 5, T-31-N, R-9-W	Mesaverde
29A	W/2 Sec. 36, T-32-N, R-10-W	Mesaverde
30A	E/2 Sec. 36, T-32-N, R-10-W	Mesa <b>verde</b>
32A	W/2 Sec. 31, T-32-N, R-9-W	Mesaverde
33A	W/2 Sec. 6, T-31-N, R-9-W	Mesaverde
38A	E/2 Sec. 35, T-32-N, R-10-W	Mesaverde
42A	E/2 Sec. 6, T-31-N, R-9-W	Mesaverde
85	W/2 Sec. 13, T-31-N, R-10-W	Pictured Cliffs
90	W/2 Sec. 11, T-31-N, R-10-W	Pictured Cliffs
92	E/2 Sec. 14, T-31-N, R-10-W	Pictured Cliffs
98	W/2 Sec. 2, T-31-N, R-10-W	Pictured Cliffs
99	E/2 Dec. 11, T-31-N, R-10-W	Pictured Cliffs
100	W/2 Sec. 12, T-31-N, R-10-W	Pictured Cliffs

All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners, believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset well's required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

January 4, 1979 Page Three

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

D. N. Canfield gr

Director of Land

Energy Resource Development

DNC/RHN/sfg Attachments San Juan 32-9 Unit 3.0

APPROVED:	DATE:
Regional Oil & Gas Supervisor United States Geological Survey	
Subject to like approval by the	
Commissioner of Public Lands and	
the Oil Conservation Commission	
APPROVED:	DATE:
Commissioner of Public Lands	
Subject to like approval by the United States Geological Survey	
and the Oil Conservation Commission	
1 mg	. 1
APPROVED:	DATE: <u>///6/79</u>
Oil Conservation Commission	
Subject to like approval by the United States Geological Survey	

The foregoing approvals for the 1979 Drilling Program for the San Juan 32-9 Unit #14-08-001-569, Rio Arriba County, New Mexico.

#### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (3) Attention: Mr. T. M. Curtis Denver, Colorado 80202

Amoco Production Company Attention: Mr. L. O. Speer, Jr. Farmington, New Mexico 87401

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago
Trustee for Trust No. 23949

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Eleanor Isham Dunne

Mr. Charles W. Farnham

Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Ralph W. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

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Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Catherine Harvey

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries. Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Robert S. MacDonald, Angus MacDonald and the Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

Mrs. Catherine B. McElvain

T. H. McElvain, Jr.

T. H. McElvain Oil and Gas Prop.

Mesa Petroleum Co. (2)

Mabelle Miller

Northwest Pipeline Corporation Attention: Mr. J. W. Shepardson Denver, Colorado 80202

Northwest Pipeline Corporation Mr. F. H. Woods, Manager Fammington, New Mexico 87401

Phillips Petroleum Company

Nora R. Ranney

Mr. James M. Raymond

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Shaw, Isham and Company

Elizabaeth B. Simpson Trust

Mr. William Simpson

Scothland Royalty Company

A. Sydney Stein, Jr.

🤲 John Stuart

Estate of R. Douglas Stuart, Dec'd. c/o H. Tom DeWees
First National Bank of Chicago

Mr. William P. Sutter

leumeco Oil Company

Teraco, Inc.

Yav B. Towle

arust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Miss Mary S. Zick



P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

December 1, 1978

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501 ns. 49 8

Re: San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico THIRD EXPANDED PARTICIPATING AREA Pictured Cliffs Formation Effective November 1, 1978

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, has determined that the below listed well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation and that the Pictured Cliffs Participating Area should be expanded as follows:

#### THIRD EXPANDED PARTICIPATING AREA - Effective November 1, 1978

Drilling Block	Acres	Well No.
E/2 Sec. 12, T-31-N, R-10-W	320.00	#93

Pertinent data on the San Juan 32-9 Unit #93 is as follows:

Well No. 93 is located 955' from the South line and 1460' from the East line of Section 12, Township 31 North, Range 10 West, N.M.P.M., was spudded on July 9, 1978, and completed on October 5, 1978, at a plugged back depth of 3570'. The Pictured Cliffs Formation at the intervals of 3388', 3394', 3409', 3422', 3428', 3432', 3440' and 3445' was treated with a sand-water fracturing process on September 19, 1978. The well was shut-in on September 28, 1978, and after being shut-in for seven days, the Pictured Cliffs Formation was tested on October 5, 1978, using the Pitot tube method with an after frac guage of 1587 MCF/D, with an SIPC of 759 psia. The spacing unit for this well is described as the E/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

Attached is Schedule IV showing the Third Expanded Participating Area for the Pictured Cliffs Formation for the San Juan 32-9 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of November 1, 1978.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

James R. Permenter

Manager, Land Contracts

Jame & Rement

and Titles

Land Department

Energy Resource Development

JRP:RHN:pw Attachment SJ 32-9, 4.1

# SCHEDULE IV T AREA EXPANSION SCHEDULE - SAN JUAN BASIN THIRD EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

SF 078389-A T-31- Sec. Sec. W	SF 078316-G T-31-	3F 078316-B T-31- Sec. Sec.	HAL NUMBER DES
T-31-N, R-10-W 1 Sec. 11: A11 Sec. 12: W/2, NE/4, W/2 SE/4	T-31-N, R-10-W Sec. 13: S/2 NW/4	T-31-N, R-10-W Sec. 13: N/2 NW/4 Sec. 14: SW/4 SW/4	DESCRIPTION O
200.00	80.00	120.00	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.; ORRI; TOTAL	DRILLING BLOCK
12.500000% 82.500000% 5.000000%	12.500000% 85.500000% 2.000000%	12.500000% 43.750000% 25.520833% 18.229167% .000000%	PERCENTAGE
12.500000% 82.500000% 5.000000% 100.000000%	12.500000% 85.500000% 2.000000% 100.000000%	12.500000% 43.750000% 25.520833% 18.229167% .000000%	PERCENTAGE I
45.081597%	3.005440%	4.508160%	PRESENT ACTUAL PARTICIPATION

	7	NUMBER	DRILLING BLOCK	BLOCK	PERCENTAGE	PRESENT ACTUAL
	בוויטר גוד וויכצ	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			TRAC	TRACT 25	·	
F 079909	T-31-N, R-10-W	80.00	Royalty Interest;	12.500000%	12.500000%	3.005440%
	sec. 12: E/2 SE/4		Tom Bolack Tomatal	87.5000008 100.0000008	87.500000% 100.000000%	
			TRAC	TRACT 29		:
M-0608	T-31-N, R-10-W	160.00	Royalty Interest;	12.500000%	12.500000%	6.010880%
	Sec. 14: S/2 SE/4		El Paso Natural Gas Co.; ORRI;	85.500000% 2.000000%	85.500000% 2.000000%	
			OKKL;	10	100.000008	
			TRAC	TRACT 29-B		
M 01594	T-31-N, R-10-W	440.00	Royalty Interest;	12.500000%	6.250000%	8.264960%
	Sec. 14: N/2 NW/4, SF/4 NW/4 NF/4		El Paso Natural Gas Co.;	; 41.750000%	41.750000%	
	N/2 SE/4		ORRI;	<b>⊷</b>	2.0000008	

E-3150-1	E-286-27	E-286-19	E-70-25	RIAL NUMBER
T-31-N, R-10-W Sec. 2: SW/4 NW/4, NW/4 SE/4, Lot 1 (NE/4 NE/4)	T-31-N, R-10-W Sec. 2: NE/4 SW/4	T-31-N, R-10-W Sec. 2: NE/4 SE/4	T-31-N, R-10-W Sec. 2: Lot 4 (NW/4 NW/4)	DESCRIPTION
120.35	40.00	40.00	40.57	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: Northwest Pipeline Corp.; ORRI; TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: Northwest Pipeline Corp.; ORRI;	DRILLING BLOCK
12.500000% 82.500000% 5.000000% 100.000000%	36 12.500000% 84.500000% 3.000000% 100.000000%	12.500000% 84.500000% 3.000000% 100.000000%	12.500000% 84.500000% 3.000000% 100.000000%	OCK PERCENT AGE
12.500000% 82.500000% 5.000000% 100.000000%	12.5000008 84.5000008 3.0000008 100.0000008	12.500000% 84.500000% 3.000000% 100.000000%	12.500000% 84.500000% 3.000000% 100.000000%	PERCENTAGE COMMITTED
4.521308%	1.502720%	1.502720%	1.524133%	PRESENT ACTUAL PARTICIPATION

в-11133-28	B-11124-26	E-5843	E-5318	MAL NUMBER
T-31-N, R-10-W Sec. 2: SE/4 SE/4	T-31-N, R-10-W Sec. 2: SW/4 SE/4	T-31-N, R-10-W Sec. 2: SE/4 NW/4, SE/4 NE/4	T-31-N, R-10-W Sec. 2: NW/4 SW/4	DESCRIPTION
40.00	40.00	80.00	40.00	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI;	Royalty Interest; Working Interest: El Paso Natural Gas Co.; TOTAL	Royalty Interest; Working Interest: Aztec Oil & Gas Co.; TOTAL	DRILLING BLOCK
12.500000% 85.000000% 2.500000% 100.000000%	12.500000% 85.000000% 2.500000% 100.000000%	12.5000008 87.5000008 100.0000008	12.500000% 87.500000% 100.000000%	PERCENTAGE
12.500000% 85.000000% 2.500000% 100.000000%	12.500000% 85.000000% 2.500000%	12.500000% 87.500000% 100.000000%	12.500000% 87.500000% 100.000000%	PERCENTAGE COMMITTED
1.502720%	1.502720%	3.005440%	1.502720%	PARTICIPATION

AREA EXPANSION SCHEDULE - SAN JUAN BASIN 21-71 (2-72)

AL NUMBER DESCRIPTION OF ACRES

-11133-31 T-31-N, R-10-W 120.00

° •	-11370-42	-11133-32	-11133-31	1L NUMBER
T-31-N, R-10-W Sec. 14: SW/4 NW/4	T-31-N, R-10-W Sec. 2: Lot 2 (NW/4 NE/4)	T-31-N, R-10-W Sec. 2: Lot 3 (NE/4 NW/4)	T-31-N, R-10-W Sec. 2: S/2 SW/4, SW/4 NE/4	DESCRIPTION
40.00	40.43	40.49	120.00	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.; ORRI; TOTAL	Royalty Interest; Working Interest: Northwest Pipeline Corp.; ORRI; TOTAL	Royalty Interest; Working Interest: Northwest Pipeline Corp.; TOTAL TRACT 63	Royalty Interest; Working Interest: Northwest Pipeline Corp.; ORRI; TOTAL	OWNERSHIP TRACT 60
12.5000008 43.7500008 24.6093758 19.1406258 .0000008	12.5000008 84.5000008 3.0000008 100.0000008	12.500000% 87.500000% 100.000000%	12.500000% 84.500000% 3.000000% 100.000000%	PERCENTAGE
12.500000% 43.750000% 24.609375% 19.140625% .000000%	12.5000008 84.5000008 3.0000008 100.00000008	12.500000% 87.500000% 100.000000%	12.5000008 84.5000008 3.0000008 100.0000008	PERCENTAGE COMMITTED
1.502720%	1.518874%	1.521128%	4.508160%	PRESENT ACTUAL PARTICIPATION

ee		e B	!	AL NUMBER
5-31-N, R-10-W 200. 14: NW/4 SW/4		T-31-N, R-10-W Sec. 14: E/2 SW/4		DESCRIPTION
40.00 4		80.00		NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.; ORRI;	TRACT 68-B	Royalty Interest; Working Interest: El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.; ORRI; TOTAL	TRACT 68-A	OWNERSHIP DRILLING BLOCK
12.500000% 43.500000% 24.468750% 19.031250% .500000%		12.500000% 43.750000% 24.609375% 19.140625% .000000%		PERCENTAGE
12.500000% 43.500000% 24.468750% 19.031250% .500000%	:	12.500000% 43.750000% 24.609375% 19.140625% .000000%		PERCENTAGE COMMITTED
1.502720%		3.005440%		PRESENT ACTUAL PARTICIPATION

## Iffective November 1, 1978

## RECAPITULATION THIRD EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

Description of Lands in Participating Area

T-31-N, R-10-W, N.M.P.M.
Section 2: All
Section 11: All
Section 12: All
Section 13: W/2
Section 14: All

Total Number of Acres in Participating Area: 2881.84
Total Number of Acres Committed in Participating Area: 2661.84

SAN JUAN 32-9 UNIT PICTURED CLIFFS FORMATION WORKING INTEREST OWNERS

Amoco Production Company
Brookhaven Oil Company



P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

December 1, 1978

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico THIRD EXPANDED PARTICIPATING AREA Pictured Cliffs Formation Effective November 1, 1978

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, has determined that the below listed well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation and that the Pictured Cliffs Participating Area should be expanded as follows:

#### THIRD EXPANDED PARTICIPATING AREA - Effective November 1, 1978

Drilling Block	Acres	Well No.
E/2 Sec. 12, T-31-N, R-10-W	320.00	#93

Pertinent data on the San Juan 32-9 Unit #93 is as follows:

Well No. 93 is located 955' from the South line and 1460' from the East line of Section 12, Township 31 North, Range 10 West, N.M.P.M., was spudded on July 9, 1978, and completed on October 5, 1978, at a plugged back depth of 3570'. The Pictured Cliffs Formation at the intervals of 3388', 3394', 3409', 3422', 3428', 3432', 3440' and 3445' was treated with a sand-water fracturing process on September 19, 1978. The well was shut-in on September 28, 1978, and after being shut-in for seven days, the Pictured Cliffs Formation was tested on October 5, 1978, using the Pitot tube method with an after frac guage of 1587 MCF/D, with an SIPC of 759 psia. The spacing unit for this well is described as the E/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

Attached is Schedule IV showing the Third Expanded Participating Area for the Pictured Cliffs Formation for the San Juan 32-9 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of November 1, 1978.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

James R. Permenter

Manager, Land Contracts

Jame & Perment

and Titles

Land Department
Energy Resource Development

JRP:RHN:pw Attachment SJ 32-9, 4.1

SCHEDULE IV T AREA EXPANSION SCHEDULE – SAN JUAN BASIN 1 21-71 (2-72) THIRD EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

SF 078389-A	3F 078316-G	3F 078316-B	IAL NUMBER
T-31-N, R-10-W Sec. 11: All Sec. 12: W/2, NE/4, W/2 SE/4	T-31-N, R-10-W Sec. 13: S/2 NW/4	T-31-N, R-10-W Sec. 13: N/2 NW/4 Sec. 14: SW/4 SW/4	DESCRIPTION
1200.00	<b>4</b> 80.00	120.00 4 /4	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI;	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.; ORRI;	OWNERSHIP
12.500000% 82.500000% 5.000000% 100.000000%	12.500000% 85.500000% 2.000000%	12.500000% 43.750000% 25.520833% 18.229167% .000000%	PERCENTAGE
12.500000% 82.500000% 5.000000% 100.000000%	12.500000% 85.500000% 2.000000% 100.000000%	12.500000% 43.750000% 25.520833% 18.229167% .000000%	PERCENTAGE COMMITTED
45.081597%	3.005440%	4.508160%	PRESENT ACTUAL PARTICIPATION

E-3150-1 T-3 Sec NW,	E-286-27 T-3	E-286-19 T-3	3-/0-25 Sec (NV	ABER
T-31-N, R-10-W Sec. 2: SW/4 NW/4, NW/4 SE/4, Lot 1 (NE/4 NE/4)	T-31-N, R-10-W Sec. 2: NE/4 SW/4	T-31-N, R-10-W Sec. 2: NE/4 SE/4	Sec. 2: Lot 4 (NW/4 NW/4)	DESCRIPTION
120.35	40.00	40.00	40.57	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI;	Royalty Interest; Working Interest: Northwest Pipeline Corp.; ORRI; TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Working Interest; Working Interest; Northwest Pipeline Corp.; ORRI; TOTAL	OWNERSHIP  TRACT 31
12.500000% 82.500000% 5.000000% 100.000000%	12.500000% 84.500000% 3.000000% 100.000000%	12.500000% 84.500000% 3.000000% 100.000000%	ы	PERC
12.500000% 82.500000% 5.000000% 100.000000%	12.500000% 84.500000% 3.000000% 100.000000%	12.500000% 84.500000% 3.000000% 100.000000%	84.5000008 3.0000008 100.0000008	PERCENTAGE COMMITTED
4.521308%	1.502720%	1.502720%	_	PRESENT ACTUAL PARTICIPATION 1 5241338

3-11133-28	}-11124-26	; <del>-</del> 5843	; <del>-5318</del>	IAL NUMBER
T-31-N, R-10-W Sec. 2: SE/4 SE/4	T-31-N, R-10-W Sec. 2: SW/4 SE/4	T-31-N, R-10-W Sec. 2: SE/4 NW/4, SE/4 NE/4	T-31-N, R-10-W Sec. 2: NW/4 SW/4	DESCRIPTION
40.00	40.00	80.00	40.00	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI;	Royalty Interest; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty Interest; Working Interest: El Paso Natural Gas Co.; TOTAL	Royalty Interest; Working Interest: Aztec Oil & Gas Co.; TOTAL	OWNERSHIP DRILLING BLOCK
12.500000% 85.000000% 2.500000%	12.500000% 85.000000% 2.500000% 100.000000%	12.500000% 87.500000% 100.000000%	12.5000008 87.5000008 100.0000008	PERCENTAGE
12.500000% 85.000000% 2.500000%	12.500000% 85.000000% 2.500000%	12.500000% 87.500000% 100.0000000%	12.500000% 87.500000% 100.000000%	PERCENTAGE COMMITTED
1.502720%	1.502720%	3.005440%	1.502720%	PRESENT ACTUAL PARTICIPATION

. ·	-11370-42	-11133-32	-11133-31	AL NUMBER
T-31-N, R-10-W Sec. 14: SW/4 NW/4	T-31-N, R-10-W Sec. 2: Lot 2 (NW/4 NE/4)	T-31-N, R-10-W Sec. 2: Lot 3 (NE/4 NW/4)	T-31-N, R-10-W Sec. 2: S/2 SW/4, SW/4 NE/4	DESCRIPTION
40.00	40.43	40.49	120.00	NUMBER OF ACRES
Royalty Interest; Working Interest: El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.; ORRI; TOTAL	Royalty Interest; Working Interest: Northwest Pipeline Corp.; ORRI;	Royalty Interest; Working Interest: Northwest Pipeline Corp.; TOTAL	Royalty Interest; Working Interest: Northwest Pipeline Corp.; ORRI; TOTAL	DRILLING BLOCK
12.500000% 43.750000% 24.609375% 19.140625% .000000%	12.500000% 84.500000% 3.000000% 100.000000%	12.500000% 87.500000% 100.0000000%	12.500000% 84.500000% 3.000000% 100.0000000%	PERCENTAGE
12.500000% 43.750000% 24.609375% 19.140625% .000000%	12.500000% 84.500000% 3.000000% 100.000000%	12.500000% 87.500000% 100.000000%	12.500000% 84.500000% 3.000000%	PERCENTAGE
1.502720%	1.518874%	1.521128%	4.508160%	PRESENT ACTUAL PARTICIPATION

		NUMBER	DRILLING BLOCK		PERCENTAGE	PRESENT ACTUAL
אר עכאמוייג		OF ACRES	- 1	PERCENT AGE	COMMITTED	PARTICIPATION
			ת פא חדי גפון			
99	T-31-N, R-10-W	80.00		12.500000%	12.500000%	3.005440%
	Sec. 14: E/2 SW/4	•	Working Interest: El Paso Natural Gas Co.;	43.750000%	43.750000%	
			Amoco Production Co.;	24.609375%	24.609375%	
			ORRI;	\$000000	\$000000	
			TOTAL	100.000000%	100.0000008	•
			TRACT 68-B			
<u> </u>	T-31-N, R-10-W	40.00	Royalty Interest;	12.500000%	12.500000%	1.502720%
	200. 14: NW/4 SW/4	4	Working Interest: El Paso Natural Gas Co.;	43.500000%	43.500000%	
			Amoco Production Co.;	24.468750%	24.468750%	
			Brookhaven Oil Co.;	19.031250%	19.031250%	
				\$000008	-5000008	
i			TOTAL	100.000000%	100.0000008	

## Effective November 1, 1978

## RECAPITULATION THIRD EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

Description of Lands in Participating Area

T-31-N, R-10-W, N.M.P.M. Section 2: All Section 11: All

Section 12: Section 13:

Section 14:

Total Number of Acres in Participating Area: 2881.84
Total Number of Acres Committed in Participating Area: 2661.84

SAN JUAN 32-9 UNIT PICTURED CLIFFS FORMATION WORKING INTEREST OWNERS

Amoco Production Company
Brookhaven Oil Company



#### United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

OCT 2 5 1978

Brookhaven Oil Company
Attention: Mr. Thomas B. Scott, Jr.
P. O. Box 1267
Scottsdale, Arizona 35252

No. 498

#### Gentlemen:

In reference to your letter of October 6. 1978, pertaining to the San Juan 32-9 unit, first and second expansion of the Pictured Cliffs participating area, you state that the effective date of the first and second revision of the participating area should be the date of first production.

Section 11(a) of the unit agreement provides that when the initial participating area for the Mesaverde or shallower formation is established, the participating area for the formation from which the well is producing becomes effective as of the date of first production. Section 11(a) further states that additional drilling blocks, after the initial participating area is established, shall be admitted to the participating area on the first day of the month following the month in which it has been established that a well capable of production of unitized substances in paying quantities has been drilled on any such drilling block. Accordingly, the effective dates of the first and second revision of the Pictured Cliffs participating area comply with the contractual terms of the agreement. We can find no basis for changing the effective dates of the first and second revision of the Pictured Cliffs participating area as submitted by the unit operator.

In reply to your inquiry concerning inclusion of tracts 58A and 68B, we are enclosing a copy of Schedule III which shows inclusion of such tracts in the allocation schedule for the second revision, effective October 1, 1978.

Sincerely yours.

(ORIG. SGD.) JAMES W. SUTHERLAND

JAMES W. SUTHERLAND 011 and Gas Supervisor, SRMA

Enclosure

cc:

El Paso Matural Gas Company
Comm. of Public Lands, Santa Fe (letter only)
NMOCD, Santa Fe/(letter only)
District Engineer, Farmington (letter only)

#### BROOKHAVEN OIL COMPANY 18 1978

6900 EAST CAMELBACK ROAD, SUITE 452 SCOTTSDALE, ARIZONA 85251

> (MAIL) P.O. BOX 1267 SCOTTSDALE, ARIZONA 85252

> > PHONE (602) 945-7771

October 16, 1978

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501 n. 498

Re: San Juan 32-9 Unit, #14-08-001-569
San Juan County, New Mexico
SECOND EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective October 1, 1978 and

NOTICE OF COMPLETION OF ADDITIONAL WELL

#### Gentlemen:

Referring to the letter you received from the El Paso Natural Gas Company, Post Office Box 1492, El Paso, Texas 79978, dated October 5, 1978, and pertaining to the above subject, I believe you will agree, and El Paso should be advised, that the new expansion including the new participations should take effect in <u>each</u> case as of the date of first production from the new participating block, instead of on October 1, 1978.

Another error in this letter is Schedule III, wherein tracts 68A and 68B are not included.

As a matter of fact, relative to El Paso's letter of May 12, 1978, the previous expansion from the West half of section 14 to include the West half of section 2, well #89, should be effective as of the date of first production, namely March 1978, rather than November 1, 1977.

Regional Oil and Gas Supervisor Commissioner of Public Lands Oil Conservation Commission

- 2 -

October 16, 1978

To continue, the expansion to the West half of section 11, well #95, should to date not be effective because well #95 has not produced. The Unit Agreement states the above quite clearly in Article 11(a).

Yours very truly,

BROOKHAVEN OIL COMPANY

By: Thomas B. Scott, Jr.

TBS/vwd

cc: Mr. Antonio Martinez
Executive Director
New Mexico Oil & Gas Accounting Commission
Post Office Box 2308
Santa Fe, New Mexico 87501

Mr. James R. Permenter Manager, Land Contracts & Titles Land Department El Paso Natural Gas Company Post Office Box 1492 El Paso, Texas 79978



P. O. BOX 1492 EL PASO, TEXAS 79978

October 5, 1978 301 21 200 PHONE: 915-543-2600

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell. New Mexico 88201

Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

No. 498

San Juan 32-9 Unit, #14-08-001-569 San Juan County, New Mexico SECOND EXPANDED PARTICIPATING AREA

Pictured Cliffs Formation Effective October 1, 1978 and

NOTICE OF COMPLETION OF ADDITIONAL WELL

#### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-659, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, has determined that the below listed wells are capable of producing unitized substances in paying quantites from the Pictured Cliffs Formation and that the Pictured Cliffs Participating Area should be expanded as follows:

#### SECOND EXPANDED PARTICIPATING AREA - Effective October 1, 1978

Drilling Block	<u>Acres</u>	Well No.
E/2 Sec. 2, T-31-N, R-10-W	320.78	#96
E/2 Sec. 11, T-31-N, R-10-W	320.00	#91
W/2 Sec. 12, T-31-N, R-10-W	320.00	#97
W/2 Sec. 13, T-31-N, R-10-W	320.00	#82
E/2 Sec. 14, T-31-N, R-10-W	320.00	#83

Pertinent data on the above wells is as follows:

Unit Well. No. 96 is located 830' from the South line and 1620' from the East line of Section 2, Township 31 North, Range 10 West, N.M.P.M., was spudded on May 9, 1978, and completed on September 13, 1978, at a total depth of 3,344'. The Pictured Cliffs Formation at the intervals of 3,207', 3,213', 3,216', 3,221', 3,242' and 3,257' was treated with a sand-water fracturing process on August 29, 1978. The well was shut-in on September 6, 1978, and after being shut-in for seven days, the Pictured Cliffs Formation was tested on September 13, 1978, using the Pitot tube method with an after frac guage of 943 MCF/D, with an SIPC of 732 psia. The spacing unit for this well is described as the E/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M. containing 320.78 acres.

Unit Well No. 91 is located 1,100' from the South line and 1,500' from the East line of Section 11, Township 31 North, Range 10 West, N.M.P.M., was spudded on August 17, 1978, and completed on September 20, 1978, at a total depth of 3,201'. The Pictured Cliffs Formation at the intervals of 3,031', 3,035', 3,041', 3,045', 3,056', 3,061', 3,066', 3,070', 3,083' and 3,087' was treated with a sand-water fracturing process on September 11, 1978. The well was shut-in on September 13, 1978, and after being shut-in for seven days, the Pictured Cliffs Formation was tested on September 20, 1978, using the Pitot tube method with an after frac guage of 3,300 MCF/D, with an SIPC of 752 psia. The spacing unit for this well is described as the E/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

Unit Well No. 97 is located 1,840' from the South line and 950' from the West line of Section 12, Township 31 North, Range 10 West, N.M.P.M., was spudded on August 16, 1978, and completed on September 13, 1978, at a total depth of 3,301'. The Pictured Cliffs Formation at the intervals of 3,157', 3,163', 3,166', 3,177', 3,183', 3,189', 3,193' and 3,201' was treated with a sand-water fracturing process on August 29, 1978. The well was shut-in on September 6, 1978, and after being shut-in for seven days, the Pictured Cliffs Formation was tested on September 13, 1978, using the Pitot tube method with an after frac guage of 3.734 MCF/D, with an SIPC of 757 psia. The spacing unit for this well is described as the W/2 of Section 12, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

Unit Com Well No. 82 is located 1,070' from the South line and 800' from the West line of Section 13, Township 31 North, Range 10 West, N.M.P.M., was spudded on July 21, 1978, and completed on September 26, 1978, at a total

depth of 3,343'. The Pictured Cliffs Formation at the intervals of 3,206', 3,212', 3,218', 3,224', 3,230', 3,236', 3,243' and 3,247' was treated with a sand-water fracturing process on September 7, 1978. The well was shut-in on September 18, 1978, and after being shut-in for eight days, the Pictured Cliffs Formation was tested on Septmber 26, 1978, using the Pitot tube method with an after frac guage of 1,882 MCF/D, with an SIPC of 760 psia. The spacing unit for this well is described as the W/2 of Section 13, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

Unit Com Well No. 83 is located 1,450' from the South line and 1,800' from the East line of Section 14, Township 31 North, Range 10 West, N.M.P.M., was spudded July 29, 1978, and completed on September 20, 1978, at a total depth of 3,245'. The Pictured Cliffs Formation at the intervals of 3,091', 3,097', 3,103', 3,109', 3,115', 3,121', 3,127', 3,133', 3,171' and 3,179' was treated with a sand-water fracturing process on September 7, 1978. The well was shut-in on September 13, 1978, and after being shut-in for seven days, the Pictured Cliffs Formation was tested on September 20, 1978, using the Pitot tube method with an after frac guage of 3,466 MCF/D, with an SIPC of 731 psia. The spacing unit for this well is described as the E/2 of Section 14, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

Attached is Schedule III showing the Second Expanded Participating Area for the Pictured Cliffs Formation for the San Juan 32-9 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of October 1, 1978.

In addition to the above wells, Unit Well No. 95 has been completed upon acreage committed to the subject unit. Pertinent data on said well is as follows:

The Well is located 810' from the South line and 1,180' from the West line of Section 11, Township 31 North, Range 10 West, N.M.P.M., was spudded on August 25, 1978, and completed on September 20, 1978, at a total depth of 3,181'. The Pictured Cliffs Formation at the intervals of 3,037', 3,040' 3,046', 3,049', 3,052', 3,059', 3,063' and 3,072 was treated with a sandwater fracturing process on September 11, 1978. The well was shut-in for seven days, the Pictured Cliffs Formation was tested on September 20, 1978, using the Pitot tube method with an after frac guage of 3,200 MCF/D, with an SIPC of 722 psia. The spacing unit for this well is described as the

W/2 of Section 11, Township 31 North, Range 10 West, N.M.P.M., containing 320.00 acres.

The spacing unit for this well was included in the San Juan 32-9 Unit, First Expanded Pictured Cliffs Participating Area effective November 1, 1977 as an intervening Drilling Block; the completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

James R. Permenter
Manager, Land Contracts

and Titles Land Department Energy Resource Development

JRP:RHN:pw Attachment San Juan 329 Unit, 4.1

cc: Mr. Antonio Martinez
Executive Director
New Mexico Oil & Gas Accounting Commission
Post Office Box 2308
Santa Fe, New Mexico 87501

SAN JUAN 32-9 UNIT
PICTURED CLIFFS PARTICIPATING AREA
WORKING INTEREST OWNERS

Amoco Production Company

Aztec Oil & Gas Company

Brookhaven Oil Company

L. B. Kelly et al

Northwest Pipeline Corporation

## LI Paso Natural Gas Company UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)

SAN JUAN BASIN
SCHEDULE III
SECOND EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 32-9 UNIT AREA

		NUMBER	DRILLING BLOCK		PERCENTAGE	PRESENT ACTU
SEKIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATIO
			TRACT 2			
F 078316-B	T-31-N, R-10-W	120.00	Royalty Interest;	12,500000%	12,5000008	5.1241768
	Sec. 14: SW/4 SW/4		El Paso Natural Gas Co.; Amoco Production Co.;	43.750000% 25.520833%	43.750000% 25.520833%	
			Brookhaven Oil Co.; ORRI; TOTAL	18.2291678 .00000008 100.0000008	18.2291678 .0000008 100.0000008	
			TRACT 3			
F 078316-G	T-31-N, R-10-W	80.00	Royalty Interest;	12,500000%	12.5000008	3.4161178
				85.500000% 2.000000% 100.000000%	85.5000008 2.0000008 100.0000008	·
			TRACT 5			
F 078389-A	T-31-N, R-10-W	00.096		12.500000%	12,500008	40.9934078
	Sec. 12: W/2		WOLKING INCEREST: El Paso Natural Gas Co.; ORRI; TOTAL	82.5000008 5.0000008 100.0000008	82.5000008 5.0000008 100.0000008	

Effective October 1, 1978

#### Paso Natural Gas Company IIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN m 21-71 (2-72)

PRESENT ACTU	PARTICIPATION		6.832234%			9.3943228			1.732398%
PERCENTAGE	COMMITTED		12.500008	85.500000% 2.0000008 100.0000008		6.250008	41.750000% .000000% 2.000000% 50.000000%	٠	12.500008 84.5000008 3.0000008 100.0000008
ス	PERCENTAGE		12,500000%	85.500000% 2.000000% 100.000000%		12,500000%	41.750000% 42.250000% 3.500000% 100.000000%		12.5000008 84.5000008 3.0000008 100.0000008
DRILLING BLOCK	OWNERSHIP	TRACT 29	Royalty Interest;	working interest: El Paso Natural Gas Co.; ORRI;	TRACT 29-B	Royalty Interest;	WOLKING INCELESC: El Paso Natural Gas Co.; L. B. Kelly et al; ORRI;	TRACT 31	Royalty Interest: Working Interest: Northwest Pipeline Corp.; ORRI;
NUMBER	OF ACRES		160.00			440.00			40.57
2011			T-31-N, R-10-W	Sec. 13: S/2 SW/4 Sec. 14: S/2 SE/4		T-31-N, R-10-W	Sec. 13: N/2 SW/4 Sec. 14: N/2 NW/4, SE/4 NW/4, NE/4, N/2 SE/4		T-31-N, R-10-W Sec. 2: Lot 4 (NW/4 NW/4)
			8090			01594		·	70-25

Effective October 1, 1978

## 350 Natural Gas Company IT AREA EXPANSION SCHEDULE — SAN JUAN BASIN n 21-71 (2-72)

L		NUMBER	DRILLING BLOCK	¥	PERCENTAGE	PRESENT ACTU
	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			TRACT 35			
17	T-31-N, R-10-W	40.00	Royalty Interest;	12.500000%	12.500000%	1.708059%
S S	• 2: NE/4 SE/4	<b>4</b> ,	working interest: El Paso Natural Gas Co.; ORRI;	84.5000008 3.0000008 100.0000008	84.500000% 3.000000% 100.000000%	
			TRACT 36			
5	T-31-N, R-10-W	40.00	Royalty Interest;	12.500000%	12.50000%	1.708059%
) )	/wc 4 2m	<del>4</del> ,	working interest: Northwest Pipeline Corp.; ORRI; TOTAL	84.500000% 3.000000% 100.000000%	84.5000008 3.0000008 100.0000008	
•			TRACT 40			
	T-31-N, R-10-W	120.35		12.500000%	12,500000%	5.139121%
N R E	Sec. 2: SW/4 NW/ NW/4 SE/4,LOt 1 (NE/4 NE/4)	<b>.</b>	WOLKLING INCELEST: El Paso Natural Gas Co.; ORRI; TOTAL	82.5000008 5.0000008 100.0000008	82.5000008 5.0000008 100.0000008	
			TRACT 47			
티	T-31-N, R-10-W	40.00	Royalty Interest;	12,500000%	12,500000%	1.708059%
Ř	C. Z. NW/4 5W/	<b>4</b>	working interest: Aztec Oil & Gas Co.; TOTAL	87.500000%	87.500000% 100.000000%	

JNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN om 21-71 (2-72)

SCHEDULE III Page 4

PRESENT ACTU. PARTICIPATION 3.4161178 1.708059% 1.708059% 5.1241768 PERCENTAGE COMMITTED 87.5000008 100.00000008 85.0000008 2.5000008 100.0000008 3.0000008 12,5000008 12,500000% 12.500000% 85.0000008 2,500000% 100,0000008 12.500000% 84.5000008 87.5000008 85.0000008 2.5000008 100.0000008 2.5000008 3.0000008 PERCENTAGE 12,5000008 12,500000% 12,5000008 85.0000008 12.500000% 84.500000% DRILLING BLOCK TOTAL TOTAL TOTAL TOTAL TRACT 55 TRACT 59 TRACT 60 TRACT 51 Northwest Pipeline Corp.; El Paso Natural Gas Co.; El Paso Natural Gas Co.; El Paso Natural Gas Co.; OWNERSHIP Royalty Interest; Working Interest: Interest; Interest: Royalty Interest; Working Interest: Working Interest: Royalty Interest; Royalty Working ORRI; ORRI; ORRI; NUMBER OF ACRES 80.00 40.00 40.00 120.00 Sec. 2: SE/4 NW/4 Sec. 2: SW/4 SE/4 SE/4 SE/4 T-31-N, R-10-W Sec. 2: S/2 SW/4, DESCRIPTION T-31-N, R-10-W T-31-N, R-10-W R-10-W SE/4 NE/4 SW/4 NE/4 T-31-N, Sec. 2: ERIAL NUMBER 11124-26 11133-28 11133-31 5843

Effective October 1, 1978

			DRILLING BLOCK	Υ.	PERCENTAGE	PRESENT ACTU
ERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATIO
			TRACT 61			·
11133-32	T-31-N, R-10-W	40.49	Royalty Interest;	12.500000%	12.500000%	1.728982%
	(NE/4 NW/4)		working interest: Northwest Pipeline Corp.; TOTAL	87.5000008 100.0000008	87.5000008 100.0000008	
			TRACT 63			
11370-42	T-31-N, R-10-W	40.43	Royalty Interest;	12.5000008	12.500000%	1.726420%
	Sec. 2: LOC 2 (NW/4 NE/4)		working interest: Northwest Pipeline Corp.; ORRI; TOTAL	84.5000008 3.0000008 100.0000008	84.5000008 3.0000008 100.0000008	
			TRACT 68			
Ф	T-31-N, R-10-W 40.00	40.00	Royalty Interest;	12,500000%	12,5000008	1.708059%
	Sec. 14: SW/4 NW/	<b>್</b>	Working interest: El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.; ORRI;	43.750000% 24.609375% 19.140625% .000000% 100.000000%	43.7500008 24.6093758 19.1406258 .0000008 100.0000008	
						-

Effective October 1, 1978

## aso Natural Gas Company IT AREA EXPANSION SCHEDULE — SAN JUAN BASIN n 21-71 (2-72)

SCHEDULE III Page 6

		MIMORD	XOO III UNI I IIQU		0 0 4 F Z U C Q U Q	DDESENT ACTION
MAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			TRACT 68-A			
벍	T-31-N, R-10-W	80.00	Royalty Interest;	12,500000%	12,500000%	3.4161178
<b></b>	Sec. 14: E/2 SW/4	_	WCIKING INCEREST: El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.;	43.7500008 24.6093758 19.1406258	43.750000% 24.609375% 19.140625%	
	,			.0000008 100.0000008	.0000008 100.0000008	
			TRACT 68-B			
타)	T-31-N, R-10-W	40.00	Royalty Interest;	12,500000%	12,500000%	1.708059%
<i>.</i>	Sec. 14: NW/4 SW/4	<b>4</b>	Working interest:  El Paso Natural Gas Co.;  Amoco Production Co.;  Brookhaven Oil Co.;  ORRI;	43.500000% 24.468750% 19.031250% .500000%	43.500008 24.4687508 19.0312508 .500008 100.0000008	

# SECOND EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

Description of Lands in Participating Area

T-31-N, R-10-W, N.M.P.M. Section 2:

All W/2 W/2 All Section 11: Section 12:

Section 13: Section 14:

Total Number of Acres in Participating Area: Total Number of Acres Committed in Participating Area:

2,561.84 2,341.84

Effective October 1, 1978



### United States Department of the Inferior 1978

### GEOLOGICAL SURVEY

P. O. Box 26124 Albuquerque, New Mexico 87125

**JUL** 3 1 1978

Mr. Thomas B. Scott, Jr. Brookhaven Oil Company P. O. Box 1267 Scottsdale, Arizona 85252

no. 498

Dear Mr. Scott:

Your letter of July 21, 1978, with enclosures, requested this office to deny approval of the first revision of the Pictured Cliffs participating area for the San Juan 32-9 unit, San Juan County, New Mexico.

Section 11 of the unit agreement provides that when the unit operator determines that a well is completed in the Mesaverde and shallower formations capable of producing unitized substances in paying quantities, they will provide a notice of the determination identifying the Drilling Block or Blocks affected to the Supervisor, the Commissioner, and the Commission. This Section further provides the right for any interested party to protest in writing against said determination to the Unit Operator, the Director, the Commissioner, and the Commission within 15 days. However, the determination shall become effective within 30 days from the date of notice unless disapproved within said 30-day period by the Director, Commissioner, or Commission.

The unit operator, El Paso Natural Gas Company, provided the required notice of their determination of well No. 89 and described the Drilling Blocks affected in their letter dated May 12, 1978. This notice was received in our office May 17, 1978 and was duly noted as acceptable by this office on June 19, 1978.

The enclosures with your letter to this office contains copies of your protest to the unit operator, Amoco Production Company, a working interest owner and the Commissioner of Public Lands, all dated July 6, 1978. This appears to be the earliest recorded date of your protest which is not within the time frame provided by the agreement.

Section 11 of the agreement also provides that when any drilling block for the Mesaverde and shallower formations is admitted to a participating area that lies directly north, south, east or west of any drilling block already included in that participating area and where there is only one intervening drilling block on which no well has then been drilled, that

intervening Drilling Block shall also be admitted to the participating area at the same time and in the same manner as the drilling block, which is then admitted to the participating area by reason of the completion of a well thereon capable of producing unitized substances in paying quantities. (The intervening drilling block will require the drilling of a well within one year from the effective date of its inclusion in the participating area.)

Accordingly, the lands included in the first revision of the Pictured Cliffs participating area comply with the contractural terms of the agreement.

We can find no basis for denial of the first revision of the Pictured Cliffs participating area as submitted by the unit operator in their letter of May 12, 1978.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Oil and Gas Supervisor, SRMA

El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

Com. Pub. Lands, Santa Fe



17 1510

P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

May 12, 1978

Regional Oil and Gas Supervisor United States Geological Survey Drawer 1857 Roswell, New Mexico 88201

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501 No. 498

Re: San Juan 32-9 Unit, #14-08-001-569

San Juan County, New Mexico

FIRST EXPANDED PARTICIPATING AREA

Pictured Cliffs Formation Effective November 1, 1977

### Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-9 Unit Agreement, #14-08-001-569, approved June 26, 1953, El Paso Natural Gas Company, as Unit Operator, has determined that the below listed well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation and that the Pictured Cliffs Participating Area should be expanded as follows:

### FIRST EXPANDED PARTICIPATING AREA - Effective November 1, 1977

Drilling Block	Acres	Well No.
Sec. 2, T-31-N, R-10-W	321.06	#89
Sec. 11, T-31-N, R-10-W	320.00	IDB

San Juan 32-9 Unit May 10, 1978 Page 2

Pertinent data on the San Juan 32-9 Unit #89 Well is as follows:

The Well is located 1675' from the North line and 1188' from the West line of Section 2, Township 31 North, Range 10 West, N.M.P.M., was spudded on September 7, 1977, and completed on October 26, 1977, at a total depth of 3007'. The Pictured Cliffs Formation at the intervals of 2847', 2850', 2865', 2869', 2885', 2889', 2903', 2909', 2932', 2937' was treated with a sand-water fracturing process on October 8, 1977. The well was shut-in on October 19, 1977, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on October 26, 1977, using the Pitot tube method with an after frac guage of 1331 MCF/D, with an SIPC of 740 psia. The spacing unit for this well is described as the W/2 of Section 2, Township 31 North, Range 10 West, N.M.P.M., containing 321.06 acres.

Attached is Schedule I showing the First Expanded Participating Area for the Pictured Cliffs Formation for the San Juan 32-9 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of November 1, 1977.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

James R. Permenter Manager, Land Contracts

amis I Rement

and Titles Land Department

Energy Resource Development

JRP:RHN:paw Attachment SJ 32-9, 4.1

### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (3). Attention: Mr. T. M. Curtis Denver, Colorado 80202

Amoco Production Company Attention: Mr. L. O. Speer, Jr. Farmington, New Mexico 87401

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

### SAN JUAN 32-9 UNIT-PAGE TWO WORKING INTEREST OWNERS

Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Robert S. MacDonald, Angus MacDonald and the Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

Mrs. Catherine B. McElvain,

Mesa Petroleum Co. (2)

### SAN JUAN 32-9 UNIT-PAGE THREE WORKING INTEREST OWNERS

Mabelle Miller

Northwest Pipeline Corporation Attention: Mr. J. W. Shepardson Denver, Colorado 80202

Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Phillips Petroleum Company

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

Shaw, Isham & Company

Elizabeth B. Simpson Trust

Mr. William Simpson

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

Estate of R. Douglas Stuart, Dec'd. c/o H. Tom DeWees
First National Bank of Chicago

Mr. William P. Sutter

Tenneco 011 Company

Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Miss Mary S. Zick

## UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)

SCHEDULE II FIRST EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION SAN JUAN 32-9 UNIT AREA

		NUMBER	DRILLING BLOCK	X	PERCENTAGE	PRESENT ACTL
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATIC
			TRACT	2		
SF 078316-B	T-31-N, R-10-W	40.00	Royalty Interest;	12.500000%	12.500000%	4.439216%
	Sec. 14: 5W/4 5W/4		Working Interest; El Paso Natural Gas Co.; Amoco Production Co.; Brookhaven Oil Co.;	43.750000% 25.520833% 18.229167%	43.750000% 25.520833% 18.229167%	
			ORRI; TOTAL	%000000. 100.0000001	%000000. 100.0000001	
			TRACT	5		
SF 078389-A	2,5	320.00		12.500000%	12.500000%	35.513728%
·	Sec. 11: W/2		working interest; El Paso Natural Gas Co.; ORRI; TOTAL	82.500000% $5.000000%$ $100.00000%$	82.500000% 5.000000% 100.000000%	
			TRACT	29-B		
NM 01594	T-31-N, R-10-W	120.00	Royalty Interest;	12.500000%	6.250000%	6.658824%
	SE/4 NW/4			41.750000% 42.250000% 3.500000% 100.000000%	41.750000% .000000% 2.000000% 50.000000%	
			TRACT 31	31		
E-70-25	T-31-N, R-10-W	40.57	Royalty Interest;	12.500000%	12.500000%	4.502475%
				84.500000% $3.000000$ % $100.00000$ %	84.500000% 3.000000% 100.000000%	

Effective October 19, 1977

UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN Form 21-71 (2-72) SCHEDULE II Page 2

		NUMBER	DRILLING BLOCK		PERCENTAGE	PRESENT ACTU
SEKIAL NOMBEK	טוויייייייייייייייייייייייייייייייייייי	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			TRACT 36	ωl	·	
-286-27	T-31-N, R-10-W	40.00	Royalty Interest;	12.500000%	12.500000%	4.439216%
	Sec. Z: NE/4 SW/4		working interest: Northwest Pipeline Corp.; ORRI;	84.500000% 3.000000% 100.000000%	84.500000% 3.000000% 100.000000%	
			TRACT 40	ol		
[-3150-1	T-31-N, R-10-W	40.00	Royalty Interest;	12.500000%	12.500000%	4.439216%
	5. 5W/ 4 NW/ 4		ORRI;	82.500000% 5.000000% 100.000000%	82.500000% 5.000000% 100.000000%	
			TRACT 47	7		
€-5318	T-31-N, R-10-W	40.00	Royalty Interest;	12.50000%	12.500000%	4.439216%
	Sec. 2: NW/4 SW/4		working interest: Aztec Oil & Gas Co.; TOTAL	87.500000%	87.500000% 100.000000%	
			TRACT 51	<b>~</b> ]		
€-5843	T-31-N, R-10-W	40.00	Royalty Interest;	12.500000%	12.500000%	4.439216%
	Sec. 2: 35/4 NW/4		El Paso Natural Gas Co.; TOTAL	87.500000% 100.000000%	87.500000%	

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UNI I AREA EXPANSION SCHEDULE – SAN JUAN BASIN Form 21-71 (2-72)

SCHEDULE II Page 3

		NUMBER	DRILLING BLOCK	Υ Υ	PERCENTAGE	PRESENT AC
	NO.	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPAT
			TRACT	09		
B-11133-31	T-31-N, R-10-W	80.00		12.500000%	12.500000%	8.878432%
	Sec. 2: 5/2 SW/4		working interest: Northwest Pipeline Corp.; OBD:	84.500000%	84.500000%	
			UNKI; TOTAL	3.00000%	3.000000 100.000000%	
			TRACT	61		
B-11133-32	T-31-N, R-10-W	40.49		12.500000%	12.500000%	4.493597%
	3		Working interest: Northwest Pipeline Corp.; TOTAL	87.500000%	87.500000% 100.000000%	
			TRACT	89		
Fee	T-31-N, R-10-W	40.00	Royalty Interest:	12.500000%	12.500000%	4.439216%
	Sec. 14: 5W/4 NW/4		Working interest: Fl Paco Natural Gas Co	43 750000%	43 750000%	
			Amoco Production Co.;	24.609375%	24.609375%	
			Brookhaven Oil Co.;	19.140625%	19.140625%	
			UKKI; TOTAL	3000000. 100.000000%	%000000. 100.000000	
			TRACT	68-A		
Fee	T-31-N, R-10-W	80.00		12.500000%	12.500000%	8.878432%
	Sec. 14: E/2 SW/4		working interest: El Paso Natural Gas Co.;	43.750000%	43.750000%	
			oduction Co.	24.609375%	24.609375%	*
			•	%000000.	%000000.	
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### SCHEDULE II Page 4

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	NOTEGIOCATION	としをひにて	טאוריים סייניים מייניים מיינים מייניים מייניים מיינים	230	1108-12011	
110 MO 14 MO		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATIO
			TRAC	TRACT 68-B		
Fee	T-31-N, R-10-W	40.00	Royalty Interest;	12.500000%	12.500000%	4.439216%
	Sec. 14: NW/4 SW/4	_	working interest: El Paso Natural Gas Co.;	43.750000%	43.750000%	
			Amoco Production Co.;	24.609375%	24.609375%	
			Brookhaven Oil Co.;	19.140625%	19.140625%	
			ORRI;	.500000%	200000%	
			TOTAL	100.00000%	100.000000%	

## RECAPITULATION

Description of Lands in Participating Area

T-31-N, R-10-W, N.M.P.M.
Section 2: W/2
Section 11: W/2
Section 14: W/2

901.06 Total Number of Acres in Participating Area: 961.06 Total Number of Acres Committed in Participating Area:

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### SAN JUAN 32-9 UNIT WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (3) Attention: Mr. T. M. Curtis Denver, Colorado 80202

Amoco Production Company Attention: Mr. L. O. Speer, Jr. Farmington, New Mexico 87401

Atlantic Richfield Company (3)

Suzanne LaForce Baber

Mr. Douglas N. Bard

Mr. James C. Bard

Mr. Ralph A. Bard, Jr.

Mr. Ralph Austin Bard, Jr.

Mr. Roy E. Bard, Jr.

Mr. Tom Bolack

Mr. G. R. Brainard, Jr.

Brookhaven Oil Company

Mrs. Grace M. Brown

Chevron Oil Company (2)

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23935

Continental Illinois National Bank & Trust Company of Chicago Trustee for Trust No. 23949

Continental Oil Company

Crown Central Petroleum Corporation

Mrs. Suzette M. Davidson

Eleanor Isham Dunne

Mr. Charles W. Farnham

### SAN JUAN 32-9 UNIT-PAGE TWO WORKING INTEREST OWNERS

Elizabeth B. Farrington

Mrs. Minnie A. Fitting

Ralph U. Fitting, III and J. Robert Jones, Ancillary Executors of the Estate of Ralph U. Fitting, Jr., Deceased

Mr. Robert D. Fitting

Nancy H. Gerson

Mr. Jay C. Halls, Trustee

Mr. Cortlandt T. Hill

Mr. Albert L. Hopkins, Jr.

Mr. George S. Isham

Mr. Henry P. Isham, Jr.

Mr. R. Nelson Isham

Mr. Robert T. Isham

Josephine C. Jacobson

Mr. Robert Jones

Nancy LaForce Keyes

Koch Industries, Inc.

Mr. W. Watson LaForce, Jr.

Mr. Claude R. Lambe

Frederick P. G. Lattner, Trustee U/T/A dated 1-21-63 with Martha M. Lattner, Settlor

Robert S. MacDonald, Angus MacDonald and the Northern Trust Company, Trustees under the Will of Margaret S. MacDonald Trust #23-15659, Northern Trust Company

Mrs. Catherine B. McElvain,

Mesa Petroleum Co. (2)

### SAN JUAN 32-9 UNIT-PAGE THREE WORKING INTEREST OWNERS

Mabelle Miller

Northwest Pipeline Corporation Attention: Mr. J. W. Shepardson Denver, Colorado 80202

Northwest Pipeline Corporation Mr. F. H. Woods, Manager Farmington, New Mexico 87401

Phillips Petroleum Company

Nora R. Ranney

Catherine H. Ruml

Mr. Edward L. Ryerson, Jr.

and the second second

Shaw, Isham & Company

Elizabeth B. Simpson Trust

Mr. William Simpson

Southland Royalty Company

Mr. Sydney Stein, Jr.

Mr. John Stuart

Estate of R. Douglas Stuart, Dec'd. c/o H. Tom DeWees
First National Bank of Chicago

Mr. William P. Sutter

Tenneco Oil Company

Texaco, Inc.

Kay B. Towle

Trust #1 for Benefit of John I. Shaw and Rodger D. Shaw

Mr. Frederick F. Webster

Miss Mary S. Zick