

EXHIBIT 2
ROSA UNIT DAKOTA PRODUCTION
SAN JUAN AND RIO ARriba COUNTIES, NEW MEXICO
MCF AT 14.73 PSIA, 60 DEG F

WELL NAME	LOCATION	CUM TO 8-1-79	AUG, '79	SEP, '79	OCT, '79	NOV, '79	DEC, '79	JAN, '80	FEB, '80	MAR, '80	APR, '80
Rosa Unit #43	J 19 -31-4	13663	3614	5110	1200	2096	1636	3610	3844	2229	2983
Rosa Unit #63	G 30 -31-4	1629	0	0	0	0	0	0	0	0	0
Rosa Unit #53	B 8 -31-5	610562	5018	5222	4259	4836	4076	3703	4683	4492	4294
Rosa Unit (Carson #1)	D 10 -31-5	115061	0	0	0	18033	22877	4608	12481	11382	7750
Rosa Unit #40	E 11 -31-5	59989	15399	83	0	0	22620	13218	11435	5389	8623
Rosa Unit #48	O 11 -31-5	69143	16594	129	0	0	25830	14882	7137	8936	10906
Rosa Unit #61	N 13 -31-5	41882	2469	2708	3111	2839	2088	1760	1290	1464	1412
Rosa Unit #65	A 17 -31-5	24084	5268	3618	3400	3855	4981	2784	5973	6113	6121
Rosa Unit #68	L 17 -31-5	0	0	0	0	0	0	0	0	0	0
Rosa Unit #62	C 25 -31-5	63434	3809	3391	3404	1571	2051	2519	2671	2230	2301
Rosa Unit #64	A 29 -31-5	33400	8780	7036	5335	7417	7154	6540	7708	6507	4747
Rosa Unit #52	D 33 -31-5	980008	9716	6677	10519	8760	8690	6395	8339	8088	8231
Rosa Unit #55	I 34 -31-5	327493	3616	6433	5121	6743	7006	4925	2680	0	2835
Rosa Unit #56	E 35 -31-5	181771	0	0	8361	5577	5304	4321	4222	2404	3551
Rosa Unit #54	K 36 -31-5	32873	0	0	0	0	0	0	0	0	0
Rosa Unit #66	L 13 -31-6	122851	44467	45305	51039	58629	70995	57662	76096	74000	73144
Rosa Unit #51	C 23 -31-6	656903	5743	6821	5458	5801	6289	4357	6080	5657	4956
TOTAL		3334946	124493	92533	103207	126157	191697	130984	154639	139091	141854
Rosa Unit #35-X	N/2 5-31-6	Non-Commercial SP & A									
Rosa Unit #36	N/2 11-31-6	Awaiting Connection									
Rosa Unit #1	S/2 11-31-6										
Rosa Unit #67	E/2 14-31-6										
Rosa Unit #69	N/2 16-31-6										
Rosa Unit #49	N/2 27-31-4										

MAY, '80	JUN, '80	JUL, '80	12 MONTH TOTAL	CUM TO 8-1-80	INITIAL AOE	10 DATE
4307	2444	3956	39029	52692	2413	5-18-77
0	0	0	0	1629	257	9-25-76
3880	2385	2677	50425	660987	1072	7-15-77
14860	5113	4798	101602	216663	1450 (gauge)	1-3-78
6896	7107	8998	99868	159857	3724	3-10-77
10400	8382	10656	113852	182995	3460	3-10-77
2440	1337	1857	24775	66457	859	9-26-77
5748	2832	4440	55033	79117	3585	4-24-77
0	0	0	0	0	6938	0-0-
2814	3441	3389	33691	97745	864	9-20-77
6270	2778	5734	76406	109806	1843	4-24-77
8861	6393	8259	98928	107235	2453	7-15-77
7426	6394	6268	59437	386330	264 (gauge)	5-01-77
4285	2716	2359	43100	224871	675 (gauge)	10-16-77
0	0	0	0	32873	304 (gauge)	5-01-77
1906	0	161	553404	676255	5032	4-24-77
4708	4469	4884	64823	122126	1409	7-15-77
84801	55791	69126	141473	4749219		

NORTHWEST PIPELINE CORPORATION

1125 Seventeenth Street, Suite 2100
Denver, Colorado 80202
(303) 620-3500

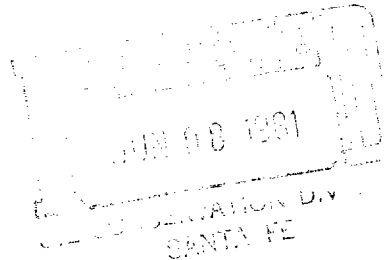
June 2, 1981

Mailing Address
P. O. Box 5800, Terminal Annex
Denver, Colorado 80217

Mr. Jack Willock
Assistant Area Oil
and Gas Supervisor
United States Geological Survey
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, New Mexico 87102

State of New Mexico
Commissioner of Public Lands
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

State of New Mexico
Oil Conservation Commission
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501



Gentlemen:

Re: Rosa Unit I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1981 Drilling Program

The 1981 Drilling Program filed on April 3, 1981 for the Rosa Unit Sec. No. 587 has been approved by the regulatory agencies as follows:

Oil Conservation Commission	4-13-81
Commissioner of Public Lands	5-05-81
U. S. Geological Survey	5-29-81

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

Very truly yours,

Kathy Michael
Kathy Michael
Associate Landman

KM:vh

Attachment A SUBSIDIARY OF NORTHWEST ENERGY COMPANY

cc: Working Interest Owners

ROSA UNIT

Working Interest Owners

Wiser Oil Company
Post Office Box 2467
Hobbs, New Mexico 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

El Paso Exploration Company
Attention: James R. Permenter
Post Office Box 1492
El Paso, Texas 79978

Phillips Petroleum Company
Attention: Mr. Paul Wieman
7800 East Dorado Place
Englewood, Colorado 80111

Amoco Production Company
Attention: A. M. Roney
1670 Broadway, Suite 750
Amoco Building
Denver, Colorado 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, Texas 77002

J. Glenn Turner, Jr., Independent
Co-executor of Estate of J. Glenn Turner, Deceased
1700 Mercantile Bank Building
Dallas, Texas 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, Texas 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, Texas 79902

Gas Producing Enterprises, Inc.
Attention: North Region-Land Department
2100 Prudential Plaza
Post Office Box 749
Denver, Colorado 80201

Ms. Lois J. Willard
Post Office Box 5205
Santa Fe, New Mexico 87501

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1670 Broadway, Suite 3200
Amoco Building
Denver, Colorado 80202

Phillips Petroleum Company
Attention: Mr. Gordon Buckman
7800 East Dorado Place
Englewood, Colorado 80111



United States Department of the Interior

GEOLOGICAL SURVEY
South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125

29 MAY 1981

133

Northwest Pipeline Corporation
Attention: Kathy Michael
P. O. Box 5800 Terminal Annex
Denver, Colorado 80217

Gentlemen:

Your 1981 plan of development for the Rosa unit, Rio Arriba and San Juan Counties, New Mexico, has been reviewed by this office.

The 1981 plan as submitted proposed to drill six Dakota, one Mesaverde/Dakota, one Pictured Cliffs/Mesaverde and two Mesaverde wells and any other well or wells required to prevent drainage of unitized substances by wells outside the unit area. Such plan is hereby approved on this date. However, you are requested to reexamine sections 3, 34, and 35, T. 31 N., R. 5 W.; sections 8, 25 and 26, T. 31 N., R. 6 W.; and sections 32, 33 and 34, T. 32 N., R. 6 W., for drainage of unitized substances from the Dakota and Mesaverde by wells outside the unit boundaries.

It is further requested that you report to this office within 60 days your findings of such examination as a supplement to your 1981 plan of development.

Sincerely yours,

(ORIG. SGD.) JAMES W. SHELTON

FOR

Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

Enclosure

cc:
NMOCD, Santa Fe



State of New Mexico



ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands

May 5, 1981

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

Northwest Pipeline Corporation
1125 Seventeenth Street, Suite 2100
Denver, Colorado 80202

127

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1981 Drilling Program

ATTENTION: Kathy Michael

Gentlemen:

The Commissioner of Public Lands has this date approved the 1981 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico. Such program calls for the drilling of wells 81, 82, 83, 84, 85, 86, 87, 88, 89 and 91. 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.

Your Three (\$3.00) Dollar filing fee has been received.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
FLOYD O. PRANDO, Assistant Director
Oil and Gas Division
AC 505-827-2748

AJA/FOP/s
encls.
cc:

OCD-Santa Fe, New Mexico
USGS-Albuquerque, New Mexico
USGS-Roswell, New Mexico



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

April 13, 1981

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Northwest Pipeline Corporation
P. O. Box 5800, Terminal Annex
Denver, Colorado 80217

Attention: Kathy Michael

Re: Case No. 133
Rosa Unit
1981 Drilling Program

Gentlemen:

We hereby approve the 1981 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Two approved copies of the Drilling Program are returned herewith.

Yours very truly,

JOE D. RAMEY
Director

JDR/EP/fd
enc.

cc: U.S.G.S. - Albuquerque
Commissioner of Public Lands

NORTHWEST PIPELINE CORPORATION

1125 Seventeenth Street, Suite 2100
Denver, Colorado 80202
(303) 620-3500

Mailing Address

P. O. Box 5800, Terminal Annex
Denver, Colorado 80217

April 3, 1981

Mr. Jack Willock
Assistant Area Oil
and Gas Supervisor
United States Geological Survey
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, New Mexico 87102

State of New Mexico
Commissioner of Public Lands
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

State of New Mexico
Oil Conservation Commission
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Rosa Unit I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1981 Drilling Program

By letter dated July 22, 1980, Northwest Pipeline Corporation, Unit Operator, filed a Drilling Program for the Rosa Unit providing for no wells during the calendar year 1979, and on September 10, 1980 we filed a Supplemental Drilling Program providing for the drilling of three dual Mesaverde/Dakota wells. These wells were timely drilled.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	24
Mesaverde, Noncommercial	1
Mesaverde, Plugged and Abandoned	4
Dakota, Noncommercial	9
Dakota, Commerciality Not Determined	8
Dakota, Plugged and Abandoned	3
Mesaverde/Dakota (not completed)	4
Dakota, Being Tested After Frac	-
TOTAL	53

Amoco unsuccessfully attempted to recomplete the Rosa Unit No. 54 in the Pictured Cliffs and is now attempting a completion in the Mesaverde formation, but we do not know the results of this operation and therefore continue to show this well as noncommercial in the Dakota in our recap of wells in the Rosa Unit.

Northwest has contacted all of the working interest owners and has received the necessary concurrence to propose that the following wells be drilled during the calendar year 1981:

<u>Well No.</u>	<u>Location</u>	<u>Formation</u>
81	E/2 Section 7-31-4	Dakota
82	W/2 Section 9-31-4	Dakota
83	W/2 Section 15-31-4	Dakota
84	E/2 Section 23-31-4	Dakota
85	N/2 Section 20-31-5	Mesaverde/Dakota
86	W/2 Section 12-31-4	Dakota
87	E/2 Section 28-31-4	Dakota
88	W/2 Section 8-31-6	Pictured Cliffs/Mesaverde
89	E/2 Section 34-32-6	Mesaverde
91	E/2 Section 35-32-6	Mesaverde

Northwest Pipeline Corporation, 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 Drilling Program 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 one (1) copy to this office.

Copies of this Drilling Program are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,



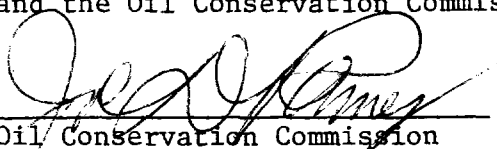
Kathy Michael
Land Records Coordinator

KM:vh
Attachment

cc: Working Interest Owners

APPROVED: _____ DATE: _____
Assistant Area 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

APPROVED:  DATE: April 13, 1981
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 San Juan and Rio Arriba Counties, New Mexico,
1981 Drilling Program.

ROSA UNIT

Working Interest Owners

Wiser Oil Company
Post Office Box 2467
Hobbs, New Mexico 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

El Paso Exploration Company
Attention: James R. Permenter
Post Office Box 1492
El Paso, Texas 79978

Phillips Petroleum Company
Attention: Mr. Derryl E. Millican
7800 East Dorado Place
Englewood, Colorado 80111

Amoco Production Company
Attention: A. M. Roney
1670 Broadway, Suite 750
Amoco Building
Denver, Colorado 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, Texas 77002

J. Glenn Turner, Jr., Independent
Co-executor of Estate of J. Glenn Turner, Deceased
1700 Mercantile Bank Building
Dallas, Texas 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, Texas 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, Texas 79902

Gas Producing Enterprises, Inc.
Attention: North Region-Land Department
2100 Prudential Plaza
Post Office Box 749
Denver, Colorado 80201

Ms. Lois J. Willard
Post Office Box 5205
Santa Fe, New Mexico 87501

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1670 Broadway, Suite 3200
Amoco Building
Denver, Colorado 80202

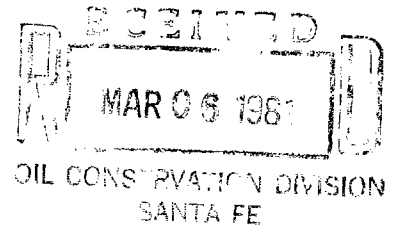
Phillips Petroleum Company
Attention: Mr. Gordon Buckman
7800 East Dorado Place
Englewood, Colorado 80111



United States Department of the Interior

GEOLOGICAL SURVEY
South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125

27 FEB 1981



Northwest Pipeline Corporation
Attention: Kathy Michael
P. O. Box 5800, Terminal Annex
Denver, Colorado 80217

133

Gentlemen:

Your letter of January 21, 1981, requested that Mitchell Energy Corporation be allowed to drill wells No. 81 and 82 to test the Dakota formation in the Rosa unit area and that such wells would appear in the 1981 plan of development to be submitted at a later date. Also transmitted was a "Designation of Agent" instrument, containing six original copies, whereby Northwest Pipeline Corporation as unit operator for the Rosa unit agreement designates Mitchell Energy Corporation as agent for the drilling of well No. 81 in the E $\frac{1}{2}$ sec. 7 and well No. 82 in the W $\frac{1}{2}$ sec. 9 both in T. 31 N., R. 4 W., N.M.P.M., Rio Arriba County, New Mexico.

The designation instrument is hereby accepted for record purposes and two copies are returned herewith. Such acceptance, however, does not relieve Northwest Pipeline Corporation of its responsibilities as unit operator to assume operation of any well within the Rosa unit area that is determined to qualify for inclusion within a unit participating area.

Sincerely yours,

ORIGINAL SIGNED BY:

Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

Enclosures

cc:

NMOCD, Santa Fe (ltr. only)

NORTHWEST PIPELINE CORPORATION

1125 Seventeenth Street, Suite 2100
Denver, Colorado 80202
(303) 620-3500

RECEIVED
OIL
12/18/80

Mailing Address

P. O. Box 5800, Terminal Annex
Denver, Colorado 80217

December 17, 1980

133

Mr. Jack Willock
Assistant Area Oil
and Gas Supervisor
United States Geological Survey
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, New Mexico 87102

State of New Mexico
Commissioner of Public Lands
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

~~State of New Mexico~~
~~Oil Conservation Commission~~
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1980 Supplemental
Drilling Program

The 1980 Supplemental Drilling Program filed on September 29, 1980 has been approved by the regulatory agencies as follows:

Oil Conservation Commission	December 8, 1980
Commissioner of Public Lands	October 14, 1980
U. S. Geological Survey	October 10, 1980

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

Very truly yours,

Kathy Michael
Kathy Michael
Land Records Coordinator

KM:vh
Attachment

ROSA UNIT

Working Interest Owners

Wiser Oil Company
Post Office Box 2467
Hobbs, New Mexico 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

El Paso Natural Gas Company
Attention: James R. Permenter
Post Office Box 1492
El Paso, Texas 79978

Phillips Petroleum Company
Attention: N. N. Beckner
7800 East Dorado Place
Englewood, Colorado 80111

Amoco Production Company
Attention: A. M. Roney
1670 Broadway, Suite 750
Amoco Building
Denver, Colorado 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, Texas 77002

J. Glenn Turner, Jr., Independent
Co-executor of Estate of J. Glenn Turner, Deceased
1700 Mercantile Bank Building
Dallas, Texas 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, Texas 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, Texas 79902

Gas Producing Enterprises, Inc.
Attention: North Region-Land Department
2100 Prudential Plaza
Post Office Box 749
Denver, Colorado 80201

Ms. Lois J. Willard
Post Office Box 5205
Santa Fe, New Mexico 87501

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1670 Broadway, Suite 3200
Amoco Building
Denver, Colorado 80202

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

December 8, 1980

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Kathy Michael

Re: Case No. 133
Rosa Unit
1980 Supplemental Drilling
Program

Gentlemen:

We hereby approve the 1980 Supplemental Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Two approved copies of the Supplemental Drilling Program are returned herewith.

Yours very truly,

JOE D. RAMEY
Director

JDR/EP/fd
enc.

cc: U.S.G.S. - Roswell
Commissioner of Public Lands

C
O
P
Y

7-331V 22
OCT 02 1980
CLERK
NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

September 29, 1980

Mr. Jack Willock
Assistant Area Oil
and Gas Supervisor
United States Geological Survey
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, New Mexico 87102

State of New Mexico
Commissioner of Public Lands
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

State of New Mexico
Oil Conservation Commission
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

RE: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1980 Supplemental Drilling Program

By letter dated July 22, 1980, Northwest Pipeline Corporation filed a Drilling Program for 1980 providing for no drilling in the Rosa Unit, and by letter dated August 28, 1980 the U. S. Geological Survey advised us that this plan was unacceptable and has recommended filing a Supplemental Drilling Program for 1980.

Therefore, Northwest Pipeline Corporation, as Unit Operator, proposes the following wells to be drilled before the end of calendar year 1980:

<u>Well No.</u>	<u>Drilling Block</u>	<u>Formation</u>
77	S/2 Sec. 33-31-5	Mesaverde/Dakota
79	W/2 Sec. 22-31-6	Mesaverde/Dakota
80	S/2 Sec. 8-31-5	Mesaverde/Dakota

Northwest Pipeline Corporation will drill any offset wells that may be required

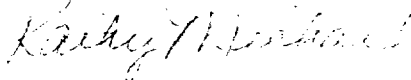
United States Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
STATE OF NEW MEXICO
September 29, 1980
Page 2

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 Supplemental Drilling Program meets with your approval, please signify your approval as required under Section 9 of the Unit Agreement in the space provided on the attached sheet and return one approved copy to Northwest Pipeline Corporation.

Copies of this Supplemental Drilling Program have been sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Kathy Michael".

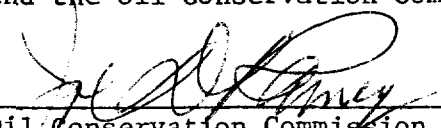
Kathy Michael
Land Records Coordinator

KM:vh
Enclosure

cc: Working Interest Owners

APPROVED: _____ DATE: _____
Assistant Area 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

APPROVED:  _____ DATE: 12/8/80
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 Rosa Unit, San Juan and Rio Arriba Counties,
New Mexico, 1980 Supplemental Drilling Program.

ROSA UNIT

Working Interest Owners

Wiser Oil Company
Post Office Box 2467
Hobbs, New Mexico 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

El Paso Natural Gas Company
Attention: James R. Permenter
Post Office Box 1492
El Paso, Texas 79978

Phillips Petroleum Company
Attention: N. N. Beckner
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Englewood, Colorado 80111

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1670 Broadway, Suite 750
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3900 One Shell Plaza
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730 Fidelity Union Tower
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Gas Producing Enterprises, Inc.
Attention: North Region-Land Department
2100 Prudential Plaza
Post Office Box 749
Denver, Colorado 80201

Ms. Lois J. Willard
Post Office Box 5205
Santa Fe, New Mexico 87501

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1670 Broadway, Suite 3200
Amoco Building

State of New Mexico



ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands

October 14, 1980

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

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

133

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1980 Supplemental Drilling
Program

ATTENTION: Ms. Kathy Michael

Gentlemen:

The Commissioner of Public Lands has this date approved your Supplemental Drilling Program for 1980, for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico. Such plan proposes the drilling of Wells No. 77, 79 and 80. 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.

Your Three (\$3.00) Dollar filing fee has been received.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

AJA/RDG/s
encl.
cc:

OCD-Santa Fe, New Mexico ✓
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico



United States Department of the Interior

GEOLOGICAL SURVEY
South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125

10 OCT 1980

Northwest Pipeline Corporation
Attention: Kathy Michael
One Park Central, Suite 1487
Denver, Colorado 80202
Gentlemen:

One approved copy of your 1980 supplemental plan of development for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico is enclosed. Such plan, proposing to drill unit wells Nos. 77, 79, and 80 in the S $\frac{1}{2}$ section 33, T. 31 N., R. 5 W., the W $\frac{1}{2}$ section 22, T. 31 N., R. 6 W., and the S $\frac{1}{2}$ section 8, T. 31 N., R. 5 W., N.M.P.M., as Mesaverde Dakota completions, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JACK WILLOCK

Jack Willock
Acting Deputy Conservation
Manager, Oil and Gas

Enclosures

cc:
NMOCD, Santa Fe

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

September 24, 1980

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Kathy Michael

Re: Case No. 133
Rosa Unit
1980 Drilling Program

Gentlemen:

We hereby approve the 1980 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Two approved copies of the Drilling Program are returned herewith.

Yours very truly,

JOE D. RAMEY
Director

JDR/EP/fd
enc.

cc: U.S.G.S. - Roswell
Commissioner of Public Lands

C
O
P
Y

NORTHWEST PIPELINE CORPORATION

July 22, 1980

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
303-623-9303

Mr. Jack Willock
Assistant Area Oil
and Gas Supervisor
United States Geological Survey
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, New Mexico 87102

State of New Mexico
Commissioner of Public Lands
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

State of New Mexico
Oil Conservation Commission
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1980 Drilling Program

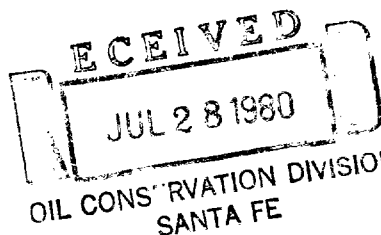
By letter dated April 2, 1979, Northwest Pipeline Corporation, Unit Operator, filed a Drilling Program for the Rosa Unit providing for three Dakota wells during the calendar year 1979. These wells were timely drilled.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	24
Mesaverde, Noncommercial	1
Mesaverde, Plugged and Abandoned	4
Dakota, Noncommercial	9
Dakota, Commerciality Not Determined	6
Dakota, Plugged and Abandoned	2
Mesaverde-Dakota (Mesaverde Not Completed)	1
Dakota, Being Tested After Frac	3

TOTAL 50

Amoco attempted to recomplete the Rosa Unit No. 54 in the Pictured Cliffs,



United States Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
July 22, 1980
Page Two

Rosa Unit, I Sec. No. 587
1980 Drilling Program

but we do not know the results of this operation and, therefore, continue to show this well as noncommercial in the Dakota in our recap of wells in the Rosa Unit.

Northwest has contacted all of the working interest owners and has received the necessary concurrence to propose that no wells be drilled during the calendar year 1980.

Northwest Pipeline Corporation, 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 Drilling Program 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 one (1) copy to this office.

Copies of this Drilling Program are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

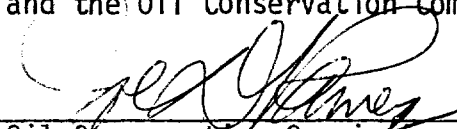
Kathy Michael
Kathy Michael
Land Records Coordinator

KM:vh
Enclosure

cc: Working Interest Owners

APPROVED: _____ DATE: _____
Assistant Area 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

APPROVED:  _____ DATE: 9/24/80
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 Rosa Unit, I Sec. No. 587, San Juan and
Rio Arriba Counties, New Mexico, 1980 Drilling Program.

ROSA UNIT
Working Interest Owners

Wiser Oil Company
Post Office Box 2467
Hobbs, New Mexico 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

El Paso Natural Gas Company
Attention: James R. Permenter
Post Office Box 1492
El Paso, Texas 79978

Phillips Petroleum Company
Attention: N. N. Beckner
7800 East Dorado Place
Englewood, Colorado 80111

Amoco Production Company
Attention: T. M. Curtis
1670 Broadway, Suite 750
Amoco Building
Denver, Colorado 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, Texas 77002

J. Glenn Turner, Jr., Independent
Co-executor of Estate of J. Glenn Turner, Deceased
1700 Mercantile Bank Building
Dallas, Texas 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, Texas 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, Texas 79902

Gas Producing Enterprises, Inc.
Attention: North Region-Land Department
2100 Prudential Plaza
Post Office Box 749
Denver, Colorado 80201

Ms. Lois J. Willard
Post Office Box 5205
Santa Fe, New Mexico 87501

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1719 Colorado National Building
950 Seventeenth Street



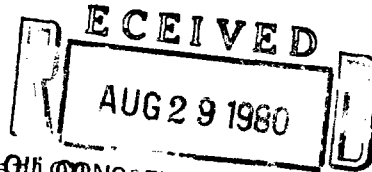
United States Department of the Interior

GEOLOGICAL SURVEY
South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125

28 AUG 1980

133

CERTIFIED MAIL
RETURN RECEIPT REQUESTED



Northwest Pipeline Corporation
Attention: Kathy Michael
One Park Central, Suite 1487
Denver, Colorado 80202

OIL CONSERVATION DIVISION
SANTA FE

Dear Ms. Michael:

Your 1980 plan of development, dated July 22, 1980, for the Rosa Unit Agreement, I-Sec. No. 587, Rio Arriba and San Juan Counties, New Mexico, was received in this office on July 28, 1980. Such plan, proposing no drilling of development wells during calendar year 1980, is unacceptable. Our records indicate that the unit area embraces 54,209.49 acres and that the Mesaverde participating area covers 15,476.40 acres.

We feel that the unit owners are obligated to drill several wells each year until this large quantity of unproven acreage is satisfactorily developed. The only recourse is to contract the unit area from its present size to the area included in the participating area. Accordingly, you are allowed 30 days from receipt of this letter to provide this office with a multiple well drilling program for the remainder of calendar year 1980. Otherwise, we will demand contraction of the Rosa unit area pursuant to Section 2(a) thereof.

Sincerely yours,

(ORIG. SGD.) JACK WILLOCK

FOR Gene F. Daniel
Acting Deputy Conservation
Manager, Oil and Gas

cc:

Amoco Production Company
NMOCD, Santa Fe

NORTHWEST EXPLORATION COMPANY

September 2, 1980

D. J. ECKELBERG
VICE PRESIDENT, EXPLORATION



133

Mr. Jack Willock
Assistant Area Oil
and Gas Supervisor
United States Geological Survey
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, New Mexico 87102

State of New Mexico
Commissioner of Public Lands
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

State of New Mexico
Oil Conservation Commission
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1979 Drilling Program

The 1979 Drilling Program filed on April 12, 1979 for the Rosa Unit has been approved by the regulatory agencies as follows:

Oil Conservation Commission	April 6, 1979
Commissioner of Public Lands	April 11, 1979
U. S. Geological Survey	July 29, 1980

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

Very truly yours,

Kathy Michael

Kathy Michael
Land Records Coordinator

KM:vh
Attachment

cc: Working Interest Owners

ROSA UNIT

Working Interest Owners

The Wiser Oil Company
P. O. Box 2467
Hobbs, New Mexico 88240

Ms. Lois J. Willard
P. O. Box 5205
Santa Fe, New Mexico 87501

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1719 Colorado National Building
950 Seventeenth Street
Denver, Colorado 80202

El Paso Natural Gas Company
Attention: Mr. James R. Permenter
P. O. Box 1492
El Paso, Texas 79978

Phillips Petroleum Company
Attention: Mr. N. N. Beckner
Woodside II, Greenwood Plaza
7800 East Dorado Place
Englewood, Colorado 80111

Amoco Production Company
Attention: Mr. T. M. Curtis
1000 Security Life Building
Denver, Colorado 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, Texas 77002

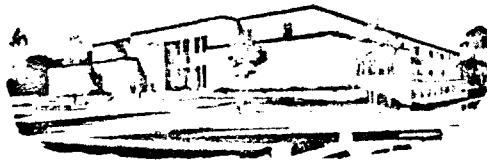
J. Glenn Turner, Jr., Independent
Co-Executor of Estate of J. Glenn Turner, Deceased
1700 Mercantile Bank Building
Dallas, Texas 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, Texas 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, Texas 79902

Gas Producing Enterprises, Inc.
Attention: North Region Land Department
2100 Prudential Plaza
P. O. Box 749
Denver, Colorado 80201

State of New Mexico



133

Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

July 29, 1980

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

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1980 Drilling Program

ATTENTION: Kathy Michael

Gentlemen:

The Commissioner of Public Lands has this date approved your 1980 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico. Such plan calls for the drilling of no wells during 1980. 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 and Gas Division
AC 505-827-2748

AJA/FOP/s
encls.
cc:

OCD-Santa Fe, New Mexico
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico



United States Department of the Interior

GEOLOGICAL SURVEY
South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125

133

JUL 29 1980

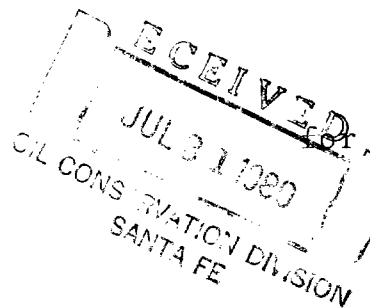
Northwest Pipeline Corporation
Attention: Kathy Michael
One Park Central, Suite 1487
Denver, Colorado 80202

Gentlemen:

One approved copy of your 1979 plan of development for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico, is enclosed. Such plan, proposing to drill unit wells 67, 68, 69, and any other required wells, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JACK WILLOCK



Floyd L. Stelzer
Acting Deputy Conservation
Manager, Oil and Gas

Enclosure

cc:
NMOCD, Santa Fe



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

MAY 21 1979

Northwest Pipeline Corporation
Attention: Betty R. Burnett
One Park Central, Suite 1487
Denver, Colorado 80202

Gentlemen:

Your 1979 plan of development dated April 2, 1979, for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico, submitted for approval, has been reviewed by this office.

Our records show the Rosa unit area is subject to drainage by the following wells:

<u>Well</u>	<u>Location</u> <u>1/4 Sec., T., R.,</u>	<u>Formation</u>	<u>Date</u> <u>Completed</u>	<u>I. P.</u>
No. 29	NENE Sec. 36-31N - 6W	Mesaverde	11-11-77	7,847 MCFFPD
No. 30	NENE Sec. 35-31N - 6W	Mesaverde	7-18-78	4,453 MCFFPD
No. 1	SESE Sec. 33-32N - 5W	Dakota	7-20-73	2,111 MCFFPD
No. 3	SESE Sec. 33-32N - 5W	Mesaverde	9-17-74	2,302 MCFFPD
No. 1	SWSW Sec. 34-32N - 5W	Dakota	6-28-73	2,313 MCFFPD
No. 1	SWSE Sec. 28-32N - 6W	Dakota	12-1-71	401 MCFFPD
		Mesaverde	10-22-78	2,902 MCFFPD
No. 15	SESE Sec. 27-32N - 6W	Mesaverde	8-21-62	2,525 MCFFPD

Please advise this office of your plans to protect the Rosa unit area from drainage by the above Mesaverde and Dakota wells. Such advice will expedite consideration of the 1979 Plan of Development by this office.

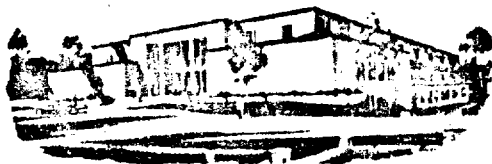
Sincerely yours,

(ORIG. SGD.) JACK WILLOCK

Acting Oil and Gas Supervisor, SRMA

cc: NMOC, Santa Fe ← This Copy for
Com. Pub. Lands, Santa Fe

State of New Mexico



Commissioner of Public Lands

April 11, 1979

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1979 Drilling Program

ATTENTION: Betty R. Burnett

Gentlemen:

The Commissioner of Public Lands has this date approved your 1979 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico. Such plan proposes the drilling of wells no. 67, 68 and 69. 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) Filing fee.

Very truly yours,

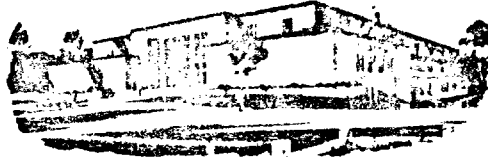
ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

AJA/RDG/s
encls.

cc: OCD-Santa Fe, New Mexico ✓
 USGS-Roswell, New Mexico
 USGS-Albuquerque, New Mexico

State of New Mexico



Commissioner of Public Lands

April 4, 1979

ALEX J. ARMIJO
COMMISSIONER

P. O. Box 1148
SANTA FE, NEW MEXICO

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

133

Re: Rosa Unit
San Juan & Rio Arriba
Counties, New Mexico
DESIGNATION OF SUB-OPERATOR

ATTENTION: Carol A. Kates

Gentlemen:

The Commissioner of Public Lands has this date approved the "Designation of Sub-Operator" whereby Amoco Production Company has been designated Sub-Operator to drill the following wells in the Dakota formation.

Rosa No. 67	E/2 Sec. 14, T 31N-R 6W
Rosa No. 68	W/2 Sec. 17, T 31N-R 5W
Rosa No. 69	N/2 Sec. 16, T 31N-R 6W

This 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.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

AJA/RDG/s
encl.

cc: OCD-Santa Fe, New Mexico
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

April 5, 1979

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Betty R. Burnett

Re: Case No. 133
Rosa Unit
1979 Drilling Program

Gentlemen:

We hereby approve the 1979 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, 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

C
O
P
Y

NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

April 2, 1979

Mr. James A. Gillham
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Approve
no. 133

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1979 Drilling Program

Gentlemen:

By letter dated April 12, 1979, Northwest Pipeline Corporation, Unit Operator, filed a drilling program for the Rosa Unit providing for three Dakota wells during the calendar year 1978, and by letter dated August 9, 1978, filed a supplemental drilling program for the Rosa Unit providing for recompletion of the Rosa Unit No. 54 in the Pictured Cliffs. These wells were timely drilled.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the unit is as follows:

Mesaverde, commercial	24
Mesaverde, noncommercial	1
Mesaverde, plugged and abandoned	4
Dakota, noncommercial	9
Dakota, commerciality	
not determined	6
Dakota, plugged and abandoned	2
Mesaverde-Dakota (Mesaverde	
not completed)	<u>1</u>

TOTAL 47

Mr. James Gillham, et al
Page 2
April 2, 1979

Amoco attempted to recomplete the Rosa Unit No. 54 in the Pictured Cliffs, but we do not know the results of this operation and, therefore, continue to show this well as noncommercial in the Dakota in our recap of wells in the Rosa Unit.

Northwest has contacted all of the working interest owners and has received the necessary concurrence to propose the following wells be drilled during the calendar year 1979:

<u>Well No.</u>	<u>Drilling Block</u>	<u>Formation</u>
67	E/2 Section 14-31N-6W	Dakota
68	W/2 Section 17-31N-5W	Dakota
69	N/2 Section 16-31N-6W	Dakota

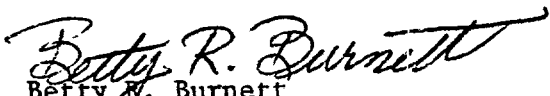
Amoco Production Company will drill these test wells under the provisions of Section 12 of the Rosa Unit Agreement and Northwest Pipeline Corporation will formally designate Amoco as Suboperator for the drilling of these wells.

Northwest Pipeline Corporation, 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 may be requested by the Unit Operator or the working interest owners.

If this drilling program 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 one (1) copy to this office.

Copies of this drilling program are being sent to the working interest owners as shown on the attached list.

Yours very truly,


Betty R. Burnett
Supervisor of Contracts and Units

BRB:vh
Attachment

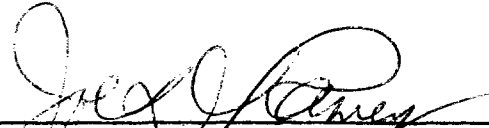
cc: Working Interest Owners

APPROVED: _____
Area 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:  _____
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey and
The Commissioner of Public Lands

DATE: 4/6/79

The foregoing approvals are for the Rosa Unit, I Sec. No. 587, San Juan and Rio Arriba Counties, New Mexico, 1979 Drilling Program.

ROSA UNIT

Working Interest Owners

The Wiser Oil Company
P. O. Box 2467
Hobbs, New Mexico 88240

Ms. Lois J. Willard
P. O. Box 5205
Santa Fe, New Mexico 87501

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1719 Colorado National Building
950 Seventeenth Street
Denver, Colorado 80202

El Paso Natural Gas Company
Attention: Mr. James R. Permenter
P. O. Box 1492
El Paso, Texas 79978

Phillips Petroleum Company
Attention: Mr. N. N. Beckner
Woodside II, Greenwood Plaza
7800 East Dorado Place
Englewood, Colorado 80111

Amoco Production Company
Attention: Mr. T. M. Curtis
1000 Security Life Building
Denver, Colorado 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, Texas 77002

J. Glenn Turner, Jr., Independent
Co-Executor of Estate of J. Glenn Turner, Deceased
1700 Mercantile Bank Building
Dallas, Texas 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, Texas 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, Texas 79902

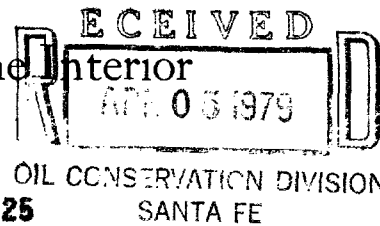
Gas Producing Enterprises, Inc.
Attention: North Region Land Department
2100 Prudential Plaza
P. O. Box 749
Denver, Colorado 80201



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125



OIL CONSERVATION DIVISION
SANTA FE

APR 04 1979

Northwest Pipeline Corporation
Attention: Ms. Carol A. Kates
One Park Central, Suite 1487
Denver, Colorado 80202

No. 133

Gentlemen:

Your letter of March 28 transmitted a copy of a "Designation of Sub-Operator" instrument whereby Northwest Pipeline Corporation, as unit operator under the Rosa unit agreement, designates Amoco Production Company as sub-operator for the drilling of unit Dakota wells No. 67, 68 and 69, Rio Arriba County, New Mexico.

The designation instrument is hereby accepted as a designation of agent from Northwest Pipeline Corporation. Such acceptance, however, does not relieve Northwest Pipeline Corporation of its responsibility as unit operator to assume operations of any well on the above described land that is determined to qualify for inclusion in a Dakota participating area.

Please note your records that four copies of the aforementioned instrument are required for processing by this office.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Oil and Gas Supervisor, SRMA

cc:

Amoco Production Company
Security Life Building
Denver, CO 80202

BLM, Santa Fe (w/attach)
Com. Pub. Lands, Santa Fe (ltr. only)
NMOCD, Santa Fe (ltr. only)

NORTHWEST PIPELINE CORPORATION

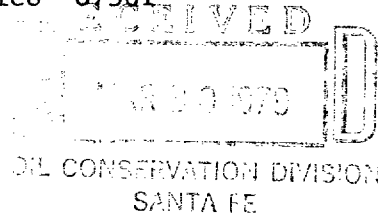
ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

March 28, 1979

Mr. James A. Gillham
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Mr. Ray D. Graham
Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

Mr. Joe Ramey
Oil Conservation Commission
Post Office Box 2088
Santa Fe, New Mexico 87501



Re: Rosa Unit
San Juan & Rio Arriba
Counties, New Mexico

Gentlemen:

Enclosed for your approval is copy of "Designation of Sub-Operator" from Northwest Pipeline Corporation, as Operator of the Rosa Unit, to Amoco Production Company, authorizing Amoco to drill the following wells in the Dakota formation.

Rosa No. 67	E/2 Sec. 14, T 31N-R 6W
Rosa No. 68	W/2 Sec. 17, T 31N-R 5W
Rosa No. 69	N/2 Sec. 16, T 31N-R 6W

Please advise your approval of this Designation of Sub-Operator.

Very truly yours,
Carol A. Kates
Carol A. Kates
Land Records Coordinator

CAK:cw

cc: Amoco Production Company W/encl
Attn: Mr. A.M. Roney
Security Life Building
Denver, Colorado 80202

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this 28th day of February, 1979, by and between Northwest Pipeline Corporation, a Delaware corporation, whose mailing address is Suite 1487, One Park Central, Denver, Colorado 80202 (hereinafter sometimes referred to as "Operator"), and AMOCO PRODUCTION COMPANY, a Delaware corporation, whose mailing address is Security Life Building, Denver, Colorado 80202 (hereinafter sometimes referred to as "Sub-Operator");

WHEREAS, Operator is Unit Operator for the Rosa Unit, I Sec. No. 587, located in the Counties of Rio Arriba and San Juan, New Mexico; and

WHEREAS, Sub-Operator desired to drill three Dakota wells on the following described lands, situated in Rio Arriba County, New Mexico, pursuant to the provisions of Section Twelve (12) of the Rosa Unit Agreement, to-wit:

1) SF 078762

T-31-N, R-6-W
Section 14: NE/4
Containing 320.00 acres, more or less.

2) SF 078769

T-31-N, R-5-W
Section 17: SW/4
Containing 320.00 acres, more or less.

3) SF 078766

T-31-N, R-6-W
Section 16: NW/4
Containing 320.00 acres, more or less.

WHEREAS, the above described land is committed to the terms and conditions of the Rosa Unit Agreement and Rosa Unit Operating Agreement; and

WHEREAS, Sub-Operator has been furnished Notice of Operator's election not to drill said Dakota wells as Unit Operator under the terms of the Unit Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tracts; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said Dakota wells may be drilled by Sub-Operator;

NOW, THEREFORE, in order to permit Amoco Production Company to drill the above described Dakota wells, Northwest Pipeline Corporation, as Unit Operator of the Rosa Unit, hereby designates the said Amoco Production Company as Sub-Operator for the sole and only purpose of drilling the said Dakota wells on the above described lands pursuant to Section Twelve (12) of the Rosa Unit Agreement.

Sub-Operator indicates his acceptance of this Designation by placing his signature in the space provided below and agrees to drill, complete and/or plug and abandon said Dakota wells as a reasonable and prudent Operator in accordance with the terms and conditions of the Rosa Unit Agreement and the Rosa Unit Operating Agreement, and also agrees to the following conditions:

1. Unit Operator's representative shall approve all casing programs and equipment specifications prior to the drilling of any well.
2. Notify Operator when drilling operations are commenced.
3. Furnish Operator with complete daily driller's tour report, at Sub-Operator's expense.
4. Furnish Operator 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.

5. Allow representatives of Operator access to the derrick floor at all times.
6. Notify Operator of intentions to core, drill stem test or run well surveys in sufficient time to enable Operator's representatives to be present; and also notify Operator in sufficient time in order that Operator may attend and witness any and all potential tests.
7. Adequately test and/or core all possible productive formations to the satisfaction of Operator upon request.
8. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three (3) preliminary copies and three (3) final copies of the analysis report to Operator.
9. Furnish Operator three (3) field prints and five (5) final prints of all well surveys made during drilling or upon completion of wells.
10. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of wells.
11. Provide Operator with copies of drilling time records, hole deviation tests and all records required by the governmental agencies having jurisdiction of the wells.
12. Notify Operator of any intention to plug and abandon and allow Operator forty-eight (48) hours in which to concur.
13. As to all operations hereunder, Sub-Operator shall carry and file with Operator, for its approval, evidence of Workmen's Compensation and Employers Liability insurance with limits of \$500,000 for each occurrence in accordance with state, provincial, and federal laws including Longshoremen's and Harbor Worker's and as extended to Outer Continental Shelf Operations and other maritime laws, as applicable. If under the laws of the jurisdiction in which operations are conducted Sub-Operator is authorized to be a self-insurer as to workmen's compensation or employers' liability, Sub-Operator may elect to be a self-insurer under such laws.

Sub-Operator shall not be required to carry any other insurance. The liability, if any, of the Sub-Operator hereto in damages for claims growing out of personal injury to or death of third persons or injury or destruction of property of third parties resulting from the operation and development of the premises covered hereby shall be borne by the Sub-Operator. Sub-Operator shall require all third party contractors performing work in or on the premises covered hereby to carry such insurance and in such amounts as Sub-Operator shall deem necessary.

14. Furnish the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico, with a copy to Operator at the addresses hereinafter provided.
15. Provide the Commissioner of Public Lands of the State of New Mexico with copies of all reports and other well data submitted in accordance with the preceding paragraph.

All notices, samples, or other information required to be furnished shall be sent to:

Northwest Pipeline Corporation
Suite 1487, One Park Central
Denver, Colorado 80202
Attn: Land Department

with copies to:

Northwest Pipeline Corporation
501 Airport Drive
Farmington, New Mexico 87401

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 wells pursuant to the provisions of the Rosa Unit Operating Agreement.

The drilling of the said Dakota wells 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 two hundred and seventy (270) days.

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

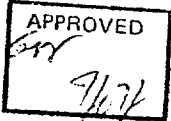
NORTHWEST PIPELINE CORPORATION

By: R. W. Keener
Vice President

SUB-OPERATOR

AMOCO PRODUCTION COMPANY

By: [Signature]
Attorney-in-Fact



ATTEST:

Barbara Moreno
ASSISTANT SECRETARY

DR:sls
021679

STATE OF UTAH)
COUNTY OF SALT LAKE) ss.

The foregoing instrument was acknowledged before me,
this 23rd day of March, 1979, by R. W. Keener,
as the Vice President of NORTHWEST PIPELINE CORPORATION,
a Delaware corporation, on behalf of the Corporation.

Laura M. Wirthlin
Notary Public

My Commission expires:

May 3, 1982

STATE OF COLORADO)
CITY AND) ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me
this 28 day of February, 1979, by A.M. Roney,
Attorney-in-Fact of AMOCO PRODUCTION COMPANY, a Delaware
corporation, on behalf of said corporation.

Louis J. Sauerland
Notary Public

My Commission expires:

8-1-82

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

August 18, 1978

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Betty R. Burnett

Re: Case No. 133
Rosa Unit Well No. 54
Designation of Sub-Operator

Gentlemen:

We hereby approve the designation of Amoco Production Company as Sub-Operator for the purpose of recompleting the Rosa Unit Well No. 54, SW/4 of Section 36, Township 31 North, Range 5 West, Rio Arriba County, New Mexico, in the Pictured Cliffs formation.

This approval is subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Very truly yours,

JOE D. RAMEY
Director

JDR/LT/fd

cc: U.S.G.S. - Roswell
Commissioner of Public Lands

C
O
P
Y

NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

August 9, 1978

Mr. James A. Gillham
U. S. Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Mr. Ray O. Graham
Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

Mr. Joe Ramey
Oil Conservation Division
Energy and Minerals Department
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Rosa Unit Well #54
SW/4 Section 36-31N-5W
Rio Arriba County, New Mexico

Enclosed for your approval is copy of "Designation of Sub-Operator" from Northwest Pipeline Corporation, as Operator of the Rosa Unit, and Amoco Production Company for the purpose of recompleting the captioned Dakota Well in the Pictured Cliffs formation.

Please advise your approval of this Designation of Sub-Operator.

Sincerely,

Betty Burnett

Betty R. Burnett
Supervisor of Contracts and Units

BRB:law
Attachment - 1

xc: Amoco Production Company w/encl.
Security Life Building
Denver, Colorado 80202

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this 6th day of July, 1978, by and between Northwest Pipeline Corporation, a Delaware corporation, whose mailing address is Suite 1487, One Park Central, Denver, Colorado 80202 (hereinafter sometimes referred to as "Operator"), and AMOCO PRODUCTION COMPANY, a Delaware corporation, whose mailing address is Security Life Building, Denver, Colorado 80202 (hereinafter sometimes referred to as "Sub-Operator");

WHEREAS, Operator is Unit Operator for the Rosa Unit, I Sec. No. 587, located in the Counties of Rio Arriba and San Juan, New Mexico; and

WHEREAS, Sub-Operator desires to recomplete one Dakota well to the Pictured Cliffs on the following-described land, situated in Rio Arriba County, New Mexico, pursuant to the provisions of Section Twelve (12) of the Rosa Unit Agreement, to-wit:

1) SF 078768

T-31-N, R-5-W
Section 36: SW/4
Containing 160 acres, more or less.

WHEREAS, the above-described land is committed to the terms and conditions of the Rosa Unit Agreement and Rosa Unit Operating Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tracts; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said Dakota well may be recompleted by Sub-Operator;

NOW, THEREFORE, in order to permit Amoco Production Company to recomplete the above described Dakota well, Northwest Pipeline Corporation, as Unit Operator of the Rosa Unit,

hereby designates the said Amoco Production Company as Sub-Operator for the sole and only purpose of recompleting the said Dakota well to the Pictured Cliffs on the above described lands pursuant to Section Twelve (12) of the Rosa Unit Agreement.

Sub-Operator indicates his acceptance of this Designation by placing his signature in the space provided below and agrees to recomplete and/or plug and abandon said Dakota well as a reasonable and prudent Operator in accordance with the terms and conditions of the Rosa Unit Agreement and the Rosa Unit Operating Agreement, and also agrees to the following conditions:

1. Unit Operator's representative shall approve all casing programs and equipment specifications prior to the drilling of any well.
2. Notify Operator when drilling operations are commenced.
3. Furnish Operator with complete daily driller's tour report, at Sub-Operator's expense.
4. Furnish Operator 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.
5. Allow representatives of Operator access to the derrick floor at all times.
6. Notify Operator of intentions to core, drill stem test or run well surveys in sufficient time to enable Operator's representatives to be present; and also notify Operator in sufficient time in order that Operator may attend and witness any and all potential tests.
7. Adequately test and/or core all possible productive formations to the satisfaction of Operator upon request.
8. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three (3) preliminary copies and three (3) final copies of the analysis report to Operator.
9. Furnish Operator three (3) field prints and five (5) final prints of all well surveys made during drilling or upon completion of wells.

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 recomplate or plug and abandon the subject Dakota well pursuant to the provisions of the Rosa Unit Operating Agreement.

The recompletion 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 two hundred and seventy (270) days.

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

NORTHWEST PIPELINE CORPORATION

By: R. W. Keener
Vice President

SUB-OPERATOR

AMOCO PRODUCTION COMPANY

By: Frederick I. Mose
Attorney-in-Fact

ATTEST:

Barbara Moreno
ASSISTANT SECRETARY

APPROVED
OGC

7-27-78
MSTW

APPROVED
462
7/27

STATE OF UTAH

)

) ss.

COUNTY OF SALT LAKE

)

The foregoing instrument was acknowledged before me,
this 17th day of August, 1978, by R. W. Keener,
as the Vice President of NORTHWEST PIPELINE CORPORATION,
a Delaware corporation, on behalf of the Corporation

Laura M. Withlin
Notary Public

My Commission expires:

May 3, 1982

STATE OF COLORADO

)

CITY AND

) ss.

COUNTY OF DENVER

)

The foregoing instrument was acknowledged before me
this 6th day of July, 1978, by Frederick J. Mori,
Attorney-in-Fact of AMOCO PRODUCTION COMPANY, a Delaware
corporation, on behalf of said corporation.

Mary Ann Beck
Notary Public

My Commission expires:

12/15/79

DR:ljf
062378

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

August 18, 1978

Northwest Exploration Company
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Betty R. Burnett

Re: Case No. 133
Rosa Unit
Supplemental 1978
Drilling Program

Gentlemen:

We hereby approve the Supplemental 1978 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Two approved copies of the Supplemental Drilling Program are returned herewith.

Very truly yours,

JOE D. RAMEY
Director

JDR/LT/fd
enc.

cc: U.S.G.S. - Roswell
Commissioner of Public Lands

C
O
P
Y

NORTHWEST EXPLORATION COMPANY

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

August 9, 1978

Mr. James A. Gillham
U. S. Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Mr. Ray D. Graham
Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

Mr. Joe Ramey
Oil Conservation Division
Energy and Minerals Department
Post Office Box 2088
Santa Fe, New Mexico 87501

Approve

No. 133

Re: Rosa Unit, I Section No. 587
San Juan and Rio Arriba Counties,
New Mexico
Supplemental 1978 Drilling Program

Gentlemen:

By letter dated April 12, 1978, Northwest Pipeline Corporation, Unit Operator, filed a drilling program for the captioned unit for the Calendar Year 1978 providing for the drilling of three Dakota wells.

Amoco Production Company has requested the following Dakota well be recompleted in the Pictured Cliffs formation during 1978:

<u>Well No.</u>	<u>Location</u>	<u>Formation</u>
54	SW/4 Section 36-31N-5W	Recomplete in Pictured Cliffs

Northwest has contacted all of the working interest owners and has received the necessary concurrence to propose this recompletion. Pursuant to the provisions of Section 12 of the Rosa Unit Agreement, Northwest will formally designate Amoco Production Company for this recompletion operation.

(Continued)

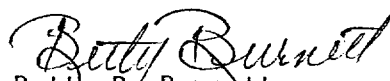
Messrs. Gillham, Graham, and Ramey

August 9, 1978
Page Two

If this supplemental drilling program 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 one (1) copy to this office.

Copies of this supplemental program are being sent to the working interest owners as shown on the attached list.

Very truly yours,

A handwritten signature in cursive script, reading "Betty R. Burnett".

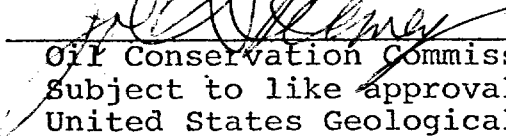
Betty R. Burnett
Supervisor of Contracts and Units

BRB:law

cc: Working Interest Owners

APPROVED: _____ DATE: _____
Area 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

APPROVED:  _____ DATE: _____
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 Rosa Unit, I Sec. No. 587, San Juan
and Rio Arriba Counties, New Mexico, Supplemental 1978 Drilling Program.



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

AUG 17 1978

Northwest Exploration Company
Attention: Betty R. Burnett
One Park Central, Suite 1487
Denver, Colorado 80202

No. 133

Gentlemen:

One approved copy of your Supplemental 1978 plan of development for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico, is enclosed. Such plan, proposing recompletion of a Dakota well in the Pictured Cliffs formation was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) GENE F. DANIEL

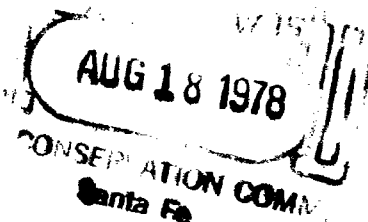
ACTING Oil and Gas Supervisor, SRMA

Enclosure

cc:

NMOCD, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)

This Copy for



NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

August 24, 1978

Mr. James A. Gillham
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Mr. Ray D. Graham
Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

✓ Mr. Joe Ramey
Oil Conservation Division
Energy and Minerals Department
Post Office Box 2088
Santa Fe, New Mexico 87501

W. 133

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1978 Supplemental Drilling Program

Gentlemen:

The 1978 Supplemental Drilling Program filed on August 9, 1978 for the Rosa Unit has been approved by the regulatory agencies as follows:

U. S. Geological Survey	- August 17, 1978
Oil Conservation Division	- August 18, 1978
Commissioner of Public Lands	- August 21, 1978

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

Sincerely,

Betty R. Burnett

Betty R. Burnett
Supervisor of Contracts and Units

BRB:fb
Attachment - 1

ROSA UNIT - Working Interest Owners

The Wiser Oil Company
P.O. Box 2467
Hobbs, New Mexico 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

El Paso Natural Gas Company
Attention: Mr. James R. Permenter
Post Office Box 1492
El Paso, Texas 79978

Phillips Petroleum Company
Attention: Mr. N. N. Beckner
1000 Security Life Building
Denver, Colorado 80202

Amoco Production Company
Attention: Mr. T. M. Curtis
1000 Security Life Building
Denver, Colorado 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, Texas 77002

Mr. J. Glenn Turner, Jr.,
Independent Co-Executor of the
Estate of J. Glenn Turner, Deceased
1700 Mercantile Bank Building
Dallas, Texas 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, Texas 75201

Ms. Winifred K. Ponder
1800 North Stanton Street
El Paso, Texas 79902

Gas Producing Enterprises, Inc.
Attention: North Region Land Dept.
2100 Prudential Plaza
Post Office Box 749
Denver, Colorado 80201

Mr. John R. Brennand
Post Office Box 2184
Santa Fe, New Mexico 87501

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1719 Colorado National Building
950 Seventeenth Street
Denver, Colorado 80202



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

APR 20 1978

Northwest Pipeline Corporation
Attention: Ms. Betty R. Burnett
One Park Central, Suite 1487
Denver, Colorado 80202

no. 133

Gentlemen:

Your 1973 plan of development for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico. Such plan proposes the drilling of three Dakota wells by Amoco Production Company under a formal designation of sub-operator from Northwest Pipeline Corporation.

One approved copy of the plan is returned herewith.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

Enclosure

CC:
Com. Pub. Lands, Santa Fe (ltr. only)
NMOCC, Santa Fe (ltr. only) *← This Copy for*



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

APR 21 1978

Amoco Production Company
Attention: Mr. H. S. Kraemer
Security Life Building
Denver, Colorado 80202

no. 133

Gentlemen:

Your letter of April 12, 1978, transmits three copies of a "Designation of Sub-Operator" instrument whereby Northwest Pipeline Company, as unit operator under the Rosa unit agreement, Rio Arriba County, New Mexico, designates Amoco Production Company as sub-operator for the drilling of the three following Dakota wells:

Unit well No. 64 - E $\frac{1}{2}$ sec. 29, T. 31 N., R. 6 E., S. 22 N.
Unit well No. 65 - E $\frac{1}{2}$ sec. 17, T. 31 N., R. 6 E., S. 22 N.
Unit well No. 66 - W $\frac{1}{2}$ sec. 13, T. 31 N., R. 6 E., S. 22 N.

The designation instrument is hereby accepted as a designation of agent from Northwest Pipeline Corporation, and copies are being sent to the appropriate Federal offices. However, such acceptance does not relieve Northwest Pipeline Corporation of its responsibilities as unit operator to assume operations of any well on the above described land that is determined to qualify for inclusion in a Dakota participating area.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area Oil & Gas Supervisor

cc:
Northwest Pipeline Corporation
Suite 1407
One Park Central
Denver, Colorado 80202

BLM, Santa Fe (w/cy instr.)
Com. Pub. Lands, Santa Fe (ltr. only)
NMOCC, Santa Fe (ltr. only) This Copy for

ILLEGIBLE

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

April 18, 1978

**Amoco Production Company
Security Life Building
Denver, Colorado 80202**

Attention: M. S. Kraemer

**Re: Case No. 133
Rosa Unit
Designation of Sub-Operator**

Gentlemen:

We hereby approve the designation of Amoco Production Company as Sub-Operator for the purpose of drilling the following wells to test the Dakota formation:

**No. 64 E/2, Section 29, T31N, R5W
No. 65 E/2, Section 17, T31N, R5W
No. 66 W/2, Section 13, T31N, R6W**

This approval is subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Very truly yours,

**JOE D. RAMEY
Director**

JDR/fd

**cc: U.S.G.S. - Roswell
Commissioner of Public Lands**

NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

May 1, 1978

Mr. James A. Gillham
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

no. 133

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1978 DRILLING PROGRAM

Gentlemen:

The 1978 Drilling Program filed on April 12, 1978 for the Rosa Unit has been approved by the regulatory agencies as follows:

Commissioner of Public Lands	April 18, 1978
Oil Conservation Commission	April 18, 1978
U.S. Geological Survey	April 20, 1978

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

Sincerely,

M. Kozack for

Betty R. Burnett
Supervisor of Contracts and Units

BRB:fb

cc: Rosa Unit Working Interest Owners

ROSA UNIT

WORKING INTEREST OWNERS

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, TX 75201

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

Phillips Petroleum Company
Attention: N. N. Beckner
1000 Security Life Building
Denver, CO 80202

Amoco Production Company
Attention: T. M. Curtis
1000 Security Life Building
Denver, CO 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, TX 77002

J. Glenn Turner, Jr., Independent
Co-Executor of Estate of J. Glenn
Turner, Deceased
1700 Mercantile Bank Building
Dallas, TX 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, TX 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, TX 79902

Gas Producing Enterprises, Inc.
Attention: North Region-Land Dep't.
2100 Prudential Plaza
P. O. Box 749
Denver, CO 80201

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, NM 87501

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1719 Colorado National Building
950 Seventeenth Street
Denver, Colorado 80202



Amoco Production Company

Security Life Building
Denver, Colorado 80202

M. S. Kraemer
Division Production
Manager

A. M. Roney
Division Operations
Superintendent

T. M. Curtis
W. M. Jones
Production Coordination
Superintendents

April 12, 1978

Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, NM 88201

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

File: WGL-1212-416

Rosa Unit No. 64
E/2 Section 29-T31N-R5W
Rosa Unit No. 65
E/2 Section 17-T31N-R5W and
Rosa Unit No. 66
W/2 Section 13-T31N-R6W
Rio Arriba County, NM

No. 133

We submit herewith for your approval a designation of sub-operator agreement executed by Northwest Pipeline Corporation as operator of the Rosa Unit and Amoco Production Company as proposed sub-operator.

This agreement is to authorize Amoco Production Company to drill the above referenced wells to test the Dakota formation.

Your early attention to this request will be appreciated.

Original Signed
M. S. KRAEMER

[Signature]

HLM/fet

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this _____ day of _____, 1978, by and between Northwest Pipeline Corporation, a Delaware corporation, whose mailing address is Suite 1487, One Park Central, Denver, Colorado, 80202 (hereinafter sometimes referred to as "Operator"), and Amoco Production Company, a Delaware corporation, whose mailing address is Security Life Building, Denver, Colorado, 80202 (hereinafter sometimes referred to as "Sub-Operator");

WHEREAS, Operator is Unit Operator for the Rosa Unit, I Sec. No. 587, located in the counties of Rio Arriba and San Juan, New Mexico; and

WHEREAS, Sub-Operator desires to drill three Dakota wells on the following-described lands, situated in Rio Arriba County, New Mexico, pursuant to the provisions of Section Twelve (12) of the Rosa Unit Agreement, to-wit:

- 1) SF 078764 & SF 079165
T-31-N, R-5-W
Section 29: E/2
Containing 320.00 acres, more or less
- 2) SF 078769
T-31-N, R-5-W
Section 17: E/2
Containing 320.00 acres, more or less
- 3) SF 078767
T-31-N, R-6-W
Section 13: W/2
Containing 320.00 acres, more or less

WHEREAS, the above-described land is committed to the terms and conditions of the Rosa Unit Agreement and Rosa Unit Operating Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tracts; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said Dakota wells may be drilled by Sub-Operator;

NOW, THEREFORE, in order to permit Amoco Production Company to drill the above described Dakota wells, Northwest Pipeline Corporation, as Unit Operator of the Rosa Unit, hereby designates the said Amoco Production Company as Sub-Operator for the sole and only purpose of drilling the said Dakota wells on the above described lands pursuant to Section Twelve (12) of the Rosa Unit Agreement.

Sub-Operator indicates his acceptance of this Designation by placing his signature in the space provided below and agrees to drill, complete and/or plug and abandon said Dakota wells as a reasonable and prudent Operator in accordance with the terms and conditions of the Rosa Unit Agreement and the Rosa Unit Operating Agreement, and also agrees to the following conditions:

1. Unit Operator's representative shall approve all casing programs and equipment specifications prior to the drilling of any well.
2. Notify Operator when drilling operations are commenced.
3. Furnish Operator with complete daily driller's tour report, at Sub-Operator's expense.
4. Furnish Operator 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.
5. Allow representatives of Operator access to the derrick floor at all times.
6. Notify Operator of intentions to core, drill stem test or run well surveys in sufficient time to enable Operator's representatives to be present; and also notify Operator in sufficient time in order that Operator may attend and witness any and all potential tests.

7. Adequately test and/or core all possible productive formations to the satisfaction of Operator upon request.
8. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three (3) preliminary copies and three (3) final copies of the analysis report to Operator.
9. Furnish Operator three (3) field prints and five (5) final prints of all well surveys made during drilling or upon completion of wells.
10. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of wells.
11. Provide Operator with copies of drilling time records, hole deviation tests and all records required by the governmental agencies having jurisdiction of the wells.
12. Notify Operator of any intention to plug and abandon and allow Operator forty-eight (48) hours in which to concur.
13. As to all operations hereunder, Sub-Operator shall carry and file with Operator, for its approval, evidence of Workmen's Compensation and Employers Liability insurance with limits of \$500,000 for each occurrence in accordance with state, provincial, and federal laws including Longshoremen's and Harbor Worker's and as extended to Outer Continental Shelf Operations and other maritime laws, as applicable. If under the laws of the jurisdiction in which operations are conducted Sub-Operator is authorized to be a self-insurer as to workmen's compensation or employers' liability, Sub-Operator may elect to be a self-insurer under such laws.

Sub-Operator shall not be required to carry any other insurance. The liability, if any, of the Sub-Operator hereto in damages for claims growing out of personal injury to or death of third persons or injury or destruction of property of third parties resulting from the operation and development of the premises covered hereby shall be borne by the Sub-Operator. Sub-Operator shall require all third party contractors performing work in or on the premises covered hereby to carry such insurance and in such amounts as Sub-Operator shall deem necessary.

14. Furnish the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico, with a copy to Operator at the addresses hereinafter provided.

15. Provide the Commissioner of Public Lands of the State of New Mexico with copies of all reports and other well data submitted in accordance with the preceding paragraph.

All notices, samples, or other information required to be furnished shall be sent to:

Northwest Pipeline Corporation
Suite 1487, One Park Central
Denver, Colorado 80202
Attn: Land Department

with copies to:

Northwest Pipeline Corporation
501 Airport Drive
Farmington, New Mexico 87401

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 wells pursuant to the provisions of the Rosa Unit Operating Agreement.

The drilling of the said Dakota wells 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 two hundred and seventy (270) days.

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

ATTEST:

NORTHWEST PIPELINE CORPORATION

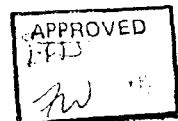
Barbara Moreno
ASSISTANT SECRETARY

By: R. W. Keener
Vice President
THIS DATE: 3-29-78

By: Wm SUB-OPERATOR

AMOCO PRODUCTION COMPANY

By: Fredrick J. More
Attorney-in-Fact



ROA/lcj
FY829

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

The foregoing instrument was acknowledged before me, this 31 day of March, 1977, by R. W. Keener, as the Vice President of NORTHWEST PIPELINE CORPORATION, a Delaware corporation, on behalf of the Corporation

Linda Poon
Notary Public

My Commission expires:

10-28-81

STATE OF COLORADO)
CITY AND) ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 13th day of April, 1978, by Fredrick J. More, Attorney-in-Fact of AMOCO PRODUCTION COMPANY, a Delaware corporation, on behalf of said corporation.

Mary Ann Beck
Notary Public

My Commission expires:

12/15/79

OIL CONSERVATION COMMISSION

**P. O. BOX 2088
SANTA FE, NEW MEXICO 87501**

April 13, 1978

**Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202**

Attention: Betty R. Burnett

**Re: Case No. 133
Rosa Unit
1978 Drilling Program**

Gentlemen:

We hereby approve the 1978 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Two approved copies of the Drilling Program are returned herewith.

Very truly yours,

**JOE D. RAMEY
Director**

**JDR/LT/fd
enc.**

**cc: U.S.G.S. - Roswell
Commissioner of Public Lands**

NORTHWEST PIPELINE CORPORATION

April 12, 1978

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
303-623-9303

Mr. James A. Gillham
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Approve

No. 133

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1978 Drilling Program

Gentlemen:

By letter dated May 12, 1977, Northwest Pipeline Corporation, Unit Operator, filed a drilling program for the Rosa Unit providing for three Dakota wells during the calendar year 1977. These wells were timely drilled.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the unit is as follows:

Mesaverde, commercial	24
Mesaverde, non-commercial	1
Mesaverde, plugged and abandoned	4
Dakota, non-commercial	9
Dakota, commerciality not determined	3
Dakota, plugged and abandoned	2
Mesaverde-Dakota (Mesaverde not completed)	<u>1</u>
Total	44

U.S. Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
April 12, 1978
page two

Northwest has contacted all of the working interest owners and has received the necessary concurrence to propose the following wells be drilled during the calendar year 1978:

<u>Well No.</u>	<u>Drilling Block</u>	<u>Formation</u>
64	E/2 Section 29-31N-5W	Dakota
65	E/2 Section 17-31N-5W	Dakota
66	W/2 Section 13-31N-6W	Dakota

Amoco Production Company will drill these test wells under the provisions of Section 12 of the Rosa Unit Agreement and Northwest Pipeline Corporation will formally designate Amoco as Sub-Operator for the drilling of these wells.

Northwest Pipeline Corporation, 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 may be requested by the Unit Operator or the working interest owners.

If this drilling program 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 one (1) copy to this office.

Copies of this drilling program are being sent to the working interest owners as shown on the attached list.

Sincerely,



Betty R. Burnett
Supervisor of Contracts and Units

BRB:mk
Attachments
cc: Working Interest Owners

ROSA UNIT

WORKING INTEREST OWNERS

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, TX 75201

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

Phillips Petroleum Company
Attention: N. N. Beckner
1000 Security Life Building
Denver, CO 80202

Amoco Production Company
Attention: T. M. Curtis
1000 Security Life Building
Denver, CO 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, TX 77002

J. Glenn Turner, Jr., Independent
Co-Executor of Estate of J. Glenn
Turner, Deceased
1700 Mercantile Bank Building
Dallas, TX 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, TX 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, TX 79902

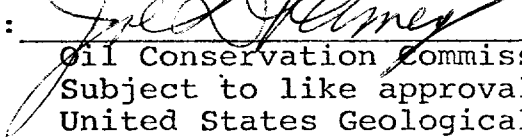
Gas Producing Enterprises, Inc.
Attention: North Region-Land Dep't.
2100 Prudential Plaza
P. O. Box 749
Denver, CO 80201

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, NM 87501

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
1719 Colorado National Building
950 Seventeenth Street
Denver, Colorado 80202

APPROVED: _____ DATE: _____
Area 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

APPROVED:  _____ DATE: 4/18/78
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 Rosa Unit, I Sec. No. 587,
San Juan and Rio Arriba Counties, New Mexico, 1978 Drilling Program

NORTHWEST PIPELINE CORPORATION

June 13, 1977



Mr. Carl C. Traywick
Assistant Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: 1977 Drilling Program
Rosa Unit I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the 1977 Drilling Program for the Rosa Unit was approved by the regulatory agencies on the following dates:

Oil Conservation Commission	May 16, 1977
Commissioner of Public Lands	May 18, 1977
U.S. Geological Survey	June 7, 1977

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

Sincerely,



Betty R. Burnett
Supervisor of Contracts and Units

BRB:me

cc: Working Interest Owners



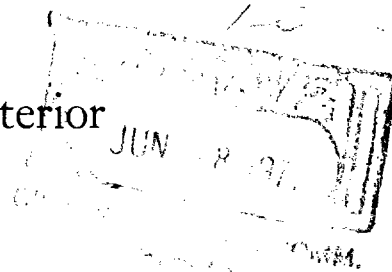
United States Department of the Interior

GEOLOGICAL SURVEY

Conservation Division

P. O. Box 26124

Albuquerque, New Mexico 87125



JUN 07 1977

Northwest Pipeline Corporation
Attention: Ms. Betty Barnett
One Park Central, Suite 1487
Denver, Colorado 80202

Gentlemen:

One approved copy of your 1977 plan of development for the Ross unit area, San Juan and Rio Arriba Counties, New Mexico, is enclosed.

Such plan proposes the drilling of three Dakota wells by Amoco Production Company as sub-operator on lands outside the existing Mesaverde participating area.

The plan was approved by this office on this date. Similar approval was granted by the Commissioner of Public Lands and the New Mexico Oil Conservation Commission on May 18, 1977, and May 16, 1977, respectively.

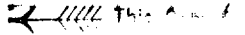
Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

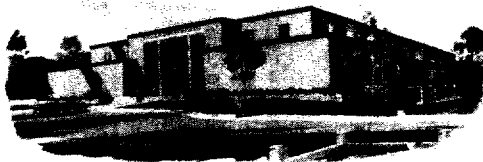
Enclosure

cc:

NMOCC, Santa Fe (ltr. only) 
Com. Pub. Lands, Santa Fe (ltr. only)

Rec-18-71
JRM
K

State of New Mexico



Commissioner of Public Lands



PHIL R. LUCERO
COMMISSIONER

May 18, 1977

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

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1977 DRILLING PROGRAM

ATTENTION: Betty R. Burnett

Gentlemen:

The Commissioner of Public Lands has this date approved your 1977 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico. This drilling program calls for the drilling of three Dakota wells during 1977. Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Enclosed is one approved copy for your files.

The Three (\$3.00) Dollar filing fee has been received.

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

PRL/RDG/s

encl.

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

Jan

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

163

May 16, 1977

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Miss Betty R. Burnett

Re: 1977 Drilling Program,
Rosa Unit, San Juan and Rio
Arriba Counties, 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 1977 providing for the drilling of three Dakota Wells for the Rosa Unit, San Juan and Rio Arriba Counties, 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,

JOE D. RAMEY
Secretary-Director

JDR/JEK/og

cc: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

May 12, 1977

Mr. Carl C. Traywick
Assistant Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1977 Drilling Program

Gentlemen:

By letter dated March 3, 1976, Northwest Pipeline Corporation, Unit Operator, filed a drilling program for the Rosa Unit providing for no well during the calendar year 1976.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the unit is as follows:

Mesaverde, commercial	24
Mesaverde, non-commercial	1
Mersaverde, plugged and abandoned	4
Dakota, non commercial	9
Dakota, plugged and abandoned	2
Mesaverde-Dakota (Mesaverde not completed)	<u>1</u>
Total	41

United States Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
May 12, 1977
page two

Northwest has contacted all of the working interest owners and has received the necessary concurrence to propose the following wells be drilled during the calendar year 1977:

<u>Well No.</u>	<u>Drilling Block</u>	<u>Formation</u>
61	W/2 Section 13-31N-5W	Dakota
62	W/2 Section 25-31N-5W	Dakota
63	E/2 Section 30-31N-4W	Dakota

Amoco Production Company will drill these test wells under the provisions of Section 12 of the Rosa Unit Agreement and Northwest Pipeline Corporation will formally designate Amoco as Sub-Operator for the drilling of these wells.

Northwest Pipeline Corporation, 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 may be requested by the Unit Operator or the working interest owners.

If this drilling program 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 one (1) copy to this office.

Copies of this drilling program are being sent to the working interest owners as shown on the attached list.

Sincerely,



Betty R. Burnett
Supervisor of Contracts and Units

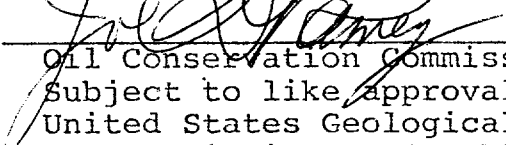
BRB:me

Attachments

cc: Working Interest Owners

APPROVED: _____ DATE: _____
Area 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

APPROVED:  _____ DATE: May 16, 1977
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 Rosa Unit, I Sec. No. 587,
San Juan and Rio Arriba Counties, New Mexico, 1977 Drilling
Program.

ROSA UNIT

WORKING INTEREST OWNERS

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, TX 75201

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

Phillips Petroleum Company
Attention: N. N. Beckner
1000 Security Life Building
Denver, CO 80202

Amoco Production Company
Attention: T. M. Curtis
1000 Security Life Building
Denver, CO 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, TX 77002

J. Glenn Turner, Jr., Independent
Co-Executor of Estate of J. Glenn
Turner, Deceased
1700 Mercantile Bank Building
Dallas, TX 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, TX 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, TX 79902

Colorado Oil & Gas Company
Attention: North Region-Land Dep't.
2100 Prudential Plaza
P. O. Box 749
Denver, CO 80201

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, NM 87501

Mitchell Energy Corporation
Attention: Mr. Jerry Taylor
2228 Lincoln Center Building
1660 Lincoln Street
Denver, Colorado 80203

NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

June 4, 1976

Mr. Carl C. Traywick
Acting Area Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba Counties
New Mexico
1976 Drilling Program


Gentlemen:

This is to advise that the 1976 Drilling Program of the Rosa Unit was approved by the regulatory agencies on the following dates:

Commissioner of Public Lands	May 5, 1976
Oil Conservation Commission	April 1, 1976
United States Geological Survey	June 1, 1976

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

Very truly yours,


Betty R. Burnett
Supervisor of Contracts and Units

BRB:cak
Attachment
cc: Working Interest Owners

ROSA UNIT

Working Interest Owners

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, TX 75201

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

Phillips Petroleum Company
Attention: N. N. Beckner
1000 Security Life Building
Denver, CO 80202

Amoco Production Company
Attention: T. M. Curtis
1000 Security Life Building
Denver, CO 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, TX 77002

J. Glenn Turner, Jr., Independent Co-
Executor of Estate of J. Glenn Turner,
Deceased 1700 Mercantile Bank Building
Dallas, TX 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, TX 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, TX 79902

Colorado Oil & Gas Company
Attention: North Region-Land Department
2100 Prudential Plaza
P. O. Box 749
Denver, Colorado 80201

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, New Mexico 87501



United States Department of the Interior - 2 1976

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

CONSERVATION COMM.
Santa Fe

153

June 1, 1976

Northwest Pipeline Corporation
Attention: Ms. Betty R. Burnett
One Park Central, Suite 487
Denver, Colorado 80202

Gentlemen:

One approved copy of your 1976 plan of development for the Ross unit area, San Juan and Rio Arriba Counties, New Mexico, is enclosed.

Such plan defers the drilling of additional wells pending evaluation of Well No. 56 production data which is currently shut-in awaiting Federal Power Commission certification.

Approval of the 1976 plan was made on this date and is subject to like approval by the appropriate State officials.

Sincerely yours,

(ORIG. SGL) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Durango (w/cy plan)
NMOCC, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)

JAGillham:dap

← This Copy for

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 13, 1976

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Betty R. Burnett

Re: Unit Well No. 56, Rosa
Unit, Rio Arriba County,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the determination of non-commercial status of Rosa Unit Well No. 56, located 2375 feet from the North line and 900 feet from the West line of Section 35, Township 31 North, Range 5 West, NMPM, 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.

Two approved copies of the application are returned herewith.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/JFK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

U. S. Geological Survey
Box 1857
Roswell, New Mexico

NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
(303) 623-9303

April 29, 1976

Mr. Carl C. Traywick
Acting Area Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
NOTICE OF COMPLETION OF
NON-COMMERCIAL WELL IN
DAKOTA FORMATION

Pursuant to the provisions of Section 10 of the Rosa Unit Agreement, Northwest Pipeline Corporation, as Unit Operator of the Rosa Unit, has determined the following-described well is not capable of producing unitized substances in paying quantities from the Dakota formation:

The Rosa Unit #56 well is located 2375' from the North line and 900' from the West line, Section 35, Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Amoco Production Company drilled this well under the designation of sub-operator from the Rosa Unit operator, Northwest Pipeline Corporation. The well was

United States Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
April 29, 1976
Page 2

spudded August 13, 1975 and reached the total depth of 8449' on September 1, 1975. The well was plugged back to 8400' and the Dakota formation was perforated with one jet shot per foot in the intervals 8202'-16', 8246'-66'; and 8296'-8308'. Each of the three intervals were treated with 500 gallons of 15% hydrochloric acid. On October 11, 1975 the perforated intervals were hydraulically fractured with 84,400 gallons of emulsifrac fluid and 309 pounds of sand. Tubing (2-3/8") was landed at 8327' and the wellhead was connected to a temporary line on October 16, 1975. On November 6, 1975 the well was flowed for 24 hours and produced 675 MCF of gas, 4 barrels of oil and 8 barrels of water. The flowing tubing pressure was 250 psig. A seven day shut-in bottom hole pressure of 3255 psig was recorded before the fracturing treatments.

The Rosa Unit Well No. 56 has been determined non-commercial on the basis of the following data:

<u>Est Recoverable Reserves (MMCF)</u>	<u>Est Life (Years)</u>	<u>Well Cost</u>	<u>Est Monthly Operating Expenses</u>
1165	34	\$430,808	\$66


The economics for this well were determined using a base gas price of 51¢/MCF with 1¢/Year price escalation to the economic limit of 15 MCF/Day. The investment in this well did not pay-out at a discounted cash flow of 8%.

If these determinations meet with your approval, please indicate such approval in the space provided and return one (1) 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,

NORTHWEST PIPELINE CORPORATION


Betty R. Burnett

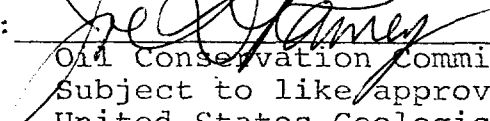
Supervisor of Contracts and Units

BRB:sjm
Enclosure

cc: Working Interest Owners

APPROVED: _____ DATE: _____
Area 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

APPROVED:  _____ DATE: July 13, 1917
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 Completion of Non-Commercial well in the Dakota Formation, Rosa Unit, I Sec. No. 587, San Juan and Rio Arriba Counties, New Mexico.

ROSA UNIT

Working Interest Owners

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, TX 75201

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

Phillips Petroleum Company
Attention: Mr. N.N. Beckner
1000 Security Life Building
Denver, CO 80202

Amoco Production Company
Attention: Mr. T. M. Curtis
Security Life Building
Denver, CO 80202

Mitchell Energy & Development Corp.
4026 One Shell Plaza
Houston, TX 77002

Mr. J. Glenn Turner
1700 Mercantile Bank Building
Dallas, TX 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, TX 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, TX 79902

Colorado Oil & Gas Company
Attention: Mr. Charles Titus
Denver Club Building
Denver, CO 80201

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, NM 87501

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

361

May 13, 1976

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Mr. John W. Shepardson

Re: 1976 Drilling Program,
Cox Canyon 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 nine Mesaverde wells for the Cox Canyon 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. RANNEY
Secretary-Director

XDR/JFK/oa

cc: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

Northwest Pipeline Corporation



ONE PARK CENTRAL
SUITE 1487
DENVER, COLORADO 80202
303-623-9303

May 10, 1976

Mr. Carl C. Traywick
Acting Area Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Cox Canyon Unit, I Sec. No. 946
San Juan County, New Mexico
1976 Drilling Program

By letter dated January 24, 1975, Northwest Pipeline Corporation, Unit Operator, filed a drilling program for the captioned unit for the calendar year 1975 providing for the drilling of no wells.

As of this date, the total number of wells drilled in the Cox Canyon Unit is as follows:

Pictured Cliffs, Commercial	9
Mesaverde, Commercial	8
TOTAL	<u>17</u>

Pursuant to Section 10 of the Cox Canyon Unit Agreement, Northwest Pipeline Corporation has contacted all of the working interest owners and has received the necessary concurrence to propose the drilling of the following infill wells during the calendar year 1976:

United States Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
May 10, 1976
Page 2

<u>Well No.</u>	<u>Spacing Unit</u>	<u>Formation</u>
32-11 Com #1A	S $\frac{1}{2}$ Sec. 20, T32N-R11W	Mesaverde
#1A	W $\frac{1}{2}$ Sec. 16, T32N-R11W	Mesaverde
#3A	S $\frac{1}{2}$ Sec. 9, T32N-R11W	Mesaverde
#4A	E $\frac{1}{2}$ Sec. 21, T32N-R11W	Mesaverde
#5A	W $\frac{1}{2}$ Sec. 21, T32N-R11W	Mesaverde
#6A	E $\frac{1}{2}$ Sec. 16, T32N-R11W	Mesaverde
#7A	E $\frac{1}{2}$ W $\frac{1}{2}$ & W $\frac{1}{2}$ E $\frac{1}{2}$ Sec. 17, T32N-R11W	Mesaverde
#8A	SE $\frac{1}{4}$ Sec. 8, E $\frac{1}{2}$ E $\frac{1}{2}$ Sec. 17, T32N-R11W	Mesaverde
Cox Canyon #9A Com	N $\frac{1}{2}$ Sec. 20, T32N-R11W	Mesaverde

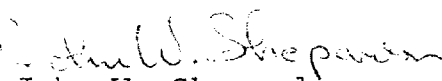
Each of these infill wells, with the exception of the New Mexico 32-11 Com #1A well and the Cox Canyon #9A Com well, will be drilled on a spacing unit presently within the existing Mesaverde Participating Area. The SW $\frac{1}{4}$ & W $\frac{1}{2}$ SE $\frac{1}{4}$ of Section 20, Township 32 North, Range 11 West is acreage under lease to Northwest Pipeline Corporation which lies outside the boundary of the Cox Canyon Unit. This acreage was communitized under contract No. 14-08-001-1052 with the E $\frac{1}{2}$ SE $\frac{1}{4}$ of Section 20, Township 32 North, Range 11 West located within the Mesaverde Participating Area to form the drilling block for the New Mexico 32-11 Com #1A well. The NW $\frac{1}{4}$ of Section 20, Township 32 North, Range 11 West is acreage under lease to Northwest Pipeline Corporation which lies outside the boundary of the Cox Canyon Unit. This acreage was communitized under contract No. 14-08-001-2944 with the NE $\frac{1}{4}$ of Section 20, Township 32 North, Range 11 West located within the Mesaverde Participating Area to form the drilling block for the Cox Canyon #9A Com well.

In addition to the above wells, Northwest Pipeline Corporation, 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 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.

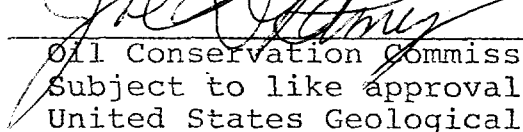
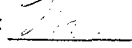
Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,


John W. Shepardson
Land Manager

APPROVED: _____ DATE: _____
Area 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

APPROVED:  DATE:  _____
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 Cox Canyon Unit,
I Sec. No. 946, San Juan County, New Mexico, 1976
Drilling Program.

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company
Attention: W. A. Walther, Jr.
1860 Lincoln Street - Suite 501
Denver, CO 80203

Continental Oil Company
Attention: Mr. L. P. Thompson
P. O. Box 460
Hobbs, NM 88240

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

Colorado Oil & Gas Corporation
(Attention: North Region-Land Department)
2100 Prudential Plaza
P. O. Box 749
Denver, CO 80201

Tenneco Oil Company
Attention: Mr. J. A. Dutton
Suite 1200, Lincoln Tower Building
1860 Lincoln Street
Denver, CO 80203



State of New Mexico



TELEPHONE
505-827-2748

133

Commissioner of Public Lands

PHIL R. LUCERO
COMMISSIONER

May 5, 1976

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

Northwest Pipeline Corporation
One Park Central
Suite 1487
Denver, Colorado 80202

Re: Rosa Unit
San Juan and Rio Arriba Counties
New Mexico
1976 Drilling Program

ATTENTION: Betty R. Burnett

Gentlemen:

The Commissioner of Public Lands has this date approved your 1976 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico. Your plan calls for the drilling of no wells during the calendar year 1976. You are also evaluating the production data on Well No. 56. This approval is subject to like approval by the United States Geological Survey.

Enclosed is one approved copy for your files.

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

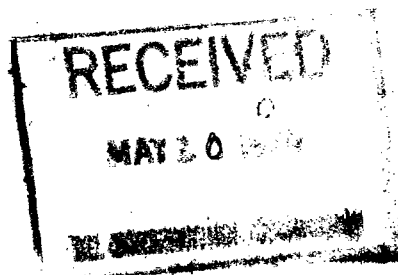
Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

PRL/RDG/s
encl.

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





Copy
DIRECTOR
JOE D. RAMEY

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

LAND COMMISSIONER
PHIL R. LUCERO

April 1, 1976



133
STATE GEOLOGIST
EMERY C. ARNOLD

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Betty R. Burnett

Re: 1976 Drilling Program
Rosa Unit, San Juan and
Rio Arriba Counties,
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 no wells during the calendar year 1976 for the Rosa Unit, San Juan and Rio Arriba Counties, 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,

JOE D. RAMEY
Secretary-Director

JDR/JEK/jr

cc: Commissioner of Public Lands - Santa Fe
U. S. Geological Survey - Roswell

Northwest Pipeline Corporation

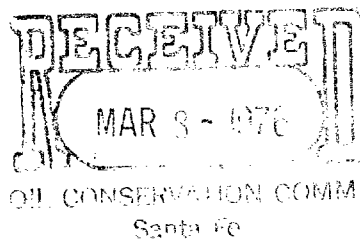


ONE PARK CENTRAL
SUITE 1487
DENVER, COLORADO 80202
303-623-9303

March 3, 1976

Mr. Carl C. Traywick
Acting Area Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501



Oil Conservation Commission
State of New Mexico
Attention: Mr. A. L. Porter, Jr.
Post Office Box 2008
Santa Fe, New Mexico 87501

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba Counties
New Mexico
1976 Drilling Program

Gentlemen:

By letter dated April 9, 1975, Northwest Pipeline Corporation, Unit Operator, filed a drilling program providing for the drilling of one Dakota well. Well No. 56 was timely drilled during 1975 by Amoco Production Company, and this well will create the Initial Participating Area for the Dakota formation.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the unit is as follows:

Mesaverde, Commercial	24
Mesaverde, Noncommercial	1
Mesaverde, Plugged and Abandoned	4
Dakota, Commercial	1
Dakota, Noncommercial	8
Dakota, Plugged and Abandoned	2
Mesaverde-Dakota (Mesaverde Not Completed)	<u>1</u>
TOTAL	41

Acting Area Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
March 3, 1976
Page 2

The Rosa Unit Well No. 56 is currently shut-in pending Federal Power Commission approval to produce. Amoco Production Company has advised any location and timing of additional Dakota wells by them must await evaluation of production data from Well No. 56.

Northwest Pipeline Corporation, as Unit Operator, hereby respectfully requests the approval of a Drilling Program providing for the drilling of no wells during the calendar year 1976.

All working interest owners have been contacted, and this drilling program reflects their desires. Northwest Pipeline Corporation, 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 or the working interest owners.

If this drilling program 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 Northwest Pipeline Corporation.

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

Very truly yours,

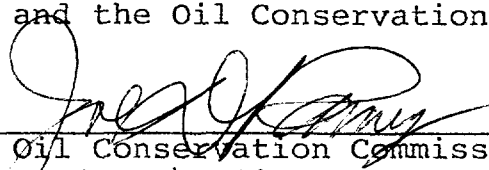


Betty R. Burnett
Supervisor of Contracts and Units

BRB:cak
Enclosures
cc: Working Interest Owners

APPROVED: _____ DATE: _____
Area 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

APPROVED:  DATE: April 1, 1976
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 Rosa Unit, I Sec. No. 587,
San Juan and Rio Arriba Counties, New Mexico, 1976 Drilling
Program.

ROSA UNIT

Working Interest Owners

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, TX 75201

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

Phillips Petroleum Company
Attention: N. N. Beckner
1000 Security Life Building
Denver, CO 80202

Amoco Production Company
Attention: T. M. Curtis
1000 Security Life Building
Denver, CO 80202

Mitchell Energy Corporation
3900 One Shell Plaza
Houston, TX 77002

J. Glenn Turner, Jr., Independent Co-
Executor of Estate of J. Glenn Turner,
Deceased 1700 Mercantile Bank Building
Dallas, TX 75201

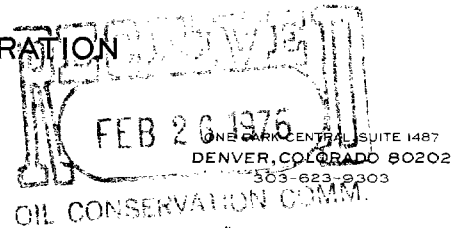
Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, TX 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, TX 79902

Colorado Oil & Gas Company
Attention: North Region-Land Department
2100 Prudential Plaza
P. O. Box 749
Denver, Colorado 80201

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, New Mexico 87501

NORTHWEST PIPELINE CORPORATION



February 24, 1976 Santa Fe

153

United States Geological Survey
Acting Area Oil and Gas Supervisor
Mr. Carl C. Traywick
Post Office Drawer 1857
Roswell, New Mexico 88201

Oil Conservation Commission
State of New Mexico
Attention: Mr. Joe Ramey
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico

This is to advise that Notice of Completion of Non-Commercial wells in the Dakota Formation, Nos. 54 and 55, was approved by the regulatory agencies on the following dates:

United States Geological Survey - June 6, 1975
Oil Conservation Commission - February 16, 1976

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

Very truly yours,

Betty Burnett
Supervisor of Contracts and Units

BB:sjm
attach.

cc: Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
P. O. Box 1148
Santa Fe, New Mexico 87501

ROSA UNIT

Working Interest Owners

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, TX 75201

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

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Attention: N. N. Beckner
1000 Security Life Building
Denver, CO 80202

Amoco Production Company
Attention: T. M. Curtis
1000 Security Life Building
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Mitchell Energy Corporation
3900 One Shell Plaza
Houston, TX 77002

J. Glenn Turner, Jr., Independent Co-
Executor of Estate of J. Glenn Turner,
Deceased 1700 Mercantile Bank Building
Dallas, TX 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, TX 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, TX 79902

Colorado Oil & Gas Company
Attention: North Region-Land Department
2100 Prudential Plaza
P. O. Box 749
Denver, Colorado 80201

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, New Mexico 87501

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

133

February 16, 1976

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Mr. John M. Parker

Re: Non-Commercial Wells, Rosa Unit,
San Juan and Rio Arriba Counties,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved your determination that Rosa Unit Wells No. 54 and No. 55 are not capable of producing unitized substances in paying quantities from the Dakota Formation in the Rosa Unit Area, San Juan and Rio Arriba Counties, 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 application dated March 12, 1975, are returned herewith.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

U. S. Geological Survey
Box 1857
Roswell, New Mexico

Northwest Pipeline Corporation



JOHN M. PARKER
DIRECTOR OF EXPLORATION

March 12, 1975

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
303-623-9303

Mr. Carl C. Traywick
Acting Area Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. A. L. Porter, Jr.
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
NOTICE OF COMPLETION OF
NON-COMMERCIAL WELLS IN
DAKOTA FORMATION

Pursuant to the provisions of Section 10 of the Rosa Unit Agreement, Northwest Pipeline Corporation, as Unit Operator of the Rosa Unit, has determined that the following-described wells are not capable of producing unitized substances in paying quantities from the Dakota formation:

The Rosa Unit #54 Well is located 1585' from the south line and 1575' from the west line, Section 36, Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Amoco Production Company drilled Well #54 under the designation of Sub-Operator from the Rosa Unit Operator, El Paso Natural Gas Company, predecessor to Northwest Pipeline Corporation. This well was spudded August 20, 1973 and drilled into the Dakota formation where 4-1/2" casing was set at a depth of 8475'. The casing was subsequently found to be collapsed at 8166'. The well was re-entered on June 10, 1974 with redrill operations as follows: the 4-1/2" casing was cut at 3918' and pulled; a whipstock was set at 3910' and a 6-3/4" hole was redrilled to a total depth of 8550' where 4-1/2" casing was set and cemented in two stages with a total of 700 sacks; the plug-back total depth

being 8460'. The Dakota formation was perforated with one (1) shot per foot in four intervals: 8328'-8338', 8368'-8384', 8390'-8398' and 8417'-8435'. The four intervals were each individually treated with 500 gallons of 15% hydrochloric acid. The gross interval from 8328' to 8435' was then hydraulically fractured with 491,400 pounds of sand and 263,886 gallons of emulsion fluid, 66-2/3% condensate and 33-1/3% water. A production packer was set at 8257' and 2-3/8" tubing was landed in the packer.

After being shut-in for 39 days, the well was tested on September 19, 1974 through the 2-3/8" tubing connected to a separator and a 4" meter run; the flow volume was an orifice plate measurement.

The test data are:

Shut-in Tubing Pressure	1908 psi
Measured Flow Rate	265 MCF/Day
Working Pressure	229 psi
Absolute Open Flow	268 MCF/Day

The Rosa Unit #55 Well is located 1510' from the south line and 1170' from the east line, Section 34, Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Amoco Production Company drilled Well #55 under the designation of Sub-Operator from the Rosa Unit Operator, Northwest Pipeline Corporation. This well was spudded July 28, 1974 and was completed October 25, 1974 in the Dakota formation at a total depth of 8282'; the plug back total depth is 8237'. The Dakota formation was perforated with two (2) shots per foot in the intervals 8106'-8113', 8124'-8134', 8143'-8163' and 8180'-8186'. The interval 8060'-8073' was perforated with four (4) shots per foot. On September 5, 1974 the well was acidized and hydraulically fractured as follows: the four (4) perforated intervals from 8106' to 8186' were each individually treated with 500 gallons of 15% hydrochloric acid; this gross interval was then fractured with 10,000 pounds of 40-60 sand, 50,200 pounds of 20-40 sand and 37,500 gallons of My-T-Frac fluid. The interval 8060'-8073' was then acidized with 500 gallons of 15% hydrochloric acid and fractured with 10,000 pounds of 40-60 sand, 50,200 pounds of 20-40 sand and My-T-Frac fluid. A production packer was then set at 7990' in the 4-1/2" casing and a 2-3/8" tubing was landed in the packer.

Acting Area Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
March 12, 1975
Page 3

After being shut-in for 29 days, the well was tested on October 1, 1974 through the 2-3/8" tubing connected to a separator and a 4" meter run; the flow volume was an orifice plate measurement.

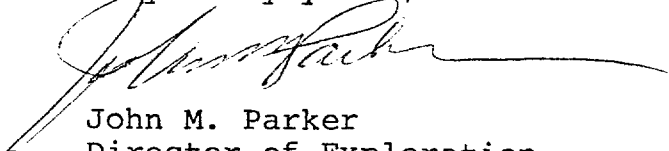
The test data are:

Shut-in Tubing Pressure	2833 psi
Measured Flow Rate	264 MCF/Day
Working Pressure	268 psi
Absolute Open Flow	266 MCF/Day

If these determinations meet with your approval, please indicate such approval in the space provided 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.

Very truly yours,

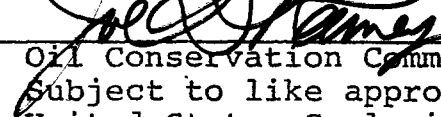


John M. Parker
Director of Exploration

BRB:cak
Attachment
cc: Working Interest Owners

APPROVED: _____ DATE: _____
Area 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

APPROVED:  DATE: February 16, 1976
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 Completion of Non-Commercial
Wells in the Dakota Formation, Rosa Unit, 1 Sec. No. 587,
San Juan and Rio Arriba Counties, New Mexico.

ROSA UNIT

Working Interest Owners

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, TX 75201

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

Phillips Petroleum Company
Attention: Mr. N.N. Beckner
1000 Security Life Building
Denver, CO 80202

Amoco Production Company
Attention: Mr. T. M. Curtis
Security Life Building
Denver, CO 80202

Mitchell Energy & Development Corp.
4026 One Shell Plaza
Houston, TX 77002

Mr. J. Glenn Turner
1700 Mercantile Bank Building
Dallas, TX 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, TX 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, TX 79902

Colorado Oil & Gas Company
Attention: Mr. Charles Titus
Denver Club Building
Denver, CO 80201

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, NM 87501

Northwest Pipeline Corporation



GR6

P.O. BOX 10-1526
SALT LAKE CITY, UTAH 84110
801-328-8252

January 23, 1976

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

Attention: Mr. A. L. Porter, Jr.

Subject: Rosa Unit Wells
No. 54 & No. 55

Gentlemen:

As per your request dated May 8, 1975, we are furnishing the following information pertaining to the subject wells. We also apologize for the inadvertent delay in responding to your request.

<u>Well No.</u>	<u>Est. Recoverable Reserves in MMCF</u>	<u>Est. Life in Years</u>	<u>Well Cost (Actual \$)</u>	<u>Est. Monthly Operating Expenses</u>
54	140	16	\$736,496	\$66
55	279	23	\$270,823	\$66

Economics for these wells were determined using base gas price of 51¢/MCF with 1¢/Yr price escalation to the economic limit production rate of 304 MCF/MO/Well. The investment for these wells did not payout during the economic life of the wells.

Very truly yours,

Kenneth J. Stracke
Assistant Director of Production

MKS/pt



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

July 25, 1975

Northwest Pipeline Corporation
Attention: Ms. Betty K. Burnett
One Park Central, Suite 1487
Denver, Colorado 80202

Gentlemen:

Your letter of July 14 transmitted five copies of a "Designation of Sub-Operator" instrument whereby Northwest Pipeline Corporation, as unit operator under the Rosa unit agreement, designates Amoco Production Company as sub-operator for the drilling of a Dakota well in the W4 sec. 35, T. 31 N., R. 5 W., N.M.P.M., Rio Arriba County, New Mexico.

The designation instrument is hereby accepted as a designation of agent from Northwest Pipeline Corporation. Such acceptance, however, does not relieve Northwest Pipeline Corporation of its responsibility as unit operator to assume operations of any well on the above described land that is determined to qualify for inclusion in a Dakota participating area.

Sincerely yours,

ORIG. SGD,] CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Amoco Production Company
Security Life Building
Denver, Colorado 80202

BLM, Santa Fe (w/attch)
Durango (w/attch)
Commissioner of Public Lands, Santa Fe
NMOCC, Santa Fe ✓

JAGillham/hr



State of New Mexico



Commissioner of Public Lands

July 17, 1975

TELEPHONE
505-827-2748

PHIL R. LUCERO
COMMISSIONER

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

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Re: Rosa Unit Well No. 56
Rio Arriba County,
New Mexico

ATTENTION: Betty R. Burnett

Gentlemen:

We acknowledge receipt of one copy of Designation of Sub-Operator, designating Amoco Production Company sub-operator for the drilling of Rosa Unit Well No. 56 in the W/2 of Section 35, Township 31 North, Range 5 West.

The Designation of sub-operator is accepted and we are retaining the one copy for our files.

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

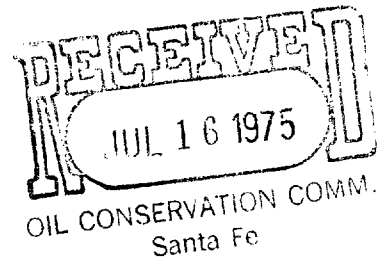
PRL/RDG/s

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

Northwest Pipeline Corporation



One Park Central, Suite 1487
Denver, Colorado 80202



July 14, 1975


Mr. Jim Gillham
U.S. Geological Survey
P.O. Drawer 1857
Roswell, New Mexico 88201

Dear Mr. Gillham:

Re: Rosa Unit Well No. 56
Rio Arriba County,
New Mexico

Enclosed are five (5) copies of Designation of Sub-Operator, designating Amoco Production Company sub-operator for the drilling of Rosa Unit Well No. 56 in the W/2 Section 35-31N-5W.

Very truly yours,


Betty R. Burnett
Supervisor of Contracts
& Units

BRB:ml1

Enclosures

cc: Mr. Ray D. Graham w/encl.
Commissioner of Public Lands
State of New Mexico
P.O. Box 1148
Santa Fe, New Mexico 87501

Mr. Joe Ramey w/encl.
New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this 16th day of June, 1975, by and between Northwest Pipeline Corporation, a Delaware corporation, whose mailing address is Suite 1487, One Park Central, Denver, Colorado 80202 (hereinafter sometimes referred to as "Operator"), and AMOCO PRODUCTION COMPANY, a Delaware corporation, whose mailing address is Security Life Building, Denver, Colorado 80202 (hereinafter sometimes referred to as "Sub-Operator");

WHEREAS, Operator is Unit Operator for the Rosa Unit, I Sec. No. 587, located in the Counties of Rio Arriba and San Juan, New Mexico; and

WHEREAS, Sub-Operator desires to drill one Dakota well on the following-described lands, situated in Rio Arriba County, New Mexico, pursuant to the provisions of Section Twelve (12) of the Rosa Unit Agreement, to wit:

USA SF 078773

T-31-N, R-5-W, NMPM
Section 35: W/2

Containing 320.00 acres, more or less

WHEREAS, the above described land is committed to the terms and conditions of the Rosa Unit Agreement and Rosa Unit Operating Agreement; and

WHEREAS, Sub-Operator has been furnished Notice of Operator's election not to drill said Dakota well as Unit Operator under the terms of the 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 Amoco Production Company to drill the above-described Dakota well, Northwest Pipeline Corporation, as Unit Operator of the Rosa Unit, hereby designates the said Amoco Production Company as Sub-Operator for the sole and only purpose of drilling the said Dakota well on the above-described lands pursuant to Section Twelve (12) of the Rosa Unit Agreement.

Sub-Operator indicates his acceptance of this Designation by placing his signature in the space provided below and agrees to drill, complete and/or plug and abandon said Dakota well as as reasonable and prudent Operator in accordance with the terms and conditions of the Rosa Unit Agreement and the Rosa Unit Operating Agreement, and also agrees to the following conditions:

1. Unit Operator's representative shall approve all casing programs and equipment specifications prior to the drilling of any well.
2. Notify Operator when drilling operations are commenced.
3. Furnish Operator with complete daily driller's tour report, at Sub-Operator's expense.
4. Furnish Operator with daily reports by telephone call 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.
5. Allow representatives of Operator access to the derrick floor at all times.
6. Notify Operator of intentions to core, drill stem test or run well surveys in sufficient time to enable Operator's representatives to be present; and also notify Operator in sufficient time in order that Operator may attend and witness any and all potential tests.
7. Adequately test and/or core all possible productive formations to the satisfaction of Operator upon request.
8. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three (3) preliminary copies and three (3) final copies of the analysis report to Operator.
9. Furnish Operator three (3) field prints and five (5) final prints of all well surveys made during drilling or upon completion of the well.
10. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of the 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 intention to plug and abandon and allow Operator forty-eight (48) hours in which to concur.
13. As to all operations hereunder, Sub-Operator shall carry and file with Operator, for its approval, evidence of Workmen's Compensation and Employers Liability Insurance with limits of \$500,000 for each occurrence in accordance

with state, provincial, and federal laws including Longshoremen's and Harbor Worker's and as extended to Outer Continental Shelf Operations and other maritime laws, as applicable. If under the laws of the jurisdiction in which operations are conducted Sub-Operator is authorized to be a self-insurer as to workmen's compensation or employers' liability, Sub-Operator may elect to be a self-insurer under such laws.

Sub-Operator shall not be required to carry any other insurance. The liability, if any, of the Sub-Operator hereto in damages for claims growing out of personal injury to or death of third persons or injury or destruction of property of third parties resulting from the operation and development of the premises covered hereby shall be borne by the Sub-Operator. Sub-Operator shall require all third party contractors performing work in or on the premises covered hereby to carry such insurance and in such amounts as Sub-Operator shall deem necessary.

14. Furnish the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico, with a copy to Operator at the addresses hereinafter provided.
15. Provide the Commissioner of Public Lands of the State of New Mexico with copies of all reports and other well data submitted in accordance with the preceding paragraph.

All notices, samples, or other information required to be furnished shall be sent to:

Northwest Pipeline Corporation
Suite 1487, One Park Central
Denver, Colorado 80202
Attention: Land Department

with copies to:

Northwest Pipeline Corporation
501 Airport Drive
Farmington, New Mexico 87401
Attention: Mr. Forrest Wood

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 Rosa 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 one hundred and twenty (120) days.

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.

ATTEST:

J. P. Bachman
Assistant Secretary

OPERATOR

NORTHWEST PIPELINE CORPORATION

BY: W. D. Owens
W. D. Owens, Vice President

Approved
as to form

Dept.

Mem
O. G. C.

SUB-OPERATOR

AMOCO PRODUCTION COMPANY

BY: J. J. Ramsey
Attorney-in-Fact



STATE OF UTAH)
)
COUNTY OF SALT LAKE)

The foregoing instrument was acknowledged before me,
this 16th day of June, 1975, by W. D. Owens,
as the Vice President of Northwest Pipeline Corporation, a
Delaware Corporation, on behalf of the Corporation.

My Commission Expires: 9-25-78

Evelyn M. Baggs
Notary Public

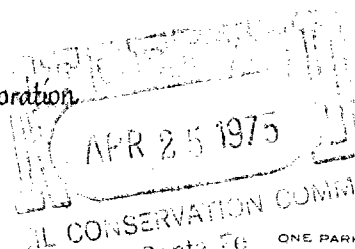
STATE OF COLORADO)
)
CITY AND COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this
10th day of July, 1975, by J. S. Yancey,
Attorney-in-Fact of AMOCO PRODUCTION COMPANY, a Delaware
Corporation, on behalf of said Corporation.

My Commission Expires: 7/24/78

Kathleen L. Allison
Notary Public

Northwest Pipeline Corporation



JOHN M. PARKER
DIRECTOR OF EXPLORATION

April 23, 1975

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
303-623-9303

Mr. Carl C. Traywick
Acting Area Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. A. L. Porter, Jr.
Post Office Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1975 Drilling Program

This is to advise the 1975 Drilling Program for the
Rosa Unit was approved by the Regulatory Agencies on the
following dates:

Oil Conservation Commission -- April 14, 1975
United States Geological Survey -- April 16, 1975
State Land Commission -- April 21, 1975

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

Very truly yours,

Betty R. Burnett/cak

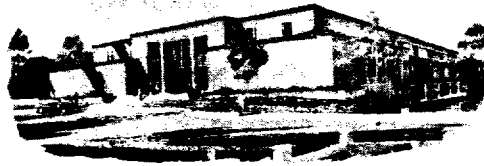
Betty R. Burnett
Supervisor of Contracts and Units

BRB:cak
Attachment
cc: Working Interest Owners



State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

April 21, 1975

PHIL R. LUCERO
COMMISSIONER

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

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Re: Ross Unit
San Juan and Rio Arriba Counties
New Mexico
1975 DRILLING PROGRAM

ATTENTION: Ms. Betty R. Burnett

Gentlemen:

The Commissioner of Public Lands has this date approved your 1975 Drilling Program for the Ross unit area, San Juan and Rio Arriba Counties, New Mexico. Such plan reschedules the drilling of unit Well No. 56 to the Dakota, from your 1974 revised plan to the 1975 plan and the drilling of well No. 56 will now be located to provide unit protection from drainage by two offset non-unit wells.

Enclosed is one approved copy of the plan.

Please remit a 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

FRL/EDG/s
encls.
cc:

USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico ✓



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

April 16, 1975

Northwest Pipeline Corporation
Attention: Ms. Betty R. Burnett
One Park Central, Suite 1487
Denver, Colorado 80202

Gentlemen:

Your 1975 plan of development for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Such plan reschedules the drilling of unit well No. 56 to the Dakota, from your 1974 revised plan to the 1975 plan and the drilling of well No. 56 will now be located to provide unit protection from drainage by two offset non-unit wells.

One approved copy is enclosed.

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

- ✓ NMOCC, Santa Fe (ltr only)
- Com. Pub. Lands, Santa Fe (ltr only)
- Durango (w/cy plan)

JAGillham:ds

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

133

April 14, 1975

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Betty R. Burnett

Re: 1975 Drilling Program,
Rosa Unit, San Juan and Rio
Arriba Counties, 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, providing for the drilling of one Dakota well for the Rosa Unit, San Juan and Rio Arriba Counties, 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,

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, 87501

Northwest Pipeline Corporation



JOHN M. PARKER
DIRECTOR OF EXPLORATION

April 9, 1975

ONE PARK CENTRAL, SUITE 1487
DENVER, COLORADO 80202
303-821-9303

Mr. Carl C. Traywick
Acting Area Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. A. L. Porter, Jr.
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba Counties
New Mexico
1975 Drilling Program

Gentlemen:

By letter dated January 28, 1974, El Paso Natural Gas Company, the then Unit Operator, filed a drilling program providing for no wells for the calendar year 1974. On May 16, 1974, Northwest Pipeline Corporation, successor Unit Operator, filed a revised drilling program providing for the drilling of two Dakota wells. Well No. 54 was reworked, and Well No. 55 was drilled during 1974 by Amoco Production Company. Both of these wells have been determined noncommercial in the Dakota formation. Well No. 56 was not drilled in 1974.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the unit is as follows:

Mesaverde, Commercial	24
Mesaverde, Noncommercial	1
Mesaverde, Plugged and Abandoned	4
Dakota, Noncommercial	8
Dakota, Plugged and Abandoned	2
Mesaverde-Dakota (Mesaverde Not Completed)	<u>1</u>

TOTAL 40

United States Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
April 9, 1975
Page 2

Northwest Pipeline Corporation, as Unit Operator, hereby respectfully requests the approval of drilling program for the calendar year 1975 providing for the drilling of the following Dakota well:

No. 56
Section 35
Township 31 North, Range 5 West

Amoco Production Company will drill this test under the provision of Section 12 of the Rosa Unit Agreement and Northwest Pipeline Corporation will formally designate Amoco Sub-Operator for the drilling of this well. The change of location from Section 4 to Section 35 is a result of two Dakota gas wells offsetting Section 35.

All working interest owners have been contacted, and this drilling program reflects their desires. In addition to the above well, Northwest Pipeline Corporation, 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 or the working interest owners.

If this drilling program 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 Northwest Pipeline Corporation.

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

Very truly yours,



Betty R. Burnett

Supervisor of Contracts and Units

BRB:cak


APPROVED: _____ DATE: _____

Area 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

APPROVED: _____


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

DATE: _____

April 14, 1975

The foregoing approvals are for the Rosa Unit, I Sec. No. 587,
San Juan and Rio Arriba Counties, New Mexico, 1975 Drilling
Program.

ROSA UNIT

Working Interest Owners

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, TX 75201

El Paso Natural Gas Company
Attention: James R. Permenter
P. O. Box 1492
El Paso, TX 79978

Phillips Petroleum Company
Attention: Mr. N.N. Beckner
1000 Security Life Building
Denver, CO 80202

Amoco Production Company
Attention: Mr. T. M. Curtis
Security Life Building
Denver, CO 80202

Mitchell Energy Corporation
4026 One Shell Plaza
Houston, TX 77002

Mr. J. Glenn Turner
1700 Mercantile Bank Building
Dallas, TX 75201

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, TX 75201

Winifred K. Ponder
1800 North Stanton Street
El Paso, TX 79902

Colorado Oil & Gas Company
Attention: Mr. Charles Titus
Denver Club Building
Denver, CO 80201

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, NM 87501



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

June 14, 1974

Northwest Pipeline Corporation
One Park Central Suite 1487
Denver, Colorado 80202

Gentlemen:

Receipt is acknowledged of a Designation and Redesignation of Sub-Operator by which Northwest Pipeline Corporation, unit operator of the Rosa Unit, designates Amoco Production Company as sub-operator for the drilling of two Dakota wells and reworking one Dakota well located on the following described lands:

Designation

- 1) USA Santa Fe 078773
T. 31 N, R. 5 W, S $\frac{1}{2}$ of section 34
- 2) USA Santa Fe 078763
T. 31 N, R. 5 W, All of section 4

Redesignation

- 1) USA Santa Fe 078768
T. 31 N, R. 5 W, W $\frac{1}{2}$ section 36

The designation and redesignation are hereby accepted as a designation of agent from Northwest Pipeline Corporation. Such acceptance does not relieve Northwest Pipeline of its responsibility as unit operator to assume operation of any well on the above described land that is determined to qualify for inclusion in the Dakota participating area.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

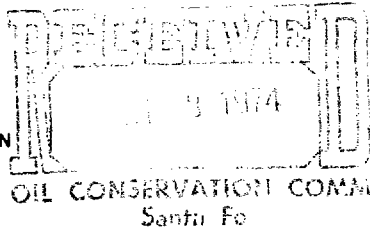
CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

cc:
Amoco Production Co.
Security Life Building
Denver, Colorado 80202

BLM, Santa Fe (w attch)
Com. Pub Land, Santa Fe
N.M.O.C.C., Santa Fe ✓
Durango (attch)
JFSims:td

Northwest Pipeline Corporation

125



ONE PARK CENTRAL
SUITE 1487
DENVER, COLORADO 80202
303- 623-9303

JOHN M. PARKER
DIRECTOR OF EXPLORATION

May 30, 1974

Area 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 Commissioner
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Rosa Unit, 1 Section No. 587
San Juan & Rio Arriba Counties,
New Mexico, 1974 Revised Drilling
Program

Gentlemen:

The 1974 Revised Drilling Program for the Rosa Unit dated May 16, 1974 was approved by the regulatory bodies on the following dates:

United States Geological Survey	May 21, 1974
Commissioner of Public Lands	May 23, 1974
Oil Conservation Commissioner	May 21, 1974

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

Very truly yours,

Betty Burnett
Supervisor of Contracts & Units

BB:hc
Attached

ROSA UNIT
WORKING INTEREST OWNERS

Amoco Production Company
Security Life Building
Denver, Colorado 80202

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, New Mexico 87501

Colorado Oil & Gas Company
Denver Club Building
Denver, Colorado 80202

Mitchell Energy and Development Corporation
3900 One Shell Plaza
Houston, Texas 77002

Phillips Petroleum Company
1000 Security Life Building
Denver, Colorado 80202

Winifred K. Ponder
1800 North Stanton Street
El Paso, Texas 79902

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, Texas

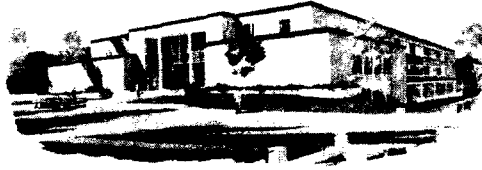
Mr. J. Glenn Turner
1700 Mercantile Bank Building
Dallas, Texas 75201

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

The Wiser Oil Company
P. O. Box 2467
Hobbs, New Mexico 88240

State of New Mexico

133
TELEPHONE
505-827-2744



Commissioner of Public Lands

May 23, 1974

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

Northwest Pipeline Corporation
One Park Central-Suite 1487
Denver, Colorado 80202

Re: Rosa Unit
San Juan & Rio Arriba Counties
Revised 1974 DRILLING PROGRAM

ATTENTION: Mr. John W. Shepardson

Gentlemen:

The Commissioner of Public Lands has this date approved the Revised 1974 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of two Dakota wells. 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.

In the future please submit three (3) copies to this office. We shall retain two (2) copies and return one (1) copy to you.

Also, please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

encl.

cc:

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 21, 1974

C
O
P
Y

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 30202

Attention: Mr. John W. Shepardson

Re: 1974 Drilling Program
Revision No. 1
Rosa Unit, San Juan
and Rio Arriba County,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved Revision No. 1 of the 1974 Drilling Program, providing for the drilling of two Dakota Wells for the Rosa Unit, San Juan and Rio Arriba Counties, 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 xerox copy of the program is returned herewith. Two copies of your plans of development are required for proper handling by this office.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

Commissioner of Public Lands
Land Office Building
Santa Fe, New Mexico

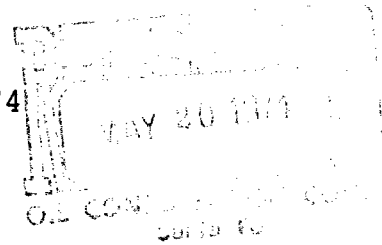
Northwest Pipeline Corporation



JOHN M. PARKER
DIRECTOR OF EXPLORATION

May 16, 1974

ONE PARK CENTRAL
SUITE 1487
DENVER, COLORADO 80202
303- 623-9303



Regional Oil & Gas Supervisor
Att: Carl Traywick
Acting Area Oil & Gas Supervisor
United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Att: Ray D. Graham
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Att: A. L. Porter, Jr.
Santa Fe, New Mexico 87501

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba Counties
New Mexico
1974 Drilling Program, Revision No. 1

Gentlemen:

By letter dated January 28, 1974, El Paso Natural Gas Company, the then unit operator, filed a drilling program providing for no wells.

Northwest Pipeline Corporation, successor unit operator, wishes to revise the 1974 drilling program to provide for the drilling of the following two Dakota well locations in Rio Arriba County, New Mexico.

<u>Well Location</u>	<u>Dedication</u>
1. #55 - S½ Sec. 34	S½ Sec. 34 T31N-R5W
2. #56 - All Sec. 4	All Sec. 4 T31N-R5W

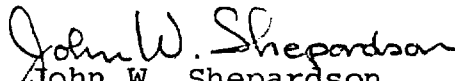
Regional Oil & Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
May 16, 1974
Page 2

Amoco Production Company will drill these two tests under the provisions of Section 12 of the Rosa Unit Agreement. Northwest Pipeline Corporation will formally designate Amoco as Sub-Operator for the drilling of these two wells and will file this designation with the three regulatory agencies.

If this Supplemental Drilling Program 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 one (1) approved copy.

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

Yours very truly,


John W. Shepardson
Manager
Land Department

JWS:lc

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

APPROVED: _____

DATE: May 21, 1974


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 1974 Drilling Program
(Revised May 16, 1974) Rosa Unit, I Sec. No. 587, San Juan
and Rio Arriba Counties, New Mexico.

ROSA UNIT
WORKING INTEREST OWNERS

Amoco Production Company
Security Life Building
Denver, Colorado 80202

Mr. John R. Brennand
P. O. Box 2184
Santa Fe, New Mexico 87501

Colorado Oil & Gas Company
Denver Club Building
Denver, Colorado 80202

Mitchell Energy and Development Corporation
3900 One Shell Plaza
Houston, Texas 77002

Phillips Petroleum Company
1000 Security Life Building
Denver, Colorado 80202

Winifred K. Ponder
1800 North Stanton Street
El Paso, Texas 79902

Mr. Frank A. Schultz
730 Fidelity Union Tower
Dallas, Texas

Mr. J. Glenn Turner
1700 Mercantile Bank Building
Dallas, Texas 75201

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

The Wiser Oil Company
P. O. Box 2467
Hobbs, New Mexico 88240

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202



United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

May 21, 1974

Northwest Pipeline Corporation
Attention: Mr. John W. Shepardson
Suite 1487, One Park Central
Denver, Colorado 80202

Gentlemen:

One approved copy of your revised 1974 plan of development for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico, is enclosed. Such plan, proposing the drilling of two Dakota wells, was approved on this date subject to like approval by the appropriate official of the State of New Mexico.

Please note your records that three copies of your plan of development are required for proper handling by this office.

Sincerely yours,

N. O. FREDERICK
Area Oil and Gas Supervisor

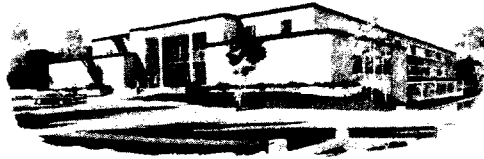
cc:

✓ NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)
Durango (w/cy plan)

JAGillham:ds

State of New Mexico

TELEPHONE
305-827-2748



Commissioner of Public Lands

April 18, 1974

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: RESIGNATION AND DESIGNATION
OF UNIT OPERATOR
Rosa Unit
San Juan & Rio Arriba Counties

ATTENTION: Mr. James R. Permenter

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 Northwest Pipeline Corporation to succeed El Paso as Unit Operator of the Rosa Unit.

Both the United States Geological Survey and the Oil Conservation Commission have approved this instrument.

Enclosed are three copies for your files.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/REG/s
encs.
cc:

INGOS-Socorro, New Mexico
OCC- Santa Fe, New Mexico ✓



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

April 11, 1974

El Paso Natural Gas Company
Attention Mr. James R. Permenter
P. O. Box 1492
El Paso, Texas 79999

Gentlemen:

Four copies of an instrument by which El Paso Natural Gas Company resigns as unit operator and Northwest Pipeline Corporation is designated as successor unit operator for the Rosa unit agreement, Rio Arriba and San Juan Counties, New Mexico, were filed with this office on April 8, 1974. All copies of the instrument are executed by El Paso Natural Gas Company as the present unit operator and working interest owner and Northwest Pipeline Corporation as successor unit operator.

The selection of Northwest Pipeline Corporation as successor unit operator has been approved on April 9, 1974, effective as of January 31, 1974, the effective date of the action taken pursuant to the District Court order. Such approval is subject to like approval by the Commissioner of Public Lands of the State of New Mexico and the Oil Conservation Commission. Copies of the approved instrument have been distributed to the Federal agencies concerned and one copy is returned herewith.

Sincerely yours,

LORE (CD) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

Durango (w/cy app.)
BLM, Santa Fe (w/cy app.)
Com. of Pub. Lands, Santa Fe (ltr, only)
N.M.O.C.C., Santa Fe, (ltr. only)✓

Northwest Pipeline Corp.
P. O. Box 1526
Salt Lake City, Utah 84111

JMonro:lh

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

April 9, 1974

I. R. TRUJILLO
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMijo
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

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

Attention: Mr. T. W. Bittick

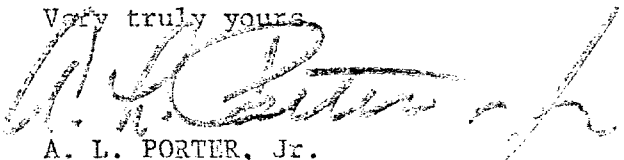
Re: Change of Unit Operator
Rosa Unit, San Juan and Rio
Arriba Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the resignation of El Paso Natural Gas Company as Unit Operator and the designation of Northwest Pipeline Corporation to succeed El Paso as Unit Operator of the Rosa Unit, San Juan and Rio Arriba Counties, 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 instrument are returned herewith.

Very truly yours,


A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands-Santa Fe
U. S. Geological Survey - Roswell

Northwest Pipeline Corporation (with attachment)
P. O. Box 1526
Salt Lake City, Utah 84111

El Paso Natural Gas Company

El Paso, Texas 79978

December 7, 1973

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

Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah 84111

TO ALL WORKING INTEREST OWNERS

Re: Rosa Unit

Gentlemen:

On June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company ("El Paso") be divested to Northwest Pipeline Corporation ("Northwest"). This order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest to acquire and operate the assets and properties to be divested and recognizing Northwest as successor to El Paso's interests in these assets. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith. The properties and assets consist primarily of El Paso's Northwest Division gas system, much of which was formerly owned by Pacific Northwest Pipeline Corporation.

Among the properties to be divested are those lands in the captioned Unit which El Paso acquired from Pacific Northwest Pipeline Corporation. In conjunction with this divestment El Paso wishes to resign as Unit Operator and Northwest wishes to succeed El Paso as Unit Operator. Upon obtaining working interest owner consent Northwest will request to be approved by the Director and the Commissioner as Successor Unit Operator.

While neither El Paso nor Northwest is certain as to specifically when Northwest will be able to replace El Paso as Unit Operator, we are both hopeful that this can be accomplished within from 60 to 90 days. For

To All Working Interest Owners
Rosa Unit
Page Two

December 7, 1973

this reason El Paso respectfully requests that you waive the six (6) months waiting period called for in Paragraph 4 of the Unit Agreement and further consent to the Successor Unit Operator replacing El Paso as Unit Operator immediately upon qualification and approval.

Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

NORTHWEST PIPELINE CORPORATION

BY:

T. W. Butts
Attorney-in-Fact

BY:

John A. McMillan

AGREED TO this th 10 day of
December, 1973.

J. Glenn Turner

BY: _____

El Paso Natural Gas Company

El Paso, Texas 79978

December 7, 1973

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

Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah 84111

TO ALL WORKING INTEREST OWNERS

Re: Rosa Unit

Gentlemen:

On June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company ("El Paso") be divested to Northwest Pipeline Corporation ("Northwest"). This order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest to acquire and operate the assets and properties to be divested and recognizing Northwest as successor to El Paso's interests in these assets. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith. The properties and assets consist primarily of El Paso's Northwest Division gas system, much of which was formerly owned by Pacific Northwest Pipeline Corporation.

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To All Working Interest Owners
Rosa Unit
Page Two

December 7, 1973

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Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

BY:

T. W. Suter
Attorney-in-Fact

NORTHWEST PIPELINE CORPORATION

BY:

John A. McMillan

AGREED TO this 10th day of
December, 1973.

Frank Schult
BY: _____

El Paso Natural Gas Company

El Paso, Texas 79978

December 7, 1973

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

Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah 84111

TO ALL WORKING INTEREST OWNERS

Re: Rosa Unit

Gentlemen:

On June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company ("El Paso") be divested to Northwest Pipeline Corporation ("Northwest"). This order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest to acquire and operate the assets and properties to be divested and recognizing Northwest as successor to El Paso's interests in these assets. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith. The properties and assets consist primarily of El Paso's Northwest Division gas system, much of which was formerly owned by Pacific Northwest Pipeline Corporation.

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To All Working Interest Owners
Rosa Unit
Page Two

December 7, 1973

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Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

BY:

T. W. Suter
Attorney-in-Fact

NORTHWEST PIPELINE CORPORATION

BY:

John G. McMillan

AGREED TO this 10th day of
December, 1973.

BY:

Frank A. Schultz

El Paso Natural Gas Company

El Paso, Texas 79978

December 7, 1973

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

Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah 84111

TO ALL WORKING INTEREST OWNERS

Re: Rosa Unit

Gentlemen:

On June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company ("El Paso") be divested to Northwest Pipeline Corporation ("Northwest"). This order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest to acquire and operate the assets and properties to be divested and recognizing Northwest as successor to El Paso's interests in these assets. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith. The properties and assets consist primarily of El Paso's Northwest Division gas system, much of which was formerly owned by Pacific Northwest Pipeline Corporation.

Among the properties to be divested are those lands in the captioned Unit which El Paso acquired from Pacific Northwest Pipeline Corporation. In conjunction with this divestment El Paso wishes to resign as Unit Operator and Northwest wishes to succeed El Paso as Unit Operator. Upon obtaining working interest owner consent Northwest will request to be approved by the Director and the Commissioner as Successor Unit Operator.

While neither El Paso nor Northwest is certain as to specifically when Northwest will be able to replace El Paso as Unit Operator, we are both hopeful that this can be accomplished within from 60 to 90 days. For

To All Working Interest Owners
Rosa Unit
Page Two

December 7, 1973

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Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

NORTHWEST PIPELINE CORPORATION

BY:

T. W. Butts
Attorney-in-Fact

BY:

John A. Morrison

AGREED TO this 10th day of
December, 1973.

[Signature]

BY: _____

El Paso Natural Gas Company

El Paso, Texas 79978

December 7, 1973

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

Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah 84111

TO ALL WORKING INTEREST OWNERS

Re: Rosa Unit

Gentlemen:

On June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company ("El Paso") be divested to Northwest Pipeline Corporation ("Northwest"). This order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest to acquire and operate the assets and properties to be divested and recognizing Northwest as successor to El Paso's interests in these assets. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith. The properties and assets consist primarily of El Paso's Northwest Division gas system, much of which was formerly owned by Pacific Northwest Pipeline Corporation.

Among the properties to be divested are those lands in the captioned Unit which El Paso acquired from Pacific Northwest Pipeline Corporation. In conjunction with this divestment El Paso wishes to resign as Unit Operator and Northwest wishes to succeed El Paso as Unit Operator. Upon obtaining working interest owner consent Northwest will request to be approved by the Director and the Commissioner as successor Unit Operator.

While neither El Paso nor Northwest is certain as to specifically when Northwest will be able to replace El Paso as Unit Operator, we are both hopeful that this can be accomplished within from 60 to 90 days. For

To All Working Interest Owners
Rosa Unit
Page Two

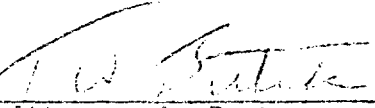
December 7, 1973

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Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

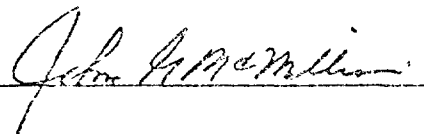
EL PASO NATURAL GAS COMPANY

BY:


Attorney-in-Fact

NORTHWEST PIPELINE CORPORATION

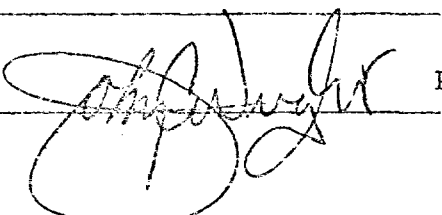
BY:



AGREED TO this 27 day of
December, 1973.

THE WISER OIL COMPANY

BY:


President

El Paso Natural Gas Company

El Paso, Texas 79978

December 7, 1973

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

Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah 84111

TO ALL WORKING INTEREST OWNERS

Re: Rosa Unit

Gentlemen:

On June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company ("El Paso") be divested to Northwest Pipeline Corporation ("Northwest"). This order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest to acquire and operate the assets and properties to be divested and recognizing Northwest as successor to El Paso's interests in these assets. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith. The properties and assets consist primarily of El Paso's Northwest Division gas system, much of which was formerly owned by Pacific Northwest Pipeline Corporation.

Among the properties to be divested are those lands in the captioned Unit which El Paso acquired from Pacific Northwest Pipeline Corporation. In conjunction with this divestment El Paso wishes to resign as Unit Operator and Northwest wishes to succeed El Paso as Unit Operator. Upon obtaining working interest owner consent Northwest will request to be approved by the Director and the Commissioner as Successor Unit Operator.

While neither El Paso nor Northwest is certain as to specifically when Northwest will be able to replace El Paso as Unit Operator, we are both hopeful that this can be accomplished within from 60 to 90 days. For

To All Working Interest Owners
Rosa Unit
Page Two

December 7, 1973

this reason El Paso respectfully requests that you waive the six (6) months waiting period called for in Paragraph 4 of the Unit Agreement and further consent to the Successor Unit Operator replacing El Paso as Unit Operator immediately upon qualification and approval.

Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

NORTHWEST PIPELINE CORPORATION

BY:

T. W. Butcher
Attorney-in-Fact

BY:

G. L. McMillan

AGREED TO this 26 day of
December, 1973.

BY:

Wm. J. Barman
Executor for Estate of J. R. Barman, Dec'd

El Paso Natural Gas Company

El Paso, Texas 79978

December 7, 1973

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

Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah 84111

TO ALL WORKING INTEREST OWNERS

Re: Rosa Unit

Gentlemen:

On June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company ("El Paso") be divested to Northwest Pipeline Corporation ("Northwest"). This order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest to acquire and operate the assets and properties to be divested and recognizing Northwest as successor to El Paso's interests in these assets. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith. The properties and assets consist primarily of El Paso's Northwest Division gas system, much of which was formerly owned by Pacific Northwest Pipeline Corporation.

Among the properties to be divested are those lands in the captioned Unit which El Paso acquired from Pacific Northwest Pipeline Corporation. In conjunction with this divestment El Paso wishes to resign as Unit Operator and Northwest wishes to succeed El Paso as Unit Operator. Upon obtaining working interest owner consent Northwest will request to be approved by the Director and the Commissioner as Successor Unit Operator.

While neither El Paso nor Northwest is certain as to specifically when Northwest will be able to replace El Paso as Unit Operator, we are both hopeful that this can be accomplished within from 60 to 90 days.

RECEIVED
DEC 13 1973
Referred to _____
Noted _____

To All Working Interest Owners
Rosa Unit
Page Two

December 7, 1973

this reason El Paso respectfully requests that you waive the six (6) months waiting period called for in Paragraph 4 of the Unit Agreement and further consent to the Successor Unit Operator replacing El Paso as Unit Operator immediately upon qualification and approval.

Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

BY:

T. W. Butts
Attorney-in-Fact

NORTHWEST PIPELINE CORPORATION

BY:

John H. McMillin

AGREED TO this _____ day of
_____, 1973.

COLORADO OIL AND GAS CORPORATION

BY:

E. W. Doherty

RESIGNATION OF UNIT OPERATOR AND
DESIGNATION OF SUCCESSOR UNIT OPERATOR

WHEREAS, on January 6, 1948, that certain Unit Agreement for the Development and Operation of the Rosa Unit Area located in San Juan and Rio Arriba Counties, New Mexico, was entered into by parties owning interests in the acreage embraced in said Unit Area, and, thereafter, said Unit Agreement was duly approved by the Commissioner of Public Lands of the State of New Mexico on April 22, 1948, by the Oil Conservation Commission of the State of New Mexico on April 22, 1948 and by the United States Geological Survey on June 24, 1948; and

WHEREAS, on December 31, 1959, Pacific Northwest Pipeline Corporation was merged with and into El Paso Natural Gas Company, and El Paso Natural Gas Company, as the surviving corporation accepted and assumed the duties of Successor Unit Operator in accordance with the provisions of the Unit Agreement; and

WHEREAS, on June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company which had been acquired by El Paso Natural Gas Company from Pacific Northwest Pipeline Corporation be divested to Northwest Pipeline Corporation, and included in said properties were certain lands and interests in the Rosa Unit. The District Court Order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest Pipeline Corporation to acquire and operate the assets and properties to be divested and recognizing Northwest Pipeline Corporation as successor in interest to El Paso Natural Gas Company as to such assets and properties. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith; and

WHEREAS, by instruments dated January 31, 1974, El Paso Natural Gas Company did transfer and convey unto Northwest Pipeline Corporation certain assets and properties including lands and interests within the Rosa Unit; and

WHEREAS, in accordance with the terms and provisions of the Rosa Unit Agreement, El Paso Natural Gas Company has procured the

necessary consent from interest owners in the Rosa Unit to resign as Unit Operator and Northwest Pipeline Corporation has procured the necessary consent from said owners to replace El Paso Natural Gas Company as Operator of the Rosa Unit, and evidence of such consent is attached hereto.

NOW THEREFORE, this instrument evidences the following:

1. Effective January 31, 1974, at 11:59 P.M. Mountain Daylight Saving Time, El Paso Natural Gas Company does hereby resign as Operator under the Unit Agreement for the Development and Operation of the Rosa Unit Area, San Juan and Rio Arriba Counties, New Mexico, and agrees to settle and discharge all liabilities, obligations and responsibilities, if any, incurred by it as Unit Operator prior to the date and time of resignation.

2. Effective January 31, 1974, at 11:59 P.M. Mountain Daylight Saving Time, Northwest Pipeline Corporation does hereby accept and assume the duties and responsibilities of Unit Operator of the Rosa Unit and agrees to serve in such capacity until its designation as Unit Operator shall be terminated in accordance with said Unit Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this instrument effective as of 11:59 P.M. Mountain Daylight Saving Time, January 31, 1974.

UNIT OPERATOR AND WORKING INTEREST OWNER

EL PASO NATURAL GAS COMPANY

BY:

T. W. Butcher
Attorney-in-Fact

SUCCESSOR UNIT OPERATOR AND WORKING
INTEREST OWNER

NORTHWEST PIPELINE CORPORATION

ATTEST:

BY:

David K. Watson
Secretary

BY:

R. F. Bailey
Vice President

Approved.....

1974

U. P. Carter
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION

El Paso Natural Gas Company

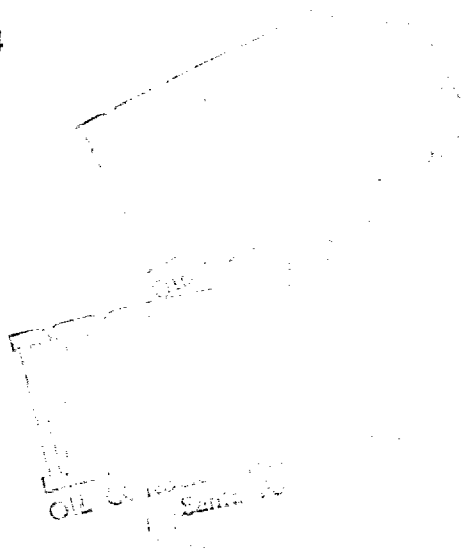
El Paso, Texas 79978

April 4, 1974

United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201
Attention: Mr. Carl Traywick

Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501
Attention: Mr. Ray Graham

Oil Conservation Commission
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501
Attention: Mr. J. E. Kapteina



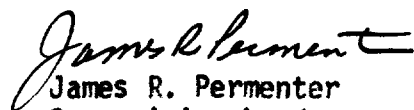
Re: Rosa Unit

Gentlemen:

Attached are four (4) copies of an instrument providing for the resignation of El Paso Natural Gas Company as Operator of the captioned Unit and the assumption of operatorship of such Unit by Northwest Pipeline Corporation. We also enclose copies of letters from other working interest owners in this Unit granting the necessary approval to the transaction.

We respectfully request your approval of El Paso's resignation and to Northwest's replacing El Paso as Operator of this Unit. Should you require additional copies of these instruments please so advise. Any fees required for your approval will be promptly remitted.

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:lj
Attachments

COPY

El Paso Natural Gas Company

El Paso, Texas 79978

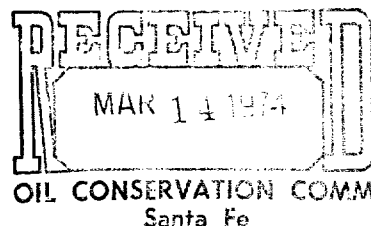
March 8, 1974

133

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: Rosa Unit I Section No. 587
San Juan & Rio Arriba Counties,
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	-	February 19, 1974
Commissioner of Public Lands	-	February 6, 1974
Oil Conservation Commission	-	February 25, 1974

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

Yours very truly,

A handwritten signature in cursive script that reads "Alan Alexander".

Alan Alexander
Landman
Land Department
Energy Resource Development

AA:mcv
Rosa 3.0

ROSA UNIT
Working Interest Owners

Amoco Production Company (3)

Mr. John R. Brennand

Colorado Oil & Gas Company

Mitchell Energy & Development Corporation

Northwest Pipeline Corporation

Phillips Petroleum Company

Winifred K. Ponder

Mr. Frank A. Schultz

Mr. J. Glenn Turner

Mr. William G. Webb

The Wiser Oil Company

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 25, 1974

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

Attention: Mr. D. N. Canfield

Re: 1974 Drilling Program
Rosa Unit, San Juan and Rio
Arriba Counties, 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 for the Rosa Unit, San Juan and Rio Arriba Counties, 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

C
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P
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153



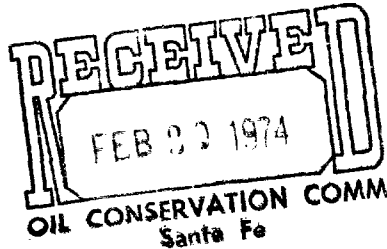
United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

February 19, 1974

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



Gentlemen:

Three approved copies of your 1974 plan of development for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico, are enclosed. Such plan, proposing the completion of unit well No. 54 which has been drilled to a total depth of 8,503 feet by Amoco Production Company and the drilling of no additional wells, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

CCL
CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

✓ NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)
Durango (w/cy plan)

JAGillham:ds

El Paso Natural Gas Company

El Paso, Texas 79978

January 28, 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: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1974 DRILLING PROGRAM

Gentlemen:

By letter dated January 11, 1973, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1973 providing for the drilling of no wells. By letter dated April 26, 1973, El Paso Natural Gas Company submitted for your approval a Revised 1973 Drilling Program providing for the drilling of a dual Mesaverde-Dakota well. This well, which was drilled by Amoco Production Company, has not been completed as of the date of this letter. Subsequent to the filing of the Revised Drilling Program, George Mitchell and Associates proposed drilling four (4) dual Mesaverde-Dakota wells. These wells have not been drilled as of the date of this letter.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the Unit is as follows:

January 28, 1974

Mesaverde, Commercial	24
Mesaverde, Non-Commercial	1
Mesaverde, Plugged & Abandoned	4
Dakota, Non-Commercial	6
Dakota, Plugged & Abandoned	2
Mesaverde-Dakota (not completed)	<u>1</u>
	38

Pursuant to Section 9 of the Rosa 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 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 9 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.

Yours very truly,



D. N. Canfield
Manager
Land Department
Energy Resource Development

DNC:AA:sv
Enclosures
Rosa 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

APPROVED: _____



DATE: _____

February 25, 1974

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 1974 Drilling Program for the Rosa Unit,
I Sec. No. 587, San Juan and Rio Arriba Counties, New Mexico.

ROSA UNIT
Working Interest Owners

Amoco Production Company (3)

Mr. John R. Brennand

Colorado Oil & Gas Company

Mitchell Energy and Development Corporation

Northwest Pipeline Corporation

Phillips Petroleum Company

Winifred K. Ponder

Mr. Frank A. Schultz

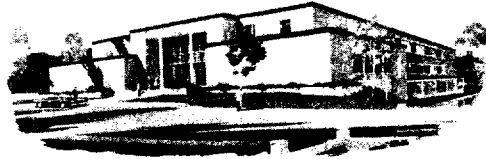
Mr. J. Glenn Turner

Mr. William G. Webb

The Wiser Oil Company

State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

February 6, 1974

ALEX J. ARMIJO
COMMISSIONER

P. O. Box 9148
SANTA FE, NEW MEXICO

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

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1974 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1974 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells during the year 1974. 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.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Division

AJA/RDG/s

encls.

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



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



October 12, 1973

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

Gentlemen:

Receipt is acknowledged of a Designation of Sub-Operator by which El Paso Natural Gas Company, unit operator of the Rosa unit, designates Mitchell Energy and Development Corporation as sub-operator for the drilling of four dual Mesaverde-Dakota wells located on the following described lands:

- 1) USA Santa Fe 078762
T. 31 N., R. 5 W., N $\frac{1}{2}$ of sec. 13
- 2) USA Santa Fe 078762
T. 21 N., R. 5 W., S $\frac{1}{2}$ of sec. 13
- 3) USA Santa Fe 078763
T. 31 N., R. 5 W., S $\frac{1}{2}$ of sec. 25
- 4) USA Santa Fe 078894
T. 31 N., R. 4 W., N $\frac{1}{2}$ of sec. 29

The designation is hereby accepted as a designation of agent from El Paso Natural Gas Company. Such acceptance does not relieve El Paso of its responsibility as unit operator to assume operation of any well on the above described land that is determined to qualify for inclusion in the Mesaverde-Dakota participating areas.

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

cc:
Mitchell Energy &
Development Corp.
3900 One Shell Plaza
Houston, Tx 77002

BLM, Santa Fe (w/atch)
Com. Pub. Land, Santa Fe
NMOCC, Santa Fe
Durango (w/atch)

JFSims:ds

123

Mitchell Energy & Development Corp.

3900 One Shell Plaza

Houston, Texas 77002

October 5, 1973

Oil Conservation Board
State of New Mexico
Box 2088
Santa Fe, New Mexico 87501

RE: Designation of Sub-Operator
Rosa Unit
Rio Arriba County, New Mexico

Gentlemen:

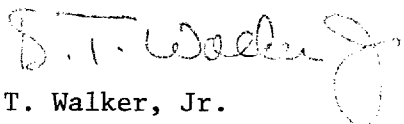
Enclosed herewith is one (1) copy of Designation of Sub-Operator which has been fully executed by El Paso Natural Gas Company and Mitchell Energy & Development Corp.

This designation authorizes Mitchell to act in the capacity of Sub-Operator while drilling four wells set out in the Agreement.

If the enclosed is in order, would you please signify your approval of same at your earliest convenience.

Very truly yours,

MITCHELL ENERGY & DEVELOPMENT CORP.



S. T. Walker, Jr.
Vice President

STW/pb
Enc.

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this 21 day of August, 1973, by and between EL PASO NATURAL GAS COMPANY, a Delaware corporation, whose mailing address is Post Office Box 1492, El Paso, Texas 79999 (hereinafter sometimes referred to as "Operator"), and MITCHELL ENERGY & DEVELOPMENT CORP., a Texas corporation, whose mailing address is 3900 One Shell Plaza, Houston, Texas 77002 (hereinafter sometimes referred to as "Sub-Operator");

WHEREAS, Operator is Unit Operator for the Rosa Unit, I Sec. No. 587, located in the Counties of Rio Arriba and San Juan, New Mexico; and

WHEREAS, Sub-Operator desires to drill four Dual Mesaverde-Dakota wells (hereinafter referred to as "said wells") on the following described lands, situated in Rio Arriba County, New Mexico, pursuant to the provisions of Section Twelve (12) of the Rosa Unit Agreement, to wit:

1. USA SF 078762

Township 31 North, Range 5 West, N.M.P.M.
Section 13: N/2
Containing 320.00 acres, more or less

2. USA SF 078762

Township 31 North, Range 5 West, N.M.P.M.
Section 13: S/2
Containing 320.00 acres, more or less

3. USA SF 078768

Township 31 North, Range 5 West, N.M.P.M.
Section 25: S/2
Containing 320.00 acres, more or less

4. USA SF 078894

Township 31 North, Range 4 West, N.M.P.M.
Section 29: N/2
Containing 320.00 acres, more or less

WHEREAS, the above described land is committed to the terms and conditions of the Rosa Unit Agreement and Rosa Unit Operating Agreement; and

WHEREAS, Sub-Operator has been furnished Notice of Operator's election not to drill these said Dakota wells as Unit Operator under the terms of the Unit Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tracts; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said wells may be drilled by Sub-Operator;

NOW, THEREFORE, in order to permit Mitchell Energy & Development Corp. to drill the above described Dual Mesaverde-Dakota wells, El Paso Natural Gas Company, as Unit Operator of the Rosa Unit, hereby designates the said Mitchell Energy & Development Corp. as Sub-Operator for the sole and only purpose of drilling the said wells on the above described lands pursuant to Section Twelve (12) of the Rosa Unit Agreement.

Sub-Operator indicates his acceptance of this Designation by placing his signature in the space provided below and agrees to drill, complete and/or plug and abandon said wells as a reasonable and prudent operator in accordance with the terms and conditions of the Rosa Unit Agreement and the Rosa Unit Operating Agreement, and also agrees to the following conditions:

1. Unit Operator's representative shall approve all casing programs and equipment specifications prior to the drilling of any well.
2. Notify Operator when drilling operations are commenced.
3. Furnish Operator with complete daily driller's tour report, at Sub-Operator's expense.
4. Furnish Operator 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.
5. Allow representatives of Operator access to the derrick floor at all times.
6. Notify Operator of intentions to core, drill stem test or run well surveys in sufficient time to enable Operator's representatives to be present; and also notify Operator in sufficient time in order that Operator may attend and witness any and all potential tests.
7. Adequately test and/or core all possible productive formations to the satisfaction of Operator upon request.
8. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three (3) preliminary copies and three (3) final copies of the analysis report to Operator.

9. Furnish Operator three (3) field prints and five (5) final prints of all well surveys made during drilling or upon completion of wells.
10. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of wells.
11. Provide Operator with copies of drilling time records, hole deviation tests and all records required by the governmental agencies having jurisdiction of the wells.
12. Notify Operator of any intention to plug and abandon wells and allow Operator forty-eight (48) 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 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.
 - b. 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 and the Oil Conservation Commission of the State of New Mexico all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico, with a copy to Operator at the addresses hereinafter provided.
15. Provide the Commissioner of Public Lands of the State of New Mexico with copies of all reports and other well data submitted in accordance with the preceding paragraph.

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 79999
Attention: Land Department

With copies to:
El Paso Natural Gas Company
Post Office Box 990
Farmington, New Mexico 87401
Attention: Regional Land 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 Dual Mesaverde-Dakota wells pursuant to the provisions of the Rosa Unit Operating Agreement.

The drilling of the said wells 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 eight (8) months from the date of this agreement.

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

BY: _____
Attorney-in-Fact

AA

SUB-OPERATOR

MITCHELL ENERGY & DEVELOPMENT CORP.

BY: _____
Sr. Vice President

STATE OF TEXAS §

COUNTY OF EL PASO §

The foregoing instrument was acknowledged before me this 21
day of August, 1973, by T. W. BITTICK, Attorney-in-Fact for El
PASO NATURAL GAS COMPANY, a Delaware corporation, on behalf of said corporation.

Eloise Busse
Notary Public

My Commission Expires:

ELOISE BUSSE
~~Notary Public in and for El Paso County, Texas~~
My Commission Expires JUNE 1, 1975

STATE OF TEXAS §

COUNTY OF HARRIS §

The foregoing instrument was acknowledged before me this _____
day of _____, 1973, by _____,
Vice President of MITCHELL ENERGY & DEVELOPMENT CORP., a Texas corporation, on
behalf of said corporation.

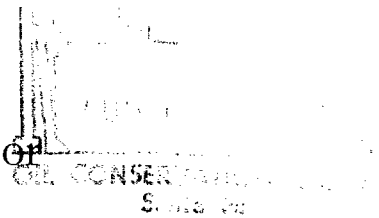
Notary Public in and for Harris
County, Texas

My Commission Expires:



United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201



August 9, 1973

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El Paso Natural Gas Company
Attn: Mr. James R. Permenter
P.O. Box 1492
El Paso, Texas 79978

Dear Mr. Permenter:

Receipt is acknowledged of a Designation of Sub-Operator by which El Paso Natural Gas Company, unit operator of the Rosa unit, designates Amoco Production Company as sub-operator for the drilling of a Mesaverde-Dakota well in the W $\frac{1}{2}$ of sec. 36, T. 31 N., R. 5 W., N.M.P.M., Rio Arriba County, New Mexico.

The designation is hereby accepted as a designation of agent from El Paso Natural Gas Company. Such acceptance does not relieve El Paso of its responsibility as unit operator to assume operation of any well on the above described land that is determined to qualify for inclusion in the Mesaverde-Dakota participating areas.

Sincerely yours,

(CNG. 801. 1)

CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

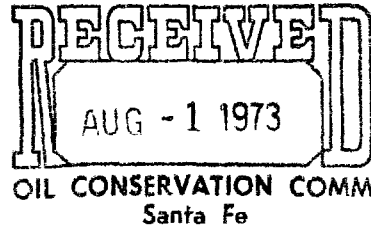
cc:
Amoco Production Company
Security Life Building
Denver, Colorado 80202
BLM, Santa Fe (w/atch)
Com. Pub. Lands, Santa Fe (ltr only)
NMOC, Santa Fe (ltr only)
Durango (w/atch)

JFSims:ds

El Paso Natural Gas Company

El Paso, Texas 79978

July 31, 1973



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

Re: Designation of Sub-Operator
Rosa Unit, 1 Sec. 587
Rio Arriba County, New Mexico

Gentlemen:

Enclosed is one (1) copy of a Designation of Sub-Operator dated May 21, 1973, wherein El Paso Natural Gas Company, as Unit Operator, designates Amoco Production Company as Sub-Operator of the oil and gas operating rights under the W/2 of Section 36, T-31-N, R-5-W, N.M.P.M., Rio Arriba County, New Mexico, for the purpose of drilling a Mesaverde-Dakota dual test well.

Yours very truly,

James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:AA:sv
Enclosure
Rosa Unit, 3.0, 5.0

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this 21 day of May, 1973 by and between EL PASO NATURAL GAS COMPANY, a Delaware Corporation, whose mailing address is Post Office Box 1492, El Paso, Texas 79978 (hereinafter sometimes referred to as "Operator"), and AMOCO PRODUCTION COMPANY, a Delaware corporation, whose mailing address is Security Life Building, Denver, Colorado 80202 (hereinafter sometimes referred to as "Sub-Operator");

WHEREAS, Operator is Unit Operator for the Rosa Unit, I Sec. No. 587, located in the Counties of Rio Arriba and San Juan, New Mexico; and

WHEREAS, Sub-Operator desires to drill a dual Mesaverde-Dakota well on the following described land, situated in Rio Arriba County, New Mexico, pursuant to the provisions of Section Twelve (12) of the Rosa Unit Agreement, to wit:

USA SF 078768

Township 31 North, Range 5 West, N.M.P.M.

Section 36: W/2

Containing 320.00 acres, more or less

WHEREAS, the above described land is committed to the terms and conditions of the Rosa Unit Agreement and Rosa Unit Operating Agreement; and

WHEREAS, Sub-Operator has been furnished Notice of Operator's election not to drill said dual Mesaverde-Dakota well as Unit Operator under the terms of the Unit Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tracts; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said dual Mesaverde-Dakota well may be drilled by Sub-Operator;

NOW, THEREFORE, in order to permit Amoco Production Company to drill the above described dual Mesaverde-Dakota well, El Paso Natural Gas Company, as Unit Operator of the Rosa Unit, hereby designates the said Amoco Production Company as Sub-Operator for the Sole and only purpose of drilling the said dual Mesaverde-Dakota well on the above described lands pursuant to Section Twelve (12) of the Rosa Unit Agreement.

Sub-Operator indicates his acceptance of this Designation by placing his signature in the space provided below and agrees to drill,

complete and/or plug and abandon said dual Mesaverde-Dakota well as a reasonable and prudent operator in accordance with the terms and conditions of the Rosa Unit Agreement and the Rosa Unit Operating Agreement, and also agrees to the following conditions:

1. Unit Operator's representative shall approve all casing programs and equipment specifications prior to the drilling of any well.
2. Notify Operator when drilling operations are commenced.
3. Furnish Operator with complete daily driller's tour report, at Sub-Operator's expense.
4. Furnish Operator 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.
5. Allow representatives of Operator access to the derrick floor at all times.
6. Notify Operator of intentions to core, drill stem test or run well surveys in sufficient time to enable Operator's representatives to be present; and also notify Operator in sufficient time in order that Operator may attend and witness any and all potential tests.
7. Adequately test and/or core all possible productive formations to the satisfaction of Operator upon request.
8. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three (3) preliminary copies and three (3) final copies of the analysis report to Operator.
9. Furnish Operator three (3) field prints and five (5) final prints of all well surveys made during drilling or upon completion of wells.
10. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of wells.
11. Provide Operator with copies of drilling time records, hole deviation tests and all records required by the governmental agencies having jurisdiction of the wells.
12. Notify Operator of any intention to plug and abandon and allow Operator forty-eight (48) 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 insurance:~~

msj

 - 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.
 - b. 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.

13. As to all operations hereunder, Sub-Operator shall carry and file with Operator, for its approval, evidence of Workmen's Compensation and Employers Liability insurance with limits of \$500,000 for each occurrence in accordance with state, provincial, and federal laws including Long-shoremen's and Harbor Worker's and as extended to Outer Continental Shelf Operations and other maritime laws, as applicable. If under the laws of the jurisdiction in which operations are conducted Sub-Operator is authorized to be a self-insurer as to workmen's compensation or employers' liability, Sub-Operator may elect to be a self-insurer under such laws.

Sub-Operator shall not be required to carry any other insurance. The liability, if any, of the Sub-Operator hereto in damages for claims growing out of personal injury to or death of third persons or injury or destruction of property of third parties resulting from the operation and development of the premises covered hereby shall be borne by the Sub-Operator. Sub-Operator shall require all third party contractors performing work in or on the premises covered hereby to carry such insurance and in such amounts as Sub-Operator shall deem necessary.

~~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.~~

msj

14. Furnish the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico, with a copy to Operator at the addresses hereinafter provided.
15. Provide the Commissioner of Public Lands of the State of New Mexico with copies of all reports and other well data submitted in accordance with the preceding paragraph.

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 79978
Attention: Land Department

With copies to:
El Paso Natural Gas Company
Post Office Box 990
Farmington, New Mexico 87401
Attention: Regional Land 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 dual Mesaverde-Dakota well pursuant to the provisions of the Rosa Unit Operating Agreement.

The drilling of the said dual Mesaverde-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 one hundred and twenty (120) days.

THIS DESIGNATION is personal and cannot be assigned in whole or in part by Sub-Operator without the written consent of Operator having first

IN WITNESS WHEREOF, this Designation is executed as of the day
and year first hereinabove written.

OPERATOR

EL PASO NATURAL GAS COMPANY

BY: J. W. Butts

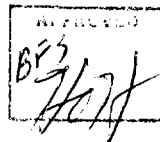
Attorney-in-Fact

SUB-OPERATOR

AMOCO PRODUCTION COMPANY

BY: M. J. Kremer

Attorney-in-Fact



STATE OF TEXAS)
)
COUNTY OF EL PASO)

The foregoing instrument was acknowledged before me this 21 day
of May, 1973, by J. W. Butts, Attorney-in-Fact for EL PASO
NATURAL GAS COMPANY, a Delaware corporation, on behalf of said corporation.

Eloise Busse

My Commission Expires:

ELOISE BUSSE

~~Notary Public in and For El Paso County, Texas~~
My Commission Expires June 1, 1973

STATE OF COLORADO)
)
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 18th day
of July, 1973, by M. S. Kremer,
Attorney-in-Fact of AMOCO PRODUCTION COMPANY, a Delaware corporation, on
behalf of said corporation.

Kathleen L. Allison
~~Notary Public~~
County, _____

My Commission Expires:

7-24-74

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

133

April 26, 1973

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

Attention: Mr. D. N. Canfield

Re: 1973 Supplemental Drilling Program
Rosa Unit, San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental Drilling Program for the calendar year 1973 providing for one dual Mesaverde-Dakota well for the Rosa Unit, San Juan and Rio Arriba Counties, 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

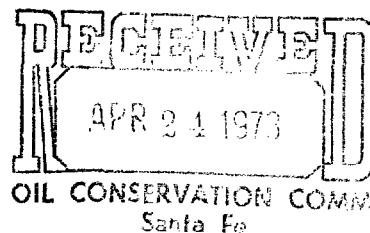
ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
U. S. Geological Survey - Roswell

El Paso Natural Gas Company

El Paso, Texas 79978

April 19, 1973



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: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico, 1973
SUPPLEMENTAL DRILLING PROGRAM

Gentlemen:

By letter dated January 11, 1973, El Paso Natural Gas Company, as Unit Operator, submitted a Drilling Program for the Rosa Unit for the calendar year 1973 that provided for the drilling of no wells during 1973.

Pursuant to Section 9 of the Rosa Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby submits a Supplemental Drilling Program providing for the drilling of one (1) dual Mesaverde-Dakota well during the 1973 calendar year. This well, which is situated in Rio Arriba County, New Mexico, is as follows:

<u>Well Dedication</u>	<u>Drilling Party</u>
W/2 Sec. 36, T-31-N, R-5-W, N.M.P.M.	Amoco Production Co.

This well will be drilled by Amoco Production Company, as Sub-Operator, under the provisions of Section 12 of the Unit Agreement, and a Designation of Sub-Operator will be filed with the Regulatory Bodies for this drilling.

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

April 19, 1973

If this Supplemental Drilling Program 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 one (1) approved copy.

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

Yours very truly,

A handwritten signature in dark ink, appearing to read "D. N. Canfield", with a stylized flourish at the end.

D. N. Canfield
Manager
Land Department
Energy Resource Development

DNC:DI:sv
Enclosures
Rosa Unit 3.0, 4.2

APPROVED: _____

Oil & Gas Supervisor, United States Geological Survey
Subject to like approval by the appropriate State
Regulatory Bodies.

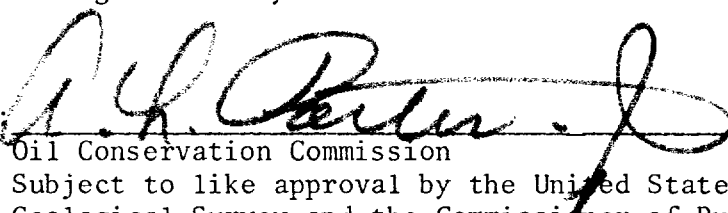
DATE: _____

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: April 26, 1972

The foregoing approvals are for the Supplemental 1973 Drilling Program for the Rosa Unit, I Sec. No. 587, San Juan and Rio Arriba Counties, New Mexico.

ROSA UNIT

Working Interest Owners

Mr. John R. Brennand

Colorado Oil & Gas Company

Dyna Ray Oil & Gas Co., Inc.

Amoco Production Company

Mr. Neville G. Penrose

Phillips Petroleum Company

Winifred K. Ponder

Mr. Frank A. Schultz

Southern Petroleum Exploration, Inc.

Mr. J. Glenn Turner

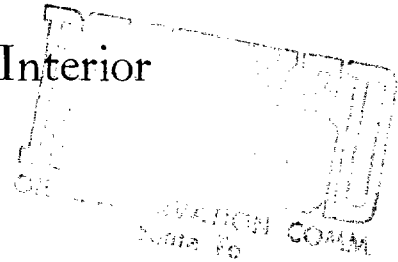
Mr. William G. Webb



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



April 26, 1973

In Reply Refer To:
Gillham/Engr.

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

Gentlemen:

Two approved copies of your revised 1973 plan of development for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of one dual Mesaverde-Dakota unit well on lands outside the existing participating area, 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. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

cc:

Washington (thru Denver) (w/cy plan)
Durango (w/cy plan)
✓ NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)

JAGillham:ds



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

March 23, 1973

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

Gentlemen:

This office has reviewed your 1973 plan of development, submitted January 11, 1973, for the Rosa unit area, San Juan and Rio Arriba Counties, New Mexico. Such plan proposes that no wells will be drilled during the year.

The Rosa unit agreement, embracing 54,210.99 acres, was approved by the Acting Director, U. S. Geological Survey, on June 24, 1948, effective as of the date of approval. Since that date, 37 wells have been drilled within the unit area which has led to the completion of 24 commercial Mesaverde wells, one non-commercial Mesaverde well, and six non-commercial Dakota wells. This course of events, pursuant to the terms of the unit agreement, established the initial Mesaverde participating area, encompassing 3,647.20 acres, effective as of December 12, 1955, and the subsequent enlargement to 15,476.40 acres with the final 10th revision effective as of October 1, 1961. Seven wells were drilled following the last participating area revision resulting in three non-commercial Dakota completions which accounts for the total 37 wells drilled within the unit area and the completion summary cited above. No wells have been drilled within the unit area since January 1970.

Section 9 of the unit agreement states that the plan of development shall provide for exploration of the unitized area and for the determination of the commercially productive area thereof in each and every productive formation. The unit agreement further provides in Section 2 that the unit area shall be expanded or contracted whenever such action is necessary or desirable to conform with the purposes of the agreement.

This office concludes that with 38,734.59 acres still not in a participating area, an acceptable plan of development must include additional testing of the acreage outside of the participating area in order to comply with the provisions of the unit agreement. Accordingly, your 1973 plan of development is returned herewith and it is requested that a revised plan proposing

the drilling of at least one well during 1973, be filed with this office on or before September 15, 1973, or that you advise us that the unit area will be contracted to the participating area if further drilling during 1973 cannot be justified.

Sincerely yours,

(ORIG. SCR) C-1

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:

Washington (thru Regional Mgr., Denver)

Durango

✓ NMOCC, Santa Fe

Com. Pub. Lands, Santa Fe

JAGillham:ds

State of New Mexico

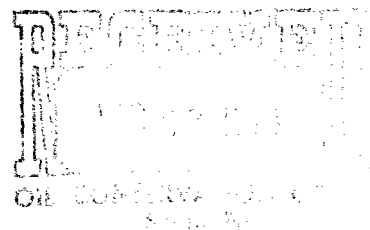
133

TELEPHONE
505-827-2748



Commissioner of Public Lands

April 25, 1973



ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico, 1973
SUPPLEMENTAL DRILLING PROGRAM

ATTENTION: Mr. B. M. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your Supplemental Drilling Program for the year 1973, for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico. This plan proposes the drilling of one (1) Mesaverte-Dakota well located in the W/2 of Section 36, Township 31 North, Range 5 West. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Our approval of January 22, 1973, for your 1973 Drilling Program proposing the drilling of no additional wells during 1973, is of no effect since the United States Geological Survey returned your plan unapproved.

One approved copy of the Supplemental Drilling Program is enclosed herewith.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDC/s
encl.
cc:

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

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

133

January 23, 1973

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

Attention: Mr. D. N. Canfield

Re: 1973 Drilling Program,
Rosa Unit, San Juan and
Rio Arriba Counties,
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 no wells during the year for the Rosa Unit, San Juan and 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: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

El Paso Natural Gas Company

El Paso, Texas 79978

January 11, 1973

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: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1973 DRILLING PROGRAM

Gentlemen:

By letter dated January 7, 1972, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1972 providing for the drilling of no wells.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	24
Mesaverde, Non-Commercial	1
Mesaverde, Plugged and Abandoned	4
Dakota, Non-Commercial	6
Dakota, Plugged and Abandoned	<u>2</u>
	37

Pursuant to Section 9 of the Rosa 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 no wells during the year.

United States Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
Page Two

January 11, 1973

Amoco Production Company and Trans Delta Corporation have advised that they have tentative plans to drill one or more Dakota wells during 1973, but they have no specific locations picked at this time. If any party definitely proposes that a well be drilled, El Paso Natural Gas Company, as Unit Operator, will file a Supplemental 1973 Drilling Program.

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 9 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.

Yours very truly,



D. N. Canfield
Manager
Land Department
Energy Resource Development

DNC:DI:nja
Enclosures
Rosa Unit 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: _____


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

DATE: January 23, 1973

The foregoing approvals are for the 1973 Drilling Program for the Rosa Unit,
I Sec. No. 587, San Juan and Rio Arriba Counties, New Mexico.

ROSA UNIT
Working Interest Owners

Amoco Production Company (3)

Mr. John R. Brennand

Colorado Oil & Gas Company

Mr. Neville G. Penrose

Phillips Petroleum Company

Winifred K. Ponder

Mr. Frank A. Schultz

Trans Delta Oil & Gas Co., Inc.

Mr. J. Glenn Turner

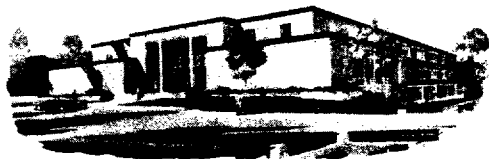
Mr. William G. Webb

The Wiser Oil Company

133
State of New Mexico

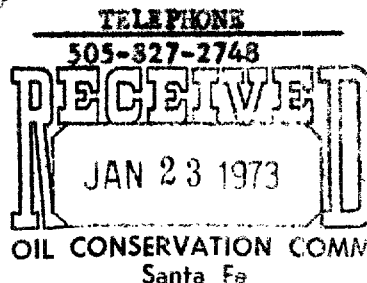


ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands

January 22, 1973



P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1973 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1973 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells during the 1973 calendar year. 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.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

encl.

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

El Paso Natural Gas Company

El Paso, Texas 79978

RECEIVED

MAR 17 1972

CONSERVATION COMMISSION
SANTA FE

March 14, 1972

153

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

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

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

Re: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1972 DRILLING PROGRAM

Gentlemen:

The 1972 Drilling Program for the captioned Unit was approved
by the Regulatory Bodies on the dates indicated.

Regional Oil & Gas Supervisor - March 2, 1972
Oil Conservation Commission - February 11, 1972
Commissioner of Public Lands - January 20, 1972

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

Yours very truly,

James R. Permenter

James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:ks
Rosa Unit 3.0



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

RECEIVED
MAR 7 1972
CONSERVATION COMM.

IN REPLY REFER TO:

March 2, 1972

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1972 plan of development for the Rosa unit area, San Juan and Rio Arriba Counties, 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,

(S)

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:

Washington (w/cy plan)

Durango (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

February 11, 1972

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

Attention: Mr. T. W. Bittick

Re: 1972 Drilling Program
Rosa Unit, San Juan
and Rio Arriba Counties,
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 1972 for the Rosa Unit, San Juan and Rio Arriba Counties, 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
P. O. Box 1857
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

2 copies

January 20, 1972

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

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1972 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1972 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells during the 1972 calendar year. 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.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encl.

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

El Paso Natural Gas Company

El Paso, Texas 79978

RECEIVED
JAN 17 1972
OIL CONSERVATION COMMISSION

January 7, 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: Rosa Unit, I Sec. No. 587
San Juan and Rio Arriba
Counties, 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 providing for the drilling of no wells.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	24
Mesaverde, Non-Commercial	1
Mesaverde, Plugged & Abandoned	4
Dakota, Non-Commercial	6
Dakota, Plugged & Abandoned	2
	<u>37</u>

Pursuant to Section 9 of the Rosa Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1972 providing for the drilling of no wells during the year.

January 7, 1972

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 9 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.

Yours very truly,



T. W. Bittick
Director
Lands and Administration
Energy Resource Development


TWB:DI:khs
Enclosures
Rosa Unit 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:  _____
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey and
the Commissioner of Public Lands

DATE: Feb 11, 1972

The foregoing approvals are for the 1972 Drilling Program for the Rosa Unit, I Sec. No. 587, San Juan and Rio Arriba Counties, New Mexico.

ROSA UNIT

Working Interest Owners

Amoco Production Company (3)

Mr. John R. Brennand

Colorado Oil & Gas Company

Dyna Ray Oil & Gas Company, Inc.

Mr. Neville G. Penrose

Phillips Petroleum Company

Winifred K. Ponder

Mr. Frank A. Schultz

Mr. J. Glenn Turner

Mr. William G. Webb

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

January 20, 1972

RECEIVED

JAN 21 1972

OIL CONSERVATION COMM.

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba 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 for the captioned Unit for the year 1971 providing for the drilling of four Dakota wells. Each of these wells was timely drilled. Wells Nos. 56, 57, and 58 were drilled within the Dakota Participating Area and did not cause a further expansion. Well No. 59 was drilled outside of the Dakota Participating Area to extend the limits of the Participating Area. El Paso Natural Gas Company is observing production from Well No. 59 before determining whether or not the well is capable of producing unitized substances in paying quantities.

As of this date, the total number of wells in the San Juan 27-4 Unit is as follows:

Pictured Cliffs	6
Mesaverde	12
Dakota	25
Dakota-Gallup (OWWO)	1
Pictured Cliffs-Mesaverde	8
Mesaverde-Dakota	1
Mesaverde-Dakota, plugged back and completed in the Mesaverde only	1
Non-Commercial, Mesaverde	1
Temporarily Abandoned, Dakota	1
Plugged and Abandoned, Mesaverde-Dakota	<u>1</u>
	57

January 20, 1972

Pursuant to Section 10 of the San Juan 27-4 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1972 providing for the drilling of the following Dakota wells:

<u>Well No.</u>	<u>Spacing Unit</u>
60	E/2 Sec. 21, T-27-N, R-4-W
16-Y	W/2 Sec. 17, T-27-N, R-4-W

Each well will be drilled within the existing Dakota Participating Area.


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 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.

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
Director
Lands and Administration
Energy Resource Development

TWB:DI:nja
Enclosures
S.J. 27-4 Unit 3.0

cc: Commissioner of Public Lands (Information Only)
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

APPROVED: _____

Regional Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

DATE: _____

APPROVED: _____

A. L. Porter, Jr.
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: Feb 11, 1972

The foregoing approvals are for the 1972 Drilling Program for the San Juan 27-4
Unit #14-08-001-1054, Rio Arriba County, New Mexico.

SAN JUAN 27-4 UNIT
Working Interest Owners

General American Oil Company of Texas

Thomas H. Harrington

Rincon Oil & Gas Corporation

Mr. M. A. Romero

El Paso Natural Gas Company

El Paso, Texas 79999

April 12, 1971

APR 14 1971

155

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: Rosa Unit, 1 Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1971 DRILLING PROGRAM

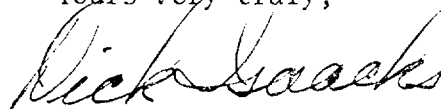
Gentlemen:

The 1971 Drilling Program dated January 6, 1971, for the referenced Unit was approved by the Regulatory Bodies on the dates indicated below:

United States Geological Survey	-	April 6, 1971
Commissioner of Public Lands	-	January 14, 1971
Oil Conservation Commission	-	January 14, 1971

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

Yours very truly,



Dick Isaacks
Senior Landman
Land Department

DI:ks
Rosa Unit 3.0



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

IN REPLY REFER TO:

APR 9 1971
APR 6 1971

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1971 plan of development for the Ross unit area, San Juan and Rio Arriba Counties, 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.) N. O. FREDERICK

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:
Washington (w/cy plan)
Durango (w/cy plan)
NMOCC, Santa Fe (ltr. only) ✓
Com. Pub. Lands, Santa Fe (ltr. only)

135
January 14, 1971

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

Re: Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico
1971 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1971 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells during the 1971 calendar year. 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.

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

Sincerely yours,

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

AJA/GGM/s

encl.

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 14, 1971

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

C Attention: Mr. T. W. Bittick

Re: 1971 Drilling Program
Rosa Unit
San Juan and Rio Arriba
Counties, New Mexico

O
P
Y
Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1971 providing for the drilling of no wells during the year for the Rosa Unit, San Juan and Rio Arriba Counties, 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
Drawer 1857
Roswell, New Mexico 88201

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

El Paso Natural 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
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: Rosa Unit, 1 Sec. No. 587
San Juan and Rio Arriba
Counties, New Mexico
1971 DRILLING PROGRAM

Gentlemen:

By letter dated February 13, 1970, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1970 providing for the drilling of no wells.

By letter dated October 15, 1969, El Paso Natural Gas Company, as Unit Operator, filed a Supplemental Drilling Program for 1969 providing for the drilling of three (3) Dakota wells by Pan American Petroleum Corporation as Sub-Operator; however, at the time the 1970 Drilling Program was filed it had not been determined if those three (3) Dakota wells were capable of producing in paying quantities. It has since been determined that all three (3) of the wells are non-commercial, and a Notice to that effect was filed with the United States Geological Survey on December 10, 1970.

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the Unit is as follows:

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

January 6, 1971

Mesaverde, Commercial	24
Mesaverde, Non-Commercial	1
Mesaverde, Plugged & Abandoned	4
Dakota, Non-Commercial	6
Dakota, Plugged & Abandoned	<u>2</u>
	37

Pursuant to Section 9 of the Rosa 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.

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 9 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:DI:nja
Enclosures
Rosa Unit 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: _____


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

DATE: _____

January 14, 1971

The foregoing approvals are for the 1971 Drilling Program for the Rosa Unit,
1 Sec. No. 587, San Juan and Rio Arriba Counties, New Mexico.

ROSA UNIT
Working Interest Owners

Mr. John R. Brennand

Colorado Oil & Gas Company

Dyna Ray Oil & Gas Co., Inc.

Pan American Petroleum Corporation (3)

Mr. Neville G. Penrose

Phillips Petroleum Company

Winifred K. Ponder

Mr. Frank A. Schultz

Southern Petroleum Exploration, Inc.

Mr. J. Glenn Turner

Mr. William G. Webb

El Paso Natural Gas Company

El Paso, Texas 79999

December 10, 1970

133

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

Re: Rosa Unit, I Sec. No. 587,
San Juan and Rio Arriba
Counties, New Mexico, NOTICE
OF COMPLETION OF NON-COMMERCIAL
WELLS IN DAKOTA FORMATION

Dear Sir:

Pursuant to the provisions of Section 10 of the Rosa Unit Agreement, approved June 24, 1948, El Paso Natural Gas Company, as Unit Operator of the Rosa Unit, has determined that the following-described wells are not capable of producing unitized substances in paying quantities from the Dakota formation:

The Rosa Unit #51 Well, located 1115' from the North line and 2140' from the West line of Section 23, T-31-N, R-6-W, Rio Arriba County, New Mexico, was spudded on November 23, 1969, and completed on January 9, 1970, at a total depth of 7965' in the Dakota formation. The Dakota formation in the intervals between 7781'-7800', 7825'-7842', 7865'-7872', 7876'-7881', 7893'-7898', 7900'-7904', 7915'-7920' was treated with a sand-water fracturing process. The Dakota formation was shut-in for gauge on January 9, 1970, and after being shut-in for seven (7) days, the Dakota formation was tested on

December 10, 1970

January 16, 1970, and following a three-hour blow-down period, gauged 1381 MCF/D through a 3/4" choke and 1409 MCF/D by the calculated absolute open flow method, with an SIPC of 414 psia and an SIPT of 107 psia.

The Rosa Unit #52 Well, located 1090' from the North line and 925' from the West line of Section 33, T-31-N, R-5-W, was spudded on December 17, 1969, and completed on February 18, 1970, in the Dakota formation at a total depth of 8160'. The Dakota formation in the intervals between 7992'-8008', 8040'-8055', 8074'-8084', 8112'-8117', 8138'-8150', was treated with a sand-water fracturing process on January 9, 1970. The well was shut-in on February 18, 1970, and after being shut-in for gauge for nine (9) days, the well was tested on February 27, 1970, and following a three-hour blow-down period, the Dakota formation gauged 2401 MCF/D through a 3/4" choke and 2453 MCF/D by the calculated absolute open flow method, with an SIPC of 1650 psia and an SIPT of 193 psia.

The Rosa Unit #53 Well, located 1120' from the North line and 2100' from the East line of Section 8, T-31-N, R-5-W, was spudded on January 6, 1970, and completed on March 13, 1970, in the Dakota formation at a total depth of 8141'. The Dakota formation in the intervals between 7900'-7910', 7942'-7954', 7964'-7968', 7988'-8002', 8020'-8034', 8045'-8050', 8076'-8090' was treated with a sand-water fracturing process on January 26, 1970. The well was shut-in on March 13, 1970, and after being shut-in for gauge for twelve (12) days, the well was tested on March 25, 1970, and following a three-hour blow-down period, the Dakota formation gauged 1043 MCF/D through a 3/4" choke and 1072 MCF/D by the calculated absolute open flow method, with an SIPC of 1038 psia and an SIPT of 79 psia.

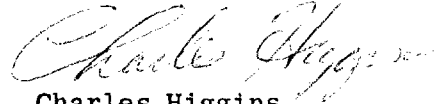
If these determinations meet with your approval, please indicate such approval in the space provided and return an approved copy hereof for our files.

Regional Oil & Gas Supervisor
Page Three

December 10, 1970

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.

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:nja
Enclosure
Rosa Unit 4.3

cc: 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

APPROVED: _____ DATE: _____
Regional Oil & Gas Supervisor
United States Geological Survey

ROSA UNIT
Working Interest Owners

Mr. John R. Brennand

Colorado Oil & Gas Company

Dyna Ray Oil & Gas Co., Inc.

Pan American Petroleum Corporation (3)

Mr. Neville G. Penrose

Phillips Petroleum Company

Winifred K. Ponder

Mr. Frank A. Schultz

Southern Petroleum Exploration, Inc.

Mr. J. Glenn Turner

Mr. William G. Webb

El Paso Natural Gas Company

El Paso, Texas 79999

March 9, 1970

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: 1970 DRILLING PROGRAM
Rosa Unit, 1 Sec. No. 587
San Juan and Rio Arriba
Counties, 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	March 3, 1970
Commissioner of Public Lands	February 19, 1970
Oil Conservation Commission	February 19, 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:DI:nja
Rosa Unit 3.0



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

MAIN OFFICE
MAR 5 1970

March 3, 1970

133

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 Rosa unit area, San Juan and Rio Arriba Counties, 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.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:

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

MAIN OFFICE 910

'70 FEB 25 PM 1 12

133

February 19, 1970

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

Re: Rosa Unit
San Juan & Rio Arriba
Counties, New Mexico
1970 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1970 Drilling Program for the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells during the 1970 calendar year.

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.

Very truly yours,

Ted Bilberry, Director
Oil and Gas Department

TB/ML/s
encl.

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

C
O
P
Y

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 19, 1970

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

Attention: Mr. T. W. Bittick

Re: 1970 Drilling Program
Rosa Unit, San Juan and
Rio Arriba Counties,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation has this date approved the Drilling Program for the calendar year 1970 for the Rosa Unit, San Juan and Rio Arriba Counties, 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

El Paso Natural Gas Company

El Paso, Texas 79999

February 13, 1970

RECEIVED
FEB 18 AM 8 32

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: Rosa Unit, 1 Sec. No. 587
San Juan and Rio Arriba
Counties, 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 providing for the drilling of no wells. By letter dated August 21, 1969, El Paso Natural Gas Company, as Unit Operator, filed a Supplemental Drilling Program for 1969 providing for the drilling of five (5) Dakota wells by Dyna Ray Oil & Gas Co. as Sub-Operator. None of these five wells were drilled during 1969.

By letter dated October 15, 1969, El Paso Natural Gas Company, as Unit Operator filed a Supplemental Drilling Program for 1969 providing for the drilling of three (3) Dakota wells by Pan American Petroleum Corporation as Sub-Operator. The Mabel Senter #1 Well located in the NW/4 of Section 23, T-31-N, R-6-W, was commenced and completed during 1969. The Thelma E. McManus #1 Well located in the NW/4 of Section 33, T-31-N, R-5-W, was commenced in December, 1969, and completed in January, 1970. The Sarah E. Lilly "A" #1 Well located in the NE/4 of Section 8, T-31-N, R-5-W, was commenced in January, 1970, and as of this date operations are still in progress.

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

February 13, 1970

As of this date, the total number of wells drilled in the Rosa Unit on acreage committed to the Unit is as follows:

Mesaverde, Commercial	24
Mesaverde, Noncommercial	1
Mesaverde, Plugged & Abandoned	4
Dakota, Noncommercial	3
Dakota, Plugged & Abandoned	2
Dakota, wells described above for which	3
a Commercial determination has not	<u>37</u>
yet been made	

Pursuant to Section 9 of the Rosa 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.

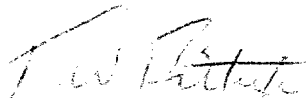
All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

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 9 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.

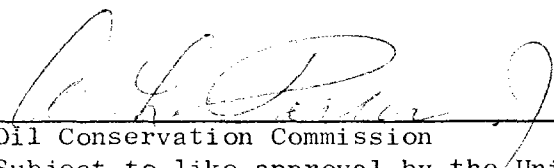
Very truly yours,


T. W. Bittick
Manager
Land Department

TWB:DI:ec
Enclosures
Rosa Unit 3.0

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:  _____ DATE: Feb 19, 1970
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 1970 Drilling Program for the Rosa Unit,
1 Sec. No. 587, San Juan and Rio Arriba Counties, New Mexico.

ROSA UNIT
Working Interest Owners

Mr. John R. Brennand

Colorado Oil & Gas Company

Dyna Ray Oil & Gas Co., Inc.

Pan American Petroleum Corporation (3)

Mr. Neville G. Penrose

Phillips Petroleum Company

Winifred K. Ponder

Mr. Frank A. Schultz

Southern Petroleum Exploration, Inc.

Mr. J. Glenn Turner

Mr. William G. Webb