PIPELINE DEEP UNIT LEA COUNTY, NEW MEXICO

Deletion of Units L and M, consisting of approximately 80 acres in Section 7, Township 19 South, Range 34 East, Lea County, New Mexico from the participating area for production from the Pipeline Unit Federal, Quail Ridge Morrow Gas Pool, Lea County, New Mexico.

GEOLOGICAL REPORT

The Union Oil Company of California No. 5 Pipeline Deep Unit
Federal well in Unit L, 1980 feet from the south line and 660
feet from the west line of Section 7, Township 19 South, Range
34 East, Lea County, New Mexico was drilled to 13,570 feet and
penetrated the entire sand section of the Pennsylvanian. Permeable
gas-bearing sands were not present, and the well was plugged and
abandoned.

Formation tops on the subject well as follows (elevation 3768' DF):

Rustler Yates	1,584 3,228
Queen	4,411
San Andres	5,113
Delaware	5,842
Bone Spring	7,819
Wolfcamp	10,797
Cisco	11,821
Canyon	12,012
Strawn	12,113
Atoka	12,374
Upper Morrow	12,902
Middle Morrow	13,144
Lower Morrow	13,412
Mississippian	13,542

The sands in the Morrow are tan to white, fine to coarse-grained, poorly sorted angular to subrounded quartz sand with some calcite and kaolinite in the matrix. They occur in ledges interbedded with shale. Testing of the subject well included perforations 13,435-44, from which interval was obtained gas too small to measure; perforations 13,524-527, from which water and a small amount of gas was swabbed; and perforations of five ledges, 13,054-13,288, from which gas too small to measure was recovered.

Pipeline Deep Unit Federal No. 5 Lea County, New Mexico Page 2

On the lower Morrow top the subject well is 159 feet low to the Chama Petroleum Company No. 2 Pennzoil-Federal well 1/2 mile to the northwest and is 72 feet low to the Union Oil Company No. 2 Pipeline Deep Unit Federal well 3/4 of a mile to the southeast. It is in a southward plunging syncline between these two wells.

Gas accumulation in this area is controlled by structure and by stratigraphy. In the subject well the Morrow sands are either too impermeable for gas production or they are water bearing. The portion of the Pipeline Deep Federal Unit participating area condemned by this well should be deleted from the participating area.

C. E. Singletary

Geologist

Union Oil Co. of California

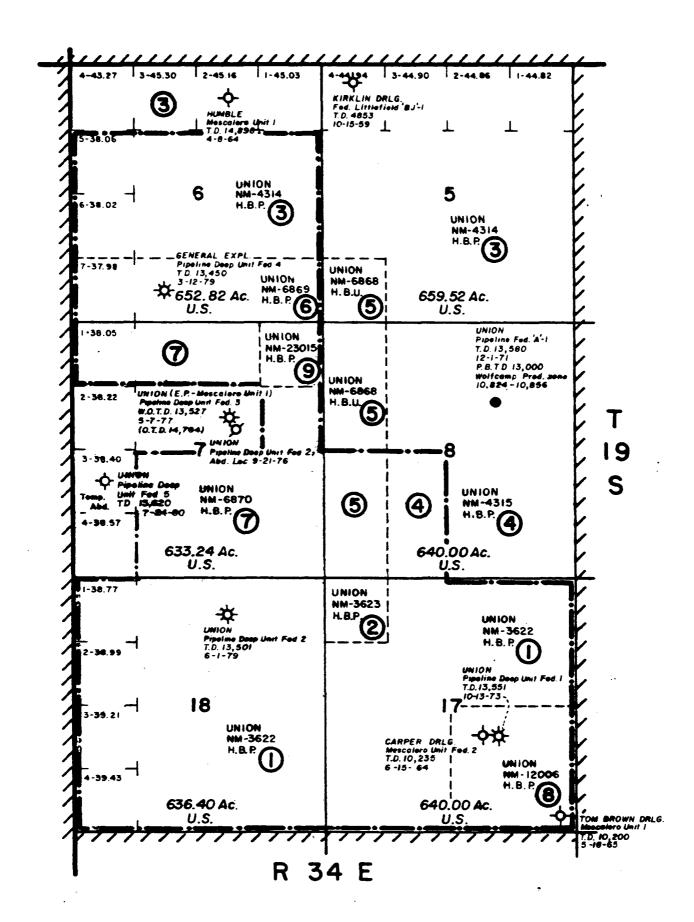


EXHIBIT "A" - (REVISED)

LAND OWNERSHIP MAP DEEP UNIT PIPELINE

(AS CONTRACTED EFFECTIVE SEPTEMBER I, 1979) LEA COUNTY, NEW MEXICO

ORIGINAL UNIT BOUNDARY

REVISED UNIT BOUNDARY & PARTICIPATING AREA

TRACT -NUMBER-INDEX TO EXHIBIT "B" 2

SCALE: |" = 2000'

REVISED EXHIBIT "B" PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO TOWNSHIP 19 South, Range 34 East

FEDERAL LANDS	TRACT LAND	OF	DESCRIPTION		
NDS	ACRES	OF	N NUMBER		
	OF LEASE	EXPIRATION DATE	SERIAL NO. &	AS CONT	-
	PERCENTAGE	AND OWNERSHIP	& BASIC ROYALTY LESSEE	RACTED EFFECTIVE AUGU	TORNOLLE TO DOMELL MAILE OF HADE
	RECORD	OF	LESSEE	ST 1, 1980	77 14454
	& PERCENTAGES	OR PRODUCTION PAYMENT	OVERRIDING ROYALTY		
	PERCENTAGE	AND	WORKING INT.		

Sec. 17: NE/4, E/2 NW/4, SW/4 1076.40 NM-3622 12.31.4, SW/4 USA - All 12.31-79 Union Oil Company of California Easton E. Brodsky 5% Union: All 12.31-79 Sec. 18: Lots 1,2,3,4, E/2, E/2 W/2 Lots 1,2,3,4, E/2, E/2 W/2 USA - All 10.31-77 Union Oil Company of California Lucretia G. Goldsmith 5% Union: All 10.31-77 Sec. 17: NW/4 NW/4 40.00 NM-3623 (12.5%) USA - All 10.31-77 Union Oil Company of California Lucretia G. Goldsmith 5% Union: All 10.5% Sec. 6: Lots 5,6, S/2 NE/4, NW/4 316.08 NM-4314 (12.5%) USA - All 10.5% Union Oil Company of California Wm. A.Jurklewicz 3% FROM SURFACE TO 13,245 N/2 SE/4 NW/2 SE/4 1-31-78 (12.5%) Union Oil Company of California Wm. A.Jurklewicz 3% FROM SURFACE TO 13,245 FEET Summark Expl. Company 1.146/50 Company 1.146/50 N/244043	ω	2	(-
NE/4, E/2 NW/4, 1076.40 NM-3622 USA - All SW/4 NW/4, SW/4 Lots 1,2,3,4, E/2, E/2 W/2 NM/4 NW/4 NW/4 NW/4 Lots 5,6, SE/4 NW/4, NE/4, SW/4, N/2 SE/4 N/2 SE/4	6:	Sec. 17:	Sec. 17:
NM-3622 USA - All Union Oil Company of California Easton E. Brodsky 5% (12.5%) NM-3623 USA - All Union Oil Company of California Lucretia G. Goldsmith 10-31-77 (12.5%) NM-4314 USA - All Union Oil Company of California Wm. A.Jurkiewicz 3% (12.5%)	Lots 5,6, \$/2 NE/4, \$E/4 NW/4, NE/4 SW/4, N/2 SE/4	NW/4 NW/4	NE/4, E/2 NW/4, SW/4 NW/4, SW/4 Lots 1,2,3,4, E/2, E/2 W/2
9 (12.5%) Union Oil Company of California Easton E. Brodsky 5% (12.5%) USA - All Union Oil Company of California Lucretia G. Goldsmith (12.5%) USA - All Union Oil Company of California Wm. A.Jurkiewicz 3% (12.5%)	316.08	40.00	1076.40
- All - All - Union Oil Company of California Lucretia G. Goldsmith 5%) - All - All - Union Oil Company of California Wm. A.Jurkiewicz 3% 5%)	NM-4314 1-31-78	NM-3623 10-31-77	NM-3622 12-31-79
- All - All - Union Oil Company of California Easton E. Brodsky 5% - All - All - All - Union Oil Company of California Lucretia G. Goldsmith 5%) - All - St) - St)			
y 5% smith	JSA - A11 (12.5%)		USA - All (12.5%)
	3%	Union 011 Company of California Lucretia G. Goldsmith 5	

Kenai Oil & Gas, Inc.
.0150563

Frank O.
Elliott Living Trust
.0619828

Gifford E. Joseph .0069726 B. Jackson Bandy .0244043

PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO REVISED EXHIBIT "B"

DESCRIPTION LAND OF ACRES NUMBER EXPIRATION DATE SERIAL NO. & OF LEASE TOWNSHIP 19 South, Range 34 East
AS CONTRACTED EFFECTIVE AUGUST 1, 1980
BASIC ROYALTY LESSEE AND OWNERSHIP PERCENTAGE RECORD OR PRODUCTION PAYMENT & PERCENTAGES OVERRIDING ROYALTY WORKING INT. PERCENTAGE AND

FEDERAL LANDS - (Continued)

TRACT

TO 13,245 FEET FROM SURFACE

Living Trust .0619828 Edna Ione Hall

McKay 011 Corp. 0212513

ners .0070837 Resource Part-

C&K Petroleum, Inc.

.0070837

Prince Frederick H.

Robert E. Landreth .0177094 .0354188

C.W. C.W. Trainer .0333334

David M. Trainer .03333333

Marvin C. Gross .0333333

REVISED EXHIBIT "B" PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO TOWNSHIP 19 South, Range 34 East

				AS CONTR.	AS CONTRACTED EFFECTIVE AUGUST	UST 1, 1980		
	DESCRIPTION	1	NUMBER	SERIAL NO. &		LE	RRIDING RO	WORK
TRACT	OF LAND	ł	OF ACRES	EXPIRATION DATE OF LEASE	AND OWNERSHIP PERCENTAGE	RECORD	& PERCENTAGES	PERCENTAGE
	FEDERAL LANDS	- (Continue			e ee			FROM SURFACE TO 13,245 FEET
(`	·		Stephen A. Wells .0708375
								Charles E. Nearburg .0708375
						·		Union Oil Co. of California .3333000
								BELOW 13,245 FEET
								Union: All
(·	Sec. 8: E	E/2 SW/4	80.00	NM-4315 1-31-78	USA - A11 (12.5%)	Union Oil Company of California	Ray O.Traylor 3.33% Tom Hoover 1.67%	Union 90.44296%
					-			Getty 9.55704%
տ	Sec. 8: W	W/2 SW/4	80.00	NM-6868 7-31-73	USA - A11 (12.5% to 25%)	Union Oil Company of California	None	Union 90.44296%
								Getty 9.55704%
6	Sec. 6: L	Lot 7, SE/4 SW/4, S/2 SE/4	157.98	NM-6869 7-31-73	USA - All (12.5% to 25%)	Union 011 Company of California	None	FROM SURFACE TO 13,245 FEET Sunmark Explo.
i di								Company

Company .1416750

REVISED EXHIBIT "B"

PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO TOWNSHIP 19 South, Range 34 East

AS CONTRACTED EFFECTIVE AUGUST 1, 1980

AND OWNERSHIP BASIC ROYALTY PERCENTAGE LESSEE RECORD O¥.

TRACT

LAND

OF ACRES NUMBER

> EXPIRATION DATE SERIAL NO. &

OF LEASE

FEDERAL LANDS - (Continued)

DESCRIPTION

FROM TO 13,245 FEET SURFACE OR PRODUCTION PAYMENT OVERRIDING ROYALTY

WORKING INT.

PERCENTAGE AND

& PERCENTAGES

Seretean .0244043 Martin B.

Bandy .0244043 B. Jackson

Joseph .0069726 Gifford E.

Gas, Inc. .0150563 Kenai 011 &

.0619828 Frank O.
Elliott Living Trust

Living Trust .0619828 Edna Ione Hall

McKay 011 Corp .0212513

ners Resource Part-.0070837

REVISED EXHIBIT "B"

PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO

TOWNSHIP 19 South, Range 34 East

SERIAL NO. & AS CONTRACTED EFFECTIVE AUGUST 1 BASIC ROYALTY

AND OWNERSHIP PERCENTAGE LESSEE RECORD OF & PERCENTAGES OR PRODUCTION PAYMENT OVERRIDING ROYALTY

FEDERAL LANDS - (Continued)

TRACT

LAND

NUMBER OF ACRES

EXPIRATION DATE

OF LEASE

DESCRIPTION

TO 13. FROM SURFACE ,245 FEET

WORKING INT.

AND

PERCENTAGE

C&K Petroleum,

.0070837 Inc.

.0354188 Prince Frederick H.

Robert E. Landreth .0177094

C. W. Trainer .0333334

David M. Trainer .03333333

Gross Marvin C. .0333333

Wells Stephen A. .0708375

Charles E. Nearburg .0708375

Union of Cal .3333000 011 Co. lifornia

REVISED EXHIBIT "B" PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO TOWNSHIP 19 South, Range 34 East AS CONTRACTED EFFECTIVE AUGUST 1 1980

			AS CONTR	AS CONTRACTED EFFECTIVE AUGUST	1, 1980	
	DESCRIPTION	NUMBER	SERIAL NO. &	BASIC ROYALTY	LESSEE	OVERRIDING ROYALTY WORKING INT.
•	OF	OF	EXPIRATION DATE	AND OWNERSHIP	OF OR PRODU	OR PRODUCTION PAYMENT AND
TRACT	LAND	ACRES	OF LEASE	PERCENTAGE	RECORD & PERCENTAGES	PER
·	FEDERAL LANDS - (Continued)	ued)	:	· wan		BELOW 13,245
		•		•		, a. a. a.
(Union: All
7	Sec. 7: Lots 1, NE/4 NW/4, NW/4 NE/4, SE/4 NE/4, E/2 SW/4, SE/4	398.05	NM-6870 7-31-73	USA - All (12.5% to 25%)	Union Oil Company of California None	Union: All
.	Sec.17: SE/4	160.00	NM-12006 8-31-75	USA - All (12.5% to 25%)	Union Oil Company of California None 50% Getty Oil Company 50%	Union: 50% Getty: 50%
9	Sec. 7: NE/4 NE/4	40.00	NM-23015 1-31-79	USA - All	Union Oil Company of Califonia None	Union: All

Nine (9) Federal Tracts 2,348.51 acres

Union Oil and Gas Division: Central Region

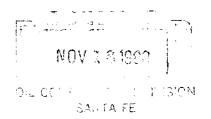
Union Oil Company of California 500 North Marienfeld, Midland, Texas 79701 P.O. Box 671, Midland, Texas 79702 Telephone (915) 682-9731



Robert V. Lockhart

District Land Manager Midland District

November 13, 1980



Oil & Conservation Division Energy & Mineral Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey, Director

Gentlemen:

Case No. 4985 Order No. R-4552 Pipeline Deep Unit Area

Lea County, New Mexico

(U.S.G.S. Contract #14-08-0001-12402)

In accordance with my telephone conversation yesterday, I am enclosing the following items:

- 1.) U.S.G.S. letter dated September 6, 1979, together with an approved application for approval of the first revision of the participating area of the Morrow formation dated June 14, 1979;
- 2.) U.S.G.S. letter dated February 25, 1980, together with an approved copy of application for approval of the second revision of the participating area of the Morrow formation;
- U.S.G.S. letter dated August 13, 1980, together with approved application to contract the Pipeline Deep Unit effective September 1, 1979.

As I stated in my telephone conversation with you, I am at a loss as to why we failed to submit these items to you at an earlier date. We will do our best to prevent this in the future. Thank you for your cooperation in this matter.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

Collet V. Kitchart Robert V. Lockhart

District Land Manager

RVL: ib Encls: 3

United States Department of the Interior

GEOLOGICAL SURVEY

South Central Region P. O. Box 26124

Albuquerque, New Mexico 87125

 $\text{RECL}_{2,2}(\mathbb{R}^{2})$

1 3 AUG 1980

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RECEIVED

Union Oil Company of Calafornia

Attn: John Hanson 500 North Marienfeld Midland, Texas 79701

To Ches Hicks

NOV 181980

AUG 1 9 1980

MIDLAND DISTRICT LAND

Gentlemen:

OIL CO IS AVAILABION SANTA FE

Your letter of March 5, 1980, accompanied by revised Exhibits A and B, correctly describes the lands automatically eliminated from the Pipeline Deep unit agreement, Lea County, New Mexico, pursuant to Section 2(e) of the unit agreement. The lands so eliminated have been described as containing 1,436.50 acres, which constitutes all legal subdivisions, no part of which is included in the 2,425.48-acre Morrow participating area which is the resultant unit area.

Federal lands remaining within the contracted unit area are embraced in the following leases:

 NM 3622
 NM 4315*
 NM 6870*

 NM 3623
 NM 6868*
 NM 12006

 NM 4314*
 NM 6869
 NM 23015

* Indicates leases which cover lands inside the unit area, as well as lands eliminated from the unit area.

No lease has been entirely eliminated from the unit area.

The initial Morrow participating area was effective October 12, 1973, which set the date of October 12, 1978 when automatic contraction provisions of Section 2(e) became operative. Since diligent drilling operations were in progress on nonparticipating lands on October 12, 1978 the automatic elimination provisions were extended for so long as drilling operations were continued diligently, with not more than 90 days time elapsing between the completion of one well and the commencement of the next well. Our records show that well No. 2 was completed on June 2, 1979 which set September 1, 1979 as the automatic elimination date.

We hereby concur with your description of lands automatically eliminated from the Pipeline Deep unit agreement effective September 1, 1979. You have complied with the requirement of

Section 2(e) to our satisfaction, provided you notify all parties in interest. Enclosed is one copy of the approved notification.

Sincerely yours,

for Floyd L. Stelzer

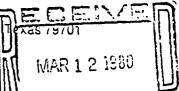
Acting Deputy Conservation

Manager Oil and Gas

Enclosure

AALopez:gsh:8/11/80

Union Oil Compan, of Californ 500 North Marienfeld, Midland Telephone (915) 682-9731



UTTON

U.S. GEOLOGICAL SURVEY ALBUQUERQUE, NEW MEXICO

hidland District

March 5, 1980

Director U.S. Geological Survey Department of the Interior Washington, D. C. 20025

Attn:Supervisor U.S.Geological Survey P. O. Box 26124
Albuquerque, New Mexico 87125

Dear Sir:

Pipeline Deep Unit
Lea County, New Mexico
N. 14-08-0001-12402
Automatic Contraction to Pipeline
Deep Participating Area
Effective September 1, 1979

Pursuant to Subsection 2(e) of the Pipeline Deep Unit Agreement, approved by the Supervisor of the United States Geological Survey July 26, 1973, Union Oil Company of California, as Unit Operator, submits for your approval the following description of lands eliminated from said Agreement as a result of the automatic contraction of the Unit, effective as of September 1, 1979:

Township 19	South, Range 34 East	Acres
Section 5:	Lots 1,2,3,4, S/2 N/2, S/2,	659.52
	being the entire Section	
Section 6:	Lots 1,2,3, and 4	178.76
Section 7:	Lot 2, SE/4 NW/4, SW/4 NE/4	118.22
Section 8:	NE/4, NW/4, SE/4	480.00
TOTAL	(All Federal Land)	1,436.50

Attached and also submitted for your approval are revised Exhibits "A" and "B" for the Final Pipeline Deep Unit, as contracted.

Cont'd. next pg.-

Applicant respectfully requests approval of the elimination, effective as of September 1, 1979, of the above described lands from the Pipeline Deep Unit Agreement and also requests approval of the attached revised Exhibits "A" and "B" for the Final Pipeline Deep Unit, as contracted. Upon receipt of such approval, we shall send appropriate notification of the foregoing to all other parties in interest as required by Subsection 2(e) of the Unit Agreement.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA

/ib

Attach: 6

1 3 AUG 1980

Deputy Conservation Manager, 0&G

South Central Region

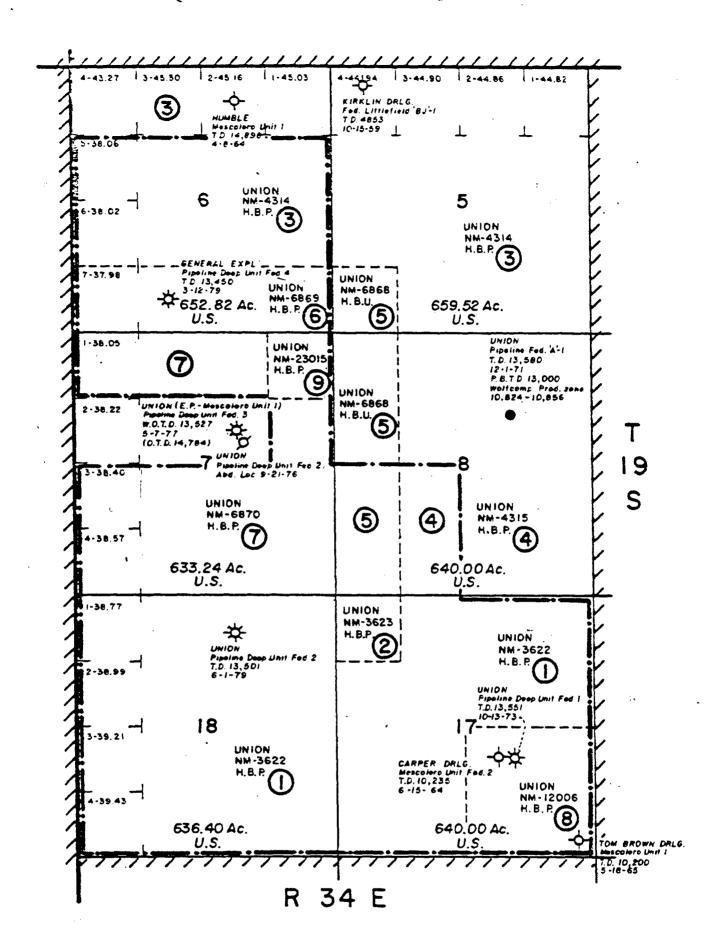


EXHIBIT "A" - (REVISED)

LAND OWNERSHIP MAP - PIPELINE DEEP UNIT
(AS CONTRACTED EFFECTIVE SEPTEMBER 1, 1979)

LEA COUNTY, NEW MEXICO



ORIGINAL UNIT BOUNDARY

REVISED UNIT BOUNDARY & PARTICIPATING AREA

TRACT NUMBER-INDEX TO EXHIBIT "B"

REVISED EXHIBIT "B" PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO TOWNSHIP 19 South, Range 34 East

			AS CONTR.	AS CONTRACTED EFFECTIVE SEPTEMBER 1, 1979	EMBER 1, 1979		
	DESCRIPTION	NUMBER	SERIAL NO. &	BASIC ROYALTY	LESSEE	OVERRIDING ROYALTY	WORKING IN
	OF	OF	EXPIRATION DATE	AND OWNERSHIP	OF	OR PRODUCTION PAYMENT	ONV
RACT	LAND	ACRES	OF LEASE	PERCENTAGE	RECORD	& PERCENTAGES	PERCENTAGE

	OVERRIDING ROYALTY WORKING INT.	OR PRODUCTION PAYMENT AND	TAGES PERCENTAGE		Baston E. Brodsky 5% Union: All		Lucretia G. Goldsmith 5% Union: All	rkiewicz 3% FROM SURFACE TO 13,245 FEET Sunmark Expl. Company .1416750
6/	OVERRIDI	OR PRODUC	& PERCENTAGES		Union Oil Company of California Easton E.		Union Oil Company of California Lucretia	Union Oil Company of California Wm. A.Jurkiewicz
E SEFIEMBER 1, 19/9	TY LESSEE	IP OF	RECORD	~	Union 011		Union Oil	Union Oil
AS CUNIKACIED EFFECTIVE SEFIE	BASIC ROYALTY	E AND OWNERSHIP	PERCENTAGE		USA - A11 (12.5%)		USA ~ A11 (12.5%)	USA - A11 (12.5%)
AS	SERIAL NO. &	EXPIRATION DATE	OF LEASE		0 NM-3622 12-31-79) NM-3623 10-31-77	3 NM-4314 1-31-78
	NUMBER	OF	ACRES	হা	NE/4, E/2 NW/4, 1076.40 SW/4 NW/4, SW/4 Lots 1,2,3,4,	2, E/2 W/2	NW/4 NW/4 40.00	Lots 5,6, 316.08 S/2 NE/4, SE/4 NW/4 NE/4 SW/4, N/2 SE/4
	DESCRIPTION	OF	LAND	FEDERAL LANDS	Sec. 17: NE Sw Sec. 18: Lo	.	Sec. 17: NW	Sec. 6: Lo S/ SE NE

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Martin B. Serctean .0244043

B. Jackson Bandy .0244043

Gifford E. Joseph .0069726

Elllott Living Trust .0619828

Frank O.

Kenal 011 & Gas, Inc.

PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO AS CONTRACTED EFFECTIVE CEPTEMBER 1 10 REVISED EXHIBIT "B"

	WORKING INT.	AND	PERCENTACE	
	OVERRIDING ROYALTY V	OR PRODUCTION PAYMENT	& PERCENTAGES	
1979	H	-	Q	
PTEMBER 1,	LESSEE	OF	RECORD	
AS CONTRACTED EFFECTIVE SEPTEMBER 1, 1979	BASIC ROYALTY	AND OWNERSHIP	PERCENTAGE	
AS CONTI	SERIAL NO. &	EXPIRATION DATE	OF LEASE	
	NUMBER	OF	ACRES	
	DESCRIPTION	OF	I.AND	

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Edna Ione Hall Living Trust .0619828

McKay 011 Corp. .0212513

Resource Partners

C&K Petroleum, .0070837

Inc. .0070837

Frederick H. Prince .0354188

Robert E. Landreth

.0177094

C.W. Trainer .0333334

David M. Trainer .0333333

Marvin C.

Gross .0333333

REVISED EXHIBIT "B" PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO TOWNSHIP 19 South, Range 34 East

	HIT.	AND	RFACE 45 FEET	· · ·	E 6:0	tl Co. Cornía)	3,245	A11	(%	%	. %	%	FACE 5 FEET Explo.
	WORKI	PERC	FROM SURFACE TO 13,245 FEIST	Stephen A. Wells .0708375	Charles E. Nearburg .0708375	Union Oil Co. of California .3333000	BELOW 13,245 FEET	Union:	Unton 90.44296%	Getty 9,55704%	Union 90.44296%	Getty 9.55704%	FROM SURFACE TO 13,245 FEET Sunmark Explo. Company .1416750
	OVERRIDING ROYALTY	OR FRODUCTION PAYMENT							Ray O.Traylor 3.33% Tom Hoover 1.67%				
	OVER	OK P							Ray		None	·	None
1979	SSEE	OF RECORD							Oil Company of California		Union Oil Company of California		Union Oil Company of California
Kange 34 East SEPTEMBER 1.	LESSEE	REC	· ·						Union		Union		Uniton
TOWNSHIP 19 South, Ra CONTRACTED EFFECTIVE SE		AND OWNERSHIP PERCENTAGE	₹ ·						USA - A11 (12.5%)	•	USA -'A11 (12.5% to 25%)		USA - A11 (12.5% to 25%)
TY AS CONT	SERIAL NO. 6	EXPIRATION DATE OF LEASE							NM-4315 1-31-78		NM-6868 7-31-73		NM-6869 7-31-73
	NUMBER	OF ACRES	nued)						80.00		80.00		157.98
	DESCRIPTION	OF LAND	FEDERAL LANDS - (Continued)						c. 8: E/2 SW/4		c. 8: W/2 SW/4		c. 6: Lot 7, SE/4 SW/4, S/2 SE/4
	DESCR	0 V	FEDER						Sec.		Sec.		Sec.

PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO TOWNSHIP 19 South, Range 34 East AS CONTRACTED EFFECTIVE SEPTEMBER 1 1979 REVISED EXHIBIT "B"

,		AS CUNIKA	AS CONTRACTED EFFECTIVE SEFTEMBER 1, 19/9	MDEK 1, 19/9		
ESCRIPTION	NUMBER	SERIAL NO. 6	BASIC ROYALTY	LESSEE	OVERRIDING ROYALTY	WORKING INT.
OF	OF	EXPIRATION DATE	AND OWNERSHIP	OF .	OR PRODUCTION PAYMENT	ONV
LAND	ACRES	OF LEASE	PERCENTAGE	RECORD	6 PERCENTAGES	PERCENTAGE

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B. Jackson Bandy .0244043

Gifford E. Joseph .0069726 Kenai 011 & Gas, Inc.

Frank O. Elliott Living Trust

.0619828

Edna lone Hall Living Trust .0619828

McKay 011 Corp. .0212513

Resource Partners .0070837

PIPELINE DEEP UNIT AREA - LEA COUNTY, NEW MEXICO TOWNSHIP 19 South, Range 34 East REVISED EXHIBIT "B"

	WORKING INT.	OND	PERCENTAGE	
	OVERRIDING ROYALTY	OR PRODUCTION PAYMENT	& PERCENTAGES	
EMBER 1, 1979	LESSEE	OF	RECORD	
AS CONTRACTED EFFECTIVE SEPTI	BASIC ROYALTY	AND OWNERSHIP	PERCENTAGE	
AS CONTR	SERIAL NO. 6	EXPIRATION DATE	OF LEASE	
	NUMBER	OF	ACRES	
	DESCRIPTION	OF	LAND	

FEDERAL LANDS - (Continued)

C&K Petroleum,	Inc.	.0070837	:

TO 13,245 FEET

FROM SURFACE

Frederick H. .0354188 Prince

Robert E. Landreth .0177094 C. W. Trainer .0333334

Trainer .0333333 David M.

Marvin C. Gross

Stephen A. Wells .0708375

Charles E. Nearburg .0708375

Union Oil Co. of California

REVISED EXHIBIT "n" PIPELINE DEEP UNIT AREA ~ LEA COUNTY, NEW MEXICO TOWNSHIP 19 South, Range 34 East AS CONTRACTED EFFECTIVE SEPTEMBER 1, 1979

-			[(
	G INT.	AND	PERCENTAGE	BELOW 13,245 FEET	111	A11	50% 50%	٨11
	WORKING INT	<	PERCE	BELOW FEET	Union:	Union:	Union: Getty:	Union:
	OVERRIDING ROYALTY	OR PRODUCTION PAYMENT	& PERCENTAGES			None	None	None
	00	OR	-5					
		·				Union Oil Company of California	Union Oil Company of California 50% Getty Oil Company 50%	Union Oil Company of Califonia
				÷		1 Comp	1 Comp	1 Comp
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OCLIC	-	بم	-	3		5%)	5%)	
AS CONTRACTED EFFECTIVE SEFTEMBER 1, 1979	BASIC ROYALTY	AND OWNERSHIP	PERCENTAGE			USA - A11 (12.5% to 25%)	USA - A11 (12.5% to 25%)	USA - A11
2	80. &	N DATE	3E				v o	10
•	SERIAL NO. &	EXPIRATION DATE	OF LEASE			NM-6870 7-31-73	NM-12006 8-31-75	NM-23015 1-31-79
	NUMBER	OF	ACRES	(p:	-	475.02	160.00	40.00
				EDERAL LANDS - (Continued)		Lots 1,3,4, NE/4 NW/4, NW/4 NE/4, SE/4 NE/4, E/2 SW/4, SE/4	SE/4	NE/4 NE/4
	TION		ا	LANDS		7:, Lo NE N SE E/	7: SE	7: NE
	DESCRIPTION	OF	LAND	FEDERAL	•	Sec.	Sec. 1	Sec.

Nine (9) Federal Tracts 2,425.48 acres



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
P. 0. Box 26124
Albuquerque, New Mexico 87125

2 5 FEB 1980

Union Oil Company of California Attention: Mr. Richard R. Oelze P. O. Box 671 Midland, Texas 79702

RECEIVED

FEB 28 1980

Gentlemen:

MIDLAND DISTRICT LAND

Your application dated September 26, 1979 requesting approval of the second revision of the Morrow participating area, Pipeline Deep unit agreement, Lea County, New Mexico, was approved by the Oil and Gas Supervisor, U.S. Geological Survey, effective June 2, 1979.

The second Morrow participating area adds 1,113.37 acres to the existing participating area for a total of 2,425.48 acres. Such participating area is based on the completion of unit well No. 2 in the NW\(\frac{1}{2}\)NE\(\frac{1}{2}\) of sec. 18, T. 19 S., R. 34 E., N.M.P.M. Well No. 2 was completed on June 2, 1979 and determined to be commercial as a paying well pursuant to section 9 of the unit agreement by letter of September 6, 1979.

Copies of the approved application are being distributed to the appropriate Federal offices and one copy is returned herewith. You are requested to furnish all interested parties with evidence of this approval.

Our records show that the initial Morrow participating area for the Pipeline Deep unit agreement was established effective October 13, 1973. This effective date set the date of October 12, 1978 as the time when the automatic elimination provision contained in section 2(e) of the subject unit agreement became operative. Drilling operations were in progress on the unitized land within the Pipeline Deep unit area outside the approved participating area on October 12, 1978. Therefore, automatic elimination was deferred so long as such drilling operations were continued diligently with not more than ninety days elapsing between the completion of one well and the commencement of the next well. On



NOV 1 3 1980
OIL OF STANLING SAINTA FE

ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

June 2, 1979 well No. 2 was completed and no further drilling operations were commenced within ninety days, therefore, all unit nonparticipating lands were automatically eliminated effective September 1, 1979.

As unit operator you are required to submit to this office within ninety days a description of lands so eliminated with appropriate revised exhibits A and B.

Sincerely yours,

V James W. Sutherland

Oil and Gas Supervisor, SRMA

Enclosure

Copy: John Hausen 2/28/80

Pipeline Deep Unit Area Lea County, New Mexico Application for approval of the second revision of the participating area of the Morrow formation.

Supervisor
United States Geological Survey
P. O. Box 26124
Albuquerque, New Mexico 87125
Attn: Jack Willock
Acting Oil and Gas Supervisor, SRMA

Union Oil Company of California, as unit operator for the Pipeline Deep unit agreement, approved by the Regional Conservation Manager of the U. S. Geological Survey, effective July 23, 1973, pursuant to the provisions of section 11 thereof, respectfully submits for your approval the selection of the following described land to constitute the Second revision of the participating area for the Morrow producing zone or formation, to wit:

Township 19 South, Range 34 East, N.M.P.M.

Section 7: Lots 3 & 4; E/2 SW/4; SE/4

Section 8: SW/4 Section 18: All

Containing 1,113.37 acres, more or less

In support of this application the following numbered items are attached hereto and made a part hereof:

- (1) An ownership map marked Exhibit "A" showing thereon the boundary of the unit area, the participating area as heretofore established, and the boundary of the proposed revision herein.
- (2) A schedule showing the lands entitled to participation in the unitized substances produced from the Morrow formation, with the percentages of participation of each lease or tract indicated thereon.

Applicant is submitting separately in triplicate a geological report with accompanying maps supporting and justifying the proposed selection of the Second revision of the participating area.

This proposed Second revision of the participating area is predicated upon the knowledge and information first obtained upon completion in paying quantities under the terms of the unit agreement on June 2, 1979, of unit well No. 2 in NW/4 NE/4, Section 18, T-19-S, R-34-E, with an initial production of CAOF 6.080 MMCF/D plus 68.5 BCPMCFG from the Morrow formation at a depth of 13,388 to 13,402 feet. The well went on stream at 10:00 a.m. September 24, 1979, and produced 875 MCF/D plus 150 B/D of condensate. For the day ending September 25, 1979, the well produced 1600 MCF/D plus 140 B/D of condensate, flowing tubing pressure of 2500 PSIG. The effective date of this Second revision shall be June 1, 1979, pursuant to section 11 of the unit agreement.

Consequently, applicant respectfully requests your approval of the herein above selection of lands to constitute the Second revision of the participating area to be effective June 1, 1979.

Dated this 26th day of September, 1979.

APPROVED 2 5 FEB 1980

AREA OIL AND GAS SUPERVISOR, SRMA U.S. GEOLOGICAL SURVEY

Robert V. Lockhart

District Land Manager

UNION OIL COMPANY OF CALIFORNIA

EXHIBIT "B" SECOND REVISION MORROW FORMATION PARTICIPATING AREA PIPELINE DEEP UNIT AGREEMENT LEA COUNTY, NEW MEXICO

TRACT NO.	LEASE NO.	DESCLIPTION	PARTICIPATING ACRES	PERCENT OF PARTICIPATION	WORKING INTEREST OWNER
		All Lands are in T-19-S, R-34-E, N.M.P.M.			
	NM-3622	Sec 17: NE/4, E/2 NW/4, SW/4 NW/4, SW/4	1,076.40	44.378845	Union Oil Co. of California
		Sec 18: Lots 1, 2, 3, & 4 E/2 W/2, E/2			
2 .	NM-3623	Sec 17: NW/4 NW/4	40.00	1.649158	Union Oil Co. of California
w	NM-4314	Sec 6: Lots 5 & 6 S/2 NE/4, N/2 SE/4, NE/4 SW/4, SE/4 NW/4	316.08	13.031647	Union Oil Co. of California
4	NM-4315	Sec 8: E/2 SW/4	80.00	3.298316	Union Oil Co. of California
G _e	NM-6868	Sec 8: W/2 SW/4	80.00	3.298316	Union Oil Co. of California
6	NM-6869	Sec 6: Lot 7, SE/4 SW/4, S/2 SE/4	157.98	6.513350	Union Oil Co. of California
7	NM-6870	Sec 7: Lots 1, 3 & 4, NE/4 NW/4, NW/4 NE/4, SE/4 NE/4, E/2 SW/4, SE/4	475.02	19.584577	Union Oil Co. of California
&	NM-12006	Sec 17: SE/4	160.00	6.596633	Union Oil Co. of California
9	NM-23015	Sec 7: NE/4 NE/4	40.00	1.649158	Union Oil Co. of California
			2,425.48	100.000000	

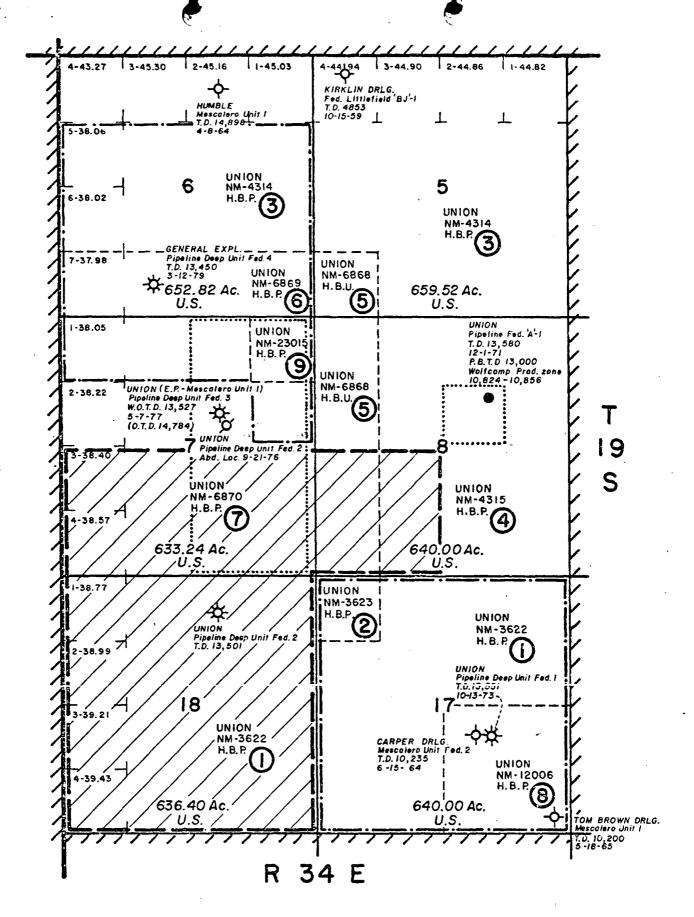


EXHIBIT "A"

LAND OWNERSHIP MAP - PIPELINE DEEP UNIT

LEA COUNTY, NEW MEXICO SCALE: I" = 2000'

miner,	UNIT BOUNDARY-ALL FEDERAL LANDS-3861.98 Ac (5) TRACT NUMBER
	EXISTING PARTICIPATING AREA-PIPELINE DEEP UNIT FED. No. 1 & No. 4 (effective Morch 1, 1979)
	EXISTING PRORATION UNITS - NON UNIT WELLS
	PROPOSED PARTICIPATING AREA- PIPELINE DEEP UNIT FED. No. 2

PIPELINE DEEP UNIT LEA COUNTY, NEW MEXICO

Participating Area for Production from the Pipeline Deep Unit Federal Well No. 2 from the Morrow Formation, Quail Ridge Morrow Gas Pool, Lea County, New Mexico

GEOLOGICAL REPORT

The Union Oil Company of California No. 2 Pipeline Deep Unit Federal well in Unit B, 660 feet from the north line and 1980 feet from the east line of section 18, Township 19 south, Range 34 east, Lea County, New Mexico, was drilled to a total depth of 13,501 feet which penetrated the entire Morrow section of the Pennsylvanian. Subject well was completed June 1, 1979 from the Morrow formation for CAOF 6,080 MCF gas per day with a gas liquid hydrocarbon ratio of 14.583 MCF per barrel.

Formation tops on subject well as follows (elevation 3,757 DF):

Rustler	1,614
Yates	3,257
Queen	4,360
San Andres	5,053
Delaware	5,740
Bone Spring	7.840
Wolfcamp	10,806
Cisco	11,806
Canyon	11,996
Strawn	12,096
Atoka	12,353
Morrow	12,842
Lower Morrow	13,334
Mississippian	13,454

Gas production in the No. 2 Pipeline Deep Unit Federal well is from perforations 13,388 to 13,402 feet in a lower Morrow sand. The accumulation appears to be controlled both by structure and stratigraphy.

The reservoir rock is a tan, coarse-grained, quartz sand. Some kaolinite particles were observed in the cuttings. A total of 40 feet of clean sand is present in the lower Morrow being in two units of 30 feet and 10 feet. Porosity calculations from wireline logs range up to 13.5 percent. Shut in bottom hole pressure is 6,184 psi at 13,318 feet.

Pipeline Deep Unit Lea County, New Mexico Page 2

Subject well ran 8 feet high to the No. 3 Pipeline Deep Unit Federal well located approximately 3/4 mile to the north and ran 46 feet high to the No. 1 Pipeline Deep Unit Federal well located approximately 1-1/4 mile to the southeast. Subject well is located on the west flank of the Pipeline Deep structure approximately 100 feet below the crest.

. B. Jordan

Area Development Geologist Union Oil Company of California



United States Department of the Interior

GEOLOGICAL SURVEY P. 0. Box 26124 Albuquerque, New Mexico 87125

SEP 9 1979



SEP 0 6 1979

Union Oil Company of California Attention: Mr. Robert V. Lockhart P. 0. Box 671 Midland, Texas 79702



Gentlemen:

Your letter of June 20, 1979, indicates that as unit operator of the Pipeline Deep unit agreement, Lea County, New Mexico, you have determined that unit well No. 2 in the $NW_{\pm}^{2}NE_{\pm}^{2}$ section 18, T. 19 S., R. 34 E., N.M.P.M., is capable of producing unitized substances in paying quantities.

Unit well No. 2 was tested on June 2, 1979, from the Morrow interval 13,388 to 13,402 feet for a CAOF of 6.080 MMCF/D plus 68.5 barrels of condensate.

This office concurs with your determination that such well is capable of producing unitized substances in paying quantities from the Morrow formation pursuant to section 9 of the unit agreement. You are also requested, pursuant to section 11 of the unit agreement, to submit an application for the revision of the existing Morrow participating area at your earliest convenience.

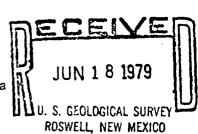
Sincerely yours,

Jul Welcock ďack Willock

Acting Oil and Gas Supervisor, SRMA

Enclosure

In Re: Pipeline Deep Unit Area Lea County, New Mexico Application for approval of the Second first revision of the participating area of the Morrow formation.



Supervisor
United States Geological Survey
P. O. Box 26124
Albuquerque, New Mexico 87125
Attn: Jack Willock

Acting Oil and Gas Supervisor, SRMA

Union Oil Company of California, as unit operator for the Pipeline Deep unit agreement, approved by the Regional Conservation Manager of the U. S. Geological Survey, effective July 26, 1973, pursuant to the provisions of section 11 thereof, respectfully submits for your approval the selection of the following described land to constitute the Second revision of the participating area for the Morrow producing zone or formation, to wit:

Township 19 South, Range 34 East, N.M.P.M.

Section 6: Lots 5, 6 & 7; S/2 NE/4; SE/4;
E/2 SW/4; and SE/4 NW/4

Section 7: Lot 1; NE/4 NW/4; N/2 NE/4;
and SE/4 NE/4,

Containing 672.11 acres, more or less

In support of this application the following numbered items are attached hereto and made a part hereof:

- (1) An ownership map marked Exhibit "A" showing thereon the boundary of the unit area, the participating area as heretofore established, and the boundary of the proposed revision herein.
- (2) A schedule showing the lands entitled to participation in the unitized substances produced from the Morrow formation, with the percentages of participation of each lease or tract indicated thereon.
- (3) Xerox copies of the New Mexico Oil Conservation Commission Operator's Monthly Report Form C-115 for the months of March and April, 1979.

Applicant is submitting separately in triplicate a geological report with accompanying maps supporting and justifying the proposed selection of the Second revision of the participating area. $f_{iks} + f_{iks} + f_$

This proposed Second revision of the participating area is predicated upon the knowledge and information first obtained upon completion in paying quantities under the terms of the unit agreement on March 12, 1979, of unit well No. 4, in SE/4 SW/4, Sec. 6, T-19-S, R-34-E, with an initial production of AOF 2918 MCFGPD (with a gas/liquid hydrocarbon ratio of 153.77 MCF/bbl of condensate) from the Morrow formation at a depth of 13,065 to 13, 245 feet. The effective date of this Second revision shall be March 2, 1979, pursuant to section 11 of the unit agreement.

Consequently, applicant respectfully requests your approval of the herein above selection of lands to constitute the Second revision of the participating area to be effective March 2, 1979.

Dated this 14th day of June, 1979.

UNION OIL COMPANY OF CALIFORNIA

Robert V. Lockhart

District Land Manager

APPROVED Rellicera

ACTIFIE AREA OIL AND GAS SUPERVISOR, SRMA
U.S. GEOLOGICAL SURVEY

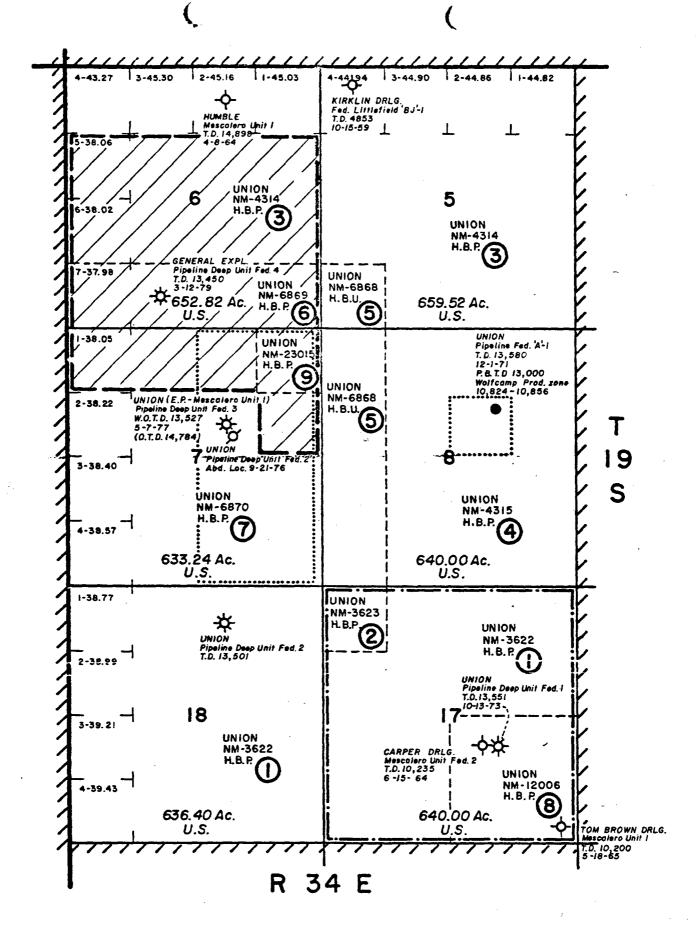


EXHIBIT "A"

LAND OWNERSHIP MAP - PIPELINE DEEP UNIT

LEA COUNTY, NEW MEXICO SCALE: I" = 2000'

UNIT BOUNDARY-ALL FEDERAL LANDS-3861.98 AC — 5 TRACT NUMBER

EXISTING PARTICIPATING AREA-PIPELINE DEEP UNIT FED. No. 1

EXISTING PROPATION UNITS - NON UNIT WELLS

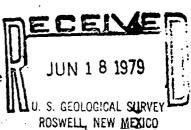
PROPOSED PARTICIPATING AREA-PIPELINE DEEP UNIT FED. No. 4

EXHIBIT "B"
FIRST REVISION MORROW FORMATION
PARTICIPATING AREA
PIPELINE DEEP UNIT AGREEMENT
LEA COUNTY, NEW MEXICO

TRACT NO.	LEASE NO.	DESCRIPTION	PARTICIPATING ACRES	PERCENT OF PARTICIPATION	WORKING INTEREST OWNER
		All Lands are in T-19-S, R-34-E, N.M.P.M.			
	NM-3622	Sec. 17: NE/4, E/2 NW/4, SW/4	440.00	33.53377	Union Oil Company of California
2	NM-3623	Sec. 17: NW/4 NW/4	40.00	3.04853	Union Oil Company of California
	NM-4314	Sec. 6: Lots 5&6, S/2 NE/4, N/2 SE/4, NE/4 SW/4, SE/4	316.08	24.08944	Union Oil Company of California
9	NM-6869	Sec. 6: Lot 7, S/2 SE/4 SE/4 SW/4	157.98	12.04015	Union Oil Company of California
7	NM-6870	Sec. 7: Lot 1, NE/4 NW/4, NW/4 NE/4, SE/4 NE/4	158.05	12.04548	Union Oil Company of California
۵	NM-12006	Sec. 17: SE/4	160.00	12.19410	Union Oil Company of California
6	NM-23015	Sec. 7: NE/4 NE/4	40.00	3.04853	Union Oil Company of California
			1,312.11	100.00000	

PIPELINE DEEP UNIT LEA COUNTY, NEW MEXICO

Participating Area for production in the Pipeline Deep Unit No. 4 well from the Morrow formation, Quail Ridge North Morrow Gas pool, Lea County, New Mexico.



GEOLOGICAL REPORT

Morrow production was established from the Union Oil Company of California (General Exploration Company) #4 Pipeline Deep Unit Federal well in Unit N, 660 feet from the south line and 1980 feet from the west line of Section 6, Township 19 south, Range 34 east, Lea County, New Mexico. Subject well was drilled to a total depth of 13,450 feet. It was completed for C.A.O.F. of 5,700 MCF of gas per day on March 12, 1979.

Formation tops on subject well as follows: (Elevation 3800'DF)

Rustler	1,567'
Yates	3,159
Queen	4,435'
San Andres	5,0651
Delaware	5,783'
Bone Spring	7,5501
Wolfcamp	10,723'
Cisco	11,773'
Canyon	11,960'
Strawn	12,060'
Atoka	12,317'
Morrow	12,823'
Lower Morrow	13,301'

Gas production in the "4 Pipeline Deep Unit Federal well is from selected perforations between 13,065' and 13,245' in the Middle Morrow. The trapping mechanism appears to be controlled by both stratigraphy and structure (see enclosed structure map). The structure map is contoured at 50 foot intervals on top of the Lower Morrow sand. Scale of map is 1" = 2,000'. Producing horizons are color coded.

The reservoir consists of three white to tan coarse to fine grained sands separated by shale streaks within a gross interval of 180 feet in the Middle Morrow. Forty-five feet of net porosity is present which ranges from 7 to 12%. A 43 hour shut-in bottom hole pressure of 6,474 psig was recorded at 13,155 feet.

Subject well ran 115 feet high to the dry hole in the NE/4 of Section 6 and ran 96 feet high to the well in the NE/4 of Section 7. This is the highest well on the Pipeline Deep Unit structure. Isopach mapping of the porosity within the zones of the Morrow indicate that the porosity trends in a northwest-southeast direction.

J. B. Jordan

Geologist

Union Oil Company of California

JBJ/skp

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