

6880

# Mobil Exploration & Producing U.S. Inc.

January 12, 1988

P.O. BOX 633  
MIDLAND, TEXAS 79702

MIDLAND DIVISION

Bureau of Land Management  
Roswell District Office  
P. O. Box 1397  
Roswell, New Mexico 88201

Attention: F. R. Cherry, Jr.  
District Manager

1988 PLAN OF OPERATIONS  
WEST LYNCH DEEP UNIT  
C-3950; SONM-1438  
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing Texas & New Mexico Inc. "Mobil", as Unit Operator of the West Lynch Deep Unit, submits this 1988 Plan of Operations on behalf of the Working Interest Owners and in compliance with Bureau of Land Management requirements.

No new wells were drilled in 1987. The West Lynch Deep Unit Well No. 1 continues to be the only producer in the unit.

There are no plans at this time to drill any additional wells or to rework or recomplate the West Lynch Deep Unit Well No. 1 in 1988. Only normal maintenance activities are projected for 1988.

All Working Interest Owners under the West Lynch Deep Unit have been provided with a copy of this Plan of Operation. Mobil, as Unit Operator, and the Working Interest Owners believe that all current unit obligations and requirements have been met.

# Mobil

Bureau of Land Management  
January 12, 1988  
Page 2

If this Plan of Operation meets with your approval, then signify your approval in the space provided below and return one (1) copy of this plan to Mobil in the enclosed self-addressed envelope.

Very truly yours,

MOBIL EXPLORATION & PRODUCING U.S. INC.,  
as agent for  
MOBIL PRODUCING TEXAS & NEW MEXICO INC.



Kent M. Johnston  
Landman

APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 1988.

BUREAU OF LAND MANAGEMENT

By: \_\_\_\_\_

Title: \_\_\_\_\_

KMJ/kac

4900360 LYNCH/MORSON WEST (GAS)  
 3692600 WEST LYNCH DEEP UNIT  
 LEASE TOTALS

PRODUCTION - INJECTION HISTORY

KIDLAND PRODUCING AREA  
 PROJECT NO. 1  
 PREPARED BY  
 EFF. DATE DECEMBER, 1987

MONTHLY-DAILY AVERAGE DATA

INJECTION DATA

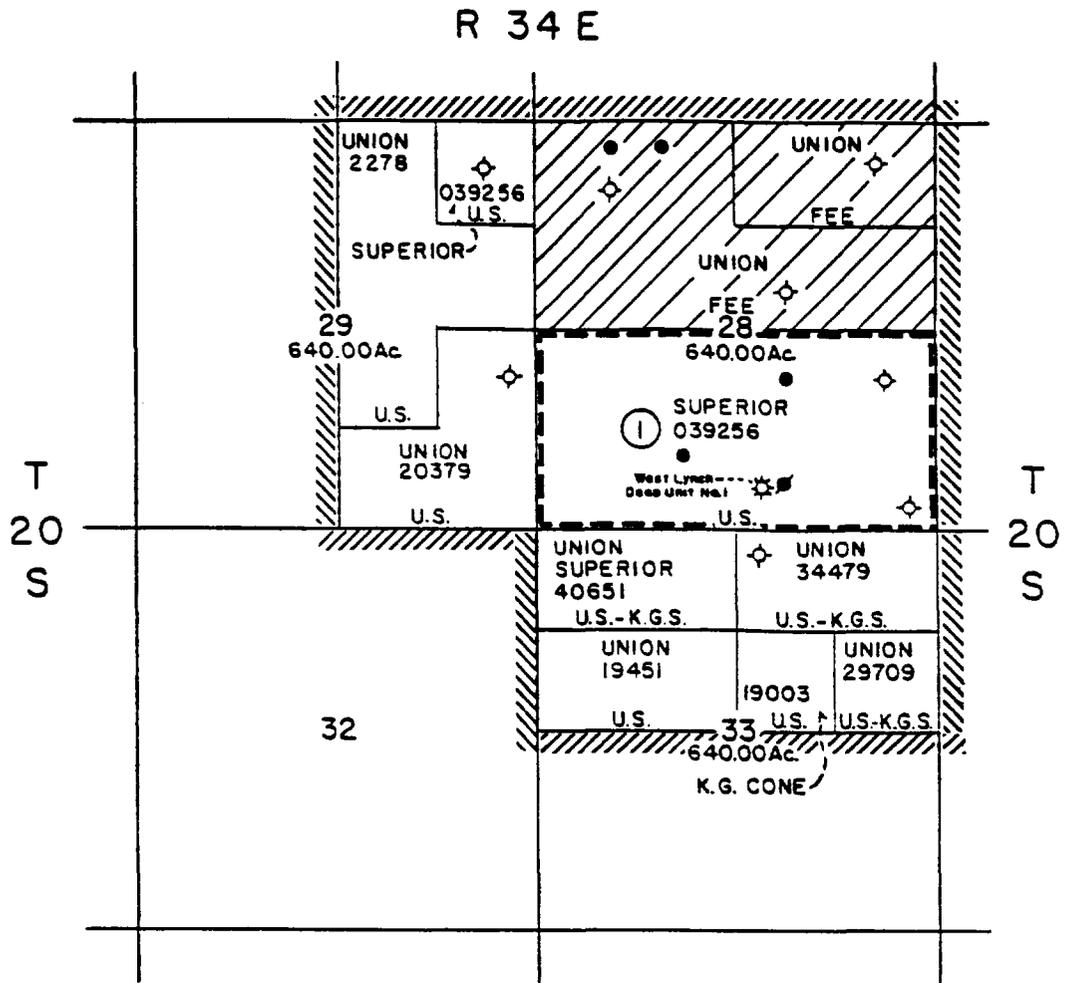
MONTH YEAR	OIL (BBL)		WATER (BBL)		GAS (MCF)		GOR WTR CUT (CF/BBL) (POT)		WATER (BBL)		GAS (MCF)		OTHER (BBL-MCF)	
	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY
12 1987	7	0	0	0	368	12	52571	0	0	0	0	0	0	0
1 1987	3	0	0	0	204	7	68000	50	0	0	0	0	0	0
1 1987	30	0	35	0	262	8	6718	47	0	0	0	0	0	0
2 1987	0	0	0	0	193	6	0	0	0	0	0	0	0	0
3 1987	0	0	0	0	206	7	48667	0	0	0	0	0	0	0
4 1987	0	0	0	0	152	5	76000	0	0	0	0	0	0	0
5 1987	0	0	0	0	404	13	14763	0	0	0	0	0	0	0
6 1987	0	0	0	0	292	7	0	0	0	0	0	0	0	0
7 1987	0	0	0	0	270	7	5667	40	0	0	0	0	0	0
8 1987	0	0	0	0	212	7	8154	13	0	0	0	0	0	0
9 1987	18	0	0	0	471	17	24567	40	0	0	0	0	0	0
10 1987	54	0	0	0	1632	32	19482	0	0	0	0	0	0	0
11 1987	64	0	0	0	1974	32	13960	0	0	0	0	0	0	0
12 1987	0	0	0	0	606	23	6575	0	0	0	0	0	0	0
1 1988	0	0	0	0	286	9	0	0	0	0	0	0	0	0
2 1988	0	0	0	0	259	9	1770	0	0	0	0	0	0	0
3 1988	77	0	0	0	1186	32	1741	0	0	0	0	0	0	0
4 1988	68	0	0	0	2320	33	23268	0	0	0	0	0	0	0
5 1988	98	0	0	0	2674	67	13569	0	0	0	0	0	0	0
6 1988	164	0	900	0	2882	96	17573	84	0	0	0	0	0	0
7 1988	0	0	0	0	0	0	15467	0	0	0	0	0	0	0
8 1988	60	0	0	0	928	31	0	0	0	0	0	0	0	0
9 1988	0	0	0	0	170	5	0	0	0	0	0	0	0	0
10 1988	46	0	0	0	606	22	13174	0	0	0	0	0	0	0
11 1988	0	0	0	0	372	11	13929	0	0	0	0	0	0	0
12 1988	0	0	0	0	167	6	19071	0	0	0	0	0	0	0
1 1989	14	0	0	0	666	54	17620	0	0	0	0	0	0	0
2 1989	47	0	0	0	1868	62	22981	0	0	0	0	0	0	0
3 1989	47	0	0	0	1887	61	23164	0	0	0	0	0	0	0
4 1989	13	0	0	0	1991	64	21774	0	0	0	0	0	0	0
5 1989	50	0	27	0	1961	66	33920	35	0	0	0	0	0	0
6 1989	50	0	0	0	1744	65	33980	0	0	0	0	0	0	0
7 1989	27	0	0	0	1744	59	32243	0	0	0	0	0	0	0
8 1989	0	0	0	0	2197	71	37169	0	0	0	0	0	0	0
9 1989	0	0	0	0	1959	66	19155	0	0	0	0	0	0	0
10 1989	0	0	28	0	1977	64	21349	22	0	0	0	0	0	0
11 1989	0	0	0	0	1977	64	21349	0	0	0	0	0	0	0

MIDLAND PRODUCING AREA  
 PROJECT NO. 1  
 EFF. DATE DECEMBER, 1987

PRODUCTION - INJECTION HISTORY

4900300 LYNCH/MORROW, WEST (GAS)  
 3092300 WEST LYNCH DEEP UNIT  
 LEASE TOTALS

YEAR	PRODUCTION DATA			ANNUAL DATA			INJECTION DATA			OTHER DATA		
	OIL (BBL)	WATER (BBL)	GAS (MCF)	CON. (CF/BBL)	WTR. CUT PCT	WATER (BBL)	GAS (MCF)	OTHER (BBL-RCE)	WTR-DISP (BBL)	WTR-SPY (BBL)	WTR-DISP (BBL)	WTR-SPY (BBL)
1987	184	50	3734	26097	23	0	0	0	0	0	0	0
1986	669	900	11033	19516	57	0	0	0	0	0	0	0
1985	649	55	19589	28281	7	0	0	0	0	0	0	0
1984	1049	384	24516	23371	26	0	0	0	0	0	0	0
1983	1495	4877	25546	17886	76	0	0	0	0	0	0	0
1982	2051	7120	47685	13844	71	0	0	0	0	0	0	0
1981	3487	2334	36987	16607	40	0	0	0	0	0	0	0
CUM.	16383	15758	169090	16285	60	0	0	0	0	0	0	0



**EXHIBIT "A"**  
**WEST LYNCH DEEP UNIT**  
 LEA COUNTY, NEW MEXICO  
 (AS CONTRACTED EFFECTIVE SEPTEMBER 12, 1985)



① TRACT NUMBER - EXHIBIT "B"

- REVISED UNIT BOUNDARY & PARTICIPATING AREA
- FEDERAL 320.00 Ac. 100.000000%
- FEE
- ORIGINAL UNIT BOUNDARY

ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION



#6880

March 4, 1987

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2086  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5200

Unocal  
P. O. Box 671  
Midland, Texas 79702

Attention: Linda H. Hicks

Re: 1987 Plan of Development  
West Lynch Deep Unit  
Lea County, New Mexico  
W/Lynch Prospect (1873)

Gentlemen:

The above-referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roy E. Johnson".

ROY E. JOHNSON,  
Senior Petroleum Geologist

REJ/dr

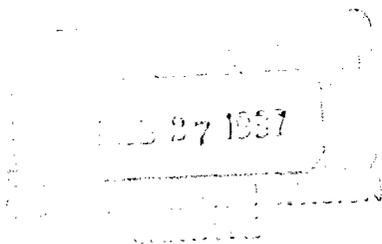
cc: Commissioner of Public Lands - Santa Fe  
Bureau of Land Management - Albuquerque

**Unocal Oil & Gas Division**  
Unocal Corporation  
500 North Marienfeld, P.O. Box 671  
Midland, Texas 79702  
Telephone (915) 682-9731

**UNOCAL** 

February 23, 1987

Midland District



Oil Conservation Division  
Energy and Minerals Division  
P.O. Box 2088  
Sant Fe, New Mexico 87501

ATTN: William J. LeMay

1987 Plan of Development  
West Lynch Deep Unit  
Lea County, New Mexico  
W/Lynch Prospect (1873)

Gentlemen:

Please find enclosed two (2) copies of Union's 1987 Plan of Development and Operation for the West Lynch Deep Unit. We respectfully request your approval of same.

Yours truly,

UNION OIL COMPANY OF CALIFORNIA



Linda H. Hicks  
Landman

LHH:gb

Encls.

1987 PLAN OF DEVELOPMENT AND OPERATION

for

WEST LYNCH DEEP UNIT AREA

Lea County, New Mexico

TO: Oil Conservation Division  
Energy and Minerals Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

ATTN: William J. LeMay

Union Oil Company of California, as Unit Operator for the West Lynch Deep Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the West Lynch Deep Unit Area, dated May 14, 1980, (No. 14-08-0001-18432), respectfully submits for approval this 1987 Plan of Development and Operations for the West Lynch Deep Unit Area. This plan is for the period ending December 31, 1987.

SUMMARY OF 1986 OPERATIONS:

No new Unit wells were drilled in 1986. The West Lynch Deep Unit Well No. 1 produced 11,033 MCF and 688 BC during 1986.

PLAN OF DEVELOPMENT AND OPERATIONS FOR 1987:

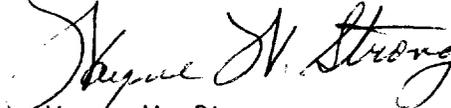
No development drilling is planned for 1987.

This plan may be modified or supplemented from time to time with the approval needed, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 23 day of February, 1987.

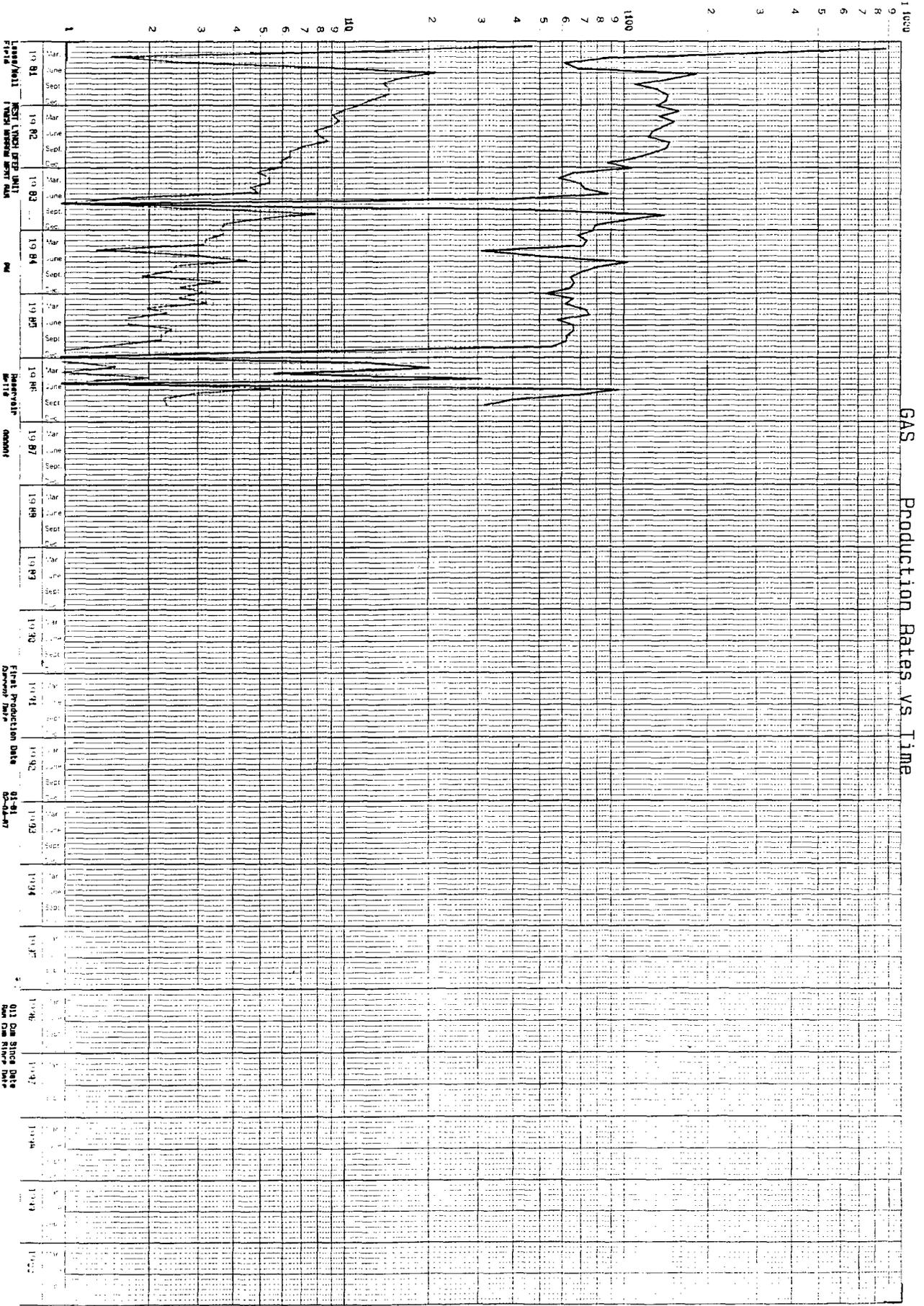
Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

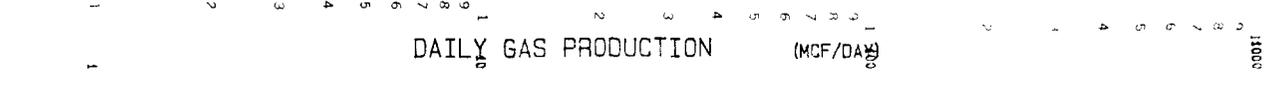


Wayne W. Strong  
District Land Manager

# DAILY OIL PRODUCTION (BBL/DAY)



# DAILY GAS PRODUCTION (MCF/DAY)



R 34 E

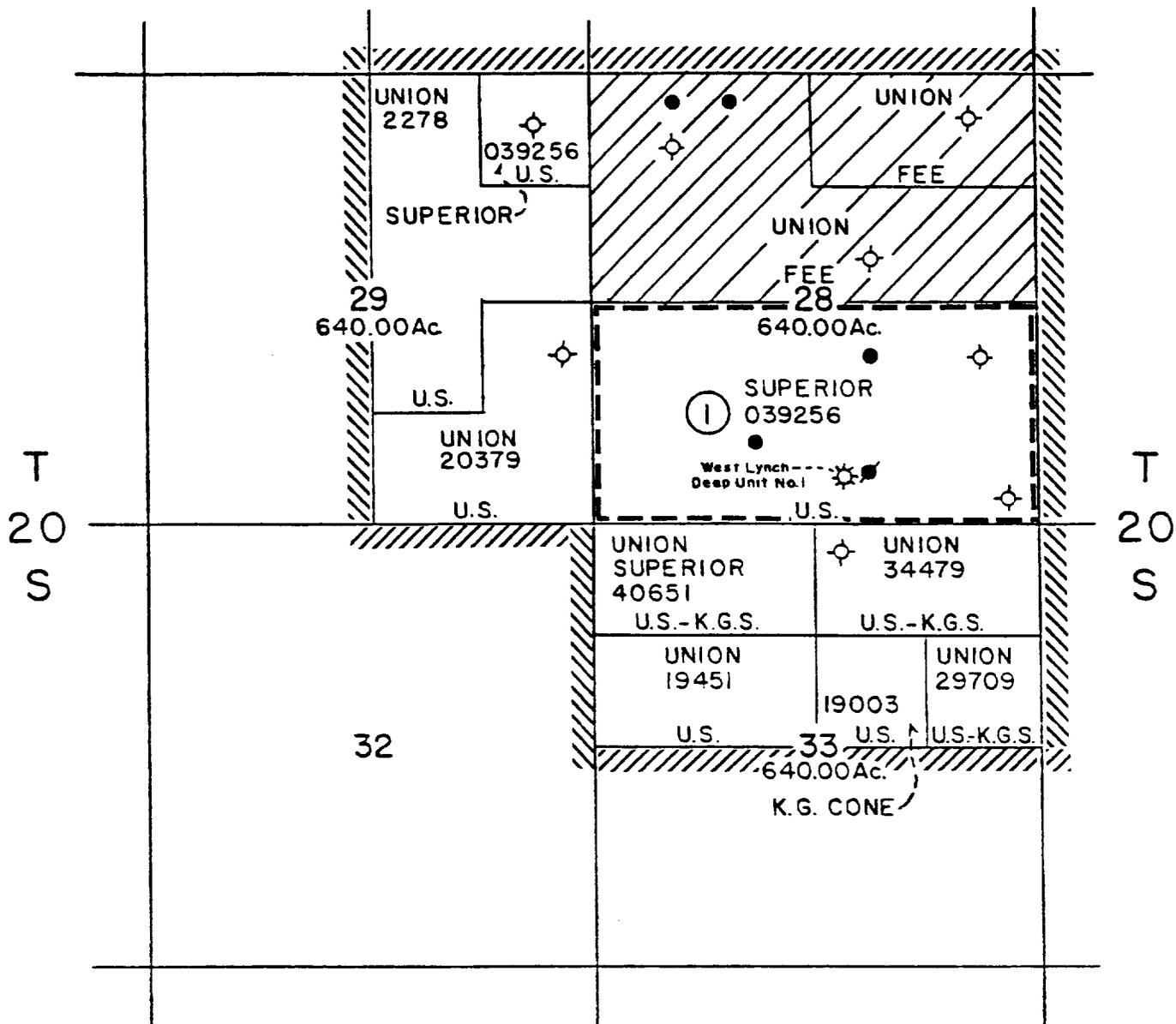
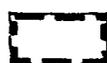
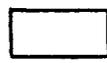
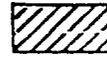


EXHIBIT "A"  
 WEST LYNCH DEEP UNIT  
 LEA COUNTY, NEW MEXICO  
 (AS CONTRACTED EFFECTIVE SEPTEMBER 12, 1985)



① TRACT NUMBER - EXHIBIT "B"

-  REVISED UNIT BOUNDARY & PARTICIPATING AREA
-  FEDERAL 320.00 Ac. 100.000000%
-  FEE
-  ORIGINAL UNIT BOUNDARY

#6880

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



ok -  
Dot - unit letter #1  
10-8-85  
OK  
REF

Wayne W. Strong  
District Land Manager  
Midland District

September 16, 1985

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

ATTN: R. L. Stamets

West Lynch Deep Unit  
Case No. 6880  
Lea County, New Mexico  
Automatic Contraction

Dear Mr. Stamets:

Pursuant to Subsection 2(c) of the West Lynch Deep Unit Agreement, 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 12, 1985:

<u>Township 20 South, Range 34 East</u>	<u>Acres</u>
Section 28: N/2	320.00 Fee
Section 29: E/2	320.00 Federal
Section 33: N/2	320.00 Federal
	<u>960.00</u>

Attached and also submitted for your approval are revised Exhibits "A" and "B" for the West Lynch Deep Unit, as contracted. As you know, the Unit has contracted to the existing Initial Morrow Participating Area (S/2 Sec. 28-20S-34E) which was effective September 12, 1980.

Upon receipt of approval, we shall send appropriate notification of the foregoing to all other parties in interest as required by Subsection 2(c) of the Unit Agreement.

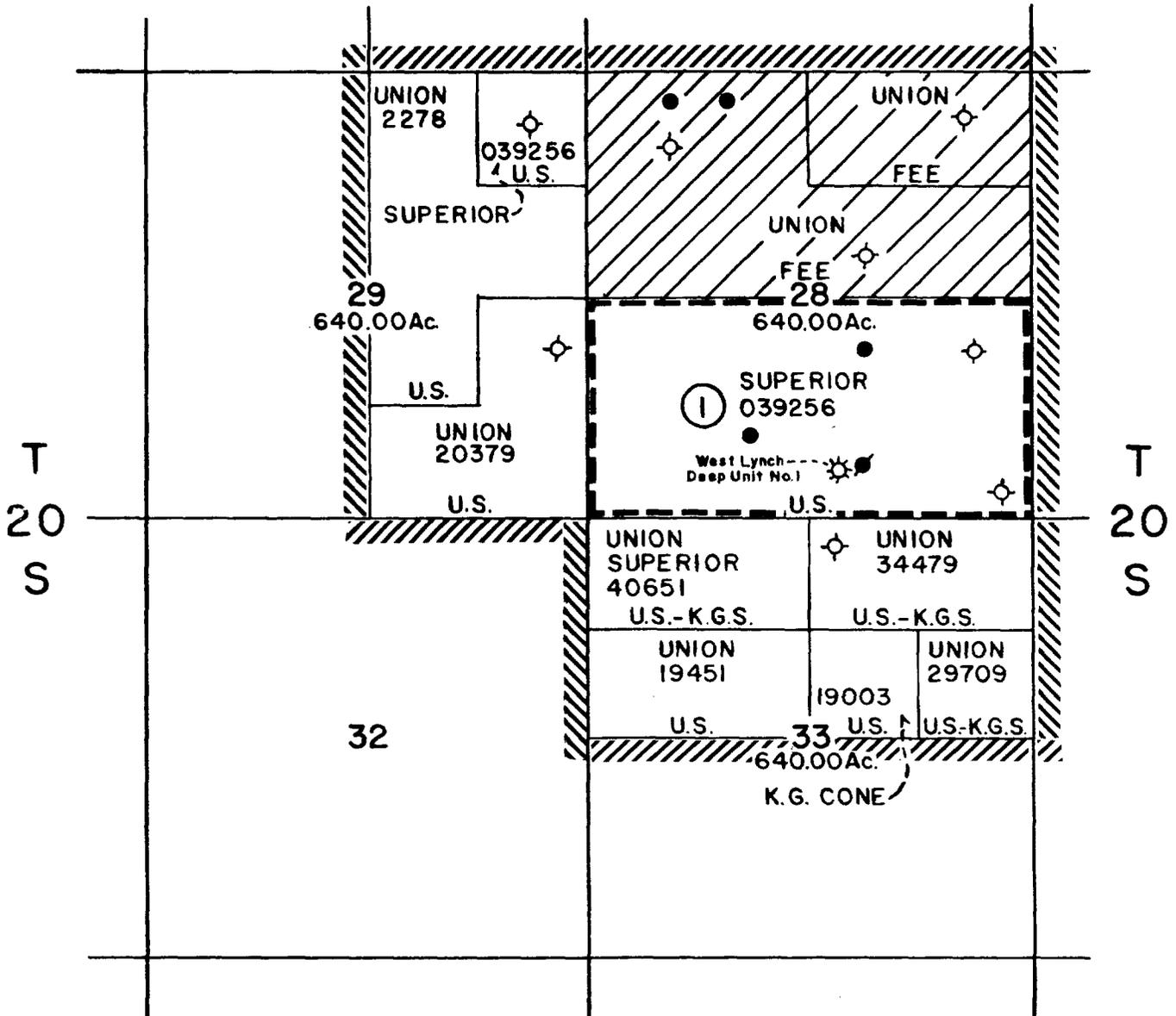
Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

Linda H. Hicks  
Landman

LHH:ss

R 34 E



**EXHIBIT "A"**  
**WEST LYNCH DEEP UNIT**  
**LEA COUNTY, NEW MEXICO**  
 (AS CONTRACTED EFFECTIVE SEPTEMBER 12, 1985)



① TRACT NUMBER - EXHIBIT "B"

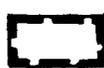
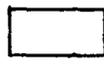
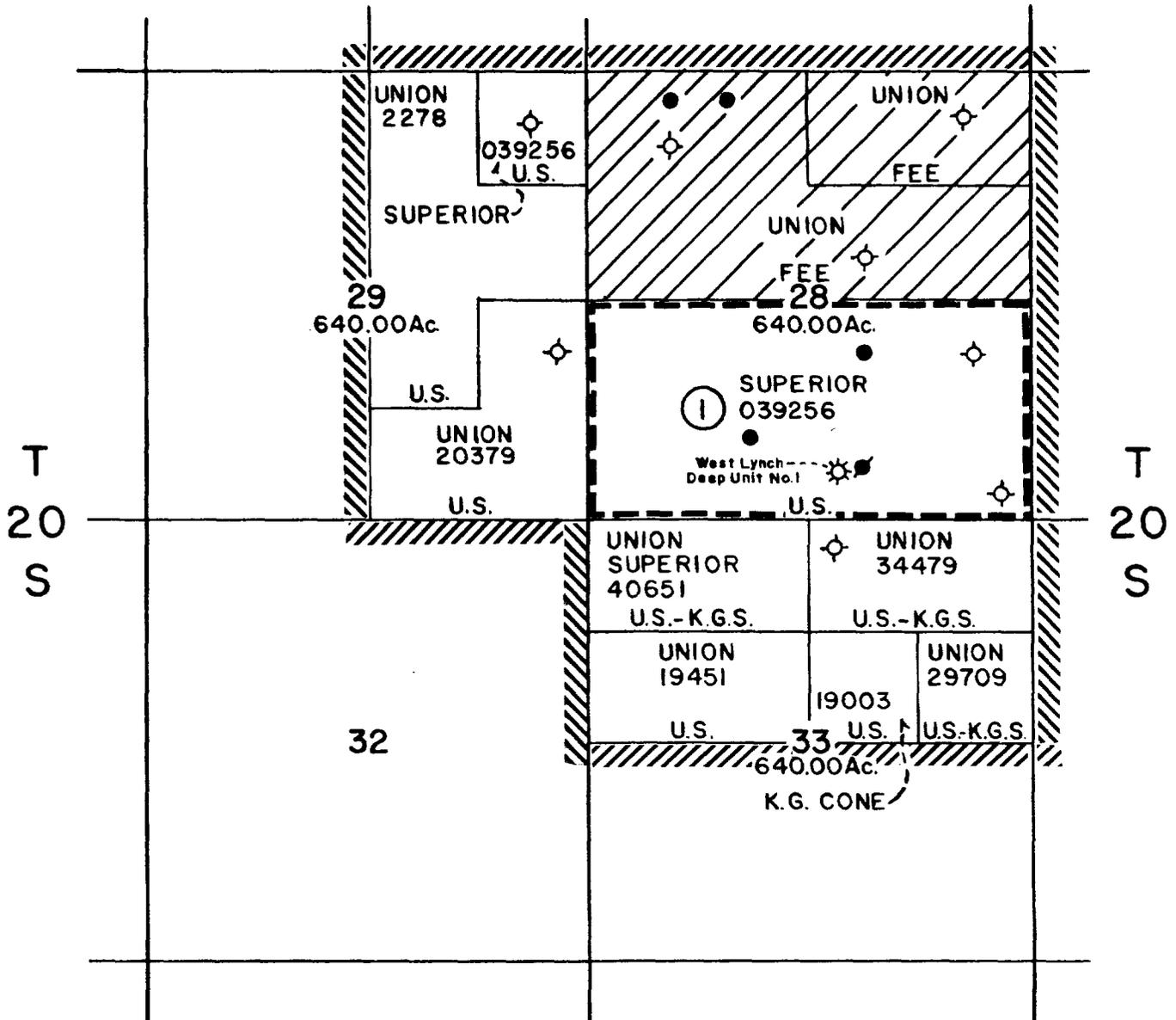
-  REVISED UNIT BOUNDARY & PARTICIPATING AREA
-  FEDERAL 320.00 Ac. 100.000000%
-  FEE
-  ORIGINAL UNIT BOUNDARY

Exhibit B - West Lynch Deep Unit Area, Lea County, New Mexico, T-20-S, R-34-E As Contracted Effective 9/12/85

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SER. NO. & EXP. DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY AND PERCENTAGE	WORKING INTEREST AND PERCENTAGE
<u>Federal Land</u>							
1	Sec. 28: S/2	320	NM-039256 HBP	U.S.A. All (12.5%)	S/2 Sec. 28 From Surface to 3,820 Feet: The Superior Oil Company	Caswell Silver & wife Elizabeth B. Silver 5-3/4% if production is over 15 B/D or 500 MCF/D or; 4-1/2% if production is 15 B/D or 500 MCF/D, or less	T.J. Sivley & wife, Mary Ray Sivley: 75%  W.T. Wynn: 25%
<p style="text-align: center;">Albuquerque National Bank, Trustee under the F.L. Nohl &amp; Margaret H. Nohl Trust 1/2 of 1%</p>							
<p style="text-align: center;">S/2 Sec. 28 Below 3,820 Feet: The Superior Oil Company</p>							
<p style="text-align: center;">Caswell Silver and wife, Elizabeth B. Silver 4-1/2%</p>							
<p style="text-align: center;">F.L. Nohl &amp; Wife, Margaret H. Nohl 1/2 of 1%</p>							
<p style="text-align: center;">The Superior Company: All</p>							

1 Federal Tract - 320.00 Acres, or 100.00% of Unit Area

R 34 E



**EXHIBIT "A"**  
**WEST LYNCH DEEP UNIT**  
**LEA COUNTY, NEW MEXICO**  
 (AS CONTRACTED EFFECTIVE SEPTEMBER 12, 1985)



① TRACT NUMBER - EXHIBIT "B"

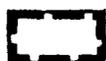
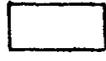
-  REVISED UNIT BOUNDARY & PARTICIPATING AREA
-  FEDERAL 320.00 Ac. 100.00000%
-  FEE
-  ORIGINAL UNIT BOUNDARY

Exhibit B - West Lynch Deep Unit Area, Lea County, New Mexico, T-20-S, R-34-E As Contracted Effective 9/12/85

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SER. NO. & EXP. DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY AND PERCENTAGE	WORKING INTEREST AND PERCENTAGE
<u>Federal Land</u>							
1	Sec. 28: S/2	320	NM-039256 HBP	U.S.A. All (12.5%)	S/2 Sec. 28 From Surface to 3,820 Feet: The Superior Oil Company	Caswell Silver & wife Elizabeth B. Silver 5-3/4% if production is over 15 B/D or 500 MCF/D or; 4-1/2% if production is 15 B/D or 500 MCF/D, or less	T.J. Sivley & wife, Mary Ray Sivley: 75%  W.T. Wynn: 25%
					Albuquerque National Bank, Trustee under the F.L. Nohl & Margaret H. Nohl Trust 1/2 of 1%		
					S/2 Sec. 28 Below 3,820 Feet: The Superior Oil Company	Caswell Silver and wife, Elizabeth B. Silver 4-1/2%	The Superior Company: All
							F.L. Nohl & Wife, Margaret H. Nohl 1/2 of 1%

1 Federal Tract - 320.00 Acres, or 100.00% of Unit Area



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
P. O. Box 1397  
Roswell, New Mexico 88201

#6880

IN REPLY  
REFER TO:  
14-08-0001-18432 (060)

March 15, 1985

Union Oil Company of California  
Attention: Robert V. Lockhart  
500 North Marienfeld  
Midland, Texas 79702

RE: 1985 Plan of Development  
West Lynch Deep Unit  
Lea County, New Mexico

Gentlemen:

We are in receipt of your letter dated March 1, 1985 which describes your 1985 Plan of Development for the West Lynch Deep Unit, Lea County, New Mexico. Such plan proposing no new drilling and possible recompletion of the West Lynch Deep Unit No. 1 well is approved effective as of January 1, 1985.

In subsequent Plans of Development please provide statistical data and/or decline curves on production together with an updated unit map showing the previous year's activity.

Sincerely yours,

*A/T. Kreagen*

District Manager

cc:  
Commissioner of Public Lands, Santa Fe  
NMOCD, Santa Fe  
NMSO, Micrographics (943B)



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

TONEY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

March 4, 1985

#6880

Union Oil Company of California  
P.O. Box 671  
Midland, Texas 79702

Attention: Linda Hicks

Re: 1985 Plan of Development  
West Lynch Deep Unit  
No. 14-08-0001-18432  
W/Lynch Prospect (1873)  
Lea County, New Mexico

Dear Ms. Hicks:

The above referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

ROY E. JOHNSON  
Senior Petroleum Geologist

REJ/dp

cc: Commissioner of Public Lands - Santa Fe  
Bureau of Land Management - Albuquerque  
OCD District Office - Hobbs

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

March 1, 1985

Oil Conservation Division  
Energy & Minerals Department  
P.O. Box 2088  
Santa Fe, NM 87501

Attn: R. L. Stamets  
Director

Gentlemen:

1985 Plan of Development and Operation  
West Lynch Deep Unit  
No. 14-08-0001-18432  
W/Lynch Prospect (1873  
Lea County, New Mexico

Please find enclosed for your review two (2) copies of Union's 1985 Plan of Development and Operation for the captioned Unit Area. We respectfully request your consideration and approval of this Plan.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script that reads "Linda H. Hicks".

Linda H. Hicks  
Landman

LHH:dah

Enclosures

1985 PLAN OF DEVELOPMENT AND OPERATION

FOR

West Lynch Deep Unit Area  
Lea County, New Mexico

TO: Oil Conservation Division  
Energy and Minerals Department  
Attn: R. L. Stamets, Director  
P. O. Box 2088  
Santa Fe, NM 87501

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the West Lynch Deep Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the West Lynch Deep Unit Area, dated May 14, 1980, (No. 14-08-0001-18432), respectfully submits for approval this 1985 Plan of Development and Operation for the West Lynch Deep Unit Area. This plan is for the period ending December 31, 1985.

SUMMARY OF 1984 OPERATIONS:

No new wells were drilled within the Unit in 1984. West Lynch Deep Unit Well # 1 currently produces Morrow gas at a rate of 65 MCFPD plus 3 BCPD. The well produced 24,516 MCF and 1,049 BC in 1984. Cumulative production is 134,734 MCF and 8,862 BC.

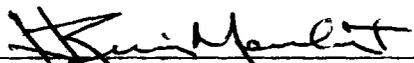
PLAN OF DEVELOPMENT AND OPERATION FOR 1985:

At this time, Union has no plans to drill any new wells in the Unit in 1985. Additional stimulation or recompletion of the West Lynch Deep Unit Well # 1 will be evaluated and acted upon accordingly. This Unit will contract to the S/2 Sec. 28-20S-34E Participating Area on 9/1/85.

This 1985 Plan of Development and Operation shall constitute the further obligations required under the West Lynch Deep Unit Agreement for the period ending December 31, 1985, and may be modified or supplemented from time to time with the necessary approval, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

SUBMITTED this 1st day of March, 1985.

UNION OIL COMPANY OF CALIFORNIA

By:   
H. René Moulines  
District Land Manager (Acting)

1985 PLAN OF DEVELOPMENT AND OPERATION

FOR

West Lynch Deep Unit Area  
Lea County, New Mexico

---

TO: Oil Conservation Division  
Energy and Minerals Department  
Attn: R. L. Stamets, Director  
P. O. Box 2088  
Santa Fe, NM 87501

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PLAN OF DEVELOPMENT AND OPERATION FOR 1985:

At this time, Union has no plans to drill any new wells in the Unit in 1985. Additional stimulation or recompletion of the West Lynch Deep Unit Well # 1 will be evaluated and acted upon accordingly. This Unit will contract to the S/2 Sec. 28-20S-34E Participating Area on 9/1/85.

This 1985 Plan of Development and Operation shall constitute the further obligations required under the West Lynch Deep Unit Agreement for the period ending December 31, 1985, and may be modified or supplemented from time to time with the necessary approval, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

SUBMITTED this 1st day of March, 1985.

UNION OIL COMPANY OF CALIFORNIA

By:   
H. Rene Moulinet  
District Land Manager (Acting)



STATE OF NEW MEXICO  
ENERGY AND MINERAL DEPARTMENT  
OIL CONSERVATION DIVISION

#6880

TONY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

March 26, 1984

Union Oil Company of California  
P.O. Box 671  
Midland, Texas 79702

Attention: Robert V. Lockhart

Re: West Lynch Deep Unit  
Case No. 6880  
Lea County, NM  
Union's Lynch/W Prospect  
(1873)

Dear Mr. Lockhart:

The above referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

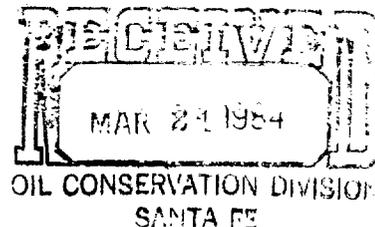
ROY E. JOHNSON  
Petroleum Geologist

REJ/dp

cc: Commissioner of Public Lands - Santa Fe  
Bureau of Land Management - Albuquerque  
OCD District Office - Hobbs

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

March 16, 1984

Oil Conservation Division  
Energy and Minerals Department  
P. O. Box 2088  
Santa Fe, New Mexico 87501  
Attn: Mr. Joe Ramey

Gentlemen:

West Lynch Deep Unit  
Case No. 6880  
Lea County, New Mexico  
Union's Lynch/W Prospect (1873)

Enclosed please find your review two (2) copies of Union Oil Company of California's 1984 Plan of Development and Operation for the captioned Unit Area.

Union, as Operator, respectfully requests your consideration and approval of this plan. Should you have any questions, please advise.

Yours very truly,  
UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script, appearing to read "Robert V. Lockhart".

Robert V. Lockhart  
District Land Manager

RVL:RCG:11j

Enclosure

Certified No. P 220 602 944

CASE NO. 6880

1984 PLAN OF DEVELOPMENT AND OPERATION  
FOR

Oil Conservation Division  
Energy & Minerals Department  
P. O. Box 2088  
Santa Fe, New Mexico 87501  
Attn: Mr. Joe Ramey

WEST LYNCH DEEP UNIT AREA  
LEA COUNTY, NEW MEXICO

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the West Lynch Deep Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the West Lynch Deep Unit Area, dated May 14, 1980, (No. 14-08-0001-18432), respectfully submits for approval this 1984 Plan of Development and Operation for the West Lynch Deep Unit Area. This plan is for the period ending December 31, 1984.

SUMMARY OF 1983 OPERATIONS

No new wells were drilled within the Unit in 1983. West Lynch Deep Unit Well # 1 currently produces Morrow gas at a rate of 40 MCFPD plus 3 BCPD.

PLAN OF DEVELOPMENT AND OPERATION FOR 1984

At this time, Union has no plans to drill any new wells in the Unit in 1984. Additional stimulation or recompletion of the West Lynch Deep Unit Well # 1 will be evaluated and acted upon accordingly.

This 1984 Plan of Development and Operation shall constitute the further obligations required under the West Lynch Deep Unit Agreement for the period ending December 31, 1984, and may be modified or supplemented from time to time with the necessary approval, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 16 day of March, 1984.

UNION OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart

Robert V. Lockhart  
District Land Manager

CASE NO. 6880

1984 PLAN OF DEVELOPMENT AND OPERATION

FOR

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

WEST LYNCH DEEP UNIT AREA  
LEA COUNTY, NEW MEXICO

Attn: Mr. Joe Ramey

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the West Lynch Deep Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the West Lynch Deep Unit Area, dated May 14, 1980, (No. 14-08-0001-18432), respectfully submits for approval this 1984 Plan of Development and Operation for the West Lynch Deep Unit Area. This plan is for the period ending December 31, 1984.

SUMMARY OF 1983 OPERATIONS

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PLAN OF DEVELOPMENT AND OPERATION FOR 1984

At this time, Union has no plans to drill any new wells in the Unit in 1984. Additional stimulation or recompletion of the West Lynch Deep Unit Well # 1 will be evaluated and acted upon accordingly.

This 1984 Plan of Development and Operation shall constitute the further obligations required under the West Lynch Deep Unit Agreement for the period ending December 31, 1984, and may be modified or supplemented from time to time with the necessary approval, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 16 day of March, 1984.

UNION OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart

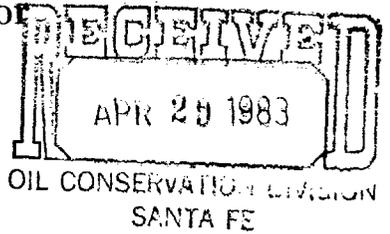
Robert V. Lockhart  
District Land Manager



IN REPLY  
REFER TO:

United States Department of the Interior

MINERALS MANAGEMENT SERVICE  
SOUTH CENTRAL REGION  
505 MARQUETTE AVENUE, N.W., SUITE 815  
ALBUQUERQUE, NEW MEXICO 87102



APR 27 1983

*Case  
6880*

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

Gentlemen:

An approved copy of your 1983 plan of development for the West Lynch Deep unit area, Lea County, New Mexico, is enclosed. Such plan, proposing to monitor production in an effort to evaluate the feasibility of drilling a second well was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JAMES W. SHELTON

Assistant District Manager  
for Minerals

Enclosure

cc:  
➤ NMOCD, Santa Fe



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

March 31, 1983

TONY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

Union Oil Co. of California  
P.O. Box 671  
Midland, Texas 79702

6880

Attention: Robert V. Lockhart:

Re: West Lynch Deep Unit  
1983 Plan of Development  
Lea County, New Mexico

Dear Mr. Lockhart:

The above referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the United States Minerals Management Service.

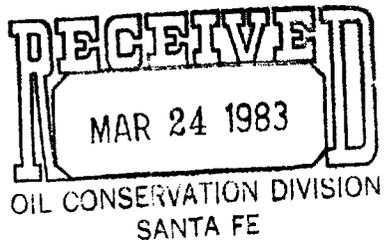
Sincerely,

A handwritten signature in cursive script that reads "Roy E. Johnson".

ROY E. JOHNSON  
Petroleum Geologist

REJ/dp

cc: Commissioner of Public Lands - Santa Fe  
Minerals Management Service - Albuquerque  
OCD District Office -Hobbs



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



Certified

March 22, 1983

Robert V. Lockhart  
District Land Manager  
Midland District

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

Attn: Mr. Joe Ramey, Director

Gentlemen:

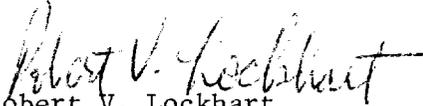
West Lynch Deep Unit  
Case No. 6880  
Lea County, New Mexico

Please find enclosed two copies of Union's 1983 Plan of Development for the above referenced Unit.

Should you have any questions regarding the above, please let me know.

Sincerely,

UNION OIL COMPANY OF CALIFORNIA

  
Robert V. Lockhart  
District Land Manager

RVL:dh

Enclosure

1983 PLAN OF DEVELOPMENT AND OPERATION  
FOR  
WEST LYNCH DEEP UNIT AREA  
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division  
Energy & Minerals Department  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Case No. 6880

Attn: Mr. Joe Ramey, Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the West Lynch Deep Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the West Lynch Deep Unit Area, dated May 14, 1980, (No. 14-08-0001-18432), respectfully submits for approval this 1983 Plan of Development and Operation for the West Lynch Deep Unit Area. This plan is for the period ending December 31, 1983.

The total 1982 production for the West Lynch Deep Unit Well #1 located 2,310 FEL and 660' FSL, Section 28, T-20-S, R-34-E, Lea County, New Mexico, was 47,685 MCF and 2,831 barrels of condensate. The well is currently averaging 120 MCF per day and 6 barrels condensate per day through Morrow perforations from 13,724 - 740 feet.

The Initial Morrow Participating Area for the West Lynch Deep Unit covering S/2 Section 28-20S-34E was approved by the Minerals Management Service on January 5, 1983, and the Oil Conservation Division on October 20, 1982.

No new wells were drilled within the Unit in 1982. Union plans to monitor production from the West Lynch Deep Unit Well #1 and Superior's Gulf State No. 1 (NE/4 Section 32-20S-34E, outside the Unit) which was completed late in 1982 in an effort to evaluate the feasibility of drilling a second Unit Well.

This 1983 Plan of Development and Operation shall constitute the further obligations required under the West Lynch Deep Unit Agreement for the period ending December 31, 1983, and may be modified or supplemented from time to time with the necessary approval, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 22 day of March, 1983.

UNION OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart  
Robert V. Lockhart  
District Land Manager

1983 PLAN OF DEVELOPMENT AND OPERATION  
FOR  
WEST LYNCH DEEP UNIT AREA  
LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division  
Energy & Minerals Department  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Case No. 6880

Attn: Mr. Joe Ramey, Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the West Lynch Deep Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the West Lynch Deep Unit Area, dated May 14, 1980, (No. 14-08-0001-18432), respectfully submits for approval this 1983 Plan of Development and Operation for the West Lynch Deep Unit Area. This plan is for the period ending December 31, 1983.

The total 1982 production for the West Lynch Deep Unit Well #1 located 2,310 FEL and 660' FSL, Section 28, T-20-S, R-34-E, Lea County, New Mexico, was 47,685 MCF and 2,831 barrels of condensate. The well is currently averaging 120 MCF per day and 6 barrels condensate per day through Morrow perforations from 13,724 - 740 feet.

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No new wells were drilled within the Unit in 1982. Union plans to monitor production from the West Lynch Deep Unit Well #1 and Superior's Gulf State No. 1 (NE/4 Section 32-20S-34E, outside the Unit) which was completed late in 1982 in an effort to evaluate the feasibility of drilling a second Unit Well.

This 1983 Plan of Development and Operation shall constitute the further obligations required under the West Lynch Deep Unit Agreement for the period ending December 31, 1983, and may be modified or supplemented from time to time with the necessary approval, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 22 day of March, 1983.

UNION OIL COMPANY OF CALIFORNIA

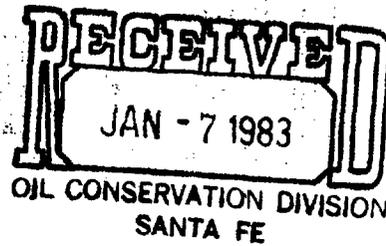
By: Robert V. Lockhart  
Robert V. Lockhart  
District Land Manager



IN REPLY  
REFER TO:

United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
SOUTH CENTRAL REGION  
505 MARQUETTE AVENUE, N.W., SUITE 815  
ALBUQUERQUE, NEW MEXICO 87102



JAN 05 1983

#  
case 6880

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

Gentlemen:

An approved copy of your 1982 plan of development for the West Lynch Deep unit area, Lea County, New Mexico, is enclosed. Such plan, proposing to monitor the production from the initial well to evaluate the feasibility of drilling a second well in the N $\frac{1}{2}$  of section 33, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JAMES W. SHELTON

FOR Gene F. Daniel  
Deputy Minerals Manager  
Oil and Gas

Enclosure

cc:  
NMOCD



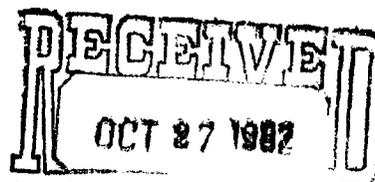
IN REPLY  
REFER TO:

## United States Department of the Interior

MINERALS MANAGEMENT SERVICE  
SOUTH CENTRAL REGION  
505 MARQUETTE AVENUE, N.W., SUITE 815  
ALBUQUERQUE, NEW MEXICO 87102

OCT 24 1982

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



Gentlemen:

Your application of September 23, 1982, requesting approval of the initial Morrow Participating Area for the West Lynch Deep Unit Agreement, Lea County, New Mexico, No. 14-08-0001-18432, was approved on this date. Under the terms in Section 11 of the unit agreement the initial participating area is effective as of September 12, 1980.

The initial participating area is 320.00 acres described as the S $\frac{1}{2}$  section 28, T. 20 S., R. 34 E., N.M.P.M., and is based on the completion of the West Lynch Deep Unit Well No. 1. The well was completed in the interval of 13,335 to 13,430 feet.

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

Sincerely yours,

(0000 800) 1111111111111111

FOR Gene F. Daniel  
Deputy Minerals Manager  
Oil and Gas

Enclosure

CC:  
BLM, Santa Fe  
NMOCD

375



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

October 20, 1982

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

Union Oil Company of California  
P. O. Box 671  
Midland, Texas 79702

Attention: Robert V. Lockhart

Re: West Lynch Deep Unit  
Case No. 6880  
Lea County, New Mexico  
1982 Plan of Development and  
Revised Application for  
Approval of the Initial  
Participating Area for the  
Morrow Formation

Gentlemen:

The above referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the United States Minerals Management Service.

Sincerely,

W. PERRY PEARCE  
General Counsel

WPP/dr

cc: Commissioner of Public Lands - Santa Fe  
Minerals Management Service - Albuquerque  
OCD District Office

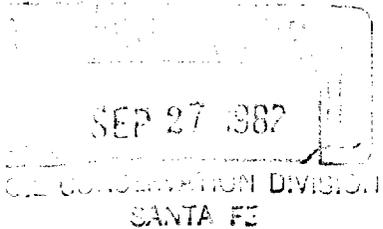
Union Oil and Gas Division: Central Region

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

September 23, 1982



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

Attn: Mr. Joe Ramey, Director

6880

Gentlemen:

West Lynch Deep Unit  
Case No. 6880  
Lea County, New Mexico  
*and*

Please find enclosed two copies of Union's 1982 Plan of Development for the above referenced Unit.

Also, enclosed are two copies of Union's Revised Application for Approval of the Initial Participating Area for the Morrow Formation. By letter dated July 6, 1981, we submitted for your approval our initial application for a 960 acre participating area. On August 26, 1981, you approved said application subject to like approval from the Minerals Management Service.

A year has passed and our application still has not received approval from the Minerals Management Service. Apparently they are not going to approve our application for 960 acres. Thus, we have resubmitted to them and to you an application for a 320 acre participating area. We have revised the Exhibit A and B attached to our application. However, we ask that you refer to the maps that were submitted with our initial application if at all possible.

Should you have any questions regarding the above, please let me know.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

Robert V. Lockhart  
District Land Manager

RVL:lh

1982 PLAN OF DEVELOPMENT AND OPERATION

FOR

WEST LYNCH DEEP UNIT AREA

LEA COUNTY, NEW MEXICO

SEP 27 1982  
C. J. ...  
...

To: Oil Conservation Division  
Energy & Minerals Department  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Case No. 6880

Attn: Mr. Joe Ramey, Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the West Lynch Deep Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the West Lynch Deep Unit Area, dated May 14, 1980, (No. 14-08-0001-18432), respectfully submits for approval this 1982 Plan of Development and Operation for the West Lynch Deep Unit Area. This plan is for the period ending December 31, 1982.

The total 1981 production for the West Lynch Unit Well #1 located 2,310 FEL and 660' FSL, Section 28, T-20-S, R-34-E, Lea County, New Mexico, was 70,573 MCF and 5,245 barrels of condensate. The well is currently producing approximately 120 MCF per day and 8 barrels condensate per day from the middle Morrow through perforations at 13,335-343' and 13,424-430'. We plan to monitor production from the well in an effort to evaluate the feasibility of drilling a well in the N/2 Section 33, T-20-S, R-34-E.

Union submitted an application for approval of the Initial Participating Area for the Morrow formation on July 6, 1981. Pursuant to the request of the Minerals Management Service, we plan to revise our application, reducing the acreage included therein to 320 acres.

This 1982 Plan of Development and Operation shall constitute the further obligations required under the West Lynch Deep Unit Agreement for the period ending December 31, 1982, and may be modified or supplemented from time to time with the necessary approval, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 23 day of September, 1982.

UNION OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart  
Robert V. Lockhart  
District Land Manager

1982 PLAN OF DEVELOPMENT AND OPERATION

FOR

WEST LYNCH DEEP UNIT AREA

LEA COUNTY, NEW MEXICO

SEP 27 1982  
OIL CONSERVATION DIVISION  
SANTA FE

To: Oil Conservation Division  
Energy & Minerals Department  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Case No. 6880

Attn: Mr. Joe Ramey, Director

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the West Lynch Deep Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the West Lynch Deep Unit Area, dated May 14, 1980, (No. 14-08-0001-18432), respectfully submits for approval this 1982 Plan of Development and Operation for the West Lynch Deep Unit Area. This plan is for the period ending December 31, 1982.

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Union submitted an application for approval of the Initial Participating Area for the Morrow formation on July 6, 1981. Pursuant to the request of the Minerals Management Service, we plan to revise our application, reducing the acreage included therein to 320 acres.

This 1982 Plan of Development and Operation shall constitute the further obligations required under the West Lynch Deep Unit Agreement for the period ending December 31, 1982, and may be modified or supplemented from time to time with the necessary approval, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 23 day of ~~August~~ <sup>September</sup>, 1982.

UNION OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart  
Robert V. Lockhart  
District Land Manager

West Lynch Deep Unit Area  
Lea County, New Mexico

Revised Application for  
approval of the initial  
participating area of  
the Morrow formation.

Oil Conservation Division  
Energy & Minerals Department  
P.O. Box 2088  
Santa Fe, New Mexico 87501  
Attn: Mr. Joe Ramey, Director

Case No. 6880

Union Oil Company of California as Unit Operator of the West Lynch Deep Unit Agreement, approved by the Regional Conservation Manager of the U.S. Geological Survey effective June 11, 1980 and by the Oil Conservation Division on May 22, 1980, pursuant to the provisions of section 11 thereof, respectfully submits for your approval the selection of the following described land to constitute the initial participating area for the Morrow formation, to wit:

Township 20 South, Range 34 East, N.M.P.M.  
Section 28: S/2  
Containing 320.00 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 the boundary of the unit area, and the boundary of the initial participating area proposed 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 has previously submitted in triplicate a geological report with accompanying maps supporting and justifying the proposed selection of the initial participating area.

This proposed application of the initial participating area is predicted upon the knowledge and information first obtained upon completion in paying quantities under the terms of the unit agreement on September 9, 1980, of the West Lynch Deep Unit Well No. 1 located 2310' FEL and 660' FSL, Sec. 28, T-20-S, R-34-E, with a CAOF 3.5 MMCFGPD plus 263 barrels of condensate from the lower Morrow perforated at 13,724-13,740'. The well went on stream December 23, 1980, and produced a total of 88,682 MCFG plus 6,470 barrels of condensate through December, 1981. Due to the lower Morrow watering out, the well was shut in May 1, 1981. On May 20, 1981, the well was plugged back to the middle Morrow and perforated at 13,424-430' and 13,335-13,343'. Current production is 8 barrels of condensate per day plus 120 MCFGPD. The effective date of this initial participating area shall be September 1, 1980, pursuant to Section 11 of the Unit Agreement.

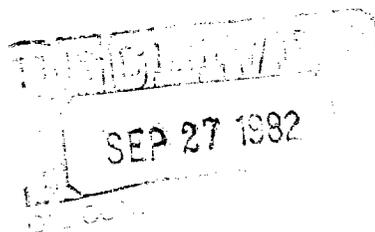
The Oil Conservation Division approved the validation of the West Lynch Deep Unit Area on February 17, 1981, with the United States Geological Survey determining that the West Lynch Deep Unit Well No. 1 qualified as a Unit well on April 10, 1981.

Applicant respectfully requests your approval of the above selected lands to constitute the initial participating area to be effective September 1, 1980.

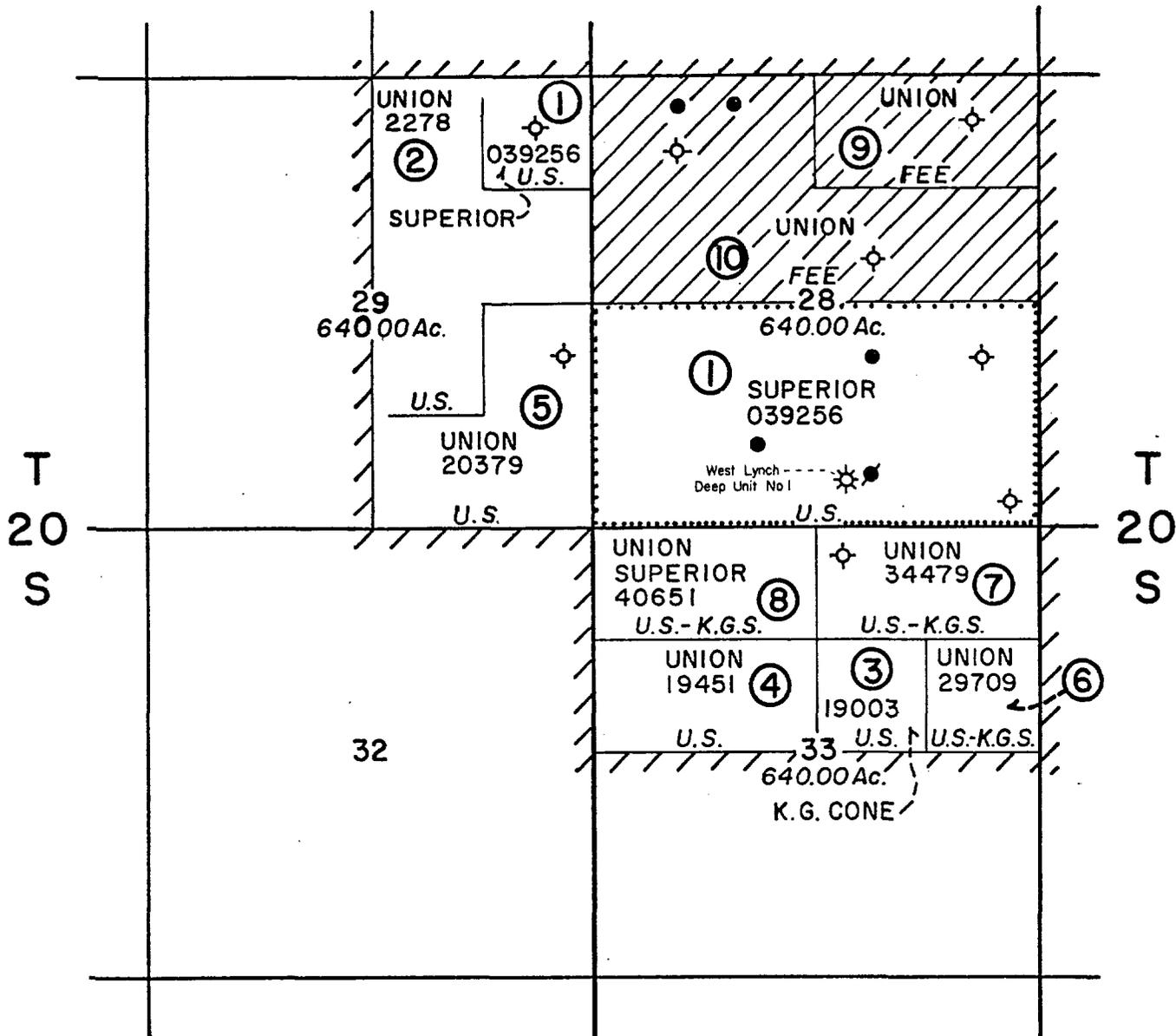
Dated this 23 day of September, 1982.

UNION OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart  
Robert V. Lockhart  
District Land Manager



R 34 E



**EXHIBIT "A"**  
**WEST LYNCH DEEP UNIT**  
 LEA COUNTY, NEW MEXICO



① TRACT NUMBER - EXHIBIT "B"

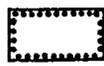
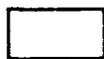
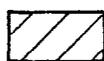
	PROPOSED PARTICIPATING AREA - WEST LYNCH DEEP UNIT No 1
	FEDERAL 960.00 Ac. 75.000000%
	FEE 320.00 Ac. 25.000000%
	1280.00 Ac. 100.000000%

Exhibit "B"  
 Initial Morrow Formation  
 Participating Area  
 West Lynch Deep Unit Agreement  
 Lea County, New Mexico

Tract No.	Lease No. or Type of Land	Description	Participating Acres	Percent of Participation	Working Interest Owner
1	NM-039256	Sec. 28: S/2  All lands are in T-20-S, R-34-E, N.M.P.M.	320.00	100.000000%	*The Superior Oil Company

TOTAL: 320.00 100.000000%

SUMMARY

TYPE LAND	COMMITTED ACRES	PERCENT
Federal	320.00	100.000000%
TOTAL:	<u>320.00</u>	<u>100.000000%</u>

\*Below 3,820 Feet

Oil Conservation Division  
Energy & Minerals Department  
P.O. Box 2088  
Santa Fe, New Mexico 87501  
Attn: Mr. Joe Ramey, Director

Case No. 6880

Union Oil Company of California as Unit Operator of the West Lynch Deep Unit Agreement, approved by the Regional Conservation Manager of the U.S. Geological Survey effective June 11, 1980 and by the Oil Conservation Division on May 22, 1980, pursuant to the provisions of section 11 thereof, respectfully submits for your approval the selection of the following described land to constitute the initial participating area for the Morrow formation, to wit:

Township 20 South, Range 34 East, N.M.P.M.  
Section 28: S/2  
Containing 320.00 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 the boundary of the unit area, and the boundary of the initial participating area proposed 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 has previously submitted in triplicate a geological report with accompanying maps supporting and justifying the proposed selection of the initial participating area.

This proposed application of the initial participating area is predicted upon the knowledge and information first obtained upon completion in paying quantities under the terms of the unit agreement on September 9, 1980, of the West Lynch Deep Unit Well No. 1 located 2310' FEL and 660' FSL, Sec. 28, T-20-S, R-34-E, with a CAOF 3.5 MMCFGPD plus 263 barrels of condensate from the lower Morrow perforated at 13,724-13,740'. The well went on stream December 23, 1980, and produced a total of 88,682 MCFG plus 6,470 barrels of condensate through December, 1981. Due to the lower Morrow watering out, the well was shut in May 1, 1981. On May 20, 1981, the well was plugged back to the middle Morrow and perforated at 13,424-430' and 13,335-13,343'. Current production is 8 barrels of condensate per day plus 120 MCFGPD. The effective date of this initial participating area shall be September 1, 1980, pursuant to Section 11 of the Unit Agreement.

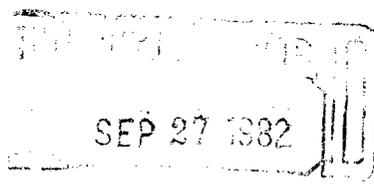
The Oil Conservation Division approved the validation of the West Lynch Deep Unit Area on February 17, 1981, with the United States Geological Survey determining that the West Lynch Deep Unit Well No. 1 qualified as a Unit well on April 10, 1981.

Applicant respectfully requests your approval of the above selected lands to constitute the initial participating area to be effective September 1, 1980.

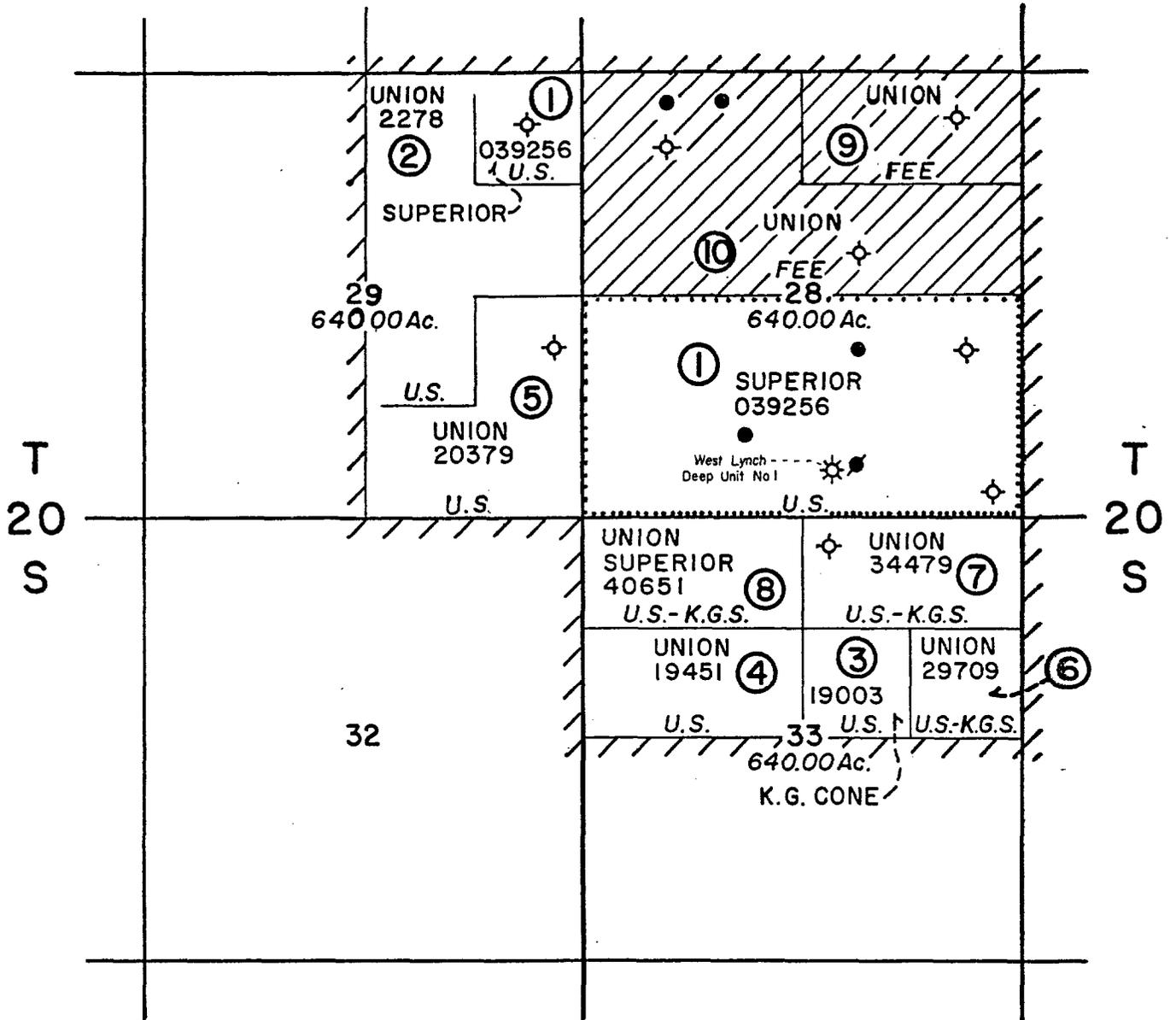
Dated this 23 day of September, 1982.

UNION OIL COMPANY OF CALIFORNIA

By: Robert V. Lockhart  
Robert V. Lockhart  
District Land Manager



R 34 E



**EXHIBIT "A"**  
**WEST LYNCH DEEP UNIT**  
**LEA COUNTY, NEW MEXICO**



① TRACT NUMBER - EXHIBIT "B"

	PROPOSED PARTICIPATING AREA - WEST LYNCH DEEP UNIT No 1	
	FEDERAL	960.00 Ac. 75.000000%
	FEE	320.00 Ac. 25.000000%
		<hr/> 1280.00 Ac. 100.000000%

Exhibit "B"  
 Initial Morrow Formation  
 Participating Area  
 West Lynch Deep Unit Agreement  
 Lea County, New Mexico

Tract No.	Lease No. or Type of Land	Description	Participating Acres	Percent of Participation	Working Interest Owner
1	NM-039256	All lands are in T-20-S, R-34-E, N.M.P.M. Sec. 28: S/2	320.00	100.000000%	*The Superior Oil Company

TOTAL: 320.00 100.000000%

SUMMARY

TYPE LAND	COMMITTED ACRES	PERCENT
Federal	320.00	100.000000%
TOTAL:	<u>320.00</u>	<u>100.000000%</u>

\*Below 3,820 Feet

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

September 18, 1980

Oil Conservation Division  
Energy and Minerals Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attn: Mr. Joe Ramey,  
Director

Gentlemen:

Case No. 6880  
Order No. R-6349  
West Lynch Deep Unit  
Lea County, New Mexico

In connection with the captioned unit, we are enclosing for your approval and file an original and three (3) copies of the following "Royalty and Overriding Royalty Interest Owner" Ratification and Joinder:

Margaret H. Nohl, individually and as sole survivor of  
the Estate of F. L. Nohl, deceased - Tract No. 1

A copy of Mr. F. L. Nohl's death certificate and an original plus three (3) copies of Superior Oil Company's consent to joinder is also enclosed.

Should you need further information, please advise. According to our records, this completes the ratifications of overriding royalty owners not otherwise committed by virtue of their lease terms.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script that reads "Linda H. Hicks".

Linda H. Hicks  
Landman

LHH:cs  
Encl. 8  
Certif./Return Receipt



WEST LYNCH DEEP UNIT AGREEMENT  
LEA COUNTY, NEW MEXICO

(Royalty and Overriding Royalty Interest Owner)

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, a certain instrument entitled UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE WEST LYNCH DEEP UNIT AREA, LEA COUNTY, NEW MEXICO, has been executed as of the 21st day of April, 1980, by various persons conducting operations with respect to the WEST LYNCH DEEP UNIT AREA, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the Unit Agreement, by Exhibit "A", shows on a map the boundary lines of the Unit Area and the Tracts therein and, by Exhibit "B", describes each Tract within the Unit Area; and

WHEREAS, the Unit Agreement provides that a person may become a party thereto by signing an instrument agreeing to be bound by the provisions thereof; and

WHEREAS, the undersigned (whether one or more) is, or claims to be, the owner of a royalty and/or overriding royalty interest in one or more of the Tracts described in Exhibit "B" of the Unit Agreement.

NOW, THEREFORE, the undersigned (whether one or more), for and in consideration of the premises and the benefits anticipated to accrue under said Agreement, does hereby agree to become a party to and to be bound by the provisions of the said Unit Agreement, and the undersigned does hereby agree that the parties to said Agreement are those persons signing the originals of said instruments, counterparts thereof, or other instruments agreeing to be bound by the provisions thereof. The undersigned does also hereby acknowledge receipt of a true copy of the said Unit Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the undersigned's signature.

Date: July 28, 1980

Address: 8911 Northeastern Blvd., N.E.

#H105, Albuquerque, NM 87112

Margaret H. Nohl  
MARGARET H. NOHL, Individually and as sole survivor of the Estate of F. L. Nohl, Deceased

(Royalty or Overriding Royalty OWNER)

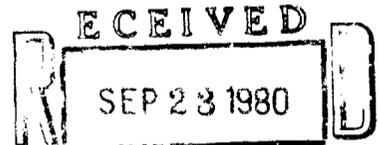
STATE OF NEW MEXICO, X  
COUNTY OF BERNALILLO. X

(Individual)

The foregoing instrument was acknowledged before me this 28th day of July, 1980, by Margaret H. Nohl, Individually and as sole survivor of the Estate of F. L. Nohl, Deceased.

My Commission Expires:  
July 19, 1983

[Signature]  
Notary Public



STATE OF \_\_\_\_\_, I  
COUNTY OF \_\_\_\_\_ . I

(Corporate)

OIL CONSERVATION DIVISION  
SANTA FE

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, by \_\_\_\_\_ of \_\_\_\_\_ a \_\_\_\_\_ corporation, on behalf of said corporation.

My Commission Expires:  
\_\_\_\_\_

\_\_\_\_\_  
Notary Public

CONSENT TO RATIFICATION AND JOINDER TO THE  
WEST LYNCH DEEP UNIT AGREEMENT  
DATED APRIL 21, 1980  
DESIGNATED NO. 14-08-0001-18432  
LEA COUNTY, NEW MEXICO

THE UNDERSIGNED WORKING INTEREST OWNER IN THE WEST LYNCH DEEP UNIT AGREEMENT  
AND THE UNIT OPERATING AGREEMENT, HEREBY CONSENTS TO THE JOINDER OF THE OVER-  
RIDING ROYALTY INTEREST OF MARGARET H. NOHL, INDIVIDUALLY AND AS SOLE SURVIVOR  
OF THE ESTATE OF F. H. NOHL, DECEASED in Tract No. 1 described as follows:

Township 20 South, Range 34 East  
Section 28: S/2  
Section 29: NE/4 NE/4

to said UNIT AGREEMENT.

THE SUPERIOR OIL COMPANY

Date: September 9, 1980

By M. D. Huggan

Vice President.

ATTEST: R. H. H. H.  
Assistant Secretary

Address: P. O. Box 1521  
Houston, Texas 77001

WORKING INTEREST OWNER

STATE OF TEXAS,            Y  
  Y    ss.  
COUNTY OF Harris .    Y

The foregoing instrument was acknowledged before me this 9th day  
of September, 1980, by M. D. Huggan,  
Vice President of THE SUPERIOR OIL COMPANY, a corporation, on behalf of said  
corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official  
seal the day and year above written.

JUDY HARSH  
Notary Public for the State of Texas  
My Commission Expires 8-12-84

Judy Harsh  
Notary Public

My Commission Expires:

WEST LYNCH DEEP UNIT AGREEMENT  
LEA COUNTY, NEW MEXICO

(Royalty and Overriding Royalty Interest Owner)

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, a certain instrument entitled UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE WEST LYNCH DEEP UNIT AREA, LEA COUNTY, NEW MEXICO, has been executed as of the 21st day of April, 1980, by various persons conducting operations with respect to the WEST LYNCH DEEP UNIT AREA, located in Lea County, New Mexico, as more particularly described in said Agreement; and

WHEREAS, the Unit Agreement, by Exhibit "A", shows on a map the boundary lines of the Unit Area and the Tracts therein and, by Exhibit "B", describes each Tract within the Unit Area; and

WHEREAS, the Unit Agreement provides that a person may become a party thereto by signing an instrument agreeing to be bound by the provisions thereof; and

WHEREAS, the undersigned (whether one or more) is, or claims to be, the owner of a royalty and/or overriding royalty interest in one or more of the Tracts described in Exhibit "B" of the Unit Agreement.

NOW, THEREFORE, the undersigned (whether one or more), for and in consideration of the premises and the benefits anticipated to accrue under said Agreement, does hereby agree to become a party to and to be bound by the provisions of the said Unit Agreement, and the undersigned does hereby agree that the parties to said Agreement are those persons signing the originals of said instruments, counterparts thereof, or other instruments agreeing to be bound by the provisions thereof. The undersigned does also hereby acknowledge receipt of a true copy of the said Unit Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the undersigned's signature.

Date: July 28, 1980

Address: 8911 Northeastern Blvd., N.E.

#H105, Albuquerque, NM 87112

Margaret H. Nohl  
MARGARET H. NOHL, Individually and as sole survivor of the Estate of F. L. Nohl, Deceased

(Royalty or Overriding Royalty OWNER)

STATE OF NEW MEXICO, X  
COUNTY OF BERNALILLO, X

(Individual)

The foregoing instrument was acknowledged before me this 28th day of July, 1980, by Margaret H. Nohl, Individually and as sole survivor of the Estate of F. L. Nohl, Deceased.

My Commission Expires:  
July 19, 1983

[Signature]  
Notary Public

STATE OF \_\_\_\_\_, I  
COUNTY OF \_\_\_\_\_, I

(Corporate)



The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, by \_\_\_\_\_ of \_\_\_\_\_ a \_\_\_\_\_ corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

CONSENT TO RATIFICATION AND JOINDER TO THE  
WEST LYNCH DEEP UNIT AGREEMENT  
DATED APRIL 21, 1980  
DESIGNATED NO. 14-08-0001-18432  
LEA COUNTY, NEW MEXICO

THE UNDERSIGNED WORKING INTEREST OWNER IN THE WEST LYNCH DEEP UNIT AGREEMENT  
AND THE UNIT OPERATING AGREEMENT, HEREBY CONSENTS TO THE JOINDER OF THE OVER-  
RIDING ROYALTY INTEREST OF MARGARET H. NOHL, INDIVIDUALLY AND AS SOLE SURVIVOR  
OF THE ESTATE OF F. H. NOHL, DECEASED in Tract No. 1 described as follows:

Township 20 South, Range 34 East  
Section 28: S/2  
Section 29: NE/4 NE/4

to said UNIT AGREEMENT.

Date: September 9, 1980

ATTEST: [Signature]  
Assistant Secretary

THE SUPERIOR OIL COMPANY

By [Signature]  
Vice President

Address: P. O. Box 1521  
Houston, Texas 77001

WORKING INTEREST OWNER

STATE OF TEXAS,            I  
                                  I    ss.  
COUNTY OF Harris.    I

The foregoing instrument was acknowledged before me this 9th day  
of September, 1980, by M. D. Buggan,  
Vice President of THE SUPERIOR OIL COMPANY, a corporation, on behalf of said  
corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official  
seal the day and year above written.

JUDY HARSH  
Notary Public for the State of Texas  
My Commission Expires 8-12-84

[Signature]  
Notary Public

My Commission Expires:  
\_\_\_\_\_

WEST LYNCH DEEP UNIT AGREEMENT  
LEA COUNTY, NEW MEXICO

(Royalty and Overriding Royalty Interest Owner)

KNOW ALL MEN BY THESE PRESENTS, THAT:

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WHEREAS, the Unit Agreement, by Exhibit "A", shows on a map the boundary lines of the Unit Area and the Tracts therein and, by Exhibit "B", describes each Tract within the Unit Area; and

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Address: 8911 Northeastern Blvd., N.E.

#H105, Albuquerque, NM 87112

+ Margaret H. Nohl  
MARGARET H. NOHL, Individually and as sole survivor of the Estate of F. L. Nohl, Deceased

(Royalty or Overriding Royalty OWNER)

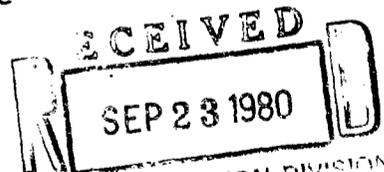
STATE OF NEW MEXICO, X  
COUNTY OF BERNALILLO. X

(Individual)

The foregoing instrument was acknowledged before me this 28th day of July, 1980, by Margaret H. Nohl, Individually and as sole survivor of the Estate of F. L. Nohl, Deceased

My Commission Expires:  
July 19, 1983

[Signature]  
Notary Public



STATE OF \_\_\_\_\_, I  
COUNTY OF \_\_\_\_\_, X

(Corporate)

OIL CONSERVATION DIVISION

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, by \_\_\_\_\_ of \_\_\_\_\_ a \_\_\_\_\_ corporation, on behalf of said corporation.

My Commission Expires:

\_\_\_\_\_  
Notary Public

CONSENT TO RATIFICATION AND JOINDER TO THE  
WEST LYNCH DEEP UNIT AGREEMENT  
DATED APRIL 21, 1980  
DESIGNATED NO. 14-08-0001-18432  
LEA COUNTY, NEW MEXICO

THE UNDERSIGNED WORKING INTEREST OWNER IN THE WEST LYNCH DEEP UNIT AGREEMENT  
AND THE UNIT OPERATING AGREEMENT, HEREBY CONSENTS TO THE JOINDER OF THE OVER-  
RIDING ROYALTY INTEREST OF MARGARET H. NOHL, INDIVIDUALLY AND AS SOLE SURVIVOR  
OF THE ESTATE OF F. H. NOHL, DECEASED in Tract No. 1 described as follows:

Township 20 South, Range 34 East  
Section 28: S/2  
Section 29: NE/4 NE/4

to said UNIT AGREEMENT.

THE SUPERIOR OIL COMPANY

Date: September 9, 1980  
ATTEST: [Signature]  
Assistant Secretary

By [Signature]  
Vice President

Address: P. O. Box 1521  
Houston, Texas 77001

WORKING INTEREST OWNER

STATE OF TEXAS,            I  
                                  I   ss.  
COUNTY OF Harris.    I

The foregoing instrument was acknowledged before me this 9th day  
of September, 1980, by M. D. Suggan,  
Vice President of THE SUPERIOR OIL COMPANY, a corporation, on behalf of said  
corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official  
seal the day and year above written.

JUDY HARSH  
Notary Public for the State of Texas  
My Commission Expires 8-12-84

[Signature]  
Notary Public

My Commission Expires:

WEST LYNCH DEEP UNIT AGREEMENT  
LEA COUNTY, NEW MEXICO

(Royalty and Overriding Royalty Interest Owner)

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, a certain instrument entitled UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE WEST LYNCH DEEP UNIT AREA, LEA COUNTY, NEW MEXICO, has been executed as of the 21st day of April, 1980, by various persons conducting operations with respect to the WEST LYNCH DEEP UNIT AREA, located in Lea County, New Mexico, as more particularly described in said Agreement; and

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Date: July 28, 1980

Address: 8911 Northeastern Blvd., N.E.

#H105, Albuquerque, NM 87112

Margaret H. Nohl  
MARGARET H. NOHL, Individually and as sole survivor of the Estate of F. L. Nohl, Deceased  
(Royalty or Overriding Royalty OWNER)

STATE OF NEW MEXICO, X  
COUNTY OF BERNALILLO. X

(Individual)

The foregoing instrument was acknowledged before me this 28th day of July, 1980, by Margaret H. Nohl, Individually and as sole survivor of the Estate of F. L. Nohl, Deceased.

My Commission Expires: July 19, 1983

Margaret H. Nohl  
Notary Public



STATE OF \_\_\_\_\_, I  
COUNTY OF \_\_\_\_\_, I

(Corporate)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, by \_\_\_\_\_ of \_\_\_\_\_ a \_\_\_\_\_ corporation, on behalf of said corporation.

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

CONSENT TO RATIFICATION AND JOINDER TO THE  
WEST LYNCH DEEP UNIT AGREEMENT  
DATED APRIL 21, 1980  
DESIGNATED NO. 14-08-0001-18432  
LEA COUNTY, NEW MEXICO

THE UNDERSIGNED WORKING INTEREST OWNER IN THE WEST LYNCH DEEP UNIT AGREEMENT  
AND THE UNIT OPERATING AGREEMENT, HEREBY CONSENTS TO THE JOINDER OF THE OVER-  
RIDING ROYALTY INTEREST OF MARGARET H. NOHL, INDIVIDUALLY AND AS SOLE SURVIVOR  
OF THE ESTATE OF F. H. NOHL, DECEASED in Tract No. 1 described as follows:

Township 20 South, Range 34 East  
Section 28: S/2  
Section 29: NE/4 NE/4

to said UNIT AGREEMENT.

THE SUPERIOR OIL COMPANY

Date: September 9, 1980

By M. D. Suggan  
Vice President

ATTEST: [Signature]  
Assistant Secretary

Address: P. O. Box 1521  
Houston, Texas 77001

WORKING INTEREST OWNER

STATE OF TEXAS,            I  
                                  I    ss.  
COUNTY OF Harris .    I

The foregoing instrument was acknowledged before me this 9th day  
of September, 1980, by M. D. Suggan,  
Vice President of THE SUPERIOR OIL COMPANY, a corporation, on behalf of said  
corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official  
seal the day and year above written.

JUDY HARSH  
Notary Public for the State of Texas  
My Commission Expires 8-12-84

Judy Harsh  
Notary Public

My Commission Expires:

CERTIFICATE OF DEATH—Medically Certified by Physician other than Medical Investigator

Albuquerque  
City, Town, Locality

DECEASED		DECEASED—NAME First Middle Last <b>Frederick Ludwig NOHL</b>			SEX 2 <b>M</b>	DATE OF DEATH (mo, day, yr) 3 <b>June 8, 1980</b>
DATE OF BIRTH (mo, day, yr) 4 <b>Oct. 31, 1908</b>		AGE—Last birthday 5a <b>71</b> yrs	UNDER 1 YEAR Mos Days	UNDER 1 DAY Hours Mins	RACE—Specify White, Black, Native American, etc. 6a <b>Caucasian</b>	IF NATIVE AMERICAN, Specify Tribal Affiliation (e.g. Zia, Jicarilla, Navajo, etc.) 6b.
IF HISPANIC, Specify <input type="checkbox"/> U.S. Southwest <input type="checkbox"/> Mexican <input type="checkbox"/> Cuban <input type="checkbox"/> Other		HOSPITAL OR OTHER INSTITUTION—Name (if neither, give street and number) 7a <b>Presbyterian Hospital</b>			IF HOSP OR INST. Specify OOA OP/Emar. Rm, inpatient 7b <b>Emer. Room</b>	
STATE OR COUNTRY OF BIRTH 8 <b>New Mexico</b>		CITIZEN OF WHAT COUNTRY 9 <b>USA</b>	MARRIED, NEVER MARRIED, WIDOWED, DIVORCED—Specify 10 <b>Married</b>	SURVIVING SPOUSE (if wife, give maiden name) 11 <b>Margaret Hannett</b>		WAS DECEASED EVER IN U.S. ARMED FORCES? 12 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SOCIAL SECURITY NUMBER 13 <b>525 34 9345</b>		USUAL OCCUPATION (Kind of work done during most of working life, even if retired) 14a <b>Attorney</b>		KIND OF BUSINESS OR INDUSTRY 14b <b>Law</b>		
RESIDENCE—State 15a <b>New Mexico</b>		County 15b <b>Bern.</b>	CITY, TOWN OR LOCATION 15c <b>Albuquerque</b>	STREET AND NUMBER 15d <b>8911 Northeastern NE</b>		INSIDE CITY LIMITS? 15e <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
FATHER—NAME 16 <b>Frederick Albert Nohl</b>		MOTHER—MAIDEN NAME 17 <b>Jessie (NMN) Keeton</b>		INFORMANT—NAME (Type of print) 18a <b>Margaret H. Nohl</b>		
MOTHER—MAIDEN NAME 17 <b>Jessie (NMN) Keeton</b>		MAILING ADDRESS—Street/RFD No. 18b <b>8911 Northeastern NE, Albuquerque, NM 87112</b>		City/Town State Zip		
BURIAL, CREMATION, REMOVAL, OTHER—Specify 19a <b>Cremation</b>		CEMETERY/CREMATORY—Name 19b <b>Sunset Crem.</b>	LOCATION 19c <b>Albuquerque New Mexico</b>			
FUNERAL SERVICE LICENSEE or Authorized Rep. Sign (Type) 20a <b>Wm. H. ... 424</b>		FACILITY—NAME 20b <b>French</b>	FACILITY—ADDRESS 20c <b>P. O. Box 25063, Albug. NM 8712</b>			
CERTIFIER SIGNATURE—To the best of my knowledge, death occurred at the time, date and place and due to cause(s) stated. 21a <i>[Signature]</i>		DATE SIGNED (mo, day, yr) 21c <b>6/9/80</b>		HOUR OF DEATH 21d <b>9:20 P M</b>		
CERTIFIER NAME AND ADDRESS—Type or print 21b <b>301 Cordova SE 500 Albuquerque, NM 87106</b>		NAME OF ATTENDING PHYSICIAN IF OTHER THAN CERTIFIER—Type or print 21e		REGISTRAR SIGNATURE 22a <i>[Signature]</i>		
DATE RECEIVED 22b <b>6-11-80</b>		23 PART I—IMMEDIATE CAUSE (Enter only one cause per line for a, b, and c) a <b>Cardiorespiratory arrest</b> b <b>Arteriosclerotic Heart Disease</b> c <b>Myocardial Infarction</b>				
Interval between onset and death 40 min		Interval between onset and death One hour				
Interval between onset and death Many years		PART II—OTHER SIGNIFICANT CONDITIONS—Contributing to death but not related to cause given in PART I.				
WAS RECENT SURGICAL PROCEDURE PERFORMED? 25a <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		IF YES, SPECIFY TYPE OF PROCEDURE 25b		DATE OF PROCEDURE 25c		WAS DECEASED PREGNANT WITHIN LAST 6 WEEKS? 26a <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
ACCIDENT, SUICIDE, HOMICIDE 27a <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		DESCRIBE HOW INJURY OCCURRED 27b		HOUR OF INJURY 27c		DATE OF INJURY (mo, day, yr) 27d
INJURY AT WORK 27e <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PLACE OF INJURY—Specify home, farm, street, etc. 27f		LOCATION—Street/RFD No. City/Town State 27g		

Conditions, if any, which gave rise to immediate cause, stating underlying cause last

VSB 904 Issued 1/79

CERTIFIED COPY OF VITAL RECORD

STATE OF NEW MEXICO

COUNTY OF BERNALILLO

Michael J. Burkhart, Director  
Health Services Division  
Health and Environment Department

This is a true and exact reproduction of the original document officially registered and placed on file in the Vital Records Section of the New Mexico Health and Environment Department in Santa Fe, New Mexico, and issued under authority of the State Registrar of Vital Statistics.

DATE ISSUED: June 11, 1980

*[Signature]*  
Michael W. Ammann  
State Registrar  
Vital Statistics

THIS COPY NOT VALID UNLESS PREPARED ON SAFETY PAPER WHICH DISPLAYS THE RAISED SEAL OF THE STATE REGISTRAR. (NMSA, 1953, at Section 12-4-48)



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

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

August 26, 1981

Union Oil Company of California  
P. O. Box 671  
Midland, Texas 79702

Attention: Robert V. Lockhart

Re: Case No. 6880  
West Lynch Deep Unit  
Initial Plan of Development  
and Operation

Gentlemen:

We hereby approve the Initial Plan of Development and Operation for the West Lynch Deep Unit, Lea County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Initial Plan of Development is returned herewith.

Yours very truly,

JOE D. RAMEY  
Director

JDR/EP/fd  
enc.

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

Union Oil and Gas Division: Central Region

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

RECEIVED  
JUL 07 1981  
OIL CONSERVATION DIVISION  
SANTA FE



Robert V. Lockhart  
District Land Manager  
Midland District

July 1, 1981

cc  
E/P  
8/24/81

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

Attention: Mr. Joe D. Ramey,  
Director

West Lynch Deep Unit  
Case NO. 6880  
Lea County, New Mexico

Gentlemen:

Please find enclosed a copy of a letter from the U.S.G.S. in which they agree with our determination that the West Lynch Deep Unit #1 well qualifies as a Unit well, thereby validating the Unit.

Also enclosed please find the Initial Plan of Development and Operation for the West Lynch Deep Unit.

Should you have any questions or require further information, please advise.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

Robert V. Lockhart  
District Land Manager

LHH/dcl

INITIAL PLAN OF DEVELOPMENT AND OPERATION

FOR

WEST LYNCH DEEP UNIT AREA

LEA COUNTY, NEW MEXICO

TO: Oil Conservation Division  
Energy & Minerals Department  
P.O. Box 2088  
Santa Fe, New Mexico 87501

UNION OIL COMPANY OF CALIFORNIA, as Unit Operator for the West Lynch Deep Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for Development and Operation of the West Lynch Deep Unit Area, dated May 14, 1980 (No. 14-08-0001-18432), respectfully submits for approval this Initial Plan of Development and Operation for the West Lynch Deep Unit Area. This plan is for the period ending December 31, 1981.

The West Lynch Unit Well #1 was spudded on June 16, 1980 at 2,310' FEL and 660' FSL, Section 28, T-20-S, R-34-E, Lea County, New Mexico. The well reached a total depth of 13,876' on August 18, 1980. By respective letters dated September 16, 1980 and September 24, 1980, the Acting Deputy Conservation Manager, Oil & Gas, U.S.G.S. and the Director of the Energy and Minerals Department, Oil Conservation Division, approved our ceasing drilling in the Morrow rather than continue to the Silurian formation. On August 22, 1980, Union decided not to attempt a completion in this well. The Superior Oil Company elected to assume operations on that date pursuant to Designation of Agent by Union. Superior set casing to total depth on August 25, 1980. On September 9, 1980, the lower Morrow was perforated at 13,724-13,740'. On September 12, 1980, a 4-point test was run with CAOF 3.5 MMCFGPD plus 263 barrels of condensate, SITP 4474# and then the well was shut-in until it went on stream December 23, 1980.

By letter dated April 10, 1981, the Deputy Conservation Manager, Oil and Gas, U.S.G.S., determined that the West Lynch Deep Unit Well #1 qualified as a

Unit well. We are now in the process of preparing our application for the initial Morrow participating area.

Due to the lower Morrow watering out, the well was shut-in May 1. On May 20, 1981, the well was plugged back to the middle Morrow and perforated at 13,424-430' and 13,335-13,343'. Current production is 20-30 barrels of condensate per day plus 250 MCFPD.

In accordance with the Unit Agreement, Union plans to assume operations of the West Lynch Deep Unit Well #1 on July 1, 1981 or as soon thereafter as possible.

We plan to monitor the production of the well and the drilling activity in the area outside the Unit, in particular Superior's well currently drilling in the NE/4 Section 32, T-20-S, R-34-E, before we consider proposing any additional wells. This Initial Plan of Development and Operations shall constitute the further obligations required under the West Lynch Deep Unit Agreement for the period ending December 31, 1981, and may be modified or supplemented from time to time with the necessary approval, when necessary to meet changed conditions or to protect the interest of all parties to the Unit Agreement.

Submitted this 30 day of June, 1981.

THIS APPROVAL GRANTED SUBJECT TO THE APPROVAL BEING GRANTED BY THE UNITED STATES GEOLOGICAL SURVEY AND BY THE COMMISSIONER OF PUBLIC LANDS OF THE STATE OF NEW MEXICO.

UNION OIL COMPANY OF CALIFORNIA

Approved

8/26 19 81

James  
Director  
Oil Conservation Division  
Energy and Minerals Department

By:

Robert V. Lockhart  
Robert V. Lockhart  
District Land Manager



Midland Development  
United States Department of the Interior

GEOLOGICAL SURVEY

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

RECEIVED

10 APR 1981

APR 13 1981

MIDLAND DISTRICT LAND

W/Lynch Pros (1873)

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

Gentlemen:

Your letter of December 23, 1980, indicates that as unit operator of the West Lynch Deep Unit Agreement, Lea County, New Mexico, you have determined that unit well No. 1 in the SW $\frac{1}{4}$  SE $\frac{1}{4}$  section 28, T. 20 S., R. 34 E., N.M.P.M., is capable of producing unitized substances in paying quantities.

Unit well No. 1 was tested September 12, 1980 for a calculated absolute open flow of 3,500 MCFGPD from the Morrow interval 13,724 to 13,740 feet.

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 initial Morrow participating area embracing those lands reasonably proven capable of producing from the Morrow in paying quantities at your earliest convenience.

Sincerely yours,

Gene F. Daniel  
Deputy Conservation Manager  
Oil and Gas

4/13/81  
Copy: John Hansen  
S. S. [unclear]



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

August 26, 1981

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

Union Oil Company of California  
P. O. Box 671  
Midland, Texas 79702

Attention: Robert V. Lockhart

Re: Case No. 6880  
West Lynch Deep Unit  
Initial Participating Area  
for the Morrow Formation

Gentlemen:

We hereby approve the Initial Participating Area for the Morrow Formation for the West Lynch Deep Unit, Lea County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Initial Participating Area is returned herewith.

Yours very truly,

JOE D. RAMEY  
Director

JDR/EP/fd  
enc.

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

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

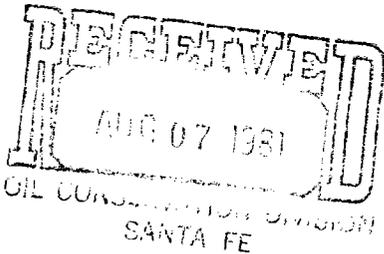


Robert V. Lockhart  
District Land Manager  
Midland District

July 6, 1981

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

Attention: Mr. Joe D. Ramey,  
Director



Gentlemen:

Re: West Lynch Deep Unit  
Case No. 6880  
Lea County, New Mexico

Please find enclosed Union Oil Company of California's Application for Approval of the Initial Participating Area for the Morrow Formation, original plus one copy.

An application is also being submitted to the U.S.G.S. for their approval.

Should you have any questions, please advise.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

Robert V. Lockhart  
District Land Manager

8/25/81  
OK  
E/P

RVL/lh

## Geological Report

### WEST LYNCH UNIT - PARTICIPATING AREA

Lea County, New Mexico  
June 23, 1981

The Union Oil Company of California #1 West Lynch Deep Unit well was spudded June 14, 1980 as a 14,800-foot Silurian test. When the well was found to be more than 400 feet lower than anticipated, drilling was discontinued at a depth of 13,875 feet in the Chester Mississippian. Union Oil elected to go non-consent on the completion of the well, and The Superior Oil Company took over operations at the casing point. However, Union Oil retained its status as unit operator.

Casing was run and a lower Morrow sand was perforated 13,724-13,740', and the well was completed for a CAOF of 3,500 MCFGPD with 263 BC. This zone produced from December, 1980 to April, 1981, 57,119 MCFG, 3101 BC, and 2965 BW. The well was shut in May 1, 1981, and plugged back to test sands higher in the Morrow. New perforations 13,424-430' and 13,335-343' flowed 400 MCF gas and 40 barrels of condensate per day against 520# line pressure. The well at last report was shut in for a pressure buildup test.

Our structural interpretation at this time shows the well on the south flank of a nose plunging southwestward from the Lea Field anticline. This interpretation is partially supported by the Superior #1 Gulf State well in Section 32, which is reported to be about 75 feet low to the subject well on upper Pennsylvanian strata. We have programmed additional shooting which may modify this interpretation.

The increasing water cut from the lower Morrow sand, perforations 13,724-74', indicates these perforations are very near a gas-water contact. If the sand is continuous across the unit, that portion of the unit which is structurally higher than the Union #1 West Lynch Deep Unit well should be productive from the Morrow. Therefore, the requested participating area includes the E/2 of Section 29 and all of Section 28, T-20-S, R-34-E.

*Coyle E Singletary*

---

Coyle E. Singletary  
Geologist  
Union Oil Company of California

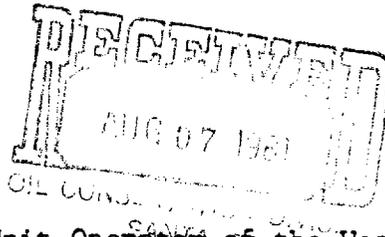
West Lynch Deep Unit Area  
Lea County, New Mexico

Application for  
approval of the  
initial participating  
area of the Morrow  
formation.

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

Attention: Mr. Joe D. Ramey, Director

Case No. 6880



Union Oil Company of California as Unit Operator of the West Lynch Deep Unit Agreement, approved by the Regional Conservation Manager of the U.S. Geological Survey effective June 11, 1980 and by the Oil Conservation Division on May 22, 1980, pursuant to the provisions of section 11 thereof, respectfully submits for your approval the selection of the following described land to constitute the initial participating area for the Morrow formation, to wit:

Township 20 South, Range 34 East, N.M.P.M.  
Section 28: all  
Section 29: E/2  
Containing 960.00 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 the boundary of the unit area, and the boundary of the initial participating area proposed 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 initial participating area.

This proposed application of the initial participating area is predicated upon the knowledge and information first obtained upon completion in paying quantities under the terms of the unit agreement on September 9, 1980, of the West Lynch Deep Unit Well No. 1 located 2310' FEL and 660' FSL, Sec. 28, T-20-S, R-34-E, with a CAOF 3.5 MCFGPD plus 263 barrels of condensate from the lower Morrow perforated at 13,724-13,740'. The well went on stream December 23, 1980 and produced a total of 57,119 MCFG plus 3,101 barrels of condensate through April, 1981. Due to the lower Morrow watering out, the well was shut in May 1, 1981. On May 20, 1981, the well was plugged back to the middle Morrow and perforated at 13,424-430' and 13,335-13,343'. Current production in 20-30 barrels of condensate per day plus 250 MCFGPD. The effective date of this initial participating area shall be September 1, 1980, pursuant to Section 11 of the unit agreement.

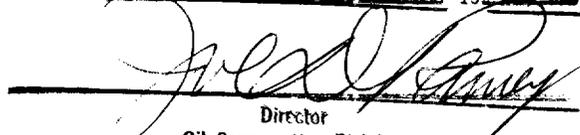
The Oil Conservation Division approved the validation of the West Lynch Deep Unit Area on February 17, 1981 with the United States Geological Survey determining that the West Lynch Deep Unit Well No. 1 qualified as a Unit well on April 10, 1981.

Applicant respectfully requests your approval of the above selected lands to constitute the initial participating area to be effective September 1, 1980.

Dated this 6 day of July, 1981.

THIS APPROVAL GRANTED SUBJECT TO LIKE APPROVAL  
BEING GRANTED BY THE UNITED STATES GEOLOGICAL  
SURVEY AND BY THE COMMISSIONER OF PUBLIC LANDS  
OF THE STATE OF NEW MEXICO.

Approved 8/26 19 81

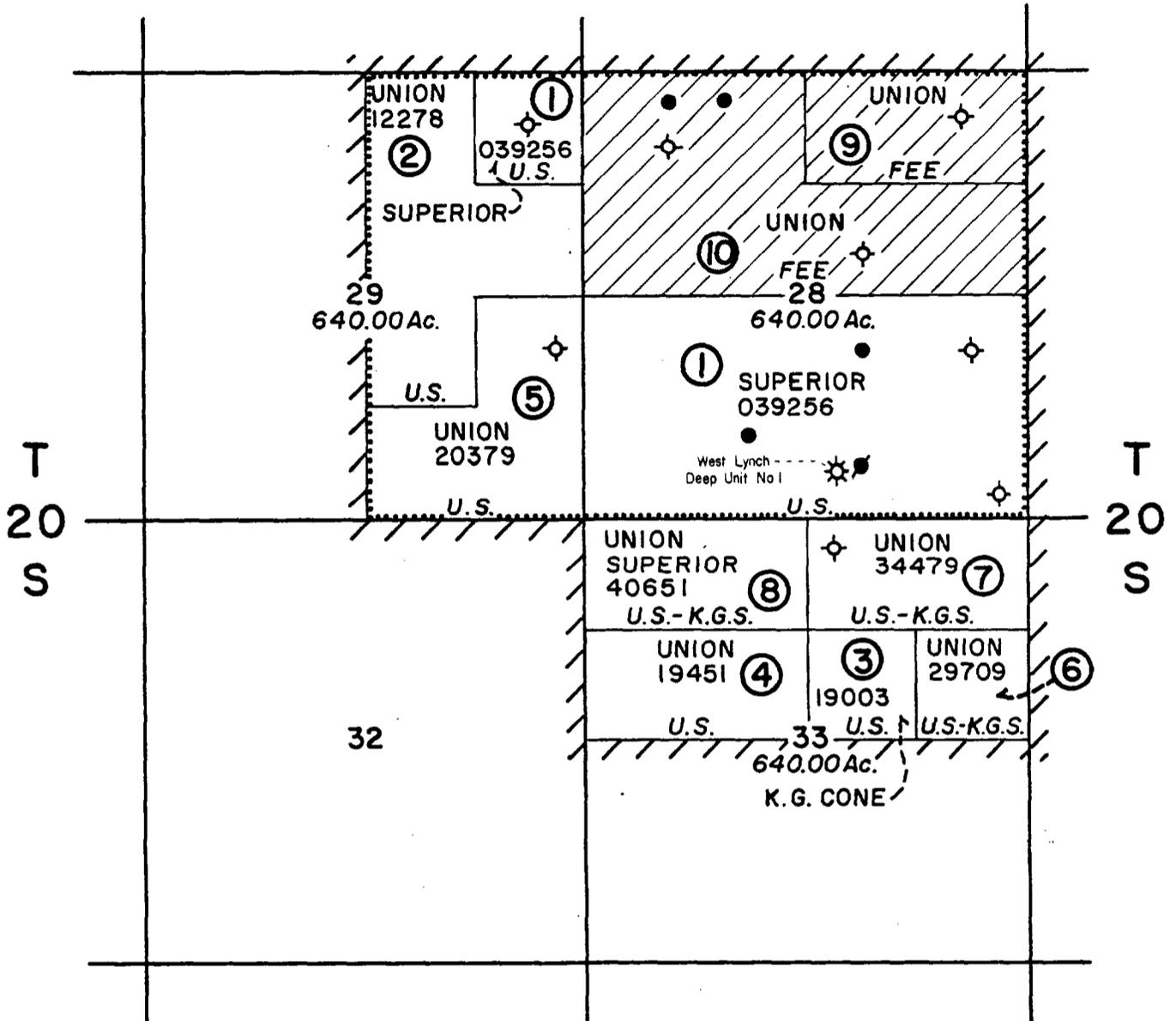
  
Director

Oil Conservation Division  
Energy and Minerals Department

UNION OIL COMPANY OF CALIFORNIA

by: Robert V. Lockhart  
Robert V. Lockhart  
District Land Manager

R 34 E



**EXHIBIT "A"**  
**WEST LYNCH DEEP UNIT**  
 LEA COUNTY, NEW MEXICO



① TRACT NUMBER - EXHIBIT "B"

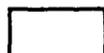
	PROPOSED PARTICIPATING AREA - WEST LYNCH DEEP UNIT No. 1
	FEDERAL 960.00 Ac. 75.000000%
	FEE 320.00 Ac. 25.000000%
	1280.00 Ac. 100.000000%

Exhibit "B"  
Initial Morrow Formation  
Participating Area  
West Lynch Deep Unit Agreement  
Lea County, New Mexico

Tract No.	Lease No. or type of land	Description	Participating Acres	Percent of Participation	Working Interest Owner
		All lands are in T-20-S, R-34-E, N.M.P.M.			
1	NM-039256	Sec. 28: S/2 Sec. 29: NE/4 NE/4	360.00	37.50000%	*The Superior Oil Company
2	NM-12278	Sec. 29: NW/4 NE/4, S/2 NE/4, NW/4 SE/4	160.00	16.66667%	Union Oil Company of California
5	NM-20379	Sec. 29: SW/4 SE/4, E/2 SE/4	120.00	12.50000%	Union Oil Company of California
9	Patented Land	Sec. 28: N/2 NE/4	80.00	8.33333%	Union Oil Company of California
10	Patented Land	Sec. 28: NW/4, S/2 NE/4	240.00	25.00000%	**Union Oil Company of California
		TOTAL:	<u>960.00</u>	<u>100.00000%</u>	
<u>SUMMARY</u>					
TYPE LAND			COMMITTED ACRES	PERCENT	
Federal			640.00	66.66667%	
Patented			320.00	33.33333%	
TOTAL:			<u>960.00</u>	<u>100.00000%</u>	

\*Below 3,820 Feet

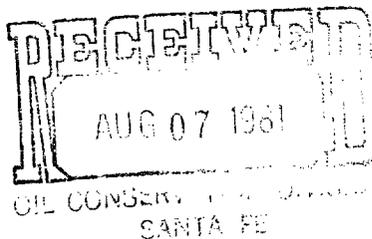
\*\*Below 3,713' in N/2 NW/4 and all depths in S/2 NW/4, and S/2 NE/4

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



August 4, 1981

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

Attention: Mr. Joe D. Ramey,  
Director

Gentlemen:

Re: West Lynch Deep Unit  
Case No. 6880  
Lea County, New Mexico

Please find enclosed a copy of an approved Plan of Development for the above referenced Unit which was approved on July 30, 1981.

A copy of Union's Initial Plan of Development was forwarded to your office for approval on July 1, 1981.

Should you have any questions, please advise.

Sincerely yours,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script that reads "Linda H. Hicks".

Linda H. Hicks  
Landman

LHH/s  
Enclosure

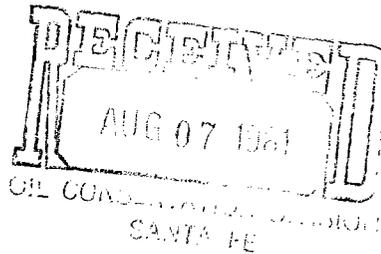
West Lynch Deep Unit Area  
Lea County, New Mexico

Application for  
approval of the  
initial participating  
area of the Morrow  
formation.

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

Attention: Mr. Joe D. Ramey, Director

Case No. 6880



Union Oil Company of California as Unit Operator of the West Lynch Deep Unit Agreement, approved by the Regional Conservation Manager of the U.S. Geological Survey effective June 11, 1980 and by the Oil Conservation Division on May 22, 1980, pursuant to the provisions of section 11 thereof, respectfully submits for your approval the selection of the following described land to constitute the initial participating area for the Morrow formation, to wit:

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

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The Oil Conservation Division approved the validation of the West Lynch Deep Unit Area on February 17, 1981 with the United States Geological Survey determining that the West Lynch Deep Unit Well No. 1 qualified as a Unit well on April 10, 1981.

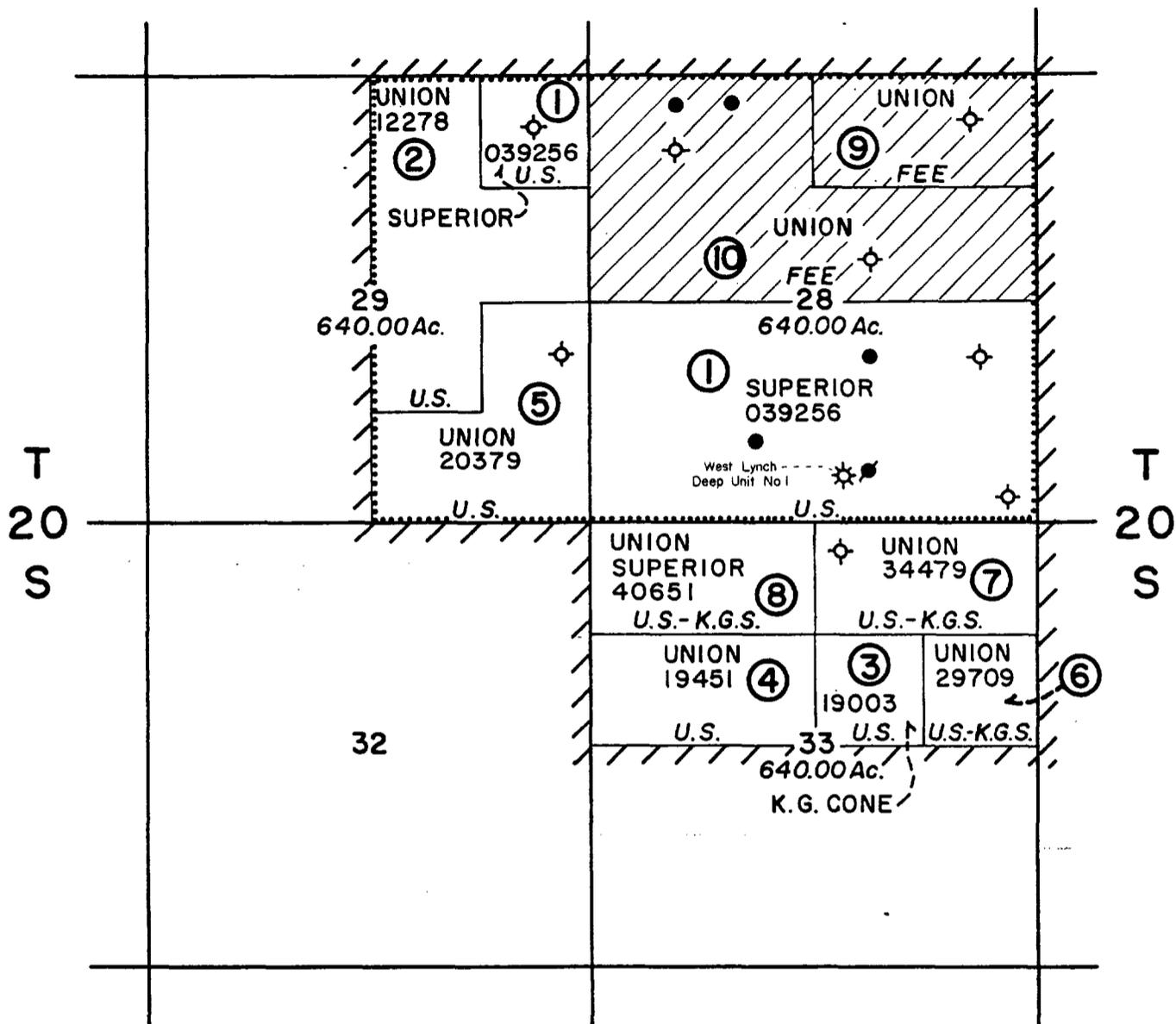
Applicant respectfully requests your approval of the above selected lands to constitute the initial participating area to be effective September 1, 1980.

Dated this 6 day of July, 1981.

UNION OIL COMPANY OF CALIFORNIA

by: Robert V. Lockhart  
Robert V. Lockhart  
District Land Manager

R 34 E



**EXHIBIT "A"**  
**WEST LYNCH DEEP UNIT**  
**LEA COUNTY, NEW MEXICO**



① TRACT NUMBER - EXHIBIT "B"

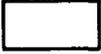
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		TOTAL:	<u>960.00</u>	<u>100.000000%</u>	

SUMMARY

TYPE LAND	COMMITTED ACRES	PERCENT
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Patented	320.00	33.333333%
	TOTAL: <u>960.00</u>	<u>100.000000%</u>

\*Below 3,820 Feet  
 \*\*Below 3,713' in N/2 NW/4 and all depths in S/2 NW/4, and S/2 NE/4

Geological Report

WEST LYNCH UNIT - PARTICIPATING AREA

Lea County, New Mexico  
June 23, 1981

The Union Oil Company of California #1 West Lynch Deep Unit well was spudded June 14, 1980 as a 14,800-foot Silurian test. When the well was found to be more than 400 feet lower than anticipated, drilling was discontinued at a depth of 13,875 feet in the Chester Mississippian. Union Oil elected to go non-consent on the completion of the well, and The Superior Oil Company took over operations at the casing point. However, Union Oil retained its status as unit operator.

Casing was run and a lower Morrow sand was perforated 13,724-13,740', and the well was completed for a CAOF of 3,500 MCFGPD with 263 BC. This zone produced from December, 1980 to April, 1981, 57,119 MCFG, 3101 BC, and 2965 BW. The well was shut in May 1, 1981, and plugged back to test sands higher in the Morrow. New perforations 13,424-430' and 13,335-343' flowed 400 MCF gas and 40 barrels of condensate per day against 520# line pressure. The well at last report was shut in for a pressure buildup test.

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*Coyle E Singletary*

---

Coyle E. Singletary  
Geologist  
Union Oil Company of California