



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

ANITA LOCKWOOD  
CABINET SECRETARY

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

October 14, 1993

HINKLE, COX, EATON,  
COFFIELD & HENSLEY  
Attorneys at Law  
P. O. Box 2068  
Santa Fe, New Mexico 87501

RE: CASE NO. 10762  
ORDER NO. R-9737-A

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

A handwritten signature in cursive script that reads "Sally E. Martinez".

Sally E. Martinez  
Administrative Secretary

cc: BLM - Carlsbad  
Rick Brown - OCD  
Donna McDonald - OCD  
David Abbey



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION  
RECEIVED

Case 10762

BRUCE KING  
GOVERNOR

October 29, 1993

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

Mewbourne Oil Company  
P. O. Box 5270  
Hobbs, New Mexico 88241-5270

Re: Division Order R-9737-A

Gentlemen:

According to the provisions of Division Order R-9737-A, the following wells were to be re-entered and replugged, or plugging confirmed to be adequate:

Cinco De Mayo Fed #1-C, Section 24, T18S, R32E

Anadarko Federal #1-N, Section 28, T18S, R32E

The additional information which you have submitted on these wells confirms that the original plugs and cement coverage is sufficient to comply with this order.

The Federal P Well No. 1 may be used for injection when the work has been completed and a pressure test has been conducted.

The Federal E Well No. 10 may be completed and used for injection purposes as soon as the Federal E #1 located in Unit B of Section 27, Township 18 South, Range 32 East has been re-completed or previous completion checked and approved.

Very truly yours

OIL CONSERVATION DIVISION

Jerry Sexton  
Supervisor, District I

JS:bp

cc: David Catanach  
File



HINKLE, COX, EATON, COFFIELD & HENSLEY

ATTORNEYS AT LAW

218 MONTEZUMA

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October 4, 1993

Michael E. Stogner  
Oil Conservation Division  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87503

Re: Mewbourne Oil Company (Case Nos. 10,761 and 10,762)

Dear Mr. Stogner:

Enclosed, as you requested, is supplemental data regarding the frac gradient, marked as Mewbourne Oil Company Exhibit A. Please call me if you need anything further.

Very truly yours,

HINKLE, COX, EATON, COFFIELD  
& HENSLEY

*James Bruce*  
James Bruce

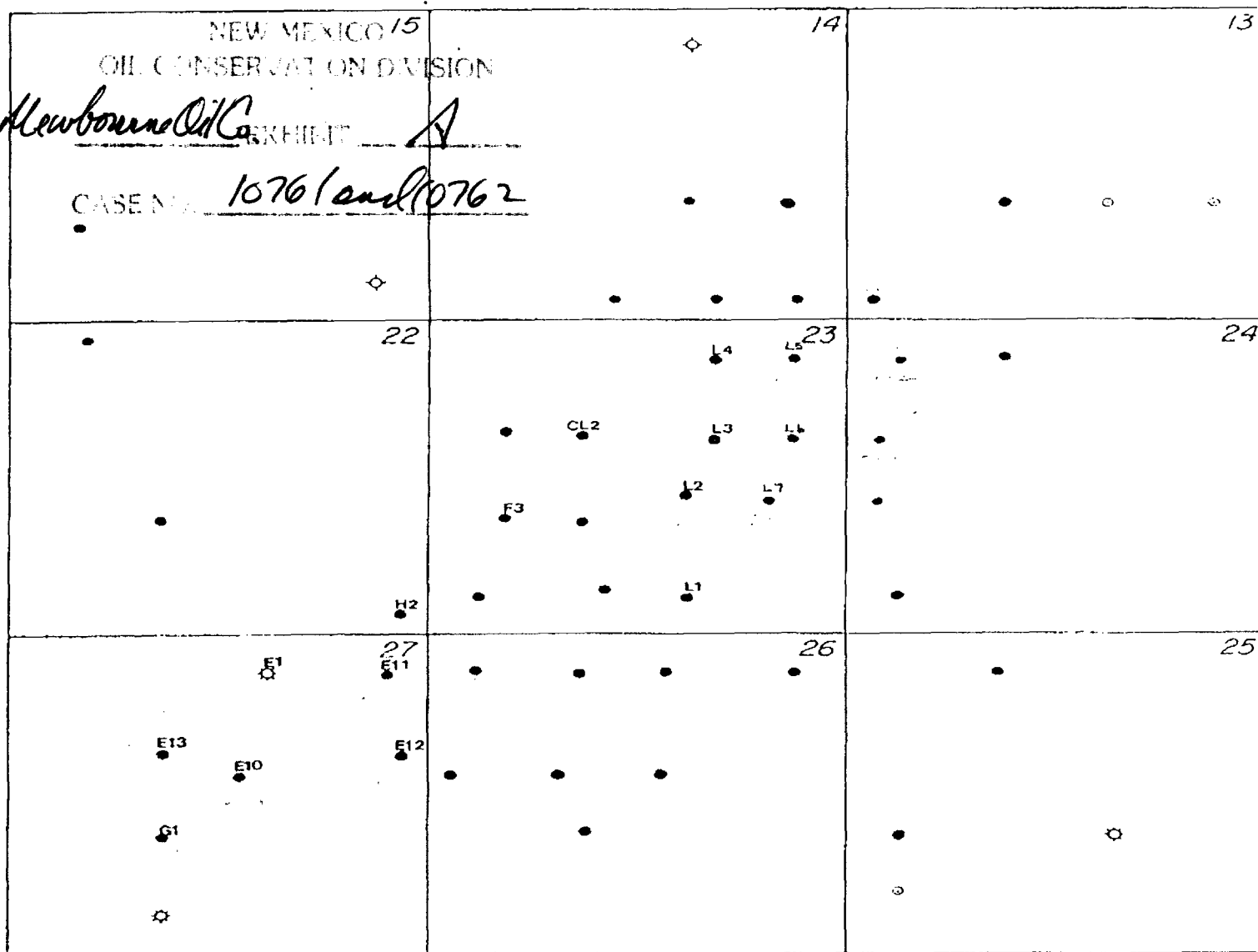
Enclosures

**VIA HAND DELIVERY**

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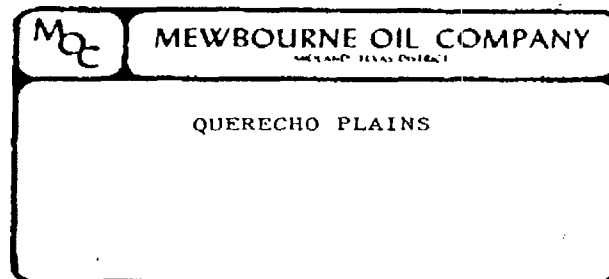
84 2 114 4 30 83.  
RECEIVED  
OIL CONSERVATION DIVISION  
NOV 11 1993

R 32 E



Leo Co., New Mexico

Scale 1" = 2000'



Note: Avg = .74

Note: Per Western Service Gelled water does not increase the  $\gamma$  of water.

GR 1000  
NOISING N. 1000

**MEWBOURNE OIL COMPANY**  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "M" Well No. 1 Location \_\_\_\_\_  
Section \_\_\_\_\_ Block \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
Survey \_\_\_\_\_ County \_\_\_\_\_ Lea \_\_\_\_\_ State \_\_\_\_\_ NM \_\_\_\_\_ Proposed Depth \_\_\_\_\_  
API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 6

DATE	DAILY REPORTS
MAR 23 1989	SITP 700#. Blew well down and started swabbing with IFL at 4200'. First swab run 100% oil. Swabbed well down to seat nipple. Made one swab run per hour for three hours. Had 400' of fluid entry per hour, 50% oil and 50% acid water. Recovered 12 bbls of oil and 8 bbls of acid water. Load left to recover 99 bbls. Loaded tubing with produced water and released packer. TOOH with tubing. SWIFN. DWC: \$2500, TWC: \$281,096.
MAR 24 1989	RU Western and fraced well down 5-1/2" casing with 70,000 gallons of gelled 2% KCL water Plus 78,750# of 20/40 Ottawa Sand plus 26,250# of 20/40 resin coated sand. Maximum PP 3850# at 40 BPM, minimum PP 3300# at 36 BPM, average PP 3500# at 55 BPM. ISDP 2650#, (5 min - 2480#, 10 min - 2400#, 15 min - 2350#). Total load to recover 1850 bbls. SWIFN. DWC: \$46,000, TWC: \$327,096.
TOP PERF 8424 ▽ <sub>c</sub> = .75	
MAR 25 1989	SICP 350#. Blew well down and RIH with tubing and packer. Set tubing with 12,000# of compression. Flanged up wellhead and started swabbing with IFL at surface. Swabbed 200 bbls of load water and 10 bbls of oil to battery. Small show of gas with each swab run. SWIFW. Tubing count as follows: Below KB 13.00' 261 - Joints 2-7/8", 6.5#, N-80 used tubing 8279.88' 1 - 2-7/8" seat nipple 1.10' 1 - 2-7/8" x 5-1/2" Otis perma-latch pkr. 5.58' Bottom of packer at 8299.56' DWC: \$3,000, TWC: \$330,096
MAR 26 1989	SITP 600#.
MAR 27 1989	SITP 1000#.
MAR 28 1989	SITP 1,000#. Open well up, well kicked off flowing, left well flowing, turned to battery. RD PU.
MAR 29 1989	33 BO, 230 BLW, 80# FTP, 24/64" choke. This is for 20 hours of production only.
MAR 30 1989	110 BO, 165 BLW, 162 MCF/D, 24/64" choke, 50# FTP.
MAR 31 1989	148 BO, 87 BLW, 163 MCF/D, 24/64" choke, 140# FTP.
MAR 1 1989	167 BO, 110 BLW, 162 MCF/D, 24/64" choke, 100# FTP.
MAR 2 1989	140 BO, 51 BLW, 147 MCF/D, 24/64" choke, 90# FTP.
MAR 3 1989	151 BO, 48 BLW, 140 MCF/D, 24/64" choke, 120# FTP.
MAR 4 1989	151 BO, 36 BLW, 176 MCF/D, 24/64" choke, 230# FTP.
MAR 5 1989	151 BO, 33 BLW, 172 MCF/D, 160# FTP, 24/64" choke.
MAR 6 1989	151 BO, 36 BLW, 176 MCF/D, 24/64" choke, 230# FTP.
MAR 7 1989	148 BO, 36 BLW, 150 MCF/D, 120# FTP, 24/64" choke.

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "H" Well No. 2 Location 330' FSL & 330' FEL  
Section 22 Block \_\_\_\_\_ Township 18S Range 32E  
Survey \_\_\_\_\_ County \_\_\_\_\_ Lea \_\_\_\_\_ State NM Proposed Depth 9100'  
API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 8

DATE

DAILY REPORTS

APRIL 2 1986

SITP 260#. Casing on vacuum. Released packer and TOOH with tubing. PU Halliburton RTTS packer and TIH with 2-7/8" tubing. Tested tubing in hole below slips to 7000#. Set packer at 8271' with 14,000# of compression. RU Halliburton and acidized Bone Springs perfs with 3000 gallons of 15% NE acid + 75 ball sealers. Had good ball action, did not ball out. Maximum PP 3600# at 5.7 BPM, minimum 2900# at 3.4 BPM, average 3300# at 4.9 BPM, ISIP 2400#, 5 minutes 2200#, 10 minutes 2000#, 15 minutes 1800#. Total load to recover 235 bbls. Blew well down and started swabbing with IFL at surface. Swabbed well down to 5000', recovered 30 BLW, load left to recover 205 bbls. of load and acid water. SWIFN. DWC: \$4734.

APRIL 3 1986

SITP 240#, IFL at 2500'. Swabbed well down to SN. Made 1 run/hour for 4 hours. Had 200' of fluid entry/hour. Fluid sample 1st run 70% acid water and 30% oil. Fluid sample last run 80% oil and 20% acid water. Load recovered 34 bbls. Short 171 bbls. of acid and load water. SWIFN. DWC: \$2890.

APRIL 4 1986

SITP 380#, IFL at 4700'. Had 3900' of fluid entry overnight. Swabbed well to SN. Fluid 95% oil, 5% acid water. Released RTTS and TOOH with tubing. RU Halliburton and frac'd Bone Springs perfs via 5-1/2" casing with gelled 2% KCL water as follows:

15,000 gallons of pad	
12,000 gallons at 1.0 PPG of 20/40 sand	11
11,000 gallons at 2.0 PPG of 20/40 sand	17
12,000 gallons at 3.0 PPG of 20/40 sand	36

Flushed to perfs with 2% KCL water. Maximum pressure 3500# at 34 BPM, minimum 2820# at 38 BPM, average 2970# at 36 BPM, ISIP 2480#, 5 minutes 2400#, 10 minutes 2360#, 15 minutes ~~2340#~~. SWIFN. RD Halliburton. Total load to recover 1399 bbls. DWC: \$20,250.

APRIL 5 1986

SICP 160#. Blew well down. PU Otis permalach packer and TIH with tubing. Set packer at 8271' with 14,000#, compression. ND BOP. Flanged up wellhead. RD R&O Well Service and RU Shockley Swabbing Service. Made 14 swab runs and well kicked off flowing. Left well flowing through tank battery overnight. Well flowing on 24/64" choke, 150# FTP at 9:00 P.M. Tubing count as follows:

	Below kelly bushing	8.00'
265 jts.	8rd EUE 6.50# tubing	8255.94'
1	2-7/8" SN	1.10'
1	2-7/8" x 2-3/8" x-over	.43'
1	2-3/8" x 5-1/2" Otis packer	6.08'
	Bottom packer @	8271.55'

DWC: \$6870

TOP PERF 8396

$\nabla_f = .74$

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "L" Well No. 3 Location \_\_\_\_\_  
Section \_\_\_\_\_ Block \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
Survey \_\_\_\_\_ County Lea State NM Proposed Depth \_\_\_\_\_  
API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 6

## DATE

## DAILY REPORTS

JUL 25 1987 SITP 400#. Blew well down and started swabbing with IFL at 4500' from surface. Had 3900' of fluid entry overnight. Swabbed well down to SN and made 1 run/hour for 6 hours. Had 400' of fluid entry/hour. Swabbed 22 BO and 4 bbls of acid water. SWIFN. DWC: \$1,000, TWC: \$310,958.

JUL 26 1987 SITP 425#. Blew well down and started swabbing with IFL at 4400' from surface. Had 4000' of fluid entry overnight. Swabbed well down to SN. Waited 1 hour and made swab run, had 400' of fluid entry. SWIFW. DWC: \$500, TWC: \$311,458.

JUL 27 1987 SITP 640#. Well SI for Sunday.

JUL 28 1987 SITP 780#. Opened well up on 32/64" choke, well flowed 1 hour and died. Swabbed well to SN. Made 1 run/hour for 3 hours with 400' of fluid entry. Fluid entry last hour 700'. Flowed and swabbed 16 BO to tank. Approx 10 BO went down gas sales line due to separator malfunction. SWIFN. DWC: \$1000.

JUL 29 1987 SITP 500#. Blew well down and started swabbing with IFL at 3000' from surface. Had 5400' of fluid entry overnight. Swabbed well down to SN. Loaded tubing with 2% KCL water. Released packer and TOOH with tubing. SWIFN. DWC: \$1000.

JUL 30 1987 SICP 0#. RU Welox and set EZ drill CIRP at 8585'. Perforated Upper Bone Springs from 8526'-30', 8502'-22', 8490'-98', 8446'-74', overall 60' with 64 holes. RD Welox. PU Guiberson Uni-VI packer and THH with tubing. Set packer at 8267' with 15,000# compression. NU wellhead and swab well down to SN with no show of oil or gas. SWIFN. DWC: \$9000.

JUL 31 1987 SITP 340#. Blew well down and started swabbing with IFL at 3500' from surface. Had 4700' of fluid entry overnight. Swabbed well down to SN, put 16 BO in tank. RU Western and acidized with 4000 gallons of 7-1/2% NF-FE acid + 110 ball sealers. Maximum PP 3000# at 4.2 BPM, minimum 2800# at 5.6 BPM, average 2900# at 5.5 BPM. Had limited ball action. Did not ball off. ISDP 1900#, 5 minutes 1100#, 10 minutes 500#, 15 minutes 100#. RD Western. Total load to recover 150 bbls. Swabbed well down to SN recovering 70 bbls of acid water. Last 2 runs had show of oil and gas. SWIFN. DWC: \$7000.

AUG 1 1987 SITP 650#. Opened well up. Flowed 1 hour and died. Swabbed on well 5-1/2 hours. Flowed and swabbed a total of 30 BO to tank. Loaded tubing with 2% KCL water. Released packer and TOOH with tubing. RU Western and fraced well with 64,000 gallons of gelled 2% KCL water carrying 92,000# 20/40 frac sand. Flushed to top perf with 10# brine water. Maximum PP 3150# at 38 BPM, minimum 2250# at 31 BPM, average 2450# at 37 BPM, ISDP 1650#, 5 minutes 1600#, 10 minutes 1675#, 15 minutes 1500#. SWI. RD Western. Total load to recover 1713 bbls. DWC: \$35,000.

T.P PERF 8446

 $\nabla_f = .71$

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "L" Well No. 6 Location \_\_\_\_\_  
Section \_\_\_\_\_ Block \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
Survey \_\_\_\_\_ County Lea State NM Proposed Depth \_\_\_\_\_  
API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 5

## DATE

## DAILY REPORTS

UG 23 1988 MI & RU completion unit. RU Welex and found plug at 8387'. Ran CBL. RD Welex. PU 4-3/4" bit and 6 3-1/2" DC's. Start in hole with 2-7/8" tubing. Ran 218 joints of tubing. SWIFN. DWC: \$25,640, TWC: \$240,986.

UG 24 1988 Continued in hole with tubing. Tagged plug at 8387' and drilled out cement to float collar at 8610'. Circ hole clean. RU Halliburton and displaced hole with 2% KCL water and spotted 250 gallons 10% acetic acid across interval to be perforated. RD Halliburton. TOOH with tubing and LDDC's and bit. SWIFN. DWC: \$6432, TWC: \$247,418.

UG 25 1988 RU Welex. Perforated Bone Springs from 8492'-8520', 28', 29 holes, 8472'-8484', 12', 13 holes, 8436'-8460', 24', 25 holes, overall 64', 67 holes. RD Welex. PU Otis Perma-lach packer and TIH with tubing. Set packer at 8354' with 15,000# compression. NU wellhead and started swabbing with IFL 100' from surface. Swabbed well down to SN with no show of oil or gas. SWIFN. DWC: \$5800, TWC: \$253,218.

UG 26 1988 SITP 20#. Found IFL at 2788' from surface. Had 500' of fluid entry overnight. Fluid was oil and acetic acid. Swabbed well down to SN. RU Halliburton and acidized with 6500 gallons 7-1/2% Ne-Fe acid + 100 ball sealers. FBP 3000#, maximum PP 3000# at 3 BPM, minimum 2600# at 3 BPM, average 2900# at 5 BPM. Had ball action, did not ball off. ISIP 2000#, 5 minutes 1800#, 10 minutes 1400#, 15 minutes 1000#. RD Halliburton. Total load to recover 261 bbls. Blew well down and started swabbing with IFL at surface. Swbbed well down to SN. Waited 1 hour and made swab run, had 400' of fluid entry, fluid cut 5% oil and 95% acid water. Made 1 run/hour for 2 hour, had 400' of entry each run, fluid cut increasing to 10% oil and 90% acid water. Recovered 2 BO and 60 bbls of acid water. Load left to recover 201 bbls of acid water. SWIFN. DWC: \$9684, TWC: \$262,902.

UG 27 1988 SITP 100#. Blew well down and started swabbing with IFL 6000' from surface. Swabbed well down to SN. Recovered 5 BO and 9 bbls of acid water. Loaded tubing with formation water, released packer and TOOH with tubing. RU Halliburton and fraced well with 80,000 gallons gelled 2% KCL water + 90,000# 20/40 Ottawa sand + 30,000# Super H5 resin coated sand. Maximum PP 3520# at 57 BPM, minimum 3060# at 57 BPM, average 3270# at 57 BPM. ISIP 2600#, 5 minutes 2500#, 10 minutes 2440#, 15 minutes 2400#. Total load to recover 2341 bbls. SWIFW. DWC: \$47,460, TWC: \$310,362.

UG 28 1988 SDFW.

UG 29 1988 SDFW.

TOP F&amp;KF 8456

V<sub>f</sub> = .75



MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "L" Well No. 7 Location \_\_\_\_\_  
Section \_\_\_\_\_ Block \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
Survey \_\_\_\_\_ County \_\_\_\_\_ Lea \_\_\_\_\_ State NM \_\_\_\_\_ Proposed Depth \_\_\_\_\_  
API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 5

## DATE

## DAILY REPORTS

JUNE 10 1988

1 2-7/8 x 5-1/2" Otis perma-lach 6.00'  
packer  
1 2-7/8" SN 1.10'  
267 jts 2-7/8" 6.5# J-55 8407.56'  
Total 8414.66'  
KB Correction 6.00'  
Set @ 8420.66'

Set packer with 12 points compression. RU and started swabbing to pit. Swabbed tubing dry to SN in 8 runs. Recovered est 50 BW. RU Western and acidized Bone Springs from 8485'-8552' with 5000 gallons 7-1/2% NE-FE acid and dropped 100 7/8" ball scalers. BDP - 3400#, maximum pressure 3400# at 5.7 BPM, minimum 3000# at 5.2 BPM, average 3200# at 5.2 BPM. ISDP 1900#, 5 minutes 1700#, 10 minutes 1200#, 15 minutes 750#, 25 minutes 0#. Had ball action. Did not ball out. RD Western. Blew well down and started swabbing to pit. IFL at surface. Swabbed a total of 42 BW. PFL at 4500'. No shows of oil or gas. Load left to recover 129 bbls. SWI & SDO. DWC: \$18,000, TWC: \$284,041.

JUNE 11 1988

Slight blow on tubing. IFL 3000' from surface. Trace of oil on 1st swab run. Had 1500' of fluid entry overnight. Swabbed tubing dry to SN in 9 runs. Sample 20% oil and 80% acid water. Waited 1 hour between swab runs. Had 200'-300' fluid entry/hour. Last sample 35% oil and 65% acid water. Good show of gas during swab run and a continuous blow on tubing. Swabbed 2 BO and 50 bbls acid water. Load left to recover 79 bbls. SWI & SDO. DWC: \$4300, TWC: \$288,341.

JUNE 12 1988

SITP 400#. Blew well down and RU to swab. IFL 4000' and scattered to 5400'. Sample 100% oil. Released packer and TOOH with tubing and packer. RU Halliburton and fraced Bone Springs from 8485'-8552' with 80,000 gallons (Versagel) 1400 carrying 111,000# 20/40 sand with sand concentrations from 1 ppg to 3 ppg through 5-1/2" casing. Flushed with 8300 gallons slick 10 ppg brine. Average IP 3130# at 50 BPM, maximum 3650# at 50 BPM, minimum 2140# at 50 BPM. ISIP 2250#, 5 minutes 2160#, 10 minutes 2140#, 15 minutes 2100#. RD Halliburton. SWI & SDO. DWC: \$40,000, TWC: \$328,341.

JUNE 13 1988

SWIFW.

Top Perf 8485  
76 = .78

JUNE 14 1988

Casing on vacuum. RIH with tubing string as follows:

1 2-7/8" x 5-1/2" Otis Perma-lach 6.00'  
packer  
1 2-7/8" SN 1.10'  
267 jts 2-7/8" 6.5# J-55 8rd 8407.56'  
Total 8414.66'  
KB Correction 9.00'  
Set @ 8423.66'

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "L" Well No. 2 Location 2310' FSL & 1980' FEL  
Section 23 Block \_\_\_\_\_ Township 18S Range 23E  
Survey \_\_\_\_\_ County Lea State NM Proposed Depth \_\_\_\_\_  
API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 6

DATE

DAILY REPORTS

NOV 13 1986

SICP O#. Started PU and testing tubing in hole to 7000# below slips. SD due to high wind. SWIFN. DWC: \$1065, TWC: \$212,172.

NOV 14 1986

SICP O#. Continued testing tubing in hole. Found 2 collar leaks. Set Guiberson Uni-Packer VI at 8359' KB with 15 points compression. Flanged up wellhead. RU Western and acidized Bone Spring with 4000 gallons 7-1/2% HCL, dropping 70 ball scalers. Balled out with 57 balls on perfs. Flushed with 57 bbls. 2% KCL water. FBDP 3400#-2600#. Minimum 2600#, maximum 3800#, average 2800# at 4.0 BPM. ISDP 1750#, 15 minutes 1500#. SWIFN. Load 227 bbls. Tubing as follows:

	KB Correction	6.00'
282 jts.	2-7/8" 6.5# 8rd J-55 EUE	8344.85'
1	2-7/8" SN	1.10'
1	Guiberson Uni-packer VI set with 15 points compression	7.50'
	Set @	8359.45'

DWC: \$4630, TWC: \$216,802.

NOV 15 1986

Casing and tubing on vacuum. FL 1200', swabbed well down to SN in 18 runs. Had show of oil and gas after recovering 35-40 bbls. of fluid. Oil increased to 60+% with strong gas blow on and after swab. Had 900' of entry 1 hour after well was swabbed down. Recovered 55-60 bbls. fluid for the day.

NOV 16 1986

SITP 300#, CP vacuum. Well blew down in 20 minutes. FL 3300', recovered 3 BO. ND wellhead and NU BOP. Release packer and POOH with tubing. ND BOP and NU Western to frac with 50,000 (Mini-Max III-40) gel carrying 70,000# 20/40 sand. Pumped as follows:

STAGE	VOLUME	SAND	PRESSURE	RATE
Pad	15,000	-0-	3100#	37 BPM
1	12,000	1 PPG	3100#	37 BPM
On form			2950#	37 BPM
2	11,000	2 PPG	2950#	37 BPM
On form			2900#	37 BPM
3	1,200	3 PPG	2900#	37 BPM
On form			2550#	37 BPM
Flush	8,250 slick H <sub>2</sub> O		3000#	28 BPM

ISDP 2400#, 5 minutes SI 2350#, 10 minutes SI 2300#, 15 minutes SI 2300#, average 2950#, maximum 3350#, minimum 2200#. Average rate 35.6 BPM. Total fluid to recover 1392 bbls. RD Western. SWIFN. DWC: 12,010, TWC: \$228,812.

TOP PERF 8458

▽ - .72

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "L" Well No. 1 Location 660' FSL & 1980' FEL  
Section 23 Block          Township 18S Range 32E  
Survey          County Lea State NM Proposed Depth 8970'  
API No.          Permit No.          Permit Date          Acreage           
Drilling Contractor          Rig No.          Page 6

DATE

DAILY REPORTS

MAY 21 1986

1 2-7/8" x 5-1/2" RTTS 7.33'  
1 2-7/8" mech SN .70'  
268 jts. 2-7/8" tubing 8345.74'  
Total 8353.77'  
Packer 8356.47'

Packer set with 15 points compression. NU tree and SIFN. DWC: \$8686.

MAY 22 1986

SITP 0#, CP 0#, FL 100'. Swabbed well down to 5800'. FL next run 5300' with good show of oil and strong gas blow after swab. Last run before acid FL 4300', recovering 4 bbls 25% oil. RU Western to acidize with 4000 gallons NE-FE HCL acid, 60 RCN ball sealers and flush with 52.5 bbls. 2% KCL water. Pressured casing to 1000#. Hole loaded with 35 bbls. Initial pump in pressure 3800 psi at 2 BPM, broke to 3300 psi at 3-1/2 BPM. Average rate 5 BPM at 3500 psi. Balled out at 5000 psi with 127 bbls. pumped. Surge balls and finish flush. ISIP 2300#, 5 minutes 1700#, 10 minutes 1050#, 15 minutes 600#. Total load to recover 148 bbls. RU to swab to test tank.

FL at surface.  
FL 5300' 1st show of oil, recovered 55 BLW.  
FL 5000' and scattered, recovered 11 BW and 2.5 BO strong gas.  
FL 5000' and scattered, recovered 15 BW and 7 BO strong gas.  
FL 6000' and scattered, recovered 1.5 BW and 10 BO strong gas.  
FL 6000' and scattered, recovered 1 BW and 6 BO strong gas.  
FL 7300' and scattered, recovered 1 BW and 6 BO strong gas.

SIFN. Recovered 84.5 BW and 31.5 BO after acid job. Load left to recover 63.5 BW. DWC: \$18,189, TWC: \$298,585, TCC: \$26,875.

MAY 23 1986

SITP 850#. Opened well up, flowed 1 hour and died. Recovered 20 BO and 3 bbls. acid water. Loaded tubing with 2% KCL water, released RTTS packer and TOOH with tubing. RU Western and frac'd Bone Springs with 50,000 gallons gelled 2% KCL water + 70,000# 20/40 frac sand. Minimum PP 2700# at 27 BPM, maximum 3150# at 32 BPM, average 2900# at 30.4 BPM, ISIP 2500#, 5 minutes 2350#, 10 minutes 2300#, 15 minutes 2250#. Total load to recover 1433 BW. SWIFN. DWC: \$12,200, TWC: \$310,785, TCC: \$65,950.

TOP PERF 8474

▽ = .74

**MEWBOURNE OIL COMPANY**  
**P. O. BOX 7698**  
**TYLER, TEXAS 75711**

Lease FEDERAL "P" Well No. 1 Location \_\_\_\_\_  
 Section \_\_\_\_\_ Block \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
 Survey \_\_\_\_\_ County Lea State NM Proposed Depth \_\_\_\_\_  
 API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
 Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 6

**DATE****DAILY REPORTS**

MAY 3 1989

SITP vacuum. Started swabbing with IFL at 800' from surface. Swabbed well down to seat nipple. Made 1 run per hour for three hours, had 250' of fluid entry per hour. Recovering 95% acid water and 5% oil. Recovered 48 bbls of acid water, load left to recover, 120 bbls. SWIFN. DWC: \$2500, TWC: \$286,304.

AY 4 1989

SITP 250#. Blew well down and started swabbing with IFL 6800' from surface. First run 100% oil, swabbed well down to SN. Loaded tubing with 2% KCL water and released packer, TOOH with tubing. RU Western and fraced well down 5-1/2" casing with 65,000 gallons of gelled 2% KCL water + 72,000# of 20-40 Ottawa sand + 24,000# of 20-40 resin coated sand. Maximum pressure 3300# at 30 BPM, minimum pressure 2600# at 40 BPM, average pressure 3,000# at 40 BPM. ISDP 2400#, 15 minutes, 2300#. Total load to recover 1970 bbls. SWIFN, RD Western. DWC: \$40,000, TWC: \$326,304.

TOP PERF 8473

V<sub>f</sub> = .72

AY 5 1989

SICP 50#. Blew well down and RIH with Otis perma-lach packer and tubing. NU wellhead and set packer at 8427' with 12,000# compression. Started swabbing with IFL at surface. Swabbed 250 BLW and 10 BO, FFL 2000' from surface. SWIFN. DWC: \$5000, TWC: \$33,304. Tubing count as follows:

		KB Correction	16.00'
258 jts	2-7/8" 6.5# J-55 used tubing		8404.74'
1	2-7/8" SN		1.10'
1	2-7/8" x 5-1/2" Otis packer		5.58'
	Btm packer		8427.42'

AY 6 1989

SITP 250#. Blew well down and started swabbing with IFL 800' from surface. Swabbed 110 BW and 20 BO. Final fluid level 3,000' from surface. RD pulling unit. SWIFN. DWC: \$1600, TWC: \$332,904.

AY 7 1989

MIRU swabbing unit. SITP 460#. Blew well down and started swabbing with IFL at 800' from surface. Swabbed 113 BW and 22 BO. FFL at 1600' from surface. SWIFN. DWC: \$900, TWC: \$333,804.

AY 8 1989

SITP 500#. Shut-in for Sunday.

AY 9 1989

SITP 660#. Opened well up on 24/64" choke. Flowed one hour and died. Started swabbing with IFL at 1100' from surface. Swabbed a total of 50 BO and 107 BW. FFL at 2600' from surface. SWIFN. DWC: \$900, TWC: \$334,704.

AY 10 1989

SITP 500#. Opened well up, flowed 30 minutes and died. Started swabbing with IFL 1100' from surface. Swabbed 45 BO and 135 BW. FFL @ 2800' from surface. Left well open to battery overnight. DWC: \$900, TWC: \$335,604.

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "E" Well No. 11 Location 660' FNL & 330' FEL  
Section 27 Block          Township 18S Range 32E  
Survey          County Lea State NM Proposed Depth           
API No.          Permit No.          Permit Date          Acreage           
Drilling Contractor Sierra Rig No. 2 Page 6

DATE

DAILY REPORTS

JAN 15 1986

SITP 750#. Casing on slight vacuum. Opened on choke and well kicked off flowing in heads. Killed well with 2% KCL water. Released packer. Circ. hole to balance tubing and casing. Started out with tubing. Packer stuck at 1413'. Worked packer loose by jarring down and pulling 72 points over string weight. Pulled 1 stand with slight drag and packer freed up. Continued POOH with tubing. Left 19 stands in hole. SWIFN. DWC: \$1770, TWC: \$339,906.

Load 335, recovered 150.

JAN 16 1986

SITP 55#. Blew well down. Finish out of hole with tubing and packer. Found friction pad set screws loosened and assembly sheared. PU new Uni-Packer VI on 263 joints of 2-7/8" tubing and tested in hole to 7500# below slips. Found 1 collar leak. Set packer with 15 points compression. Flanged up wellhead. Started swabbing with IFL at surface. Swabbed well down to 7800' in 9 runs. SWIFN. Load 335 bbls. Recovered 210 bbls. DWC: \$3076, TWC: \$342,982. Tubing record as follows:

		KB Correction	11.67'
263 jts.	2-7/8" 6.5# 8rd N-80 EUE		8338.38'
1	2-7/8" SN		1.10'
1	2-7/8" x 5-1/2" Uni-packer VI		7.50'
	with 15 points compression		
	Packer set @		8358.65'

JAN 17 1986

SITP 220#. Blew down. RU swab with IFL at 5600'. Swabbed down to SN in 3 runs, 4th run dry. SD to spool on new sand line. RU Western and acidized Bone Spring from 8450'-86' with 1500 gallons 7-1/2% DS-30 HCL as follows: 5 bbls. AC, 14 stages of 4 7/8" RCNB's and 2 bbls. AC, 3 bbls. AC and flushed with 52 bbls. KCL water. Balled out with 48 balls on perfs. Minimum 3400#, maximum 5100#, average injection rate 5.0 BPM at 3800#, ISDP 1600#, 5 minutes 1400#, 10 minutes 1100#, 15 minutes 600#. Released pressure. RU swab with FL at surface. Swabbing from SN on 7th run. Made 9 runs total recovering 40 BW with trace AC water and oil. SWIFN. CORRECTED - load 297 recovered 265. DWC: \$6628, TCC: \$56,948.

JAN 18 1986

SITP 360#. Blew well down. Started swabbing with IFL at 4100'. Swabbed from SN on 6th run. Made 11 runs recovering 26 bbls. with show of oil. RU Western to frac with 40,000 gallons Mini-Max III-40 containing 58,000# 20/40 sand as follows: 12,000 gallons pad, 8,000 gallons with 1 PPG sand, 10,000 gallons with 2 PPG sand, 10,000 gallons with 3 PPG sand and flush with 61 bbls. slicked 2% KCL water. Minimum 4800#, maximum 5400#. AIR 12 BPM at 5100#, ISDP 3050#, 5 minutes 2950#, 10 minutes 2900#, 15 minutes 2800#. SWIFN. Load 1313, recovered 291. DWC: \$17,903, TWC: \$74,851.

TOP PERF 8360'

✓ 6 - .80

END

1-27-86

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "E" Well No. 13 Location \_\_\_\_\_  
Section \_\_\_\_\_ Block \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
Survey \_\_\_\_\_ County \_\_\_\_\_ Lea \_\_\_\_\_ State \_\_\_\_\_ NM \_\_\_\_\_ Proposed Depth \_\_\_\_\_  
API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 6

DATE	DAILY REPORTS																																																
SEP 25 1987	SITP vacuum. Released packer and POOH with tubing. Unloaded and racked 280 joints of 3-1/2" frac tubing. Changed out BOP rams. PU Western SD-1 packer and started running 3-1/2" tubing. Ran 78 joints. SDFN. DWC: \$5000.																																																
SEP 26 1987	Continued RIH with 3-1/2" frac tubing. Tested in hole below slips to 8000#. RIH with 267 joints. Set packer at 873' KB with 24,000# compression. RU Western and acidized Upper Hone Springs with 3000 gallons 7-1/2% NE-PE acid + 45 ball sealers. FBP 3400#, maximum 3250# at 4.8 BPM, maximum 2550# at 5.0 BPM, average 2700# at 5.0 BPM, ISDP 2500#, 5 minutes 2350#, 10 minutes 2250#, 15 minutes 2150#. Had good ball action, did not ball off. Load to recover 212 bbls. SWIFN. DWC: \$5691, TWC: \$356,685.																																																
SEP 27 1987	SITP vacuum, IFL at 800'. Swabbed 10 hours and recovered 82 bbls of load water. FFL at 5800'. Show of gas last 2 hours of swabbing, no show of oil. SWIFN. DWC: \$1500, TWC: \$358,185.																																																
SEP 28 1987	SD for Sunday.																																																
SEP 29 1987	SITP 75#. IFL 5100' from surface. 1st run 100% water. Swabbed well down to SN. Last 5 runs had 20% oil and 80% acid water. Waited 1 hour and made swab run, had 200' of fluid. RU Western and frac'd well down 3-1/2" frac tubing with 40,000 gallons of gelled 2% KCL water carrying 56,000# of 20/40 frac sand. MAXIMUM PP 6700# at 26 BPM, minimum 5400# at 32.3 BPM, average 5800# at 31.7 BPM, ISDP 2050#, 5 minutes 1920#, 10 minutes 1820#, 15 minutes 1780#. Load to recover 1026 bbls. SWIFN. DWC: \$28,000, TWC: \$386,185.																																																
SEP 30 1987	SITP vacuum. Released packer and LD 267 joints of 3-1/2" frac tubing. Changed out BOP rams from 3-1/2" to 2-7/8". PU Guiberson Uni-VI packer and TIH with tubing. Tested tubing in hole below slips to 6000#. Set packer at 8347' with 14,000# compression. ND BOP and NU wellhead. SWIFN. DWC: \$3956, TWC: \$390,141. Tubing count as follows:  <table><tr><td>258 jts</td><td>2-7/8"</td><td>6.5#</td><td>N-80</td><td>8rd</td><td>EUE</td><td>used</td><td>8325.50'</td></tr><tr><td>1</td><td>2-7/8"</td><td></td><td>SN</td><td></td><td></td><td></td><td>1.10'</td></tr><tr><td>1</td><td>2-7/8"</td><td></td><td>x</td><td>5-1/2"</td><td></td><td>packer</td><td>7.20'</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>Total</td><td>8333.80'</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>KB Correction</td><td>14.00'</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>Total</td><td>8347.80'</td></tr></table>	258 jts	2-7/8"	6.5#	N-80	8rd	EUE	used	8325.50'	1	2-7/8"		SN				1.10'	1	2-7/8"		x	5-1/2"		packer	7.20'							Total	8333.80'							KB Correction	14.00'							Total	8347.80'
258 jts	2-7/8"	6.5#	N-80	8rd	EUE	used	8325.50'																																										
1	2-7/8"		SN				1.10'																																										
1	2-7/8"		x	5-1/2"		packer	7.20'																																										
						Total	8333.80'																																										
						KB Correction	14.00'																																										
						Total	8347.80'																																										

Turnover 8504  
Df - .68

Post-It™ brand fax transmittal memo 7871						# of pages =	
To	Jim Bruce					From Kevin Mayes	
Co.						Co.	
Dept.						Phone #	
Fax #						Fax #	

For POF 8504  
Vf - .68

Post-It™ brand fax transmittal memo 7671 # of pages 1

To <u>Jim Bines</u>	From <u>Kevin Hayes</u>
Co. _____	Co. _____
Dept. _____	Phone # _____
Fax # _____	Fax # _____

NEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "E" Well No. 10 Location 2310' FS&EL  
Section 27 Block Township 18S Range 32E  
Survey County Lea State N.M. Proposed Depth 9000'  
API No. Permit No. Permit Date Acreage  
Drilling Contractor TAHOE DRILLING CO. Rig No. 4 Page 5

DATE	DAILY REPORTS
JUN 27 1985	Tripped for bit. Continued drilling cement from 8208'-8559' KB. Circ. hole clean. SDFN. DWC: \$3268, TWC: \$380,021.
JUN 28 1985	WIH with bit and scraper. Drilled cement from 8554-8945' KB. Tagged up on metal and rubber. Could not drill with blade bit. Picked up 8' and spotted 16 bbls KCL water. POH to spot acid at 8529' KB. Circulated hole with 2% KCL water spotting 250 gals Acetic acid at 8529' KB. POH with 2-7/8" tubing. RU Welex. Tagged PBTD at 8932' KB. Ran cement bond log, GR, OCL from TD to 2660' KB. SDFN. DWC: \$2750, TWC: \$13,139.
JUN 29 1985	NU BOP. Welex perforated Bone Springs 8501-8530', 1 SPF for 30 holes. WIH with RTTS packer, SN, 287 jts tubing. Set packer at 8297' KB. ND BOP and flanged well up. Loaded backside and pressured to 800#. Broke well down with acetic acid. IDBP 3000#. Pumped into formation at 1.2 BPM at 1800#. RU swab. Well swabbed down in 5 runs. Fluid level staying 1000' above SN. Last 2 runs recovered 10-15% oil, 10-20% drilling fluid, 60-80% load water. Had consistent, slight gas blow. RU Halliburton to acidize with 5000 gals 15% NE-TE acid. Ran 60 RCNH. Avg. rate 4 BPM at 2400#. Increased on flush to maximum rate of 4.9 BPM at 2600-2900#. Did not ball out. ISDP 1900#, in 5 min 1400#, in 10 min 1000#, in 15 min 700#. RD Halliburton. RU swab. Made 3 runs. Fluid level at 3800'. SDFN. Total load: 200 BLW. DWC: \$8900, TWC: \$22,039.
JUN 30 1985	Well on vacuum. IFL at 2300'. Well swabbed down in 5 runs. Fluid remaining 300-500' above SN. Recovered approximately 5 BLW. Last few runs recovered 100-200' fluid with 20-30% oil cut. Have consistent fair flow of gas. 150 BLW to recover. DC: \$1461. TWC: \$23,500. SDFN.
JUL 1 1985	Shut down for Sunday.
JUL 2 1985	ITP 260#. Bled well down. WIH with swab. Had scattered fluid to 6000'. Well swabbed dry in 3 runs. Swabbing 40-60% oil. NU BOP. POH with RTTS packer and tubing. ND BOP. <u>RU Halliburton to frac Bone Springs 8501-30' with 42,000 gallons Pure Gel (30#) with 29,400# 20/40 sand + 67,000# 10/20 sand.</u> Fraced as follows:  6000 gals Pre-Pad with 1 drum National XPC in lead. 7000 gals Xlinked pad @ 30 BPM @ 2900# 5000 gals 1 ppg 20/40 sand @ 30 BPM @ 2360# 5000 gals 2 ppg 20/40 sand @ 30 BPM @ 2270# 5800 gals 3 ppg 20/40 sand @ 30 BPM @ 2220# 10000 gals 4 ppg 12/20 sand @ 30 BPM @ 2280# 6260 gals 5 ppg 12/20 sand @ 30 BPM @ 2390# 9170 gals gelled flush @ 29 BPM @ 2580-3300#  ISIP 2310#, in 5 mins 2230#, in 10 mins 2180#, in 15 mins 2130#. Total load for this job: 1437 bbls. Total load left: 1587 BLW. Shut well in & SDFN. DC: \$31,270. TCC: \$54,770. TWC: \$424,102.

Total Per F 8501

$\nabla_c = .71$

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "E" Well No. 12 Location 1980' FNL & 660' FEL  
Section 27 Block          Township 18S Range 32E  
Survey          County Lea State NM Proposed Depth 9000'  
API No.          Permit No.          Permit Date          Acreage           
Drilling Contractor Peterson Rig No. 4 Page      &     

## DATE

## DAILY REPORTS

APRIL 23 1986

SITP 0#, CP 0#. PU 6 joints of 2-7/8" tubing and 20 2-7/8" pup joints and GIH. ND BOP and set RTTS between perfs at 8470'-86' and 8500'-32' to acidize lower perfs. Tree out. Packer set at 8494' with 14 points compression. RU Howco to acidize with 3000 gallons 15% HCL, 60 RCN ball sealers and 52 bbls. flush. Load casing, test lines and start down tubing. Had communication between perf with 5 bbls. gone at 1000#. RD Howco. Released RTTS and POOH with 5 joints tubing and pup joints. Reset RTTS at 8324' and tree out. RU Howco to acidize. Dropped 25 balls in 1st 200 gallons. Ball off upper interval with 30 balls on formation at 5000 psi at 2 BPM. Lower interval broke back to 3-1/2 BPM at 3400 psi. Average rate 3.8 BPM at 2800 psi, ball off lower perf with total of 70 balls on formation at 4000 psi. Had apparent high pressure collar leak. CP went to 2000 psi. Bled casing off after surging balls. Resumed pumping at 3.3 BPM at 2300# until acid was flushed. ISIP 1900#, 5 minutes 1900#, 10 minutes 1800#, 15 minutes 1700#. RD Howco and RU to swab. Total load to recover 175 BW. Well swabbed down with 60 BLW recovered. Show of oil and gas. SD and waited 1 hour. Had 1100' entry. Recovered 75 bbls. for the day. Last run 30%+ oil and had strong gas blow after swab. SWIFN. DWC: \$5780.

APRIL 24 1986

SITP 600#, blew well down and started swabbing with IFL scattered. Swabbed well down to SN. Made 1 run/hour for 4 hours with 1000' of fluid entry/hour. Recovered 16 BO and 21 bbls. of acid water. SWIFN. Short 79 bbls. of acid water. DWC: \$1240.

APRIL 25 1986

SITP 800#, CP 0#. Blew well down. ND tree, unset RTTS, NU BOP and TOOH with tubing. ND BOP and RU Howco to frac down casing with 50,000 gallons My-T-Gel and 70,000# 20/40 sand. Pumped as follows:

STAGE	VOLUME	FLUID/SAND	PRESS	RATE
1	15,000	Pad	3800#	35.0 BPM
2	12,000	1 PPG	2640#	36.4 BPM
3	11,000	2 PPG	2540#	36.9 BPM
4	12,000	3 PPG	2425#	34.5 BPM
5	8,100	Slick water flush	2950#	31.5 BPM

ISIP 2260 psi, 5 minutes 2200#, 10 minutes 2100#, 15 minutes 2060#. Total load to recover 1384 bbls. Average rate 35.5 BPM, average 2625, maximum 3050. TWC: \$27,810.

TOT PERK 8470'

✓ 71



MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease Federal "G" Well No. 1 Location 1980' FWL 7 1980' FSL  
Section 27 Block        Township 18S Range 32E  
Survey        County Lea State NM Proposed Depth         
API No.        Permit No.        Permit Date        Acreage         
Drilling Contractor        Rig No.        Page 20

## DATE

## DAILY REPORTS

FEB 3 1984	8 BO, 114 BLW.
FEB 4 1984	33 BO, 11 BLW, 29 MCF/D.
FEB 5 1984	28 BO, 22 BLW, 34 MCF/D.
FEB 6 1984	25 BO, 11 BLW, 38 MCF/D.
FEB 7 1984	37 BO, 11 BLW, 41 MCF/D.
FEB 8 1984	32 BO, 5 BW, 37 MCF/D.
FEB 9 1984	27 BO, 11 BW, 38 MCF/D.
FEB 10 1984	48 BO, 5 BW, 46 MCF/D.
FEB 11 1984	43 BO, 11 BW, 45 MCF/D.
FEB 12 1984	44 BO, 6 BW, 82 MCF/D.
FEB 13 1984	41 BO, 11 BW, 82 MCF/D.
FEB 14 1984	39 BO, 0 BW, 55 MCF/D, MIRU R & O. POH with rods and tubing. SDFN. Daily cost \$726.
FEB 15 1984	<p><i>your gel</i></p> <p>RU Western to Trac Bone Springs sand 8506'-38' with 40,000 gals Mini-Max 111-30, with 27,000# 20/40 + 55,000# 12/20 sand. Ran 150 bbls. gelled water prepad, 150 bbls. X-link gelled pad. Ran sand in concentrations of 1 PPG, 2 PPG, 3 PPG on 20/40 sand and 4 PPG + 5 PPG on 12/20 sand. AIR - 25 BPM, pressure - minimum 2800#, maximum 3800#, average 3400#, ISDP 2700#, 5 minutes 2500#, 10 minutes 2450#, 15 minutes 2400#. Shut well in. Total load 1200 BLW. Daily cost \$33,000, Accl. cost \$111,028.</p>
FEB 16 1984	<p>SICP 0#. RIH with tubing, set TA with 14 pts. tension. NU wellhead. Ran pump and rods. Hung well on. RD PU. Ran tubing as follows:</p> <p style="text-align: right;"><i>Top pad @ 8506'</i> <i>V<sub>f</sub> = .76</i></p> <p>275 2-7/8" 6.5# 8rd J-55 EUE 1 2-7/8" x 5-1/2" TA 8 2-7/8" 6.5# J-55 EUE 1 2-7/8" seating nipple - set at 8653' GL 1 2-7/8" polished sub 1 2-7/8" 6.5# 8rd J-55 EUE 1 2-7/8" BP</p> <p>Bottom of tubing at 8689' GL. Ran rods as follows:</p> <p>1 1-1/2" x 26' PR 1 1" x 2' sub 1 1" x 4' sub 1 1" x 6' sub 93 1" rods 92 7/8" rods 52 7/8" rods 93 3/4" rods 13 1" rods 1 2-1/2" x 1-1/4" x 25' RHBC.</p> <p>CIBP at 8800' KB with 15' cement on top.</p>

## MEWBOURNE OIL COMPANY

P. O. BOX 7698

TYLER, TEXAS 75711

Lease FEDERAL "L" Well No. 4 Location \_\_\_\_\_  
 Section \_\_\_\_\_ Block \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
 Survey \_\_\_\_\_ County Lea State NM Proposed Depth \_\_\_\_\_  
 API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
 Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 7

## DATE

## DAILY REPORTS

DEC 9 1987

RU Western and fraced well down 5-1/2" casing with 60,000 gallons gelled 2% KCL water carrying 84,000# 20/40 frac sand. Maximum IP 3500# at 42 BPM, minimum 2450# at 37 BPM, average 2800# at 40 BPM, ISDP 2100#, 5 minutes 1980#, 10 minutes 1950#, 15 minutes 1930#. RD Western. Left well SI overnight. Total load to recover 1734 bbls. DWC: \$30,000, TWC: \$348,491.

DEC 10 1987

SICP vacuum. RIH with packer and tubing. Set packer at 8387' with 13,000# compression. NU wellhead and started swabbing with IFL at surface. Swabbed 91 BLW and well kicked off flowing in heads. Left well flowing to tank battery. At 8:00 P.M. 12/9/87 60# FTP, 24/64" choke. DWC: \$2000, TWC: \$350,491. Tubing count as follows:

269 jts	2-7/8" 6.5# N-80 used	8363.54'
1	2-7/8" SN	1.10'
1	2-7/8" x 5-1/2" Guiberson Uni-VI packer	7.80'
Total		8372.44'
KB Correction		15.50'
Set @		8387.94'

DEC 11 1987

80 BO, 225 BLW, 136 MCF/D, 300# FTP, 24/64" choke, 15 hours production.

DEC 12 1987

417 BO, 264 BLW, 483 MCF/D, 24/64" choke, 410# FTP.

DEC 13 1987

545 BO, 150 BLW, 480 MCF/D, 24/64" choke, 425# FTP.

DEC 14 1987

537 BO, 204 BLW, 480 MCF/D, 24/64" choke, 450# FTP.

DEC 15 1987

542 BO, 115 BLW, 480 MCF/D, 24/64" choke, 450# FTP.

DEC 16 1987

329 BO, 35 BLW, 336 MCF/D, choke froze off.

DEC 17 1987

545 BO, 72 BW, 480 MCF/D, 24/64" choke, 480# FTP.

DEC 18 1987

550 BO, 78 BLW, 528 MCF/D, 24/64" choke, 450# FTP.

DEC 19 1987

480 BO, 75 BW, 554 MCF/D, 24/64" choke, 500# FTP.

DEC 20 1987

528 BO, 75 BLW, 564 MCF/D, 24/64" choke, 500# FTP.

DEC 21 1987

556 BO, 75 BLW, 592 MCF/D, 24/64" choke, 500# FTP.

DEC 22 1987

490 BO, 70 BLW, 592 MCF/D, 24/64" choke, 475# FTP.

DEC 23 1987

489 BO, 70 BLW, 592 MCF/D, 500# FTP.

DEC 24 1987

465 BO, 65 BLW, 392 MCF/D, 500# FTP.

DEC 25 1987

452 BO, 50 BLW, 592 MCF/D, 500# FTP.

DEC 26 1987

450 BO, 50 BLW, 592 MCF/D, 500# FTP.

DEC 27 1987

470 BO, 50 BLW, 592 MCF/D, 500# FTP.

DEC 28 1987

450 BO, 45 BLW, 554 MCF/D, 450# FTP.

**MEWBOURNE OIL COMPANY**  
**P. O. BOX 7698**  
**TYLER, TEXAS 75711**

Lease FEDERAL "L" Well No. 5 Location \_\_\_\_\_  
 Section \_\_\_\_\_ Block \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
 Survey \_\_\_\_\_ County \_\_\_\_\_ Lea \_\_\_\_\_ State NM Proposed Depth \_\_\_\_\_  
 API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
 Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 6

**DATE****DAILY REPORTS**

MAY 20 1988

PU Otis Perma-Lach packer and RIH with 265 joints  
 2-7/8" N-80 6.5# 8rd EUE tubing. Set packer at  
 8346' with 16,000# compression. NU wellhead and  
 swabbed well down to SN. Had show of oil and gas.  
 SWIFN. Tubing count as follows:

	KB Correction	8.00'
265 jts 2-7/8"		8330.50'
1 2-7/8" SN		1.10'
1 Otis packer		6.80'
	Set @	8346.40'

DWC: \$18,990.

MAY 21 1988

SITP 400#. Blew well down and started swabbing with  
 IFL at 6800'. Swabbed well down to SN. RU Western  
 and acidized with 7500 gallons 7-1/2% NE-FE acid +  
 150 ball sealers. Maximum PP 3600# at 4.8 BPM,  
 minimum 2600# at 2.8 BPM, average 3400# at 4.8 BPM.  
 Had good ball action, did not ball off. ISDP 2250#,  
 5 minutes 2000#, 10 minutes 1700#, 15 minutes 1400#.  
 RD Western. Total load to recover 230 bbls. Blew  
 well down and started swabbing with IFL at surface.  
 Made 16 swab runs and swabbed well down to 7800'.  
 Recovered a total of 84 bbls of acid water and 5 BO.  
 Acid water left to recover 145 bbls. SWIFN. DWC:  
 \$11,150, TWC: \$344,362.

MAY 22 1988

SITP 600#. Blew well down and started swabbing with  
 IFL at 3500'. Swabbed well down to SN. Made 1 run/  
 hour for 3 hours. Had 200' of entry/hour. Recovered  
 37 BO and 76 bbls of acid water. Load left recover  
 69 bbls. Left well open to swab tank. DWC: \$1500,  
 TWC: \$345,862.

MAY 23 1988

SD for Sunday.

MAY 24 1988

Left well open to swab tank over Sunday, no  
 production. Loaded tubing with 2% KCL water and  
 released packer. TOOH with tubing. RU Western to  
 frac well. At the start of #2 stage, sand belt on  
 the sand master became bogged down, were unable to  
 continue on sand. Flushed to top perf with 2% gelled  
 KCL water and SD. Spent remainder of day freeing up  
 sand belt. Will re-frac well today. DWC: \$5000,  
 TWC: \$350,862.

MAY 25 1988

SICP 20#. RU Western and fraced Bone Springs with  
 60,000 gallons gelled 2% KCL water and 84,000# 20/40  
 frac sand, dropped 44 ball sealers and fraced with  
 60,000 gallons + 84,000# 20/40 sand. Had 650#  
 increase with balls. Total frac fluid and sand  
 pumped for both days was 172,000 gallons + 210,000#  
 20/40 sand. Total load to recover 4434 bbls. Maximum  
 PP 3900# at 61 BPM, minimum 2950# at 58 BPM, average  
 3500# at 58.5 BPM. ISDP 2140#, 5 minutes 2100#, 10  
 minutes 2060#, 15 minutes 2000#. SWIFN. DWC:  
 \$67,625, TWC: \$418,487.

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease Federal "P" Well No. 2 Location \_\_\_\_\_  
Section \_\_\_\_\_ Block \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
Survey \_\_\_\_\_ County \_\_\_\_\_ Lea \_\_\_\_\_ State NM Proposed Depth \_\_\_\_\_  
API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 6

DATE

DAILY REPORTS

SEP 14 1989	SITP 0#. Made swab run & had 300' of fluid in tbg., all filtrate water. RU Western and acidized well w/ 3500 gals. of 7 1/2% NE-FE acid + 54 ball sealers. FBP 3400#, Max. pp 4600# @ 2 BPM, Min. pp 3100# @ 5 BPM, Avg. pp 3800# @ 5 BPM. Had good ball action, did not ball off. ISDP 2300#, 5 min. 1900#, 10 min. 1000#, 15 min. 350#. Total load to recover, 137 bbls. Bled off pressure and started swabbing w/ IFL @ surface. Swabbed well down to SN. Waited 1 hr. and made swab run, had 400' of fluid entry, all acid water. No show of oil or gas. Recovered 56 bbls. of load, 81 bbls. left to recover. DC: \$3,270.00, SWIFN.												
SEP 15 1989	SITP 60#. Made swab run, had 1,000' of fluid entry overnight. Top 300' all oil, remainder acid water. Swabbed well down to SN, cutting 10% oil, 90% acid water and small blow of gas. Loaded tbg. w/ 2% KCL water, released pkr. & TOOH w/ tbg. Will frac well today. SWIFN. DC: \$1,350.00												
SEP 16 1989	RU Western and fraced well down 5-1/2" casing with 80,000 gallons of gelled 2% KCL water containing 90,000# of 20-40 Ottawa sand plus 30,000# of 20-40 resin coated sand. Max. pp 3400# at 40 BPM, Min. pp 2750# at 40 BPM, Avg. pp 3000# at 40 BPM. ISDP 2710#, 15 mins. 2500#. Total LYTRC 2313 bbls. SWI for weekend. DWC: \$44,477.												
SEP 19 1989	SICP, Vacuum. RIH with packer and set at 8339' with 12,000# of compression. NU WH and started swabbing with IFL 1200' from surface. Swabbed 100 bbls. of load water and 10 bbls. of oil. Good show of gas with each swab run. LYTRC 2213 bbls. SWIFN. DWC: \$1,500, TWC: \$380,342.24. Tubing count as follows: <table border="0" style="margin-left: 40px;"> <tr> <td>265 Jts. 2-7/8" 6.5# N-80 Used Tubing</td> <td style="text-align: right;">8322.64'</td> </tr> <tr> <td>1 2-7/8" SN</td> <td style="text-align: right;">1.10'</td> </tr> <tr> <td>1 2-7/8" x 5-1/2" Otis Perma-Lach Packer</td> <td style="text-align: right;">6.10'</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right;">8329.84'</td> </tr> <tr> <td>KB CORRECTION</td> <td style="text-align: right;">10.00'</td> </tr> <tr> <td>BOTTOM OF PACKER AT</td> <td style="text-align: right;">8339.84'</td> </tr> </table>	265 Jts. 2-7/8" 6.5# N-80 Used Tubing	8322.64'	1 2-7/8" SN	1.10'	1 2-7/8" x 5-1/2" Otis Perma-Lach Packer	6.10'	TOTAL	8329.84'	KB CORRECTION	10.00'	BOTTOM OF PACKER AT	8339.84'
265 Jts. 2-7/8" 6.5# N-80 Used Tubing	8322.64'												
1 2-7/8" SN	1.10'												
1 2-7/8" x 5-1/2" Otis Perma-Lach Packer	6.10'												
TOTAL	8329.84'												
KB CORRECTION	10.00'												
BOTTOM OF PACKER AT	8339.84'												
SEP 20 1989	SITP 350#. Blew well down and started swabbing with IFL at 1200' from surface. Swabbed 20 BO and 123 BLW. LYTRC 2090 bbls. FFL at 2000' from surface. RD completion unit and RU swabbing unit. SWIFN. DWC: \$1,800, TWC: \$78,793.												
SEP 21 1989	SITP 400#. Blew well down and started swabbing with IFL 1100' from surface. Swabbed 46 BO and 48 BLW. FFL 6400' from surface. SWIFN. DWC: \$1,100, TWC: \$79,893.												
SEP 22 1989	SITP 550#. Opened well up on 24/64" choke. Flowed 1 hour and died. Started swabbing with IFL 1700' from surface. Swabbed 41 BO and 75 BLW. Last 3 swab runs swabbing from SN. Left well open to battery overnight. DC: \$1,100, TWC: \$80,993.												
SEP 23 1989	Well dead. Flowed 1 BO and 24 BW overnight. Started swabbing with IFL 1800' from surface. Swabbed 41 BO and 42 BW. Last 5 runs swabbing from SN. SWIFN. DWC: \$1,100, TWC: \$82,093.												

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease FEDERAL "F" Well No. 3 Location 990' FWL & 1980' FSL  
Section 23 Block \_\_\_\_\_ Township 18S Range 32E  
Survey \_\_\_\_\_ County Lea State NM Proposed Depth \_\_\_\_\_  
API No. \_\_\_\_\_ Permit No. \_\_\_\_\_ Permit Date \_\_\_\_\_ Acreage \_\_\_\_\_  
Drilling Contractor \_\_\_\_\_ Rig No. \_\_\_\_\_ Page 7

## DATE

## DAILY REPORTS

FEB 1 1987

SITP 425#. Blew well down and started swabbing with IFL at 2800'. Swabbed well down to SN with 60%-40% oil-water cut and good show of gas. RU Western and acidized Bone Springs with 4000 gallons of 7-1/2% NE-FE acid + 120 ball sealers. FBP 3300#, maximum PP 3500#, minimum 3000#, average 3100# at 4 BPM. Had good ball action. Did not ball off. ISDP 2100#, 5 minutes 1350#, 10 minutes 850#, 15 minutes 550#. Total load to recover 148 bbls. Blew well down and started swabbing, swabbed well down to SN. Made 1 swab run/hour for 2 hours. Had 1200' of fluid entry/hour. Fluid cut was 50%-50% oil-load water. Recovered 80 BLW. Load left to recover 68 bbls. SWIFW.

FEB 2 1987

Well SI for Sunday.

FEB 3 1987

SITP 950#. Opened well up and started flowing. Flowed 35 BO to test tank. RU Western and killed well with 20 bbls fo 2% KCL water. Released packer and TOOH with tubing. RU Western and fraced 5-1/2" casing with 60,000 gallons of Mini-max 3-40 2% KCL water + 85,000 gallons of 20/40 frac sand. Maximum pressure 3500# at 35 BPM, minimum 2900# at 38 BPM, average 3100# at 36 BPM, ISDP 2750#, 5 minutes 2700#, 10 minutes 2650#, 15 minutes 2600#. RD Western and SWIFN. Total load to recover from acid and frac 1850 bbls.

FEB 4 1987

SICP 80#. Bled well down. PU Otis packer and RIH with tubing. While ND BOP, well started flowing. Set packer and installed valve. RU and killed well with 20 bbls of 10# brine water. Released packer and reset at 8268' with 10,000# compression. NU flowline and started swabbing. Well kicked off after 4 runs. Left well flowing on 16/64" choke with 100# FTP. Tubing as follows:

	KB Correction	11.00'
265 jts	2-7/8" N-80 tubing	8249.65'
1	2-7/8" SN	1.10'
1	Otis permalach packer	6.30'
	Packer @	8268.05'

FEB 5 1987

5 BO, 28 BLW, 16/64" choke, 300# TP, 14 hours production. Choke plugged off. 1st gas sales at 9:30 A.M. 2/4/87. Flowing good, 227 MCF/D. Selling gas through Federal "F" #1 meter run.

FEB 6 1987

89 BO, 183 BLW, 180 MCF/D. 24/64" choke, 100# FTP, 1639 BLW to recover.

FEB 7 1987

187 BO, 101 BW, 272 MCF/D. FTP 200#. 20/64" choke. 1538 BLW to recover.

FEB 8 1987

207 BO, 57 BW, 272 MCF/D. 24/64" choke. FTP 200# 1481 BLW to recover.

FEB 9 1987

180 BO, 44 BLW, 272 MCF/D. 24/64" choke. FTP 200#. 1437 BLW to recover.

FEB 10 1987

250 BO, 27 BW, 214 MCF/D, 24/64" choke, FTP 200#.

FAX TRANSMITTAL SHEET  
OIL CONSERVATION DIVISION - FAX NO. (505) 827-5741

TO: *Jim Bruce*

FR: *Michael E. Stogner*

PAGES w/cover: *1 1/2*

DATE: *Sept. 30, 1993*

*Case 10962: Application of Newbourn Oil Company for a waterflood  
Project in the Otero Plains Upper - Bone Spring Pool, leased July  
1993. Please supplement Exhibit No. 26 with supporting data  
from the applicant for No. 3 "O. 74 free gradient for the Pool as  
determined by ISIP's."*

*Thanks*

*M. Stogner*

If there are any problems with this transmission, please call (505) 827-5806.

Proposal For 2000 psi Surface Injection Pressure

- 1) While testing injectivity of Bone Spring in the Federal E #11 and Government K #2, a very heavy (.51 psi/ft.) water was injected as a source. While keeping the surface pressure @ a maximum of 1650 psi per Order R-9737, a gradient of .70 was achieved.

$$\text{Gradient} = \frac{1650 + 8500' * .51}{8500'} = .70$$

- 2) All injection was contained to the 1st Bone Spring Sand during these tests as evidenced by injection profile logs run in both wells.
- 3) The average frac gradient for the Querecho Plains Bone Spring is equal to .74 as determined by the ISIP of 17 fracture stimulation jobs which Mewbourne pumped at the field.
- 4) A significantly less heavy (.45 psi/ft.) water is proposed for injection water during full flood operations.
- 5) As a result of the less heavy water, a 2000 psi surface pressure will generate a gradient of .69 and should result in all injection staying contained to the unitized formation.

$$\text{Gradient} = \frac{2000 + 8500' * .45}{8500'} = .69$$

NEW MEXICO  
OIL CONSERVATION DIVISION

Mewbourne EXHIBIT 26

CASE NO. 10761/10762

*(.74 is  
true gradient  
for unit.)*

# HINKLE, COX, EATON, COFFIELD & HENSLEY

ATTORNEYS AT LAW

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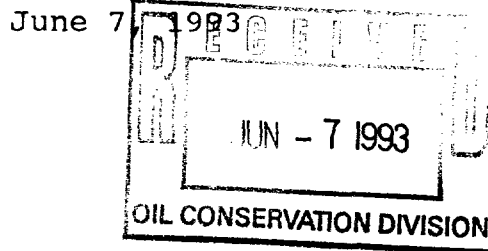
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PAUL G. NASON  
DARLA M. SILVA

\*NOT LICENSED IN NEW MEXICO

Michael E. Stogner  
Oil Conservation Division  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87503



10762

Re: Application of Mewbourne Oil Company for  
Statutory Unitization and Approval of a Unit,  
Lea County, New Mexico

Application of Mewbourne Oil Company to Qualify a Certain  
Waterflood Project for the Recovered Oil Tax Rate, Lea  
County, New Mexico

Application of Mewbourne Oil Company for Authority  
to Institute a Waterflood Project, Lea County, New  
Mexico

Dear Mr. Stogner:

Pursuant to Mr. Bruce's instructions, I am enclosing the  
original and two copies of the above-referenced Applications.  
Please note that the Waterflood Application requests an initial  
injection pressure in excess of 0.2 pounds/foot.

Very truly yours,

HINKLE, COX, EATON, COFFIELD  
& HENSLEY

Fran Sowers  
Fran Sowers, Secretary  
to James Bruce

**VIA HAND DELIVERY**

FRS5\93A02.c