

UIC - I - 8-1, 2 & 3

WDWs-1, 2 & 3

PERMITS,

RENEWALS,

& MODS (15 of 18)

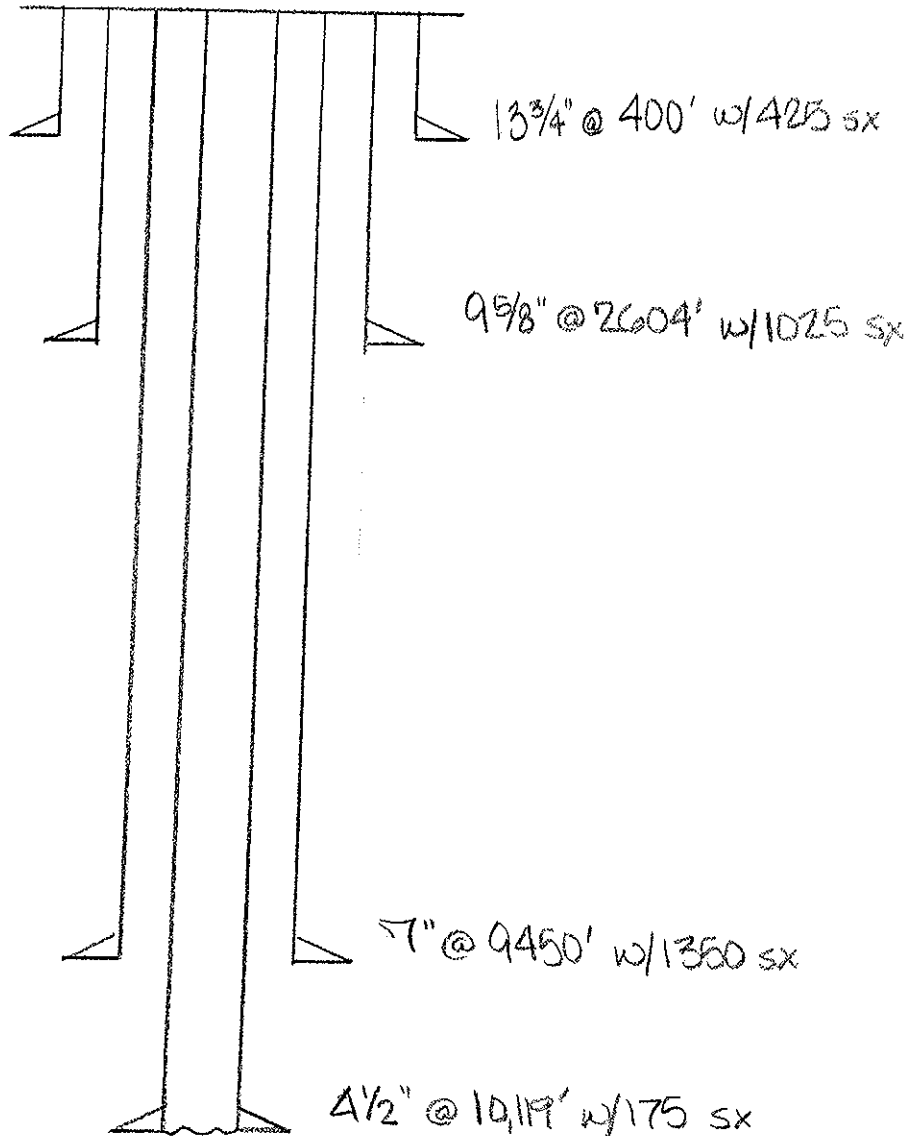
2017

SUBSURFACE

NAVAJO REFINING COMPANY, L.L.C.
Map ID No. 96
Artificial Penetration Review

OPERATOR Navajo Refining Co.
LEASE WDW
WELL NUMBER 3
DRILLED N/A
PLUGGED N/A

STATUS Active
LOCATION Sec. 6-T18S-R27E
MUD FILLED BOREHOLE —
TOP INJECTION ZONE -3694'
API NO. 30-015-26575

REMARKS:

MAP ID NO. 96

**NAVAJO REFINING COMPANY
WASTE DISPOSAL WELL NO. 3**

API NO. 30-015-26575

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. C. Cons. Division
811 S. 1st Street
Artesia, NM 88210-2834

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Collection and Serial No.
NM-0557371

C/SF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

PO Box 5270, Hobbs, NM 505-393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

790' FSL & 2250' FWL, Sec. 1 T-18S R-27E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal Comm #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

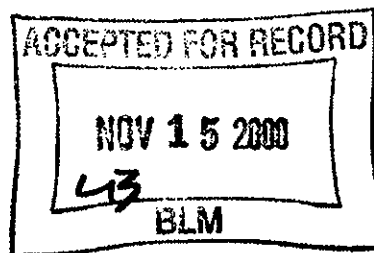
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other MIT
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above caption well was successfully MIT'ed on 10/25/2000. (500 psi for 30 min.)
The pressure chart is enclosed.
If any question, please call.



14. I hereby certify that the foregoing is true and correct

Signed *N.M. Young*

Title N.M. Young District Manager

Date 11/01/00

(This space for Federal or State office use)

Approved by **Record Only**
Conditions of approval, if any:

Title

Date

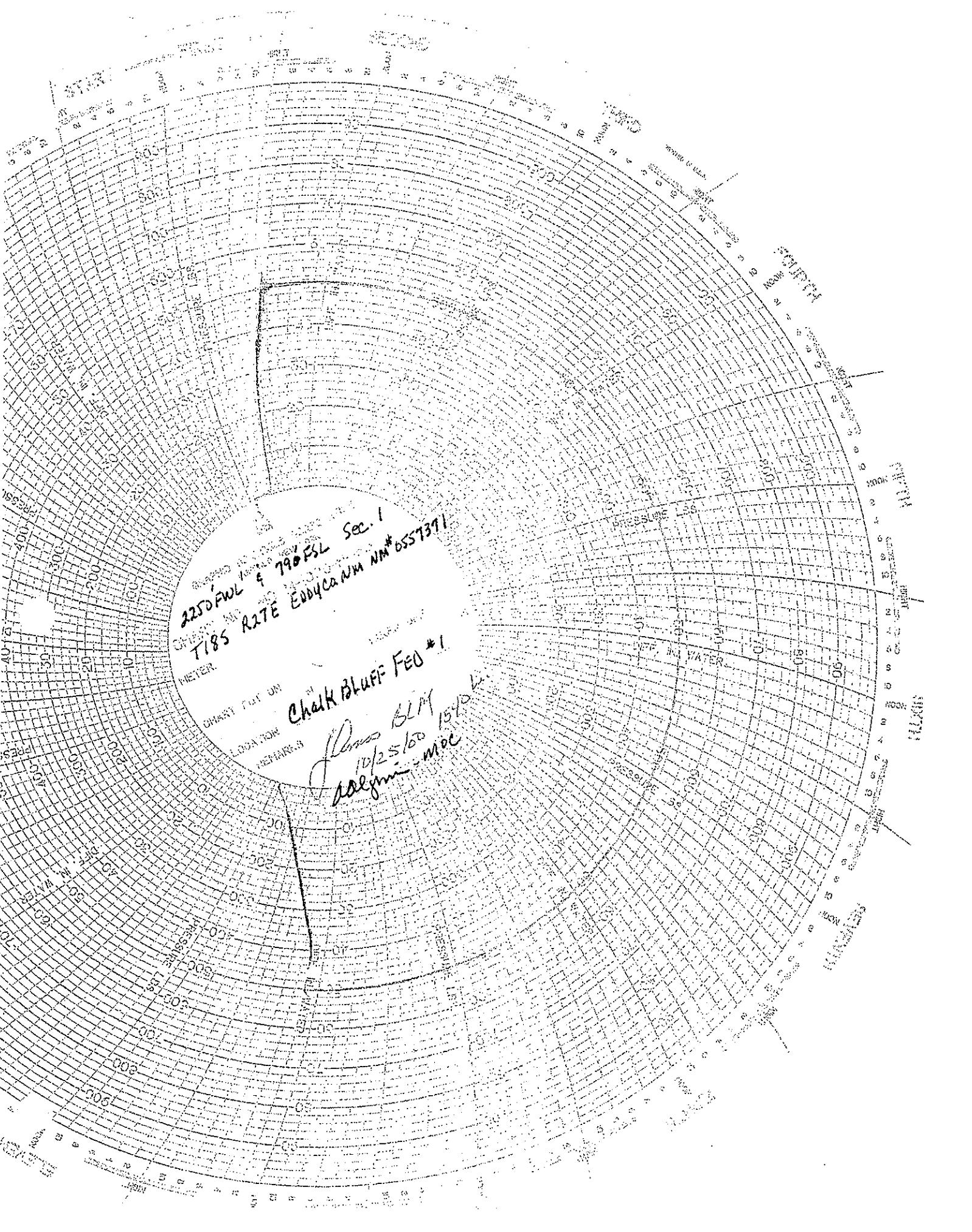
*Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

2250 FWL & 790 FSL Sec. 1
T185 R2TE EDDYCA NM NM# 0557371

CHALK BLUFF FED #1

Done BLM
10/25/00
adgim moc



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 20 1991

O. C. U.
ARTESIA, OFFICE

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P. O. Box 7698, Tyler, Texas 75711

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FWL & 790' FSL of Sec. 1, T18S-R27E

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

CHALK BLUFF FED. COM #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

No. Illinois Camp Morrow

11. County or Parish, State

Eddy, New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

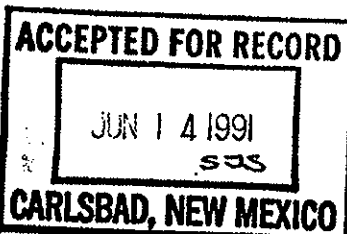
- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Fracture Treat
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

4/24/91 - Western fracture treated Morrow Sand perms 9936-46', 9964-67' down tubing with 16,000 gals 73 downhole slurry quality Binary Westfoam carrying 16,000# 20/40 mesh ACFRAC Black Westprop-3. Screened out with 545 gals CO₂/N₂ 2% KCL water. Screened out at 10,100# with 1200 gals of 3# stage in formation and 545 gals flush in tubing. Pumped 116 sxs Proppant into formation and left 25 sacks in casing and 19 sacks in tubing. ISDP 8300#, 5 mins 7600#, 10 mins 7200#, 15 mins 6800#. Avg 10.0 BPM at 8200#. Job complete 10:20 AM.



14. I hereby certify that the foregoing is true and correct

Signed Clayton Thompson Title Engr. Oprns. Secretary

Date 5/21/91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any: _____

Title _____ Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
Drawer DD

Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FWL & 790' FSL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

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☐ Subsequent Report
☐ Final Abandonment Notice

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☐ Altering Casing
☒ Other Shut-In-Status

- ☐ Change of Plans
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☐ Non-Routine Fracturing
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☐ Conversion to Injection
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(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Mewbourne Oil Company here by requests temporarily abandon status pending further evaluation of the lease for the above well. The well was spudded 12/22/90.

APPROVED FOR 12 MONTH PERIOD
ENDING 1/25/95

14. I hereby certify that the foregoing is true and correct

Signed Robert G. Jones

Title Petroleum Engineer

Date 01/25/94

(This space for Federal or State office use)

Approved by (ORIG SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 2/16/94

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 3160-3
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NEW MEXICO OIL & GAS COMMISSION
Drawer DD
Artesia, NM

POSTED APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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2250' FWL & 790' FSL of Sec. 1-T18S-R27E

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NM-0557371

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* Verbal from Adam Salameh

9/10/93 Abandon Morrow formation. Set CIBP @ 9800' & cover w/35' cement.

9/11/93 Perforate Cisco from 7826'-7830'. Test & evaluate.

9/12/93 Squeeze Cisco from 7826'-7830' w/600 sx. Class "C".

9/15/93 Drill out squeeze perfs. to 7792'. Squeeze held 2,000#.

9/16/93 Perforate Cisco from 7676'-7678'. Test and evaluate.

9/17/93 Abandon Cisco formation, set CIBP @ 7600' & cover w/35' cement.

9/18/93 Perforate Wolfcamp 7304'-7314'. Test & evaluate.

9/19/93 Acidize Wolfcamp w/1500 gal. 15% NE-FE from 7304'-7314'.

9/21/93 Set CIBP @ 7294' & perforate Wolfcamp from 7262'-7278'. Test & evaluate.

9/22/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from 7262'-7278'.

9/23/93 Set CIBP @ 7208' & perforate Wolfcamp from 7050'-7102'. Test & evaluate.

9/24/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from 7050'-7102'.

9/25/93 Set CIBP @ 7010'.

14. I hereby certify that the foregoing is true and correct

Signed

Robert L. Jones

Title Petroleum Engineer

Date 10/05/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

ACCEPTED FOR RECORD

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instructions at RESOURCES NEW MEXICO

7 3160-5
: 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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OCT 19 1993

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☐ Casing Repair
☐ Altering Casing
☐ Other

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☐ New Construction
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(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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09/08/93 Abandon Morrow Perfs 9861' - 9967'

- Set CIBP @ 9800' - cover w/35' cement.

- Recomplete in Cisco Formation - Test & evaluate.

- If uneconomical recomplete in Wolfcamp - Test & evaluate.

RECEIVED
SEP 22 10 48 AM '93
CART
AREA

14. I hereby certify that the foregoing is true and correct

Signed R. G. Jones

Title Petroleum Engineer

Date 09/07/93

(This space for Federal or State office use)

(ORIG. SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 10/15/93

Approved by _____
Conditions of approval, if any:

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*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 28 1992

O. C. D.

SUNDRY NOTICES AND REPORTS ON WELLS

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FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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Chalk Bluff Fed.Com.#1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N.Illinois Camp-Mor.-Gas

11. County or Parish, State

Eddy

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P. O. Box 7698, Tyler, Texas 75711 (903) 561-2900

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2250' FWL & 790' FSL Sec. 1, T18S-R27E

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☐ Altering Casing
☒ Other Additional perfs, acidize & frac
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 8/13/92 - Perf Middle Morrow 9861-9882', 2 SPF, 10' Net, 22 holes.
8/14/92 - Acidized w/3500 gals 7½% HCL + additives + 1000 SCF/bbl nitrogen carrying 80 ball sealers. Flushed w/2% KCL wtr + 1000 SCF/bbl nitrogen. ISDP 4300#, 5 mins 3800#, 10 mins 3400#, 15 mins 2800#. Avg rate 3.7 BPM, AP 5000#, MP 5600#. Blew well down to pit 8/15 - 8/18/92.
8/19/92 - MI swab unit. Pressure tested tbg to 2000#. Held OK. Removed tree. RU BOP. RU swab. Swabbed well down to 5300'.
8/20/92 - Swabbed down to 6500'. POOH w/tbg & pkr. TIH w/new pkr assembly & 200 jts tbg. Tested tbg to 8000#. 8/21/92 - Continued testing tbg. Set pkr @ 9740.68' w/15 pts compression. Press annulus to 2000#. Held OK. Started swabbing. Had light blow of gas.
8/22/92 - RU Western Co. Acidized perfs w/1500 gals 7½% HCL acid + additives + 1000 scf/bbl nitrogen + 35 ball sealers. Flushed w/2% KCL wtr. ISDP 400#. 5 min 3700#, 10 min 3700#, 15 min 3600#. ATP 5100#, MTP 5400#. RD Western. Opened well to pit on 12/64" choke. No show of gas or oil. Recovering load.
8/23/92 - RU swab. FL @ 7000'. Swabbed dry in 3 runs. Continued swabbing. Recovering load.

14. I hereby certify that the foregoing is true and correct

Signed Stephen Thompson Title Engr. Oprns. Secretary

Date 9/11/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title ASR

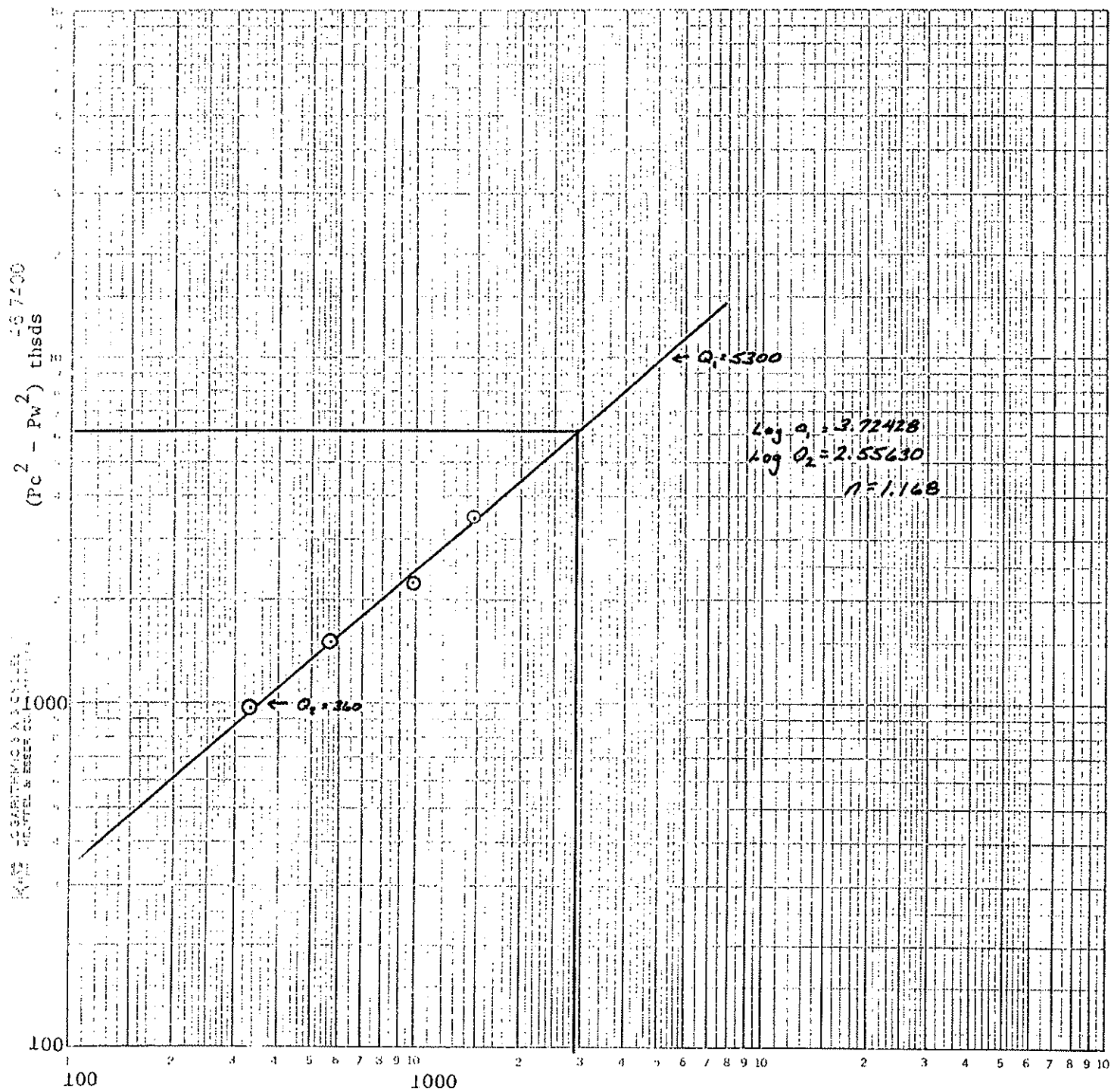
Date _____

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*See Instruction on Reverse Side

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 03/15/91							
Company Mewbourne Oil Company			Connection Transwestern		Received MAY 5 7 46 AM '91						
Pool Undesignated North Illinois Camp Morrow			Formation Morrow		Unit CAMP MORROW						
Completion Date 03/05/91		Total Depth 10,120'		Plug Back TD 10,075'	ARTESIA, OFFICE 3609						
Casing Size 4 1/2" 5 1/2"		Wt. 11.6#	Set At 10,120'	Perforations From 9936' To 9967'	Farm or Lease Name Chalk Bluff Federal						
Tubg. Size 2 7/8"		Wt. 6.5	Set At 9,805'	Perforations From Open To End	Well No. 1						
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas				Packer Set At 9805'	County Eddy						
Producing Thru Tbg.		Reservoir Temp. °F 148 @ 10,120	Mean Annual Temp. °F 72	Baro. Press. - P _a 13.2	State New Mexico						
L 9949	H 9949	C _g .660	% CO ₂ .43	% N ₂ .42	% H ₂ S ---						
Prover				Meter Run 3.068	Taps Fig.						
FLOW DATA			TUBING DATA		CASING DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
51	S.I.						2380				72 Hr.
1.	3 X 1.125		426.8	4	51	2175		Pkr.			1 Hr.
2.	3 X 1.125		446.8	11	51	2070		Pkr.			1 Hr.
3.	3 X 1.125		446.8	32	51	1900		Pkr.			1 Hr.
4.	3 X 1.125		426.8	72	45	1605		Pkr.			1 Hr.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow O, Mcfd				
1	6.217	41.952	440	1.009	1.225	1.048	337				
2	6.217	71.134	460	1.009	1.225	1.051	574				
3	6.217	121.326	460	1.009	1.225	1.051	980				
4	6.217	177.989	440	1.015	1.225	1.051	1446				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Gas Mcf/bbl.						
1	.65	511	1.37	.910	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2	.68	511	1.37	.906	Specific Gravity Separator Gas .660 XXXXXXXXXX						
3	.68	511	1.37	.906	Specific Gravity Flowing Fluid XXXXX						
4	.65	505	1.35	.905	Critical Pressure 673 P.S.I.A. P.S.I.A.						
5					Critical Temperature 374 R R						
P _c 2472 P _c ² 6110.7					(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.784$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.967$						
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	AOR = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.844$						
1	2264	5125	985.7								
2	2147	4609	1501.7								
3	1966	3865	2245.7								
4	1639	2686	3424.7								
Absolute Open Flow 2,844 Mcfd @ 15.025					Angle of Slope 41°		Slope, n 1.168				
Remarks: Well made 0 bbl fluid during test											
Approved By Division			Conducted By: Greg Milner			Calculated By: Greg Milner		Checked By: Bill Pierce			



Q MCF/D

AOF = 2.9 MMCF/D



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr, Greg Milner
P. O. Box 5270
Hobbs, New Mexico 88241

SAMPLE Chalk Bluff
IDENTIFICATION: Federal #1
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

SAMPLE DATA:	DATE SAMPLED:	03-15-91	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	03-18-91	SAMPLED BY:	Gregory Milner
	PRESSURE - PSIG	460.00	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F	51.00		
	ATMOS. TEMP. °F			

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM	
Oxygen	(O2)			
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.42		
Carbon Dioxide	(CO2)	0.43		
Methane	(C1)	87.54		
Ethane	(C2)	7.07	1.886	
Propane	(C3)	2.38	0.654	
I-Butane	(IC4)	0.31	0.100	
N-Butane	(NC4)	0.54	0.169	
I-Pentane	(IC5)	0.20	0.071	
N-Pentane	(NC5)	0.14	0.052	
Hexane	(C6)	0.97	0.399	
Heptanes Plus	(C7+)	0.00	0.000	
		100.00	3.331	
BTU/CU.FT. - DRY		1156	MOLECULAR WT	19.0972
AT 14.650 DRY		1153		
AT 14.650 WET		1133	26# GASOLINE -	0.578
AT 15.025 DRY		1182		
AT 15.025 WET		1162		
SPECIFIC GRAVITY -				
CALCULATED		0.660		
MEASURED		0.000		

WORK SHEET FOR CALCULATION OF WELL ID PRESSURES (P_c or P_{cf})

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_{cf})

COMPANY Mentmore Oil LEASE Chalk Bluff Fed. WELL NO. 1 DATE 3-18-91
LOCATION: Unit 9949 Section 1 Township 18S Range 27E
L/H 9949 H 9949 L/H 1.000 G .660 % CO₂ .43 % N₂ .42 % H₂S —
GH 6566 P_{cf} 673 T_{cf} 374 TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1	T_w (W.H. °R)	532						
2	T_s (B.H. °R)	608						
3	$T = \frac{T_w + T_s}{2}$	570						
4	Z (Est.)	.800						
5	TZ	456.0						
6	GH/TZ	14.399						
7	e^S (Table XIV)	1.716						
8	P_f or P_{cf}	3249						
9	P_f^2 or P_{cf}^2	10556						
10	$P_c^2 = P_f^2 / e^S$ or P_{cf}^2 / e^S	6151.7						
11	P_c or P_{cf}	2480.3						
12	$P_w = \frac{P_w + P_s}{2}$ or $\frac{P_c + P_f}{2}$	2864.6						
13	$P_r = (P/P_{cf})$	4.26						
14	$T_r = (T/T_{cf})$	1.52						
15	Z (Table XI)	.790						

One copy to be filed in District Office (Work copy acceptable)

WORK SHEET FOR CALCULATION OF WL (HEAD PRESSURES ~~or~~ P_w)

FROM KNOWN BOTTOM HOLE PRESSURE ~~or~~ P_s)

COMPANY Newbourne LEASE Chalk Bluff Fed. WELL NO. 1 DATE 3-18-91

LOCATION: Unit 9949 Section 1 Township 18S Range 27E

L 9949 H 9949 L/H 1.00 G .660 % CO₂ .43 % N₂ .42 % H₂S —

GH 6566 P_{cr} 673 T_{cr} 374

TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1 T _w (W.H. °R)	532	532	532	532	532	532	532	532
2 T _s (B.H. °R)	608	608	608	608	608	608	608	608
3 T = (T _w + T _s) / 2	570	570	570	570	570	570	570	570
4 Z (Est.)	.835	.783	.783	.781	.781	.780	.780	.792
5 TZ	476.0	446.5	446.5	445.1	445.2	444.8	444.6	451.7
6 GH/TZ	13.796	14.704	14.712	14.753	14.749	14.761	14.768	14.537
7 e ^s (Table XIV)	1.678	1.736	1.736	1.739	1.739	1.739	1.740	1.725
8 P_w or P _s	2983	2983	2831	2831	2593	2593	2152	2152
9 P_w or P _s ²	8898.3	8898.3	8014.6	8014.6	6723.6	6723.6	4631.1	4631.1
10 P_w = P _i ² /e ^s or P _w ² = P _s ² /e ^s	5304.3	5126.6	4616.2	4609.0	3867.2	3865.5	2661.7	2684.9
11 P_w or P _w	2303.1	2264.2	2148.5	2146.9	1966.5	1966.1	1631.5	1638.6
12 P = (P _w + P _s) / 2 or (P _s + P _i) / 2	2643.1	2623.6	2489.8	2488.9	2279.8	2279.5	1891.7	1895.3
13 P _r = (P/P _{cr})	3.93	3.90	3.70	3.70	3.39	3.39	2.81	2.82
14 T _r = (T/T _{cr})	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
15 Z (Table XI)	.783	.783	.781	.781	.780	.780	.792	.792

One copy to be filed in District Office (Work copy acceptable)

COMPANY: PRO WIRELINE
CLIENT: MEWBOURNE OIL
GAUGE NUMBER: 12235
WELL NAME: CHALK BLUFF
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION:
TEST OPERATOR: BURRELL
COMMENTS: 4 POINT FLOW TEST RAN
AFTER 72 HOUR BUILD-UP

POSITION	GAUGE SERIAL NUMBER
----------	---------------------

1	
2	
3	
4	

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

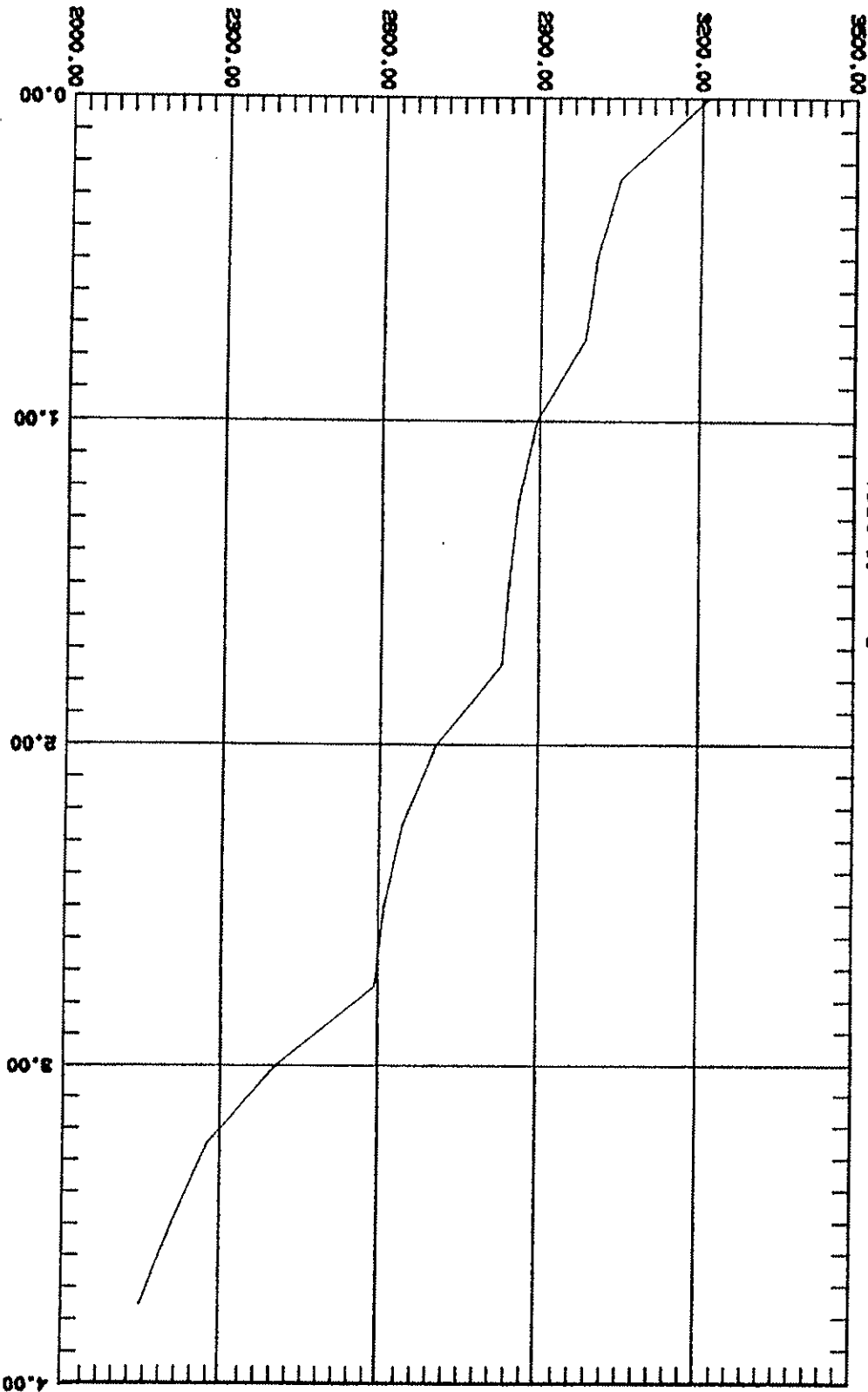
REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
9:45: 0	0.0000	3213.00		START RATE 1
10: 0: 0	0.2500	3046.00		
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00		START RATE 2
10:45: 0	1.0000	2894.00		
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00		START RATE 3
11:45: 0	2.0000	2707.00		
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: 0	2.7500	2593.00		START RATE 4
12:45: 0	3.0000	2405.00		
13: 0: 0	3.2500	2276.00		
13:15: 0	3.5000	2210.00		
13:30: 0	3.7500	2152.00		END OF TEST

Plot starting date: 3/15/91
time: 9:45: 0
Gauge S/N

Company: PRO WIRELINE
Client: MEMBOURNE OIL
Well name: CHALK BLUFF
Well #: 1
Test #: 1

Location:
Operator: BURRELL
Comments: 4 POINT FLOW TEST RAN
AFTER 72 HOUR BUILD UP

PRESSURE - PSIA



DELTA TIME - HRS

UNITED STATES COMMISSION
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

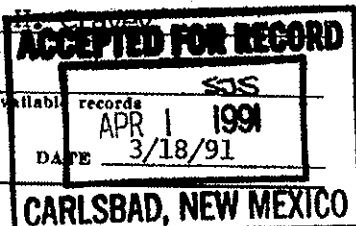
(See other instructions on reverse side)

Form approved,
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other _____		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. REVEN. <input type="checkbox"/>	Other _____
2. NAME OF OPERATOR Mewbourne Oil Company							
3. ADDRESS OF OPERATOR P. O. Box 7698, Tyler, Texas 75711							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 2250' FWL & 790' FSL At top prod. interval reported below At total depth Same							
14. PERMIT NO. API #30-015-26575				DATE ISSUED JUL 23 1992			
15. DATE SPUNDED 12/22/90		16. DATE T.D. REACHED 1/29/91		17. DATE COMPL. (Ready to prod.) 3/07/91		18. ELEVATIONS (DV, RKB, RT, OR, ETC.)* KB 3625', CM 3609'	
20. TOTAL DEPTH, MD & TVD 10,120'		21. PLUG, BACK T.D., MD & TVD 10,079'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 9936-46', 9964-67' - Morrow						25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN SDL-DSN, DLL-MSFL, DILL						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT FILLED	
13-3/8"	54.50#	400'	17-1/2"	425 - Circ		None	
9-5/8"	36#	2604'	12-1/4"	1025 - Circ		None	
7"	26# & 29#	9450'	8-3/4"	1350 - Circ		None	
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	9051'	10119'	175		2-3/8"	9805'	9805'
31. PERFORATION RECORD (Interval, size and number) 9936-46', 9964-67' 13", 2 SPF, Total 28				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) 9936-67' AMOUNT AND KIND OF MATERIAL USED 3000 gals Mod-101 acid + 1000 SCF/bbl N2 + 50 ball sealers. Flushed w/35 bbls 2% KCL water + 1000 SCF/bbl N2.			
33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 3/11/91	HOURS TESTED 24 hrs	CHOKE SIZE 8/64"	PROD'N. FOR TEST PERIOD	OIL—BBL. 1	GAS—MCF. 886	WATER—BBL. 0	GAS OIL RATIO 886:1
FLOW. TUBING PRESS. 1600#	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. 1	GAS—MCF. 886	WATER—BBL. 0	OIL GRAVITY-API (CORR.) 58.00	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold				TEST WITNESSED BY W. H. CLOVER			
35. LIST OF ATTACHMENTS Logs							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <i>Raymond Thompson</i>				TITLE Engr. Opns. Secretary			
* (See Instructions and Spaces for Additional Data on Reverse Side)							

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



37. SUMMARY OF PRODUCTIONS: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Lower Morrow	9936'	9967'	Sandstone	Yates	424'	
Middle Morrow	9861'	9881'	Sandstone	Queen	1138'	
				Grayburg	1484'	
				San Andres	1976'	
				Glorietta	3458'	
				Tubb	4451'	
				Drinkard	5376'	
				Abo	5794'	
				Wolfcamp	6420'	
				Cisco	7666'	
				Canyon	8368'	
				Strawn	8844'	
				Morrow	9454'	
				Morrow Clastics	9770'	
				Barnett	10016'	



KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 505/746-2719
ROSWELL, NM ARTESIA, NM

February 05, 1991

Mewbourne Oil Company, Inc.
P.O. Box 5270
Hobbs, N.M. 88241

REF: Chalk Bluff Fed Comm #1

Gentlemen:

The following is a Deviation Survey on the above referenced well located in Eddy County, New Mexico.

400' - 1/4°	4674' - 1 1/4°	6559' - 2 1/2°
905' - 3/4°	5120' - 1 1/2°	6650' - 2 1/4°
1303' - 3/4°	5639' - 1 1/4°	7146' - 1 3/4°
1901' - 1 1/4°	6077' - 3 1/2°	7672' - 3/4°
2399' - 1 3/4°	6126' - 3 3/4°	7800' - 3/4°
2600' - 1 3/4°	6189' - 3 3/4°	8291' - 1°
3098' - 1 1/2°	6250' - 3 3/4°	8815' - 1°
3592' - 1 1/2°	6312' - 3 1/2°	9313' - 3/4°
3682' - 3/4°	6374' - 3 1/4°	9808' - 1 1/4°
4177' - 1°	6467' - 2 3/4°	10,120' 3/4° TD

Sincerely,

Arnold Newkirk
Vice-President

STATE OF NEW MEXICO)

COUNTY OF CHAVES)

The foregoing was acknowledged before me this 05th day of February 1991 by Arnold Newkirk.

MY COMMISSION EXPIRES

October 07, 1992

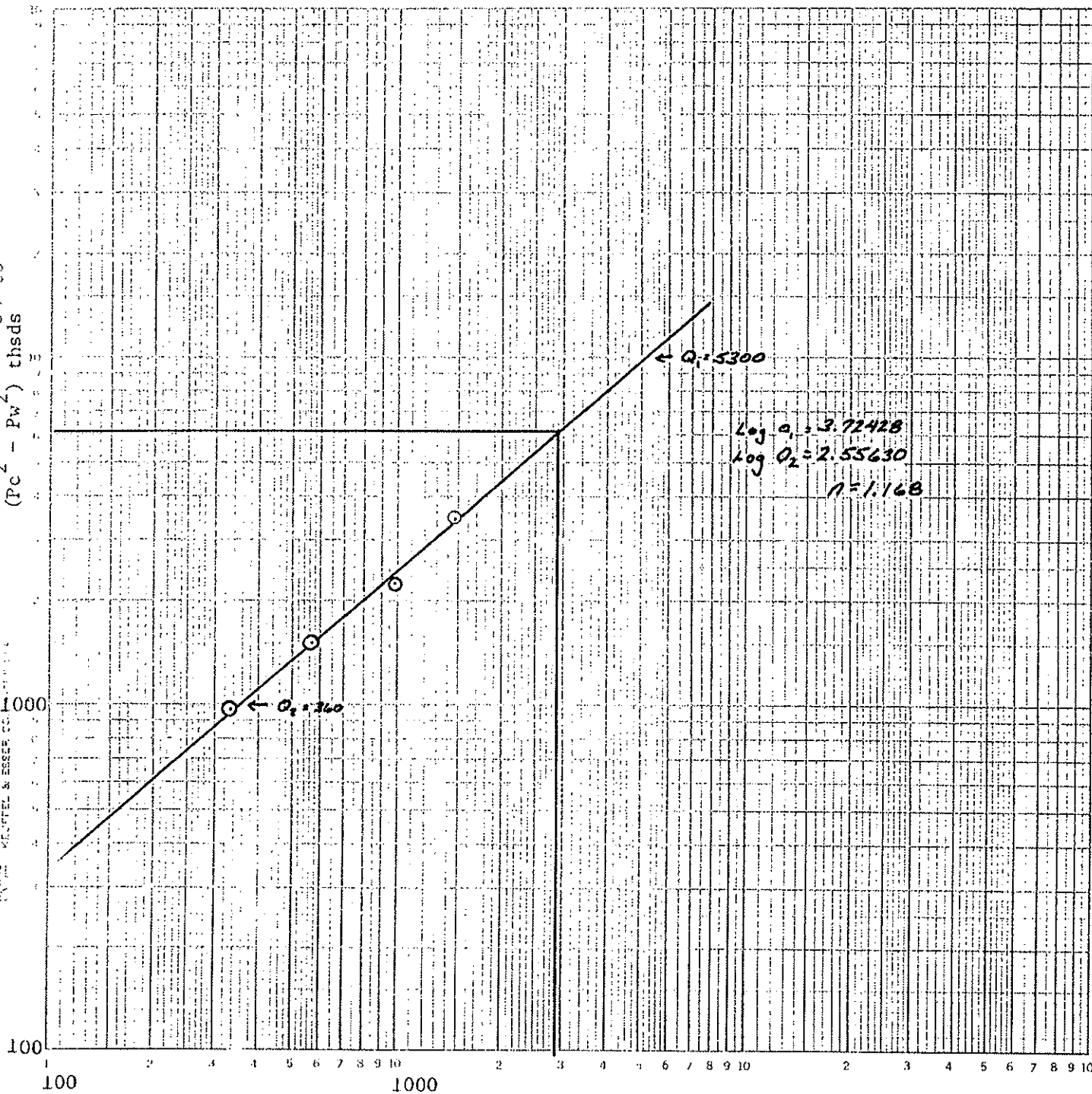
NOTARY PUBLIC

RECEIVED

Approved By Division	Conducted By: Greg Milner	Calculated By: Greg Milner	Checked By: Bill Pierce
----------------------	------------------------------	-------------------------------	----------------------------

157400
(Pc² - Pw²) thsds

LOG PERMEABILITY INDEX
(K_h μm Darcy-ft)



Q MCF/D

AOF = 2.9 MMCF/D



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr, Greg Milner
P. O. Box 5270
Hobbs, New Mexico 88241

SAMPLE Chalk Bluff
IDENTIFICATION: Federal #1
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED:	03-15-91	GAS (XX)	LIQUID ()
ANALYSIS DATE:	03-18-91	SAMPLED BY:	Gregory Milner
PRESSURE - PSIG	460.00	ANALYSIS BY:	Rolland Perry
SAMPLE TEMP. °F	51.00		
ATMOS. TEMP. °F			

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM	
Oxygen (O2)			
Hydrogen Sulfide (H2S)			
Nitrogen (N2)	0.42		
Carbon Dioxide (CO2)	0.43		
Methane (C1)	87.54		
Ethane (C2)	7.07	1.886	
Propane (C3)	2.38	0.654	
I-Butane (IC4)	0.31	0.100	
N-Butane (NC4)	0.54	0.169	
I-Pentane (IC5)	0.20	0.071	
N-Pentane (NC5)	0.14	0.052	
Hexane (C6)	0.97	0.399	
Heptanes Plus (C7+)	0.00	0.000	
	100.00	3.331	
BTU/CU.FT. - DRY	1156	MOLECULAR WT	19.0972
AT 14.650 DRY	1153		
AT 14.650 WET	1133	26# GASOLINE -	0.578
AT 15.025 DRY	1182		
AT 15.025 WET	1162		
SPECIFIC GRAVITY -			
CALCULATED	0.660		
MEASURED	0.000		

WORK SHEET FOR CALCULATION OF WELL D PRESSURES (P_c or P_{cf})

Form C-122P
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_{cf})

COMPANY Membrane Oil LEASE Chalk Bluff Fed. WELL NO. 1 DATE 3-18-91
LOCATION: Unit 9949 H 9949 L/H 1.000 G .660 Township 18S Range 27E
GH 6566 P_{cf} 673 T_{cf} 374 TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1	T_w (W.H. °R)	532						
2	T_s (B.H. °R)	608						
3	$T = \frac{T_w + T_s}{2}$	570						
4	Z (Est.)	.800						
5	TZ	456.0						
6	GH/TZ	14.399						
7	e^S (Table XIV)	1.716						
8	P_f or P_{cf}	3249						
9	P_f^2 or P_{cf}^2	10556						
10	$P_c^2 = P_f^2 / e^S$ or P_{cf}^2 / e^S	6151.7						
11	P_c or P_{cf}	2480.3						
12	$P_w = \frac{P_w + P_s}{2}$ or $\frac{P_c + P_f}{2}$	2864.6						
13	$P_f = (P/P_{cf})$	4.26						
14	$T_r = (T/T_{cf})$	1.52						
15	Z (Table XI)	.790						

One copy to be filed in District Office (Work copy acceptable)

WORK SHEET FOR CALCULATION OF WELL HEAD PRESSURES (or P_w)

Form C-1221
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (or P_s)

COMPANY Newbourne LEASE Chalk Bluff Fed. WELL NO. 1 DATE 3-18-91

LOCATION: Unit 9949 Section 1 Township 18S Range 27E

L 9949 H 9949 L/H 1.00 G 1.660 % CO₂ .43 % N₂ .42 % H₂S —

GH 6566 P_{CT} 673 T_{CT} 374

TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1 T _w (W.H. °R)	532	532	532	532	532	532	532	532
2 T _s (B.H. °R)	608	608	608	608	608	608	608	608
3 T = (T _w + T _s) / 2	570	570	570	570	570	570	570	570
4 Z (Est.)	.835	.783	.783	.781	.781	.780	.780	.792
5 TZ	476.0	446.5	446.5	445.1	445.2	444.8	444.6	451.7
6 GH/TZ	13.996	14.704	14.712	14.753	14.749	14.761	14.768	14.537
7 e ^s (Table XIV)	1.678	1.736	1.736	1.739	1.739	1.739	1.740	1.725
8 P_w or P _s	2983	2983	2831	2831	2593	2593	2152	2152
9 P_w or P _s ²	88983	8898.3	8014.6	8014.6	6723.6	6723.6	4631.1	4631.1
10 P_w = P _i ² /e ^s or P _w ² = P _s ² /e ^s	5304.3	5126.6	4616.2	4609.0	3867.2	3865.5	2661.7	2684.9
11 P_w or P _w	2303.1	2264.2	2148.5	2146.9	1966.5	1966.1	1631.5	1638.6
12 P = (P _w + P _s) / 2 or (P _s + P _i) / 2	2643.1	2623.6	2489.8	2488.9	2279.8	2279.5	1891.7	1895.3
13 P _f = (P/P _{CT})	3.93	3.90	3.70	3.70	3.39	3.39	2.81	2.82
14 T _f = (T/T _{CT})	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
15 Z (Table XI)	.783	.783	.781	.781	.780	.780	.792	.792

One copy to be filed in District Office (Work copy acceptable)

COMPANY: PRO WIRELINE
CLIENT: MEWBOURNE OIL
GAUGE NUMBER: 12235
WELL NAME: CHALK BLUFF
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION:
TEST OPERATOR: BURRELL
COMMENTS: 4 POINT FLOW TEST RAN
AFTER 72 HOUR BUILD UP

POSITION	GAUGE SERIAL NUMBER
----------	---------------------

1	
2	
3	
4	

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

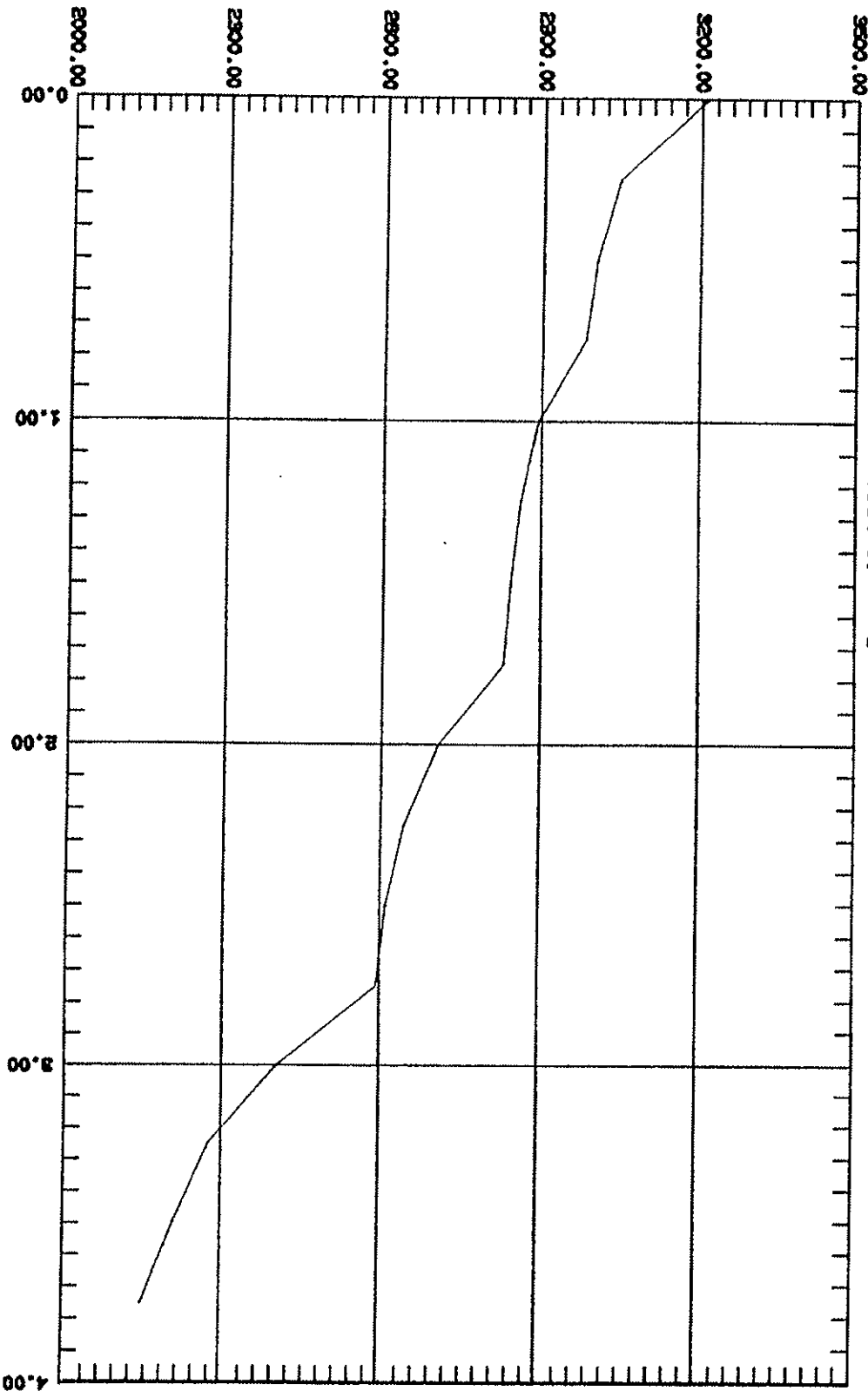
REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
9:45: 0	0.0000	3213.00		START RATE 1
10: 0: 0	0.2500	3046.00		
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00		START RATE 2
10:45: 0	1.0000	2894.00		
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00		START RATE 3
11:45: 0	2.0000	2707.00		
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: 0	2.7500	2593.00		START RATE 4
12:45: 0	3.0000	2405.00		
13: 0: 0	3.2500	2276.00		
13:15: 0	3.5000	2210.00		
13:30: 0	3.7500	2152.00		END OF TEST

Plot starting date: 3/15/91
time: 9:45: 0
Gauge S/N

Company: PRO WIRELINE
Client: MEMBOURNE OIL
Well name: CHALK BLUFF
Well #: 1
Test #: 1

Location:
Operator: BURRELL
Comments: 4 POINT FLOW TEST RAN
AFTER 72 HOUR BUILD UP

PRESSURE - PSIA



DELTA TIME - HRS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 28 1992

O. C. D.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P. O. Box 7698, Tyler, Texas 75711 (903) 561-2900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2250' FWL & 790' FSL Sec. 1, T18S-R27E

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Chalk Bluff Fed.Com.#1

9. API Well No.
30-015-26575

10. Field and Pool, or Exploratory Area
N.Illinois Camp-Mor.-Gas

11. County or Parish, State
Eddy

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **Additional perfs, acidize & frac**
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 8/13/92 - Perf Middle Morrow 9861-9882', 2 SPF, 10' Net, 22 holes.
8/14/92 - Acidized w/3500 gals 7 1/2% HCL + additives + 1000 SCF/bbl nitrogen carrying 80 ball sealers. Flushed w/2% KCL wtr + 1000 SCF/bbl nitrogen. ISDP 4300#, 5 mins 3800#, 10 mins 3400#, 15 mins 2800#. Avg rate 3.7 BPM, AP 5000#, MP 5600#. Blew well down to pit 8/15 - 8/18/92.
8/19/92 - MI swab unit. Pressure tested tbg to 2000#. Held OK. Removed tree. RU BOP. RU swab. Swabbed well down to 5300'.
8/20/92 - Swabbed down to 6500'. POOH w/tbg & pkr. TIH w/new pkr assembly & 200 jts tbg. Tested tbg to 8000#. 8/21/92 - Continued testing tbg. Set pkr @ 9740.68' w/15 pts compression. Press annulus to 2000#. Held OK. Started swabbing. Had light blow of gas.
8/22/92 - RU Western Co. Acidized perfs w/1500 gals 7 1/2% HCL acid + additives + 1000 scf/bbl nitrogen + 35 ball sealers. Flushed w/2% KCL wtr. ISDP 400#. 5 min 3700#, 10 min 3700#, 15 min 3600#. ATP 5100#, MTP 5400#. RD Western. Opened well to pit on 12/64" choke. No show of gas or oil. Recovering load.
8/23/92 - RU swab. FL @ 7000'. Swabbed dry in 3 runs. Continued swabbing. Recovering load.

14. I hereby certify that the foregoing is true and correct

Signed *Engr. Oprns. Secretary* Title **Engr. Oprns. Secretary**

Date **9/11/92**

(This space for Federal or State office use)

Approved by
Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

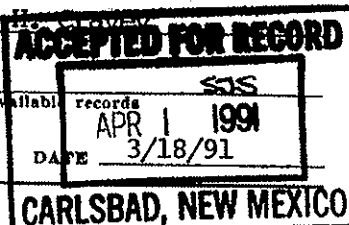
Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. NM-0557371	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESER. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____	
2. NAME OF OPERATOR Mewbourne Oil Company ✓		7. UNIT AGREEMENT NAME _____	
3. ADDRESS OF OPERATOR P. O. Box 7698, Tyler, Texas 75711		8. FARM OR LEASE NAME Chalk Bluff Federal Com	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 2250' FWL & 790' FSL At top prod. interval reported below At total depth Same		9. WELL NO. 1	
14. PERMIT NO. API #30-015-26575		10. FIELD AND POOL, OR WILDCAT N. Illinois Camp Morrow	
DATE ISSUED JUL 23 1992		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 1-T18S-R27	
15. DATE SPUDDED 12/22/90		12. COUNTY OR PARISH Eddy	
16. DATE T.D. REACHED 1/29/91		13. STATE N.M.	
17. DATE COMPL. (Ready to prod.) 3/07/91		18. ELEVATIONS (DV, RKB, RT, OR, ETC.) KB 3625', GM 3609'	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 10,120'	
21. PLUG BACK T.D., MD & TVD 10,079'		22. IF MULTIPLE COMPL., HOW MANY* →	
23. INTERVALS DRILLED BY →		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 9936-46', 9964-67' - Morrow	
25. WAS DIRECTIONAL SURVEY MADE Yes		26. TYPE ELECTRIC AND OTHER LOGS RUN SDL-DSN, DLL-MSFL, DILL	
27. WAS WELL CORRED No		28. CEMENTING RECORD	
29. LINER RECORD		30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number) 9936-46', 9964-67' 13', 2 SPF, Total 28		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 3000 gals Mod-101 acid + 1000 SCF/bbl N2 + 50 ball sealers, Flushed w/35 bbls 2% KCl water + 1000 SCF/bbl N2.	
33. PRODUCTION DATE FIRST PRODUCTION 3/11/91 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) 'Sold'	
35. LIST OF ATTACHMENTS Logs		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED <i>Raymond Thompson</i> TITLE Engr. Opns. Secretary		DATE 3/18/91	

*(See Instructions and Spaces for Additional Data on Reverse Side)

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37. SUMMARY OF PROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Lower Morrow	9936'	9967'	Sandstone
Middle Morrow	9861'	9881'	Sandstone

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Yates	424'	
Queen	1138'	
Grayburg	1484'	
San Andres	1976'	
Glorietta	3458'	
Tubb	4451'	
Drinkard	5376'	
Abo	5794'	
Wolfcamp	6420'	
Cisco	7666'	
Canyon	8368'	
Strawn	8844'	
Morrow	9454'	
Morrow Clastics	9770'	
Barnett	10016'	

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator MEWBOURNE OIL COMPANY ✓		Well API No. 30-015-26575
Address P. O. Box 7698, Tyler, Texas 75711		
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)		
New Well <input checked="" type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator		

II. DESCRIPTION OF WELL AND LEASE

Lease Name CHALK BLUFF FEDERAL	Well No. 1	Pool Name, including Formation North Illinois Camp Morrow	Kind of Lease State Federal oil gas	Lease No. NM-0557371
Location Unit Letter <u>N</u> : <u>2250</u> Feet From The <u>West</u> Line and <u>790</u> Feet From The <u>South</u> Line Section <u>1</u> Township <u>18 South</u> Range <u>27 East</u> <u>NMPM</u> Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Amoco Pipeline Inter-corporate Trucking	Address (Give address to which approved copy of this form is to be sent) Oil Tender Dept. Box 702068, Tulsa, OK 74170-2068	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Transwestern Pipeline Company	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1188, Houston, Texas 77251-1188	
If well produces oil or liquids, give location of tanks.	Unit <u>N</u>	Sec. <u>1</u>
	Twp. <u>18S</u>	Rge. <u>27E</u>
	Is gas actually connected? <u>Yes</u> When? <u>March, 1991</u>	

If this production is commingled with that from any other lease or pool, give commingling order number: NO

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 12/22/90	Date Compl. Ready to Prod. 3/07/91		Total Depth 10,120'		P.B.T.D. 10,079'			
Elevations (DP, RKB, RT, GR, etc.) KB 3625', GR 3609'	Name of Producing Formation Morrow		Top Oil/Gas Pay 9936'		Tubing Depth 9,805'			
Performances 9936-46', 9964-67', 13', 2 SPF, Total 28					Depth Casing Shoe			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
17-1/2"	13-3/8"		400'		425 <u>Post 11-2</u>			
12-1/4"	9-5/8"		2604'		1025 <u>5-12-91</u>			
8-3/3"	7"		9450'		1350 <u>comp. F.B.R.</u>			
7"	4-1/2" Liner		10119'		175			

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 886	Length of Test .24 hours	Bbls. Condensate/MMCF 1	Gravity of Condensate 58°
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 1600#	Casing Pressure (Shut-in)	Choke Size 8/64"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Gaylon Thompson
Signature

Gaylon Thompson, Engineering Operations

Printed Name

March 11, 1991 (903) 561-2900 Title

Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved MAY 16 1991

By ORIGINAL SIGNED BY

MIKE WILLIAMS

Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

1) Request for allowable for newly drilled or deepened well must be accompanied by tabular data with Rule 111.

2) All sections of this form must be filled out for allowable on new and recompleting wells.

3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number.

4) Separate Form C-104 must be filed for each pool in multiply completed wells.

2

10-24-1964
10-24-1964
10-24-1964

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS COMMISSION
FORM APPROVED
Drawer DD
Artesia, NM
Bureau Order No. 1004-0135
Expires: March 31, 1993

C/SF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FWL & 790' FSL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- Spot 8 sx. (50') cement plug on top of existing CIBP @ 7010'. Circulate hole with plug mud.
- Spot 17 sx. (100') cement plug @ 2650'.
- Spot 17 sx. (100') cement plug @ 450'.
- Cut off and remove wellhead.
- Spot 8 sx. (50') surface plug.
- Install cup and dry hole marker.
- Clean location.

RECEIVED

AUG 18 1995

OIL CON. DIV.
DIST. 2

RECEIVED
JUN 2 10 45 AM '95

14. I hereby certify that the foregoing is true and correct

Signed

Title

Engineer

Date 5/25/95

(This space for Federal or State office use)

Approved by Shannon J. Shaw
Conditions of approval, if any

Title

PETROLEUM ENGINEER

Date 8/14/95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

CCD - Artesia

6151

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	5. Lease Designation and Serial No. NM-0557371
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO Box 5270, Hobbs, NM 505-393-5905	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 790' FSL & 2250' FWL, Sec.1 T-18S R-27E	8. Well Name and No. Chalk Bluff Federal Comm #1
	9. API Well No. 30-015-26575
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Extend T/A & CIT.</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The above caption well is currently under T/A status. Mewbourne Oil Company would like to extend this status. The well has a 7" CIBP above all perms @ 7010'. We are considering converting this well into a SWD. At this time, Mewbourne would like to schedule a CIT (500 psi) & after passing, extend T/A status for an additional time.

If any question, please call.



TA Approved for 12 Month Period
Ending 10/25/2001

RECEIVED
2000 OCT 10 P 2:34
BUREAU OF LAND MGMT.
CARLSBAD RESOURCE AREA

14. I hereby certify that the foregoing is true and correct

Signed <u>[Signature]</u>	Title <u>N.M. Young</u> District Manager	Date <u>10/06/00</u>
(This space for Federal or State office use)		
Approved by <u>(ORIG. 522) MEG. LARA</u>	Title <u>Permitting Engineer</u>	Date <u>11/6/2000</u>
Conditions of approval, if any:		

18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. C. Cons. Division
811 S. 1st Street
Artesia, NM 88210-2834

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Form Number and Serial No.
NM-0557371

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

PO Box 5270, Hobbs, NM 505-393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

790' FSL & 2250' FWL, Sec.1 T-18S R-27E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal Comm #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

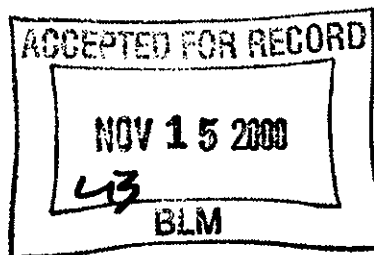
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other MIT
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above caption well was successfully MIT'ed on 10/25/2000. (500 psi for 30 min.)
The pressure chart is enclosed.
If any question, please call.



14. I hereby certify that the foregoing is true and correct

Signed *N.M. Young*

Title N.M. Young District Manager

Date 11/01/00

(This space for Federal or State office use)

Approved by *Record Only*
Conditions of approval, if any:

Title

Date

*Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

2250 FWL & 790 FSL Sec. 1
T185 R2TE EDDYCA NM NM# 6557371

CHALK BLUFF FED #1

10/25/60
adgym - moc

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
Drawer DD

Artesia, NM 88210
FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FWL & 790' FSL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Shut-In-Status

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Mewbourne Oil Company here by requests temporarily abandon status pending further evaluation of the lease for the above well. The well was spudded 12/22/90.

APPROVED FOR 12 MONTH PERIOD
ENDING 1/25/95

JAN 27 10 58 AM '94
RECEIVED

14. I hereby certify that the foregoing is true and correct

Signed

Robert G. Jones

Title Petroleum Engineer

Date 01/25/94

(This space for Federal or State office use)

Approved by (ORIG. SCD) JOE G. LARA

Title PETROLEUM ENGINEER

Date 2/16/94

Conditions of approval, if any:

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*See instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DM OIL GRS. COMMISSION
Drawer 55
Artesia, NM

88210M APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FWL & 790' FSL of Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA. Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☒ Recompletion
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☐ Change of Plans
☐ New Construction
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☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

* Verbal from Adam Salameh

9/10/93 Abandon Morrow formation. Set CIBP @ 9800' & cover w/35' cement.
9/11/93 Perforate Cisco from 7826'-7830'. Test & evaluate.
9/12/93 Squeeze Cisco from 7826'-7830' w/600 sx. Class "C".
9/15/93 Drill out squeeze perms. to 7792'. Squeeze held 2,000#.
9/16/93 Perforate Cisco from 7676'-7678'. Test and evaluate.
9/17/93 Abandon Cisco formation, set CIBP @ 7600' & cover w/35' cement.
9/18/93 Perforate Wolfcamp 7304'-7314'. Test & evaluate.
9/19/93 Acidize Wolfcamp w/1500 gal. 15% NE-FE from 7304'-7314'.
9/21/93 Set CIBP @ 7294' & perforate Wolfcamp from 7262'-7278'. Test & evaluate.
9/22/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from 7262'-7278'.
9/23/93 Set CIBP @ 7208' & perforate Wolfcamp from 7050'-7102'. Test & evaluate.
9/24/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from 7050'-7102'.
9/25/93 Set CIBP @ 7010'.

14. I hereby certify that the foregoing is true and correct

Signed Robert L. Jones

Title Petroleum Engineer

Date 10/05/93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

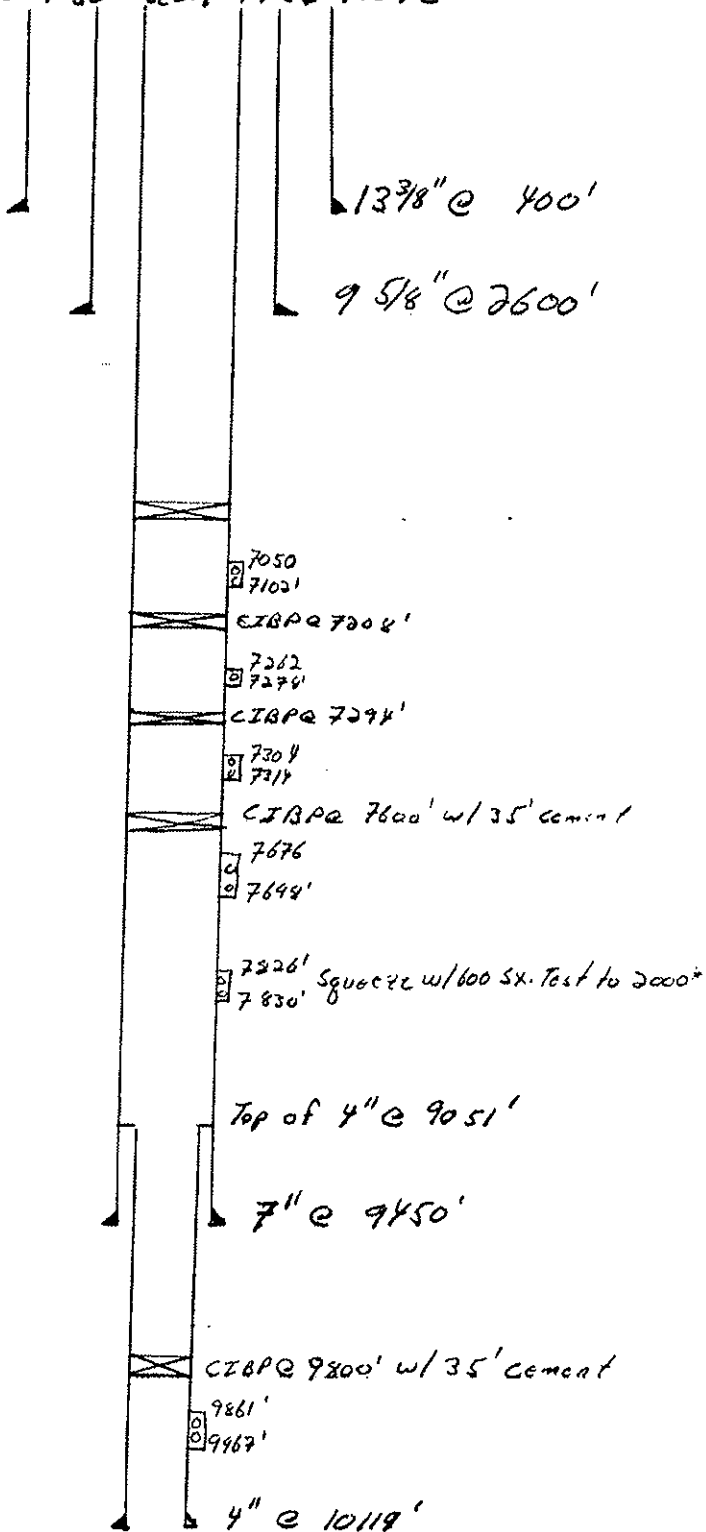
ACCEPTED FOR RECORD

NOV 15 1993

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instructions at READING NEW MEXICO

Mewbourne Oil Company
 Chuck Bluff Federal #1
 2250' FWT 740' FSL Sec. 1-T18S-R27E



CO. NO. 24.01 7 Mar
 03A1202

3160-5
(1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FWL & 790' FSL of Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☒ Recompletion
☒ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

09/08/93 Abandon Morrow Perfs 9861' - 9967'

- Set CIBP @ 9800' - cover w/35' cement.
- Recomplete in Cisco Formation - Test & evaluate.
- If uneconomical recomplete in Wolfcamp - Test & evaluate.

RECEIVED
SEP 22 10 43 AM '93
CART
AREA

14. I hereby certify that the foregoing is true and correct

Signed

[Signature]

Title

Petroleum Engineer

Date

09/07/93

(This space for Federal or State Office use)

(ORIG. SGD.) JOE G. LARA

Title

PETROLEUM ENGINEER

Date

10/15/93

Approved by
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

30-015-910575

Agid- 14744

Property- 7876

Pool- 78890

3-19-91

DUAL LAT.

2575-9444

9330-1112

DUAL SPACED
NEUTRON

Long- 9417

8500-1112

3-19-91

DUAL LAT.

2575-9444

9330-1112

DUAL SPACED
NEUTRON

Long- 9417

8500-1112

NC Tops DEM 5/14/91

Queen	1140
Grayburg	1630
San Andres	1975
Glorieta	3598
Abo	?
Wolfcamp	6860
Penn	
Strawn	
Atoka	9135
Morrow	9703





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

31 January 2003

Navajo Refining Co.
P. O. Box 159
Artesia, New Mexico 88211

File
Copy

RE: Chalk Bluff Federal Com # 1 N-1-18-27 API 30-015-26575 Violation of Rule 201:
Idle Well

Dear Sirs:

This second directive is to notify you that this well is still in violation of Rule 201.

On 12 December, 2002 a letter was sent notifying you on the violation of Rule 201. On 3 January, 2003 the form C-104 was faxed to you indicating Navajo Refining was the operator of this well. To date no action has been taken.

Rule 201 of the New Mexico Oil Conservation Division provides as follows:

201 WELLS TO BE PROPERLY ABANDONED

201.A. The operator of any well drilled for oil, gas or injection; for seismic, core or other exploration, or for a service well, whether cased or uncased, shall be responsible for the plugging thereof. [7-12-90...2-1-96]

201.B. A well shall be either properly plugged and abandoned or temporarily abandoned in accordance with these rules within ninety (90) days after:

- (1) A sixty (60) day period following suspension of drilling operations, or
- (2) A determination that a well is no longer usable for beneficial purposes, or
- (3) A period of one (1) year in which a well has been continuously inactive.

[7-12-90...2-1-96]

In the event that a satisfactory response is not received to this letter of direction by 15 March, 2003, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of **CIVIL PENALTIES** for your violation of OCD rules.

Sincerely,

Van Barton
Field Rep. II

To:

Shirley Jones - CRUDE OIL SUPPLY CLERK

LEASE RECORDS

Navajo Refining Company

P.O. Box 159

Artesia, NM 88211-0159

phone (505) 746-5325

fax (505) 746-5283

shirleyj@navajo-refining.com (please note the "j" after shirley)

TO: District II
FAX: 505-748-9720
RE: Chalk Bluff Federal Com #1
API No. 30-015-26575

COMPANY: Oil Conservation Division
PHONE: 505-748-1283

MESSAGE:

We have received the enclosed letter from you showing that Navajo Refining Company is the operator for the above referenced lease.

Navajo Refining Company is neither the operator, transporter or purchaser on this lease. Your Internet site shows Mewbourne Oil Company to be the operator.

We do have them as an operator on some of the leases that we transport. But this lease is not one of them.

We have contact information for them of: PO Box 7698, Tyler, TX 75711, with a New Mexico phone for Jerry Elgin of 505-393-5905.

If you have other information that shows Navajo Refining Company as the operator, would you please forward a copy to me so that I may research it further.

Thank you.


-Shirley Jones

Shirley - Please note the attached document
Signed by Darrell Moore.



District I
1625 N. French Dr., Hobbs, NM 88240
District II
South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
August 11, 2000

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Submit a copy of the final affected wells
list along with 2 copies of this form per
number of wells on that list to
appropriate District Office

Change of Operator

Previous Operator Information:

OGRID: 14744
Name: Mewbourne Oil Company
Address: P. O. Box 7698
Address: _____
City, State, Zip: Tyler, TX 75711

New Operator Information:

Effective Date: 5 October, 2000
New Ogrid: 15684
New Name: Navajo Refining Company
Address: ~~100 Crescent Court, Suite 1600~~
Address: P.O. Box 159
City, State, Zip: ~~Dallas, TX 75201~~
Artesia, NM 88211

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator

Signature:

Darrell Moore

Printed name:

Darrell Moore

Title:

Env. Mgr. for Water and Waste

Date:

12/5/00

Phone:

505-748-3311

Previous operator complete below:

Previous

Operator: Mewbourne Oil Company

Previous

OGRID: 14744

Signature:

Monty Whetstone

Printed Name:

Monty Whetstone

NMOCD Approval

Signature:

Jim W. Green

Printed

Name:

District Supervisor

District:

NOV 27 2000

Date:

27021 - property code - Chalk Bluff Federal Corn #1
30-015-26575 - API Number 1-185-27E

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

WDW-3 #3 23592

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

NAVAJO INJECTION; PERMO-PENN.

11. County or Parish, State

EDDY

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other TEMPORARILY ABANDONED

2. Name of Operator

NAVAJO REFINING COMPANY

3a. Address

PO BOX 159, ARTESIA, NM 88211

3b. Phone No. (include area code)

505-748-3333

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

790' FSL, 2250' FWL, 1-18S-27E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☒ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other RECOMPLETE AS

CLASS I INJECTION

WELL

3. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once the operation has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Original well name was CHALK BLUFF FEDERAL COM. NO. 1

DRILL OUT BRIDGE PLUG AT 7010' AND CLEAN OUT TO 7208'.
INJECTION-TEST PERFORATIONS AT 7050' - 7102', 7262' - 7278' TO PLAN SQUEEZE-CEMENT JOB.
DRILL OUT BRIDGE PLUGS AT 7208' AND 7294'. CLEAN OUT HOLE THROUGH PERFS AT 7304'-7314'.
SQUEEZE-CEMENT PERFORATIONS AT 7050' - 7102', 7262' - 7278', AND 7304' - 7314'.
DRILL OUT BRIDGE PLUG AT 7600' AND CLEAN OUT TO TOP OF LINER AT 9051'.
RUN CBL/VDL AND CALIPER FROM 9051' TO SURFACE.
PERFORATE 8540' - 8620' AND 7660' - 8450'.
RUN INJECTIVITY TEST, AND ACIDIZE IF NECESSARY.
RUN INJECTION/FALLOFF TEST.
RUN DIFFERENTIAL TEMPERATURE SURVEY.
RUN RADIOACTIVE TRACER SURVEY.
INSTALL INJECTION TUBING AND PACKER TO APPROX. 7600'.
INSTALL WELL ANNULUS MONITORING EQUIPMENT, AND PREPARE WELL FOR INJECTION.

**SUBJECT TO
LIKE APPROVAL
BY NMOCD**

APPROVED

SEP 29 2003

LES BABYAK
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Darrell Moore

Title

Env. Mgr. for Waters & Waste

Signature

Darrell Moore

Date

9/11/03

Approved by (Signature)

Name

(Printed/Typed)

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Date

18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on next page)

Accepted for record - NMOCD

District I
1625 N. French Dr., Hobbs, NM 88240
District II
301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Artec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30 - 015 -26575		² Pool Code	³ Pool Name Navajo Injection; Permo-Penn
⁴ Property Code 23592	⁵ Property Name WDW		⁶ Well Number 3
⁷ OGRID No. 15694	⁸ Operator Name Navajo Refining Company		⁹ Elevation 3609' GL; 3625' KB

¹⁰ Surface Location

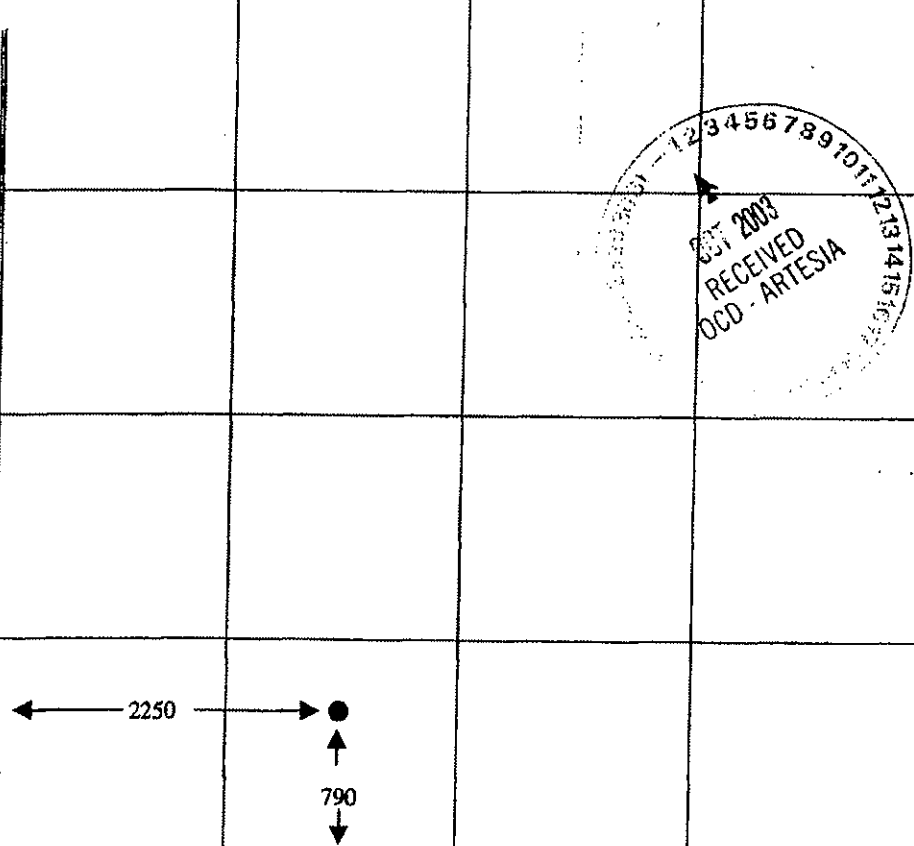
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	1	18S	27E		790	South	2250	West	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature <i>Darrell Marc</i> Printed Name Darrell Marc Title and E-mail Address Env. Mgr. for Water Waste darrell@navajo-refining.com Date 9/17/03	
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number	

Accepted for record - NMOCD

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

790' FSL and 2250' FWL, Section 1, T18S, R27E
Eddy County, New Mexico
Chalk Bluff Federal Com. No. 1, API No. 30-015-26575

All depths are in feet below well's original kelly bushing height (RKB) of 16 feet above ground level. The original KB elevation is 3625 feet above mean sea level. The ground level elevation is 3609 feet above mean sea level.

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

San Andres	1976 feet	Lower Wolfcamp	7303 feet
Yeso	4030 feet	Cisco	7650 feet
Abo	5380 feet	Canyon	8390 feet
Wolfcamp	6745 feet	Strawn	8894 feet

Depth of Plugs

7010 feet in 7-inch casing above perforations 7050 feet to 7102 feet
7208 feet in 7-inch casing above perforations 7262 feet to 7278 feet
7294 feet in 7-inch casing above perforations 7304 feet to 7314 feet
7600 feet in 7-inch casing above perforations 7676 feet to 7678 and
7826 feet to 7830 feet
9800 feet in 4-1/2-inch liner above perforations 9861 feet to 9967 feet

Anticipated Formation Pressure

The expected bottom-hole pressure is 3448 pounds per square inch absolute (psia) at 9000 feet, for a gradient of 0.383 pounds per square inch (psi) per foot, or an equivalent

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mud weight of 7.36 pounds per gallon (ppg). The bottom-hole pressure was determined from the pressure measured in Navajo's WDW-2, or 2813 psia, at 7570 feet. Navajo's WDW-2 is completed in the same interval proposed for WDW-3 and is located in 12-T18S-R27E, 3200 feet southwest of proposed WDW-3. The average specific gravity of the fluid in the Cisco and Canyon Formations is expected to be 1.025, which is the specific gravity of the fluid swabbed from WDW-2 in June 1999 from the interval between 7826 feet and 8399 feet. The expected bottom-hole pressure at 9000 feet in proposed WDW-3 is calculated below:

$$\begin{aligned}\text{BHP (9000 feet)} &= 2813 \text{ psia} + (9000 \text{ feet} - 7570 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.025 \\ &= 3448 \text{ psia}\end{aligned}$$

Reentry Procedure

1. Level location to accommodate a workover rig, pump, tanks, and ancillary equipment. Build a small working pit approximately 30 feet square and 3 feet deep with a plastic lining. Move in the rig, tank, shale shaker, and work string.
2. Install a 7-1/16-inch, 3000-psi double hydraulic blowout preventer (BOP) and a 7-1/16-inch, 3000-psi annular BOP (see Exhibit A for schematic). Pressure test the BOP stack and casing to 1500 psi for 30 minutes. Pick up a 6-1/8-inch bit, and sufficient 4-3/4-inch drill collars to drill out the cement plugs, on a 2-7/8-inch work string. Mix a tank of 8.5-ppg sodium chloride brine water for circulating fluid.
3. Run the bit to 7000 feet and circulate the wellbore fluid out of the casing into a frac tank for disposal. Drill out the cast iron bridge plug (CIBP), cement at 7010 feet, and clean out to the CIBP at 7208 feet. Circulate the hole clean and pump into the perforations from 7050 feet to 7102 feet to establish a rate and pressure for a pending squeeze cement job.
4. Drill out the CIBP at 7208 feet and clean out past the perforations from 7262 feet to 7278 feet and drill out the third CIBP at 7294 feet. Clean out below the perforations from 7304 feet to 7314 feet. Run a second injection test for injection rate and pressure comparison.

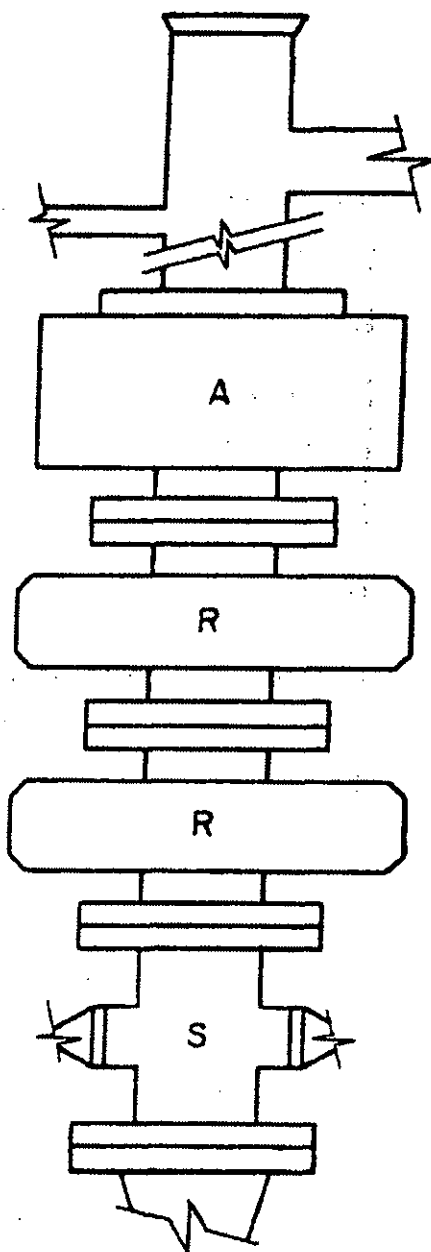
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5. Pull the bit and run a retrievable squeeze packer on the work string. Set the packer at 7150 feet and test for communication between the perforations. Squeeze the perforations from 7262 feet to 7278 feet and 7304 feet to 7314 feet with approximately 100 sacks of neat cement (actual squeeze cement volume to be determined by the injection rate established previously), attempting to reach 1500 psi to 2000 psi squeeze pressure. Release the packer and reverse out any excess cement, then re-test the perforations to the squeeze pressure.
6. Re-set the packer at 6900 feet and squeeze the perforations from 7050 feet to 7102 feet as before.
7. Lay down the squeeze packer and drill out the cement to the CIBP at 7600 feet. Conduct a pressure test to 500 psi for 12 hours to confirm the squeeze cement will contain the annular fluid pressure required during injection operations.
8. Drill out the CIBP at 7600 feet and circulate to the top of the liner at 9051 feet. Circulate the casing clean with 8.5-ppg brine water. Pull the bit and lay down the drill collars.
9. Run a cement bond log with variable density (CBL/VDL) from the liner top to the surface, followed by a baseline multi-finger caliper log from the liner top to the surface.
10. Perforate the intervals 8540 feet to 8620 feet and 7660 feet to 8450 feet with 2 JSPF, using hollow steel carrier perforating guns.
11. Run the work string and retrievable packer to 7600 feet. Swab, or backflow, the perforated interval to recover a representative sample of the formation water for laboratory analysis. Monitor the recovered fluid for hydrogen sulfide.
12. Conduct a short injectivity test with 8.5-ppg brine water to determine the need for stimulation. If required, stimulate the perforations with acid (type and amount to be determined from injectivity results), followed by 500 barrels of 8.5-ppg brine water.

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13. Pull the work string and lay it down. Run a surface readout pressure gauge, with memory backup, to 7600 feet. Conduct an injection test down the casing at 420 gallons per minute for 12 hours (7200 barrels). Shut the well in and record the pressure falloff for a minimum of 12 hours.
14. Pull the gauges and run a differential temperature survey from surface to 9100 feet. Run a radioactive tracer survey to demonstrate mechanical integrity.
15. Run a tubing conveyed injection packer on 4-1/2-inch, 11.60 lb/ft, K-55, LT&C, 8rd injection tubing. Set the packer at approximately 7600 feet. Fill the annular space with 8.5-ppg brine water containing oxygen scavenger and corrosion inhibitor. Land the injection tubing in the wellhead and install the upper section.
16. Pressure test the annulus as required by New Mexico regulations.
17. Install well annulus monitoring equipment and prepare the well for injection.

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A = ANNULAR BLOWOUT PREVENTER
7-1/16", 3000 psi working pressure

R = RAM TYPE BLOWOUT PREVENTER
7-1/16", 3000 psi working pressure

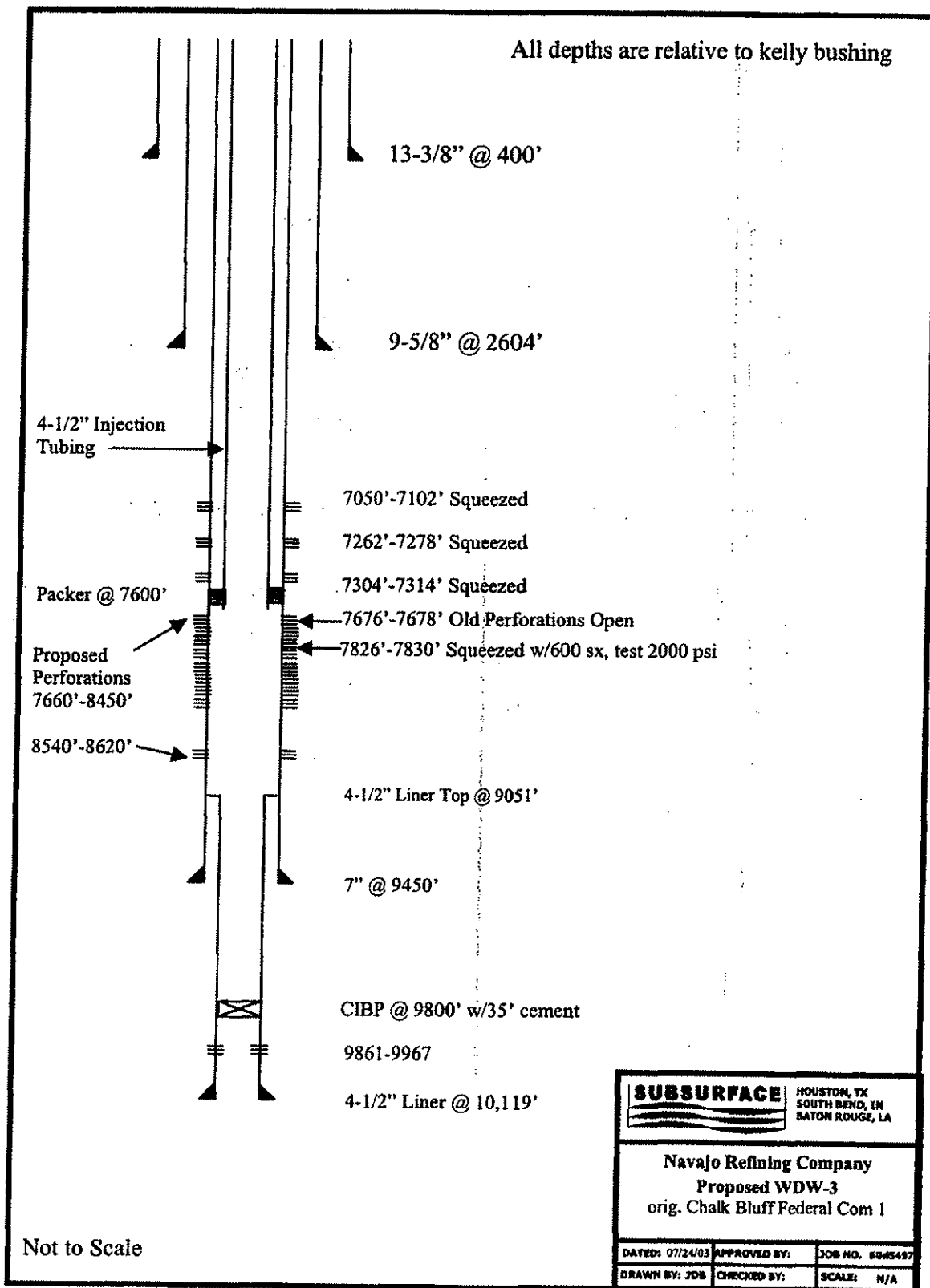
S = DRILLING SPOOL WITH SIDE OUTLETS
7-1/16", 3000 psi working pressure

Manual Choke Manifold 2", 3000 psi working pressure

Source: API RP 53, Recommended Practices
for Blowout Prevention Equipment Systems

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Exhibit A Blowout Preventer Minimum Requirements		
DATED: 07/24/03	APPROVED BY:	JOB NO. 685497
DRAWN BY: JDB	CHECKED BY:	SCALE: 1/4" = 1'-0"

Accepted for record - NMOC



Accepted for record - NMOCD

SURFACE USE PLAN

NAVAJO REFINING COMPANY PROPOSED WDW-3 790' FSL, 2250' FWL, 1-T 18S-R27E EDDY COUNTY, NEW MEXICO

1. Existing Roads: Existing roads that lead to the proposed drillsite are shown on Exhibit A.
2. Access Roads To Be Constructed: No new access road is proposed.
3. Location of Existing Wells: Existing wells within one mile of proposed WDW-3 are shown on Exhibit B.
4. Location of Proposed Facilities If Well Is Completed: The well will be shut in after completion and testing.
5. Location and Type of Water Supply: Water for reentry, testing, and completion operations will be purchased from a commercial water hauler.
6. Source of Construction Materials: No construction materials will be required.
7. Methods of Handling Waste Disposal:
 - A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits.
 - D. Trash, waste paper, garbage, and junk will be buried in a trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
 - E. All trash and debris will be buried or removed from the wellsite after finishing drilling and/or completion operations.

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8. Ancillary Facilities: None anticipated.
9. Wellsite Layout:
 - A. The existing well pad will be leveled to accommodate a workover rig, pump, tanks, and ancillary equipment.
 - B. Existing topsoil to a depth of 6 inches will be lifted and stockpiled at the uphill end of the well pad. The stockpiled topsoil will be located uphill to avoid mixing with subsurface materials.
 - C. The well pad will be surfaced with material found in place.
 - D. A small working pit will be constructed to hold drilling fluids and cuttings. The approximate dimensions of the pit will be 30 feet x 30 feet x 3 feet.
 - E. The working pit for drilling fluids and cuttings will be lined with 6-mil plastic.
10. Plans for Restoration of Surface:
 - A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. After abandonment, all equipment, trash, and junk will be removed and the location cleaned.
 - D. The stockpiled topsoil will be spread over the surface of the location.
11. Surface Ownership: U.S. Department of Interior, Bureau of Land Management.
12. Archaeological Survey: Navajo Refining Company is conducting an archeological survey. The report of the survey will be submitted by Navajo under separate cover.
13. Operator's Representatives: Representatives responsible for assuring compliance with the approved Surface Use Plan:

Accepted for record - NMOCD

Mr. Darrell Moore
Navajo Refining Company
Post Office Box 159
Artesia, New Mexico 88211
505/748-3311

Mr. Jim Bundy
Subsurface Technology, Inc.
7020 Portwest Drive, Suite 100
Houston, Texas 77024
713/880-4640

Exhibits

- A. Topographic Map
- B. Oil and Gas Map

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Navajo Refining Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date

9/17/03

Signature

Darrell Moore

Name

Darrell Moore

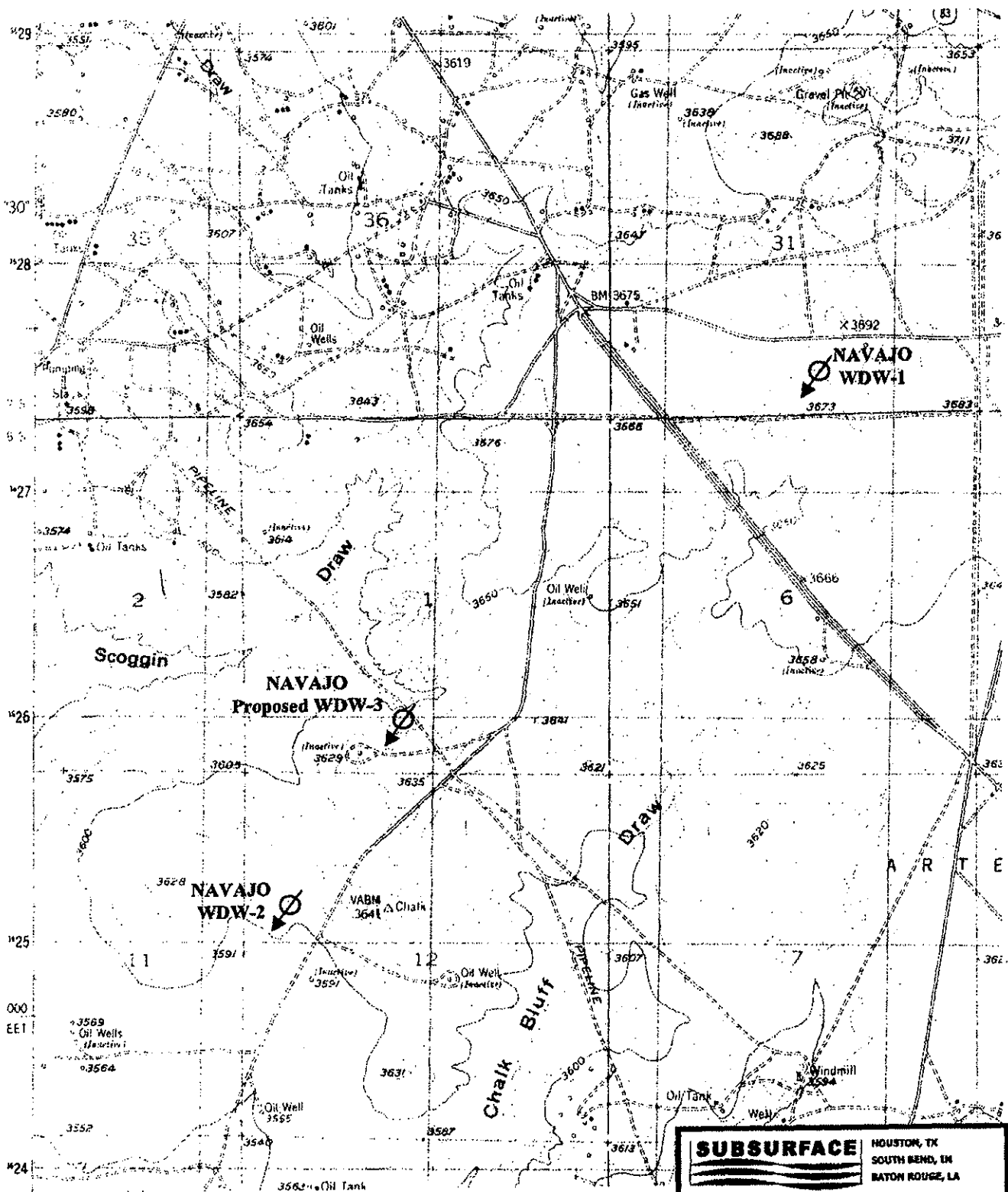
Title

Env. Mgr. for Water Waste

Navajo Refining Company

Company

Accepted for record - NMOCD



USGS Topographic Map
Red Lake Quadrangle, Eddy County, NM

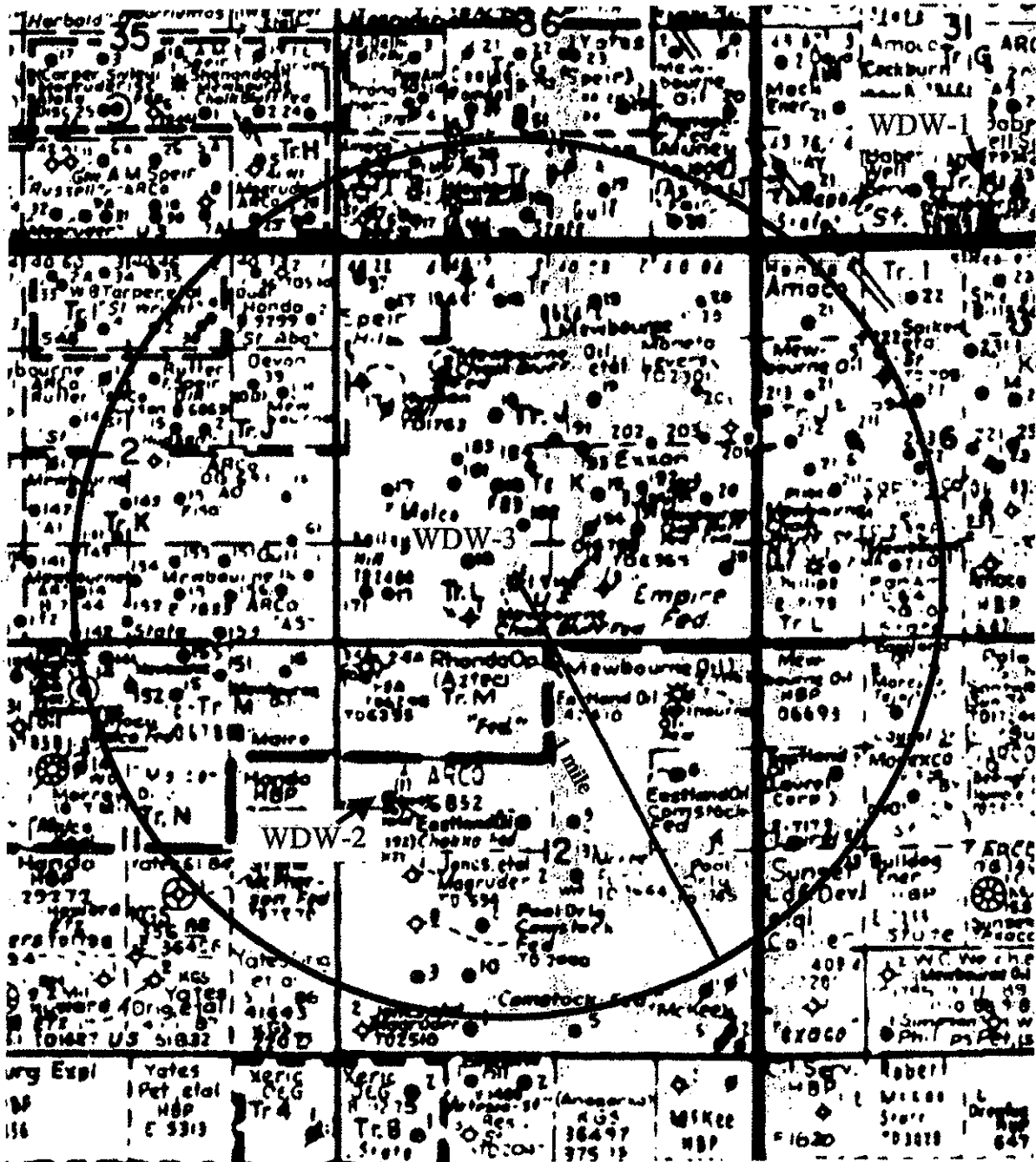
Section corners marked with +

Accepted for record - NMOCD

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
EXHIBIT A		
NAVAJO REFINING COMPANY		
PROPOSED WDW-3		
790' FSL, 2250' FWL 1-18S-27E		
DATE: 7/28/03	APPROVED BY: NLM	JOB NO: 6005497
DRAWN BY:	CHECKED BY:	SCALE: 1"=2000'

T17S - R27E

T17S - R28E



T18S - R27E
EDDY COUNTY, NM

Accepted for record - NMOCD

Map courtesy of Midland Map Company

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
EXHIBIT B		
WELLS WITHIN 1 MILE OF NAVAJO REFINING COMPANY PROPOSED WDW-3		
DATE: 7/28/03	APPROVED BY: NLN	JOB NO. 6605497
DRAWN BY:	CHECKED BY:	SCALE: N/A

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
NAVAJO REFINING COMPANY

3a. Address
P.O. BOX 159, ARTESIA, NM 8821

3b. Phone No. (Include area code)
505-746-5181

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

790' FSL, 2250' FWL, 1-18S - 27E

JUL 17 2006

OCD-ARTESIA

5. Lease Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
WDW-3

9. API Well No.
30-015-26575

10. Field and Pool, or Exploratory Area
NAVAJO INJECTION; PERMO-PEN

11. County or Parish, State
EDDY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other RECOMPLETE AS
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	CLASS 1
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	INJECTION WELL

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

ORIGINAL WELL NAME WAS CHALK BLUFF FEDERAL COM. NO. 1
WELL WILL BE PLUGGED BACK AND COMPLETED AS A CLASS 1 INJECTION WELL AS FOLLOWS:

DRILL OUT BRIDGE PLUG AT 7010' AND CLEAN OUT TO 7208';
INJECTION-TEST PERFORATIONS AT 7050'-7102', 7262'-7278' TO PLAN SQUEEZE CEMENT JOB;
DRILL OUT BRIDGE PLUGS AT 7208' AND 7294'. CLEAN OUT HOLE THROUGH PERFS AT 7304'-7314';
SQUEEZE-CEMENT PERFORATIONS AT 7050'-7102', 7262'-7278', AND 7304'-7314';
DRILL OUT BRIDGE PLUG AT 7600' AND CLEAN OUT TO TOP OF LINER AT 9051';
RUN CBL/VDL AND CALIFER FROM 9051' TO SURFACE;
PERFORATE 8540'-8620' AND 7660'-8450';
RUN INJECTIVITY TEST, AND ACIDIZE IF NECESSARY;
RUN INJECTION/FALLOFF TEST;
RUN DIFFERENTIAL TEMPERATURE SURVEY;
RUN RADIOACTIVE TRACER SURVEY;
INSTALL INJECTION TUBING AND PACKER TO APPROX. 7600'; AND
INSTALL WELL ANNULUS MONITORING EQUIPMENT, AND PREPARE FOR WELL INJECTION.

ACCEPTED FOR RECORD

JUL 12 2006

LES BABYAK
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

DARRELL MOORE

Title ENVIRONMENTAL MANAGER FOR WATER & WASTE

Signature

Darrell Moore

Date

6/29/06

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Accepted for record
NMOCB/8

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
(Carl Chavez & Leonard Lowe- OCD)
November 15, 2006

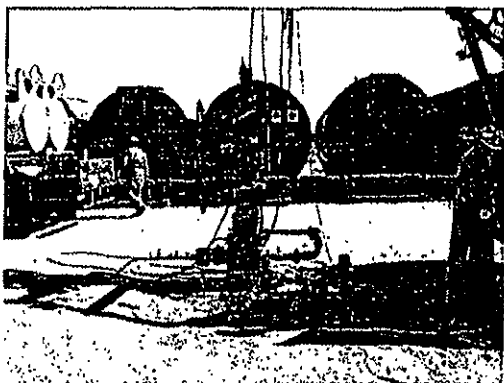


Image 1: Facing west. Christmas Tree with 500-barrel tanks in background. Far left tank was the only tank providing salt water. Truck on left is the pump truck pumping brine water only. Right truck is the rig truck (Wood Group Logging Service).

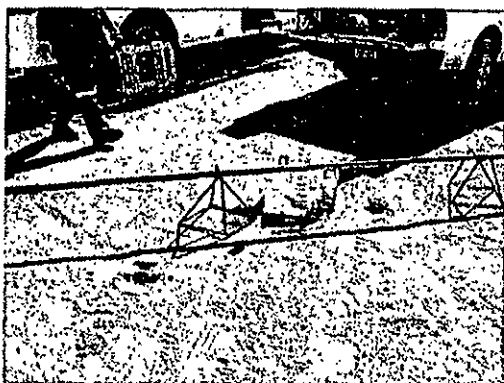


Image 2: Radioactive tool set up. Tracer, Iodine 131 (half-life ~ 8 days).



Image 3: Rig truck with view of data logger compartment (Wood Group Logging Services).

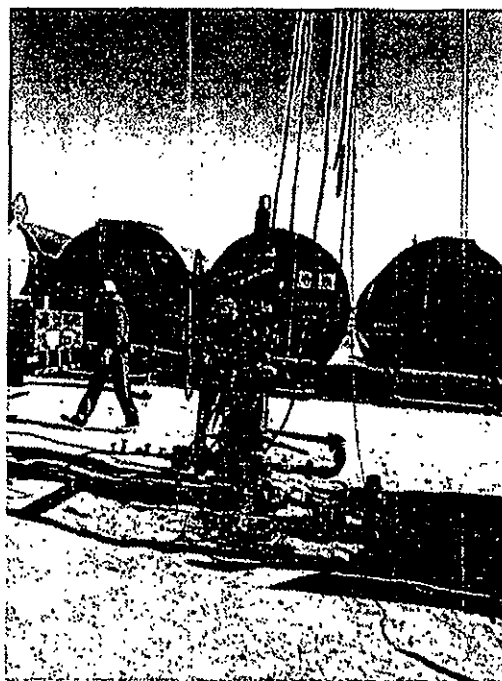


Image 4: Petroplex workers prepping wellhead for wire line tool entry.

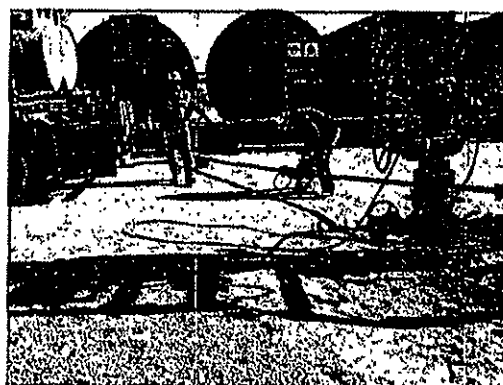


Image 5: Petroplex employees laying pipe from pump truck to well head.

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
(Carl Chavez & Leonard Lowe- OCD)
November 15, 2006

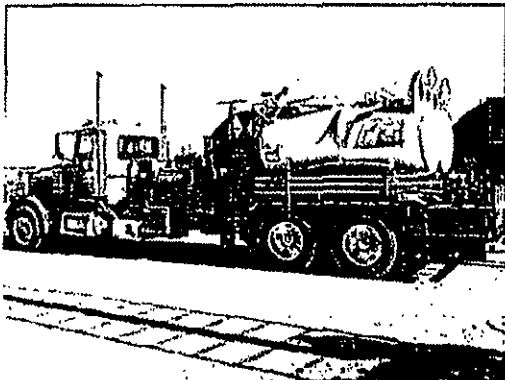


Image 6: Pump truck, Petroplex, for Brine water pumping only. No HCL used throughout process.

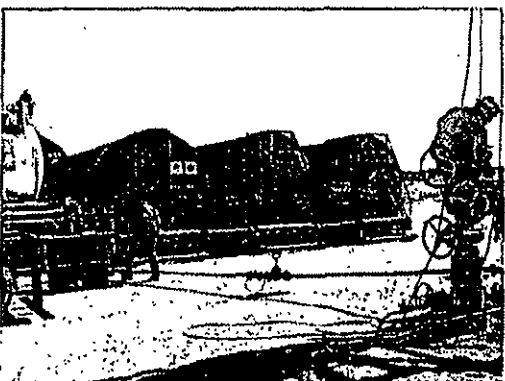


Image 7: Securing of the wire line to the wellhead.

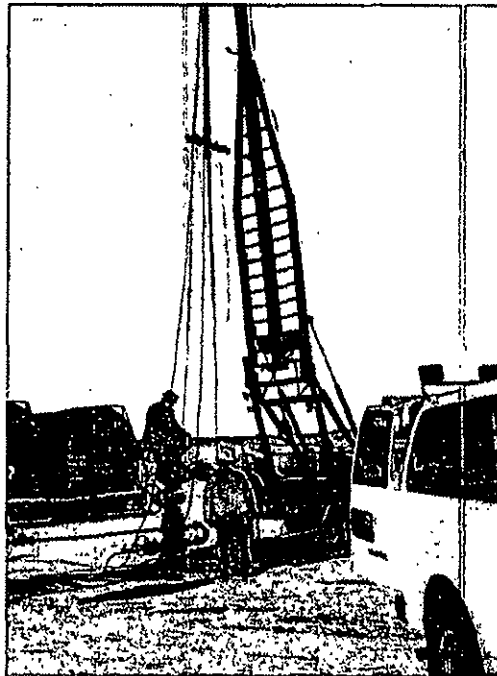


Image 8: Wood Group employee securing wellhead for tool entry.

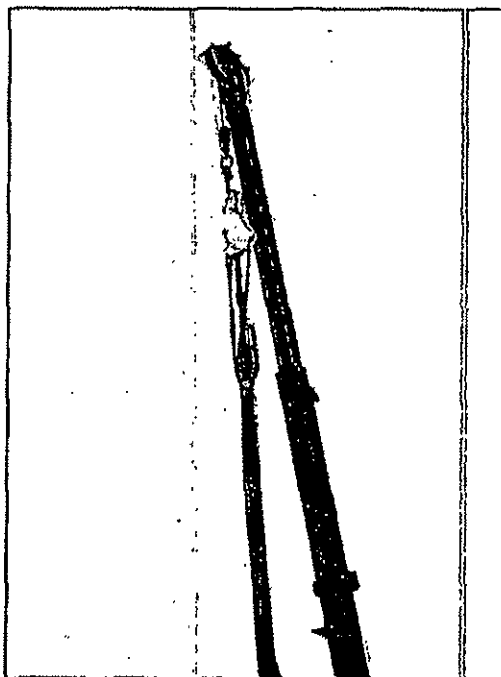


Image 9: Configuration at the top end of the boom.

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
(Carl Chavez & Leonard Lowe- OCD)
November 15, 2006

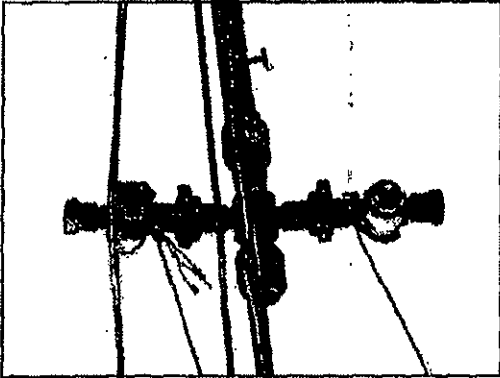


Image 10:

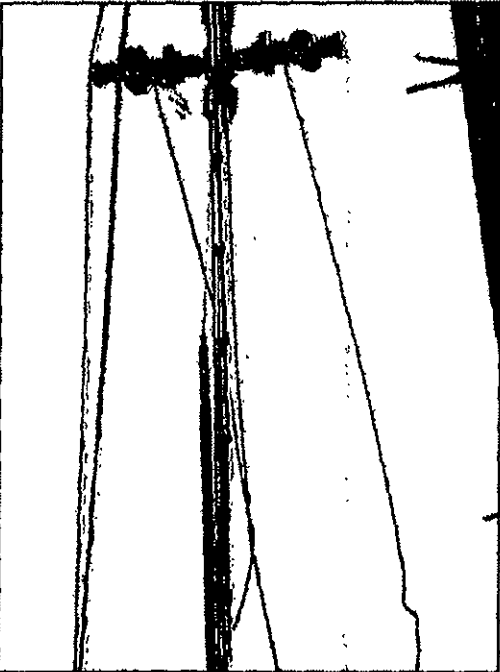


Image 11:

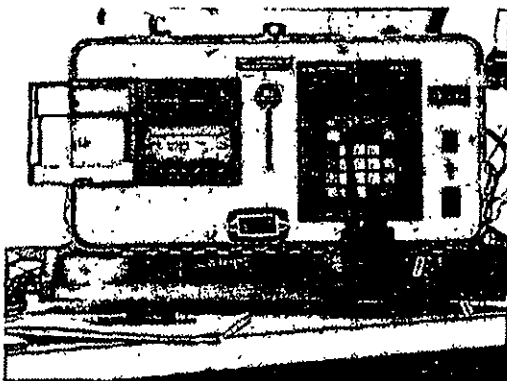


Image 12:

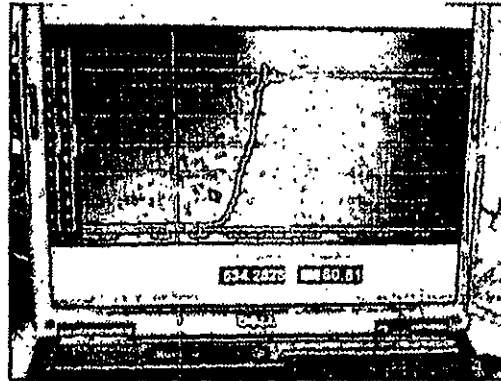


Image 13:

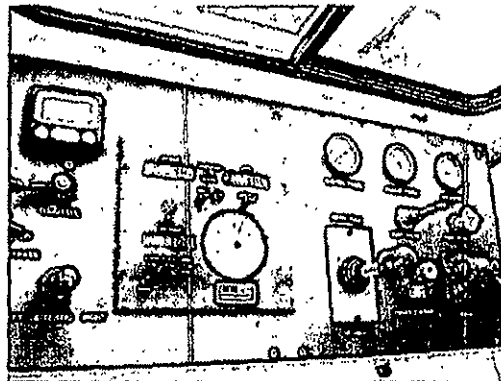


Image 14:

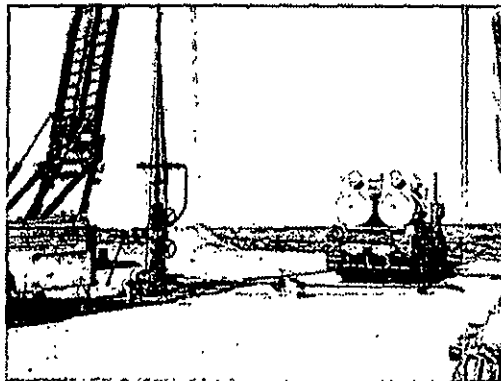


Image 15:

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
(Carl Chavez & Leonard Lowe- OCD)
November 15, 2006

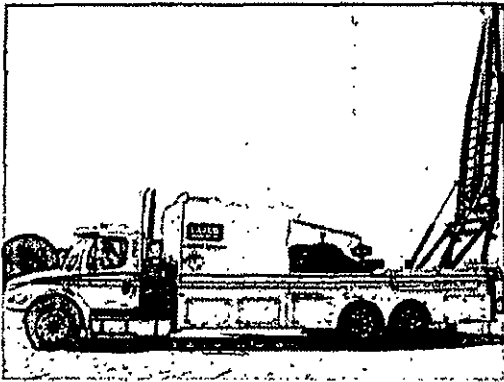


Image 16:

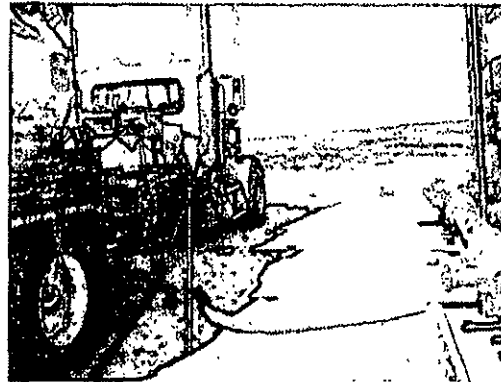


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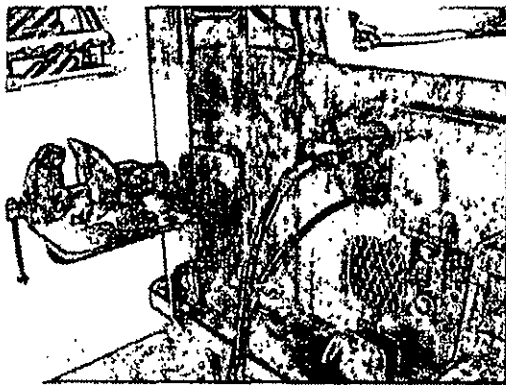


Image 17:

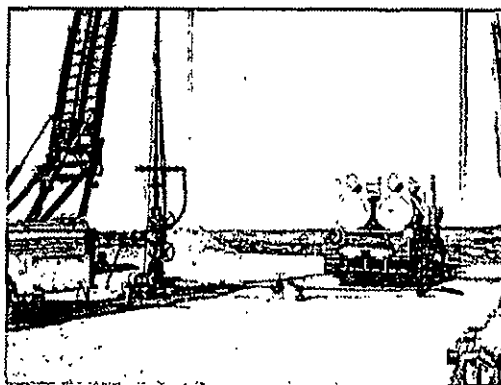


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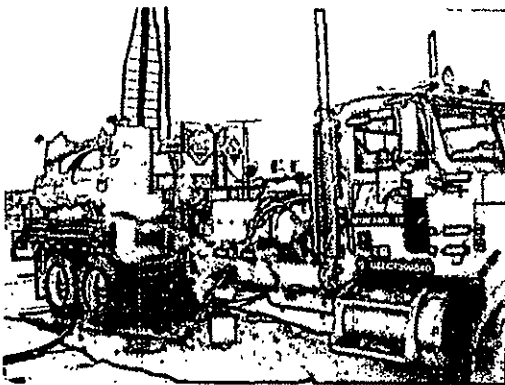
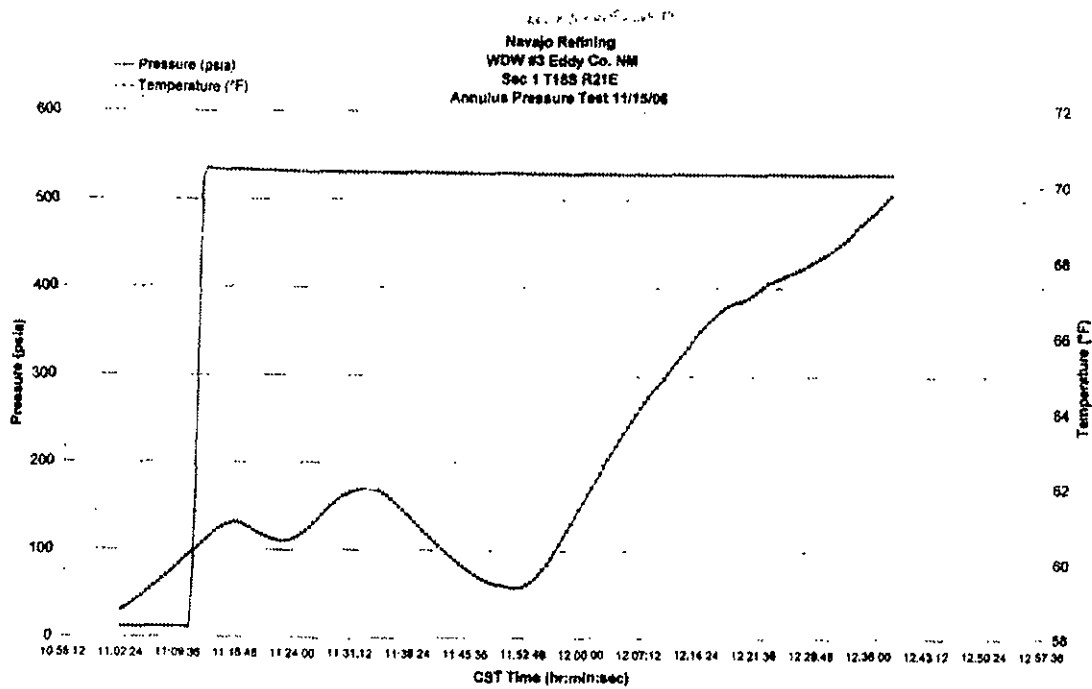
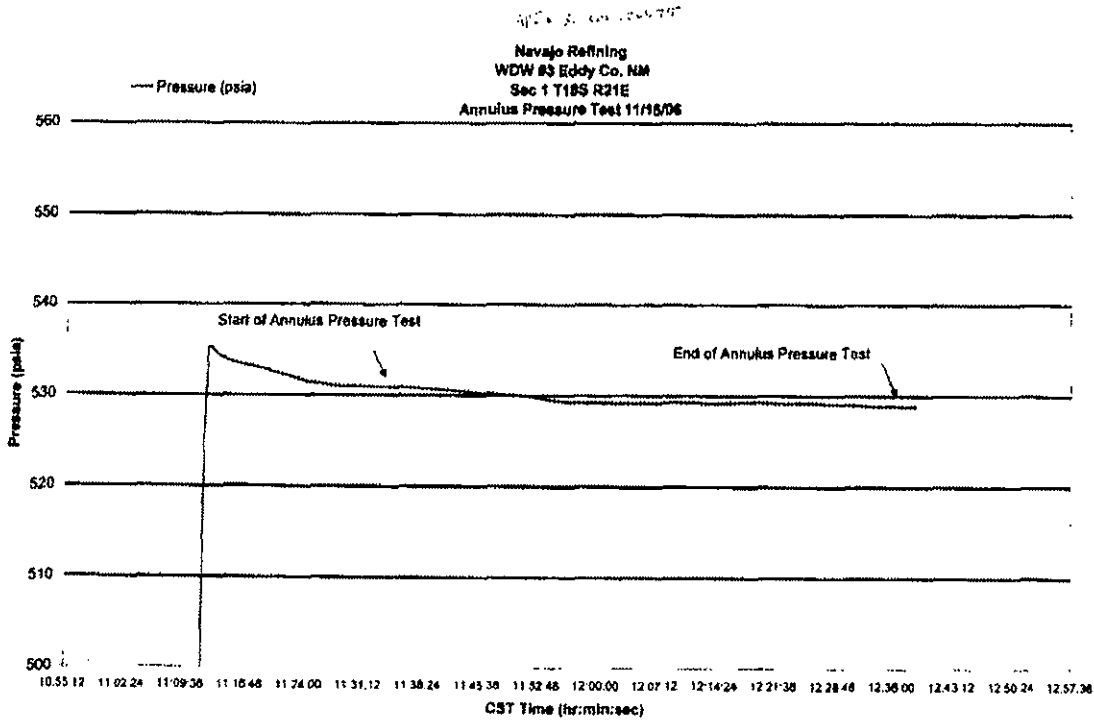


Image 18:



Image 21:

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
 (Carl Chavez & Leonard Lowe- OCD)
 November 15, 2006



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address NAVAJO REFINING COMPANY		OGRID Number 30-015-26575
Property Code	Property Name WDW	Well No. J
Proposed Pool 1 NAVAJO INJECTION; PERMO-PENN		Proposed Pool 2

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	I	18S	27E		2250 FWL		750 FSL		EDDY

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

Work Type Code E	Well Type Code I	Cable/Rotary R	Lease Type Code	Ground Level Elevation 3609
Multiple NO	Proposed Depth 9051'	Formation CANYON	Contractor	Spud Date
Depth to Groundwater UNKNOWN		Distance from nearest fresh water well 1.25 ML TO 18.28 7.330		Distance from nearest surface water 10 MILES
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13 3/8"	54.50#	400'	425 - CIRC	
12-1/4"	9 5/8"	36#	2604'	1025 - CIRC	
8-3/4"	7"	26# and 29#	9450'	1350 - CIRC	

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

ORIGINAL WELL NAME WAS CHALK BLUFF FEDERAL COM. NO. 1

WELL WILL BE PLUGGED BACK AND COMPLETED AS A CLASS I INJECTION WELL AS FOLLOWS:

DRILL OUT BRIDGE PLUG AT 7010' AND CLEAN OUT TO 7208';

INJECTION-TEST PERFORATIONS AT 7050'-7102', 7262'-7278' TO PLAN SQUEEZE CEMENT JOB;

DRILL OUT BRIDGE PLUGS AT 7208' AND 7294'. CLEAN OUT HOLE THROUGH PERFS AT 7304'-7314';

SQUEEZE-CEMENT PERFORATIONS AT 7050'-7102', 7262'-7278', AND 7304'-7314';

DRILL OUT BRIDGE PLUG AT 7600' AND CLEAN OUT TO TOP OF LINER AT 9051';

RUN CBL/VDL AND CALIPER FROM 9051' TO SURFACE;

PERFORATE 8540'-8620' AND 7660'-8450';

RUN INJECTIVITY TEST, AND ACIDIZE IF NECESSARY;

RUN INJECTION/FALLOFF TEST;

RUN DIFFERENTIAL TEMPERATURE SURVEY;

RUN RADIOACTIVE TRACER SURVEY;

INSTALL INJECTION TUBING AND PACKER TO APPROX. 7600'; AND

INSTALL WELL ANNULUS MONITORING EQUIPMENT, AND PREPARE FOR WELL INJECTION.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

OIL CONSERVATION DIVISION

Approved by:

Wayne Price

Printed name: *Darrell Moore*

Title:

Title: *Env. Mgr. for Water & Waste*

Approval Date:

8/11/06

Expiration Date:

8/11/07

E-mail Address: *darrell.moore@navajo-refining.com*

Date: *6/29/06*

Phone: *505-746-5201*

Conditions of Approval Attached ☒

*DISTRICT OFFICE MUST
APPROVE CASING
PROGRAM.*

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30 - 015 -26575		² Pool Code	³ Pool Name Navajo Injection; Permo-Penn
⁴ Property Code	⁵ Property Name WDW		⁶ Well Number 3
⁷ OGRID No.	⁸ Operator Name Navajo Refining Company		⁹ Elevation 3609' GL; 3625' KB

¹⁰ Surface Location

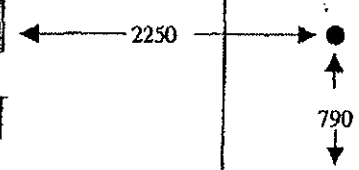
UL or lot no. N	Section 1	Township 18S	Range 27E	Lot Idn	Feet from the 790	North/South line South	Feet from the 2250	East/West line West	County Eddy
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <i>Darrell Moore</i> Printed Name: Darrell Moore Title and E-mail Address: Env. Mgr. for Water Waste darrell@navajo-refining.com Date: 9/17/03			
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor:			
	Certificate Number			

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

790' FSL and 2250' FWL, Section 1, T18S, R27E
Eddy County, New Mexico
Chalk Bluff Federal Com. No. 1, API No. 30-015-26575

All depths are in feet below well's original kelly bushing height (RKB) of 16 feet above ground level. The original KB elevation is 3625 feet above mean sea level. The ground level elevation is 3609 feet above mean sea level.

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

San Andres	1976 feet	Lower Wolfcamp	7303 feet
Yeso	4030 feet	Cisco	7650 feet
Abo	5380 feet	Canyon	8390 feet
Wolfcamp	6745 feet	Strawn	8894 feet

Depth of Plugs

7010 feet in 7-inch casing above perforations 7050 feet to 7102 feet
7208 feet in 7-inch casing above perforations 7262 feet to 7278 feet
7294 feet in 7-inch casing above perforations 7304 feet to 7314 feet
7600 feet in 7-inch casing above perforations 7676 feet to 7678 and
7826 feet to 7830 feet
9800 feet in 4-1/2-inch liner above perforations 9861 feet to 9967 feet

Anticipated Formation Pressure

The expected bottom-hole pressure is 3448 pounds per square inch absolute (psia) at 9000 feet, for a gradient of 0.383 pounds per square inch (psi) per foot, or an equivalent


mud weight of 7.36 pounds per gallon (ppg). The bottom-hole pressure was determined from the pressure measured in Navajo's WDW-2, or 2813 psia, at 7570 feet. Navajo's WDW-2 is completed in the same interval proposed for WDW-3 and is located in 12-T18S-R27E, 3200 feet southwest of proposed WDW-3. The average specific gravity of the fluid in the Cisco and Canyon Formations is expected to be 1.025, which is the specific gravity of the fluid swabbed from WDW-2 in June 1999 from the interval between 7826 feet and 8399 feet. The expected bottom-hole pressure at 9000 feet in proposed WDW-3 is calculated below:

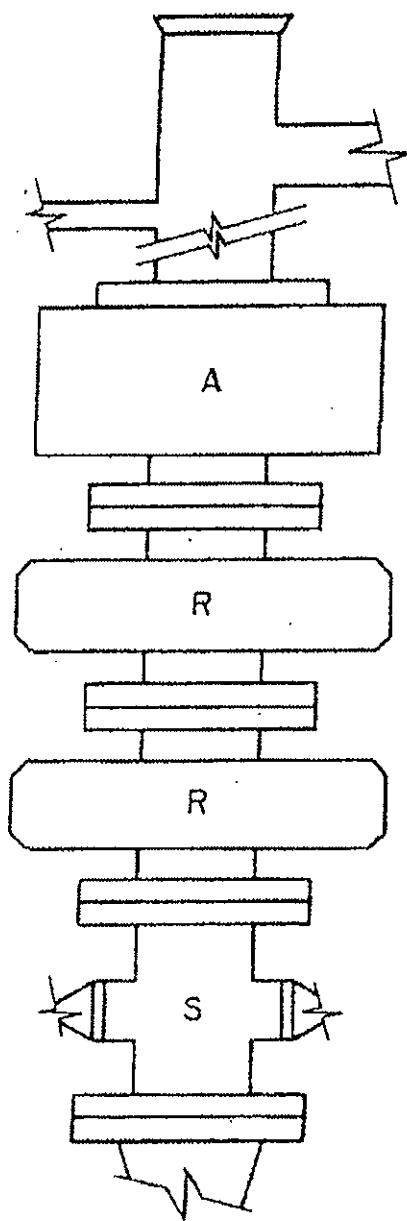
$$\begin{aligned}\text{BHP (9000 feet)} &= 2813 \text{ psia} + (9000 \text{ feet} - 7570 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.025 \\ &= 3448 \text{ psia}\end{aligned}$$

Reentry Procedure

1. Level location to accommodate a workover rig, pump, tanks, and ancillary equipment. Build a small working pit approximately 30 feet square and 3 feet deep with a plastic lining. Move in the rig, tank, shale shaker, and work string.
2. Install a 7-1/16-inch, 3000-psi double hydraulic blowout preventer (BOP) and a 7-1/16-inch, 3000-psi annular BOP (see Exhibit A for schematic). Pressure test the BOP stack and casing to 1500 psi for 30 minutes. Pick up a 6-1/8-inch bit, and sufficient 4-3/4-inch drill collars to drill out the cement plugs, on a 2-7/8-inch work string. Mix a tank of 8.5-ppg sodium chloride brine water for circulating fluid.
3. Run the bit to 7000 feet and circulate the wellbore fluid out of the casing into a frac tank for disposal. Drill out the cast iron bridge plug (CIBP), cement at 7010 feet, and clean out to the CIBP at 7208 feet. Circulate the hole clean and pump into the perforations from 7050 feet to 7102 feet to establish a rate and pressure for a pending squeeze cement job.
4. Drill out the CIBP at 7208 feet and clean out past the perforations from 7262 feet to 7278 feet and drill out the third CIBP at 7294 feet. Clean out below the perforations from 7304 feet to 7314 feet. Run a second injection test for injection rate and pressure comparison.

5. Pull the bit and run a retrievable squeeze packer on the work string. Set the packer at 7150 feet and test for communication between the perforations. Squeeze the perforations from 7262 feet to 7278 feet and 7304 feet to 7314 feet with approximately 100 sacks of neat cement (actual squeeze cement volume to be determined by the injection rate established previously), attempting to reach 1500 psi to 2000 psi squeeze pressure. Release the packer and reverse out any excess cement, then re-test the perforations to the squeeze pressure.
6. Re-set the packer at 6900 feet and squeeze the perforations from 7050 feet to 7102 feet as before.
7. Lay down the squeeze packer and drill out the cement to the CIBP at 7600 feet. Conduct a pressure test to 500 psi for 12 hours to confirm the squeeze cement will contain the annular fluid pressure required during injection operations.
8. Drill out the CIBP at 7600 feet and circulate to the top of the liner at 9051 feet. Circulate the casing clean with 8.5-ppg brine water. Pull the bit and lay down the drill collars.
9. Run a cement bond log with variable density (CBL/VDL) from the liner top to the surface, followed by a baseline multi-finger caliper log from the liner top to the surface.
10. Perforate the intervals 8540 feet to 8620 feet and 7660 feet to 8450 feet with 2 JSPF, using hollow steel carrier perforating guns.
11. Run the work string and retrievable packer to 7600 feet. Swab, or backflow, the perforated interval to recover a representative sample of the formation water for laboratory analysis. Monitor the recovered fluid for hydrogen sulfide.
12. Conduct a short injectivity test with 8.5-ppg brine water to determine the need for stimulation. If required, stimulate the perforations with acid (type and amount to be determined from injectivity results), followed by 500 barrels of 8.5-ppg brine water.

- 
13. Pull the work string and lay it down. Run a surface readout pressure gauge, with memory backup, to 7600 feet. Conduct an injection test down the casing at 420 gallons per minute for 12 hours (7200 barrels). Shut the well in and record the pressure falloff for a minimum of 12 hours.
 14. Pull the gauges and run a differential temperature survey from surface to 9100 feet. Run a radioactive tracer survey to demonstrate mechanical integrity.
 15. Run a tubing conveyed injection packer on 4-1/2-inch, 11.60 lb/ft, K-55, LT&C, 8rd injection tubing. Set the packer at approximately 7600 feet. Fill the annular space with 8.5-ppg brine water containing oxygen scavenger and corrosion inhibitor. Land the injection tubing in the wellhead and install the upper section.
 16. Pressure test the annulus as required by New Mexico regulations.
 17. Install well annulus monitoring equipment and prepare the well for injection.



A = ANNULAR BLOWOUT PREVENTER
7-1/16", 3000 psi working pressure

R = RAM TYPE BLOWOUT PREVENTER
7-1/16", 3000 psi working pressure

S = DRILLING SPOOL WITH SIDE OUTLETS
7-1/16", 3000 psi working pressure

Manual Choke Manifold 2", 3000 psi working pressure

Source: API RP 53, Recommended Practices
for Blowout Prevention Equipment Systems

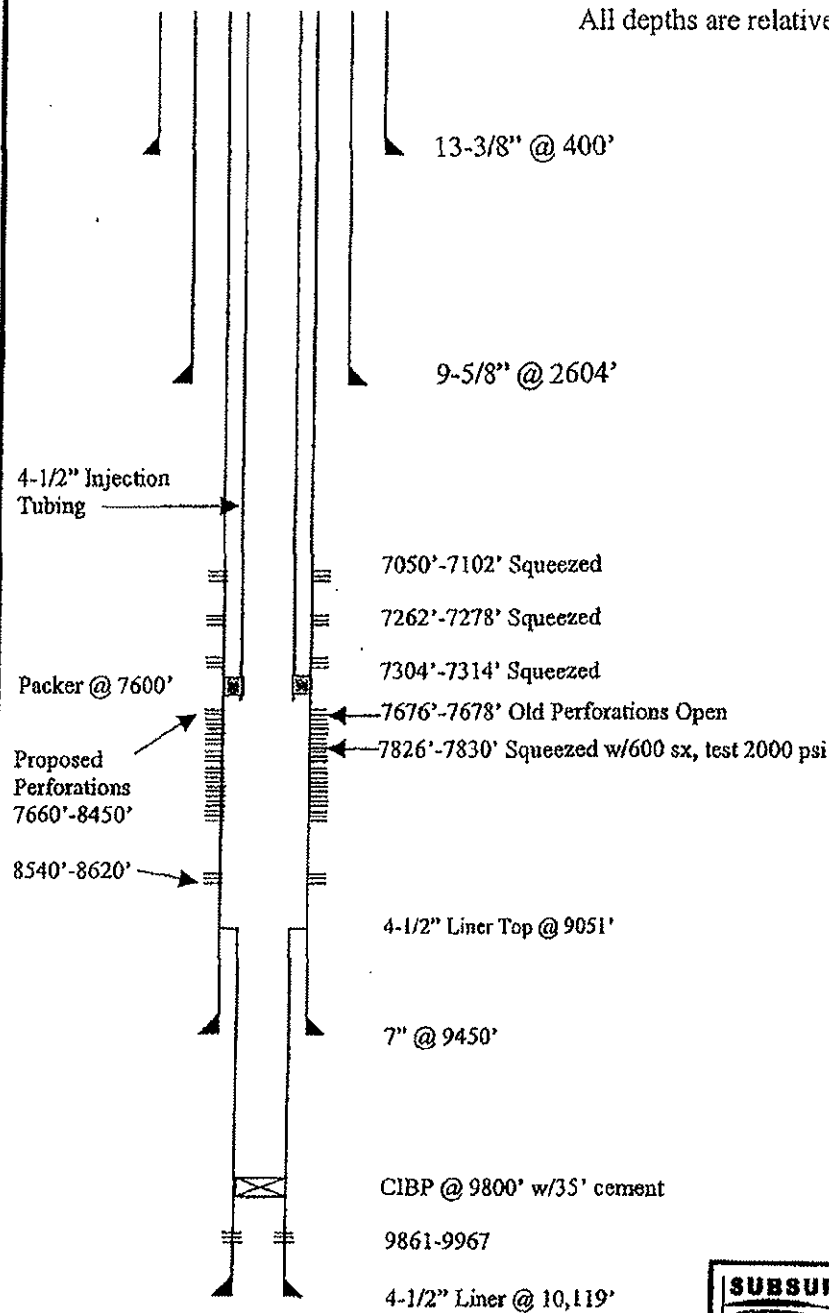
SUBSURFACE

HOUSTON, TX
SOUTH BEND, IN
BATON ROUGE, LA

Exhibit A
Blowout Preventer Minimum
Requirements

DATED: 07/24/03	APPROVED BY:	JOB NO. 6405487
DRAWN BY: JDB	CHECKED BY:	SCALE: N/A

All depths are relative to kelly bushing



Not to Scale

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Navajo Refining Company Proposed WDW-3 orig. Chalk Bluff Federal Com 1		
DATE: 07/24/03	APPROVED BY:	JOB NO. 6045497
DRAWN BY: JDB	CHECKED BY:	SCALE: N/A

SURFACE USE PLAN

NAVAJO REFINING COMPANY
PROPOSED WDW-3
790' FSL, 2250' FWL, 1-T 18S-R27E
EDDY COUNTY, NEW MEXICO

1. Existing Roads: Existing roads that lead to the proposed drillsite are shown on Exhibit A.
2. Access Roads To Be Constructed: No new access road is proposed.
3. Location of Existing Wells: Existing wells within one mile of proposed WDW-3 are shown on Exhibit B.
4. Location of Proposed Facilities If Well Is Completed: The well will be shut in after completion and testing.
5. Location and Type of Water Supply: Water for reentry, testing, and completion operations will be purchased from a commercial water hauler.
6. Source of Construction Materials: No construction materials will be required.
7. Methods of Handling Waste Disposal:
 - A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits.
 - D. Trash, waste paper, garbage, and junk will be buried in a trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
 - E. All trash and debris will be buried or removed from the wellsite after finishing drilling and/or completion operations.

8. Ancillary Facilities: None anticipated.

9. Wellsite Layout:

- A. The existing well pad will be leveled to accommodate a workover rig, pump, tanks, and ancillary equipment.
- B. Existing topsoil to a depth of 6 inches will be lifted and stockpiled at the uphill end of the well pad. The stockpiled topsoil will be located uphill to avoid mixing with subsurface materials.
- C. The well pad will be surfaced with material found in place.
- D. A small working pit will be constructed to hold drilling fluids and cuttings. The approximate dimensions of the pit will be 30 feet x 30 feet x 3 feet.
- E. The working pit for drilling fluids and cuttings will be lined with 6-mil plastic.

10. Plans for Restoration of Surface:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, all equipment, trash, and junk will be removed and the location cleaned.
- D. The stockpiled topsoil will be spread over the surface of the location.

11. Surface Ownership: U.S. Department of Interior, Bureau of Land Management.

12. Archaeological Survey: Navajo Refining Company is conducting an archeological survey. The report of the survey will be submitted by Navajo under separate cover.

13. Operator's Representatives: Representatives responsible for assuring compliance with the approved Surface Use Plan:

Mr. Darrell Moore
Navajo Refining Company
Post Office Box 159
Artesia, New Mexico 88211
505/748-3311

Mr. Jim Bundy
Subsurface Technology, Inc.
7020 Portwest Drive, Suite 100
Houston, Texas 77024
713/880-4640

Exhibits

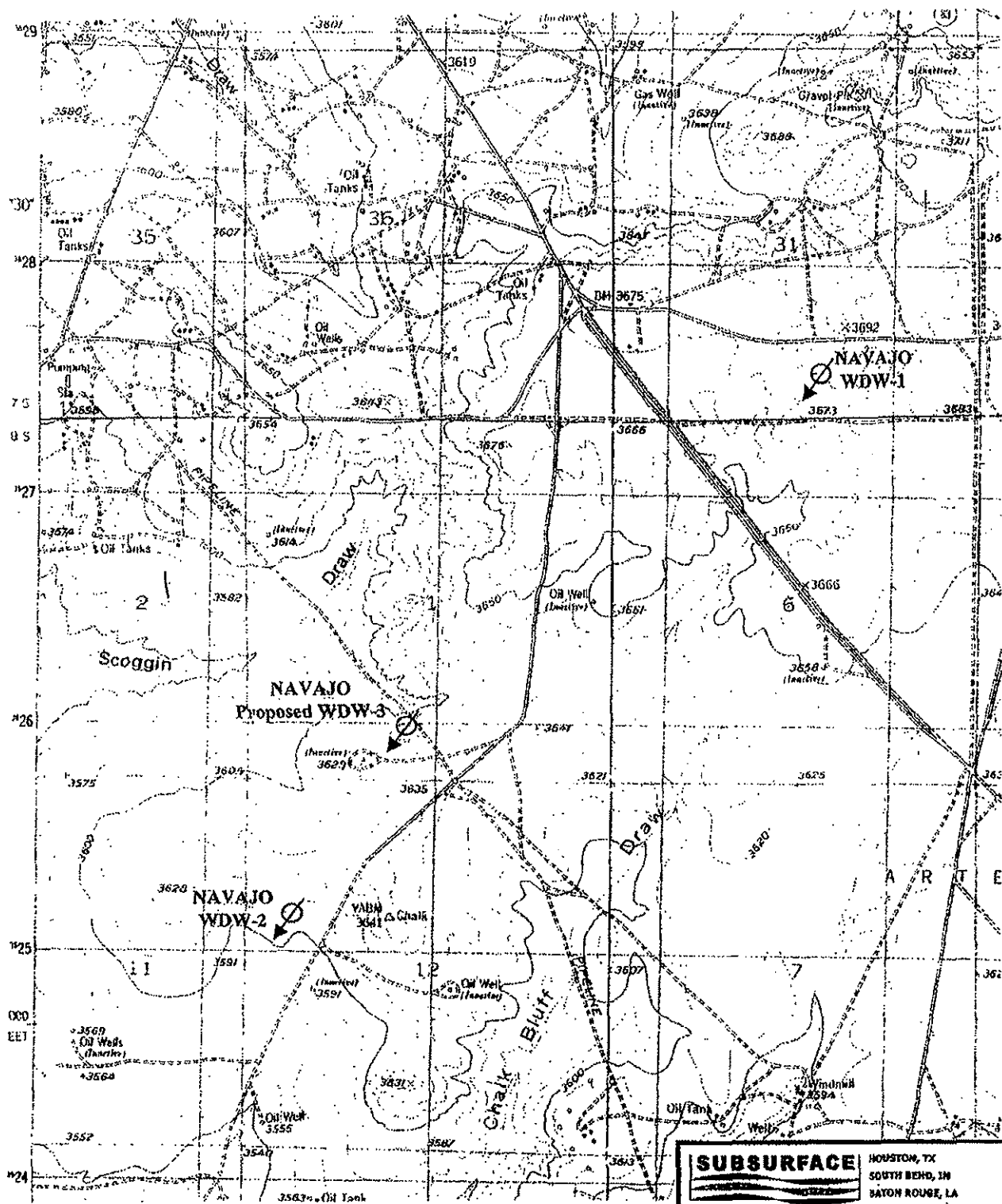
- A. Topographic Map
- B. Oil and Gas Map

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Navajo Refining Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

9/17/03
Date

Darrell Moore
Signature
Darrell Moore
Name
Env. Mgr. for Water-Waste
Title
Navajo Refining Company
Company



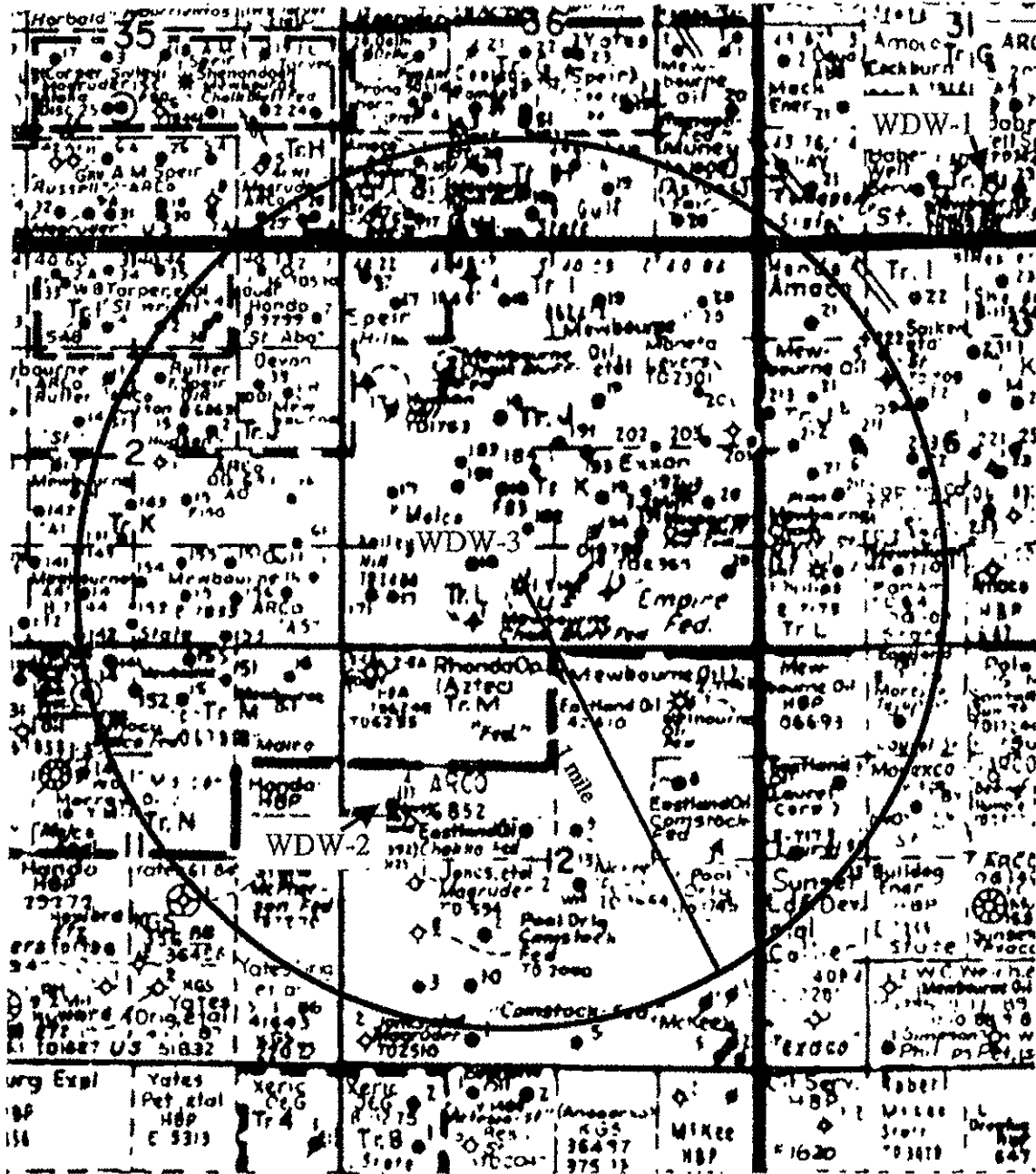
USGS Topographic Map
Red Lake Quadrangle, Eddy County, NM

Section corners marked with +

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
EXHIBIT A		
NAVAJO REFINING COMPANY		
PROPOSED WDW-3		
790' FSL, 2250' FWL 1-18S-27E		
DATE: 7/28/83	APPROVED BY: HLN	JOB NO: 6005497
DRAWN BY:	CHECKED BY:	SCALE: 1"=2000'

T17S - R27E

T17S - R28E



T18S - R27E
EDDY COUNTY, NM

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
EXHIBIT B		
WELLS WITHIN 1 MILE OF NAVAJO REFINING COMPANY PROPOSED WDW-3		
DATE: 7/28/03	APPROVED BY: HLN	JOB NO. 6905407
DRAWN BY:	CHECKED BY:	SCALE: N/A

Map courtesy of Midland Map Company

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30 - 015 - 26575

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
NM-0557371

7. Lease Name or Unit Agreement Name
WDW - 3

8. Well Number 3

9. OGRID Number

10. Pool name or Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS,
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
NAVAJO REFINING COMPANY

3. Address of Operator
P.O. BOX 159, ARTESIA, NM 88211

4. Well Location

Unit Letter _____: 790 feet from the SOUTH line and 2250 feet from the WEST line

Section 1 Township 18 south Range 27 East NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
GR 3609', RKB 3625'

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type N/A Depth to Groundwater 100 FT Distance from nearest fresh water well 1 MILE Distance from nearest surface water 6 MILES

Pit Liner Thickness: N/A mil Below-Grade Tank: Volume N/A bbls; Construction Material N/A

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: To complete a Class 1 non-hazardous waste well ☒

OTHER: Well completion report to follow ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See attached well summary document and well schematic.

MIT Witnessed by Carl Chavez
No Chart Submitted
/s/

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Paul Mose TITLE Env. Mgr. for Waters & Waste DATE 1/18/07

Type or print name
r State Use Only

E-mail address:

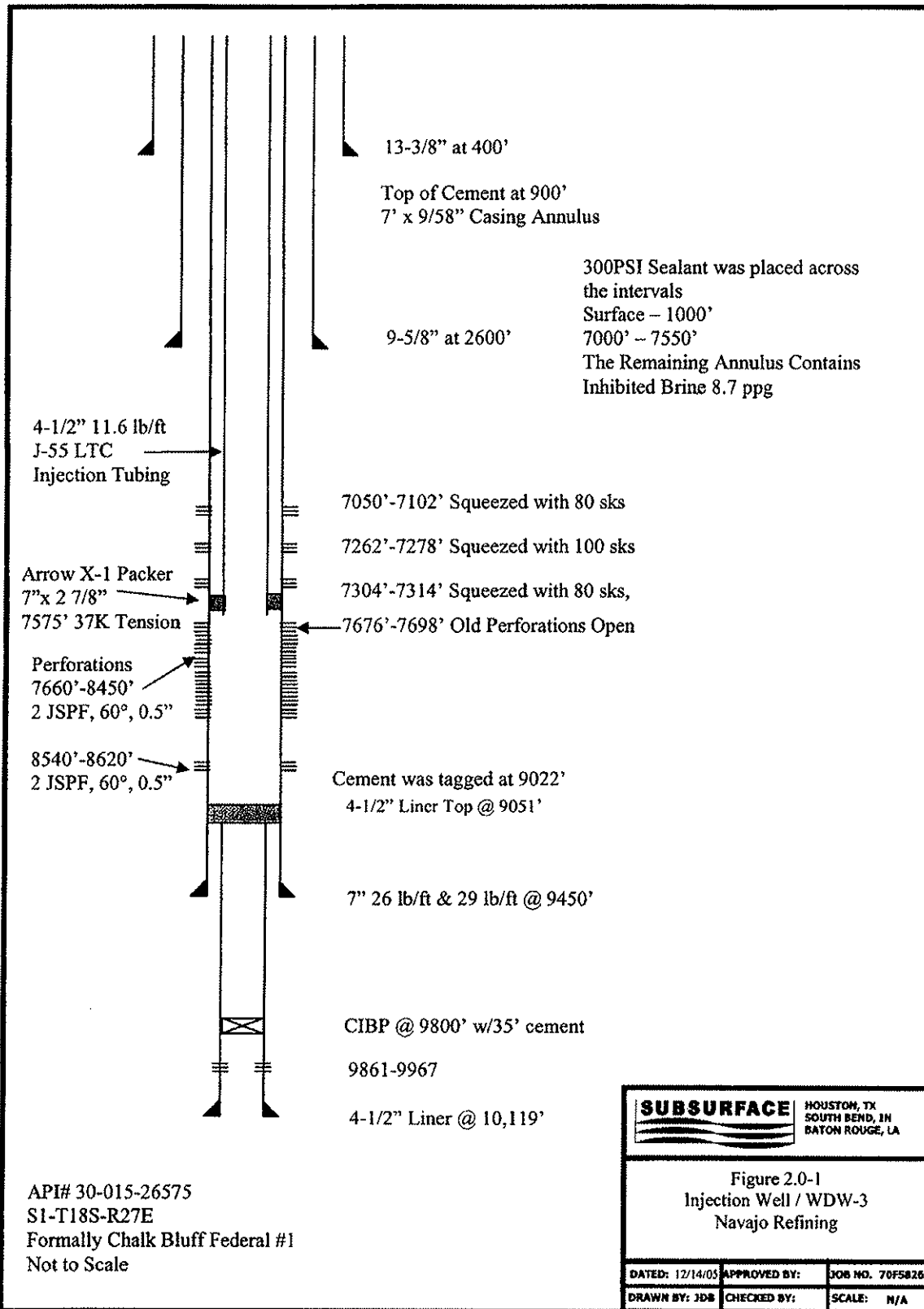
Telephone No.

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Accepted for record
NMOCD /s/

Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III J Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505		Form C-105 Revised June 10, 2003									
		WELL API NO. 30 - 015 - 26575											
		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>											
		State Oil & Gas Lease No.											
WELL COMPLETION OR RECOMPLETION REPORT AND LOG													
1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Non-hazardous Waste Disposal Well b. Type of Completion: NEW <input type="checkbox"/> WORK <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG <input type="checkbox"/> DIE <input type="checkbox"/> RESVR <input type="checkbox"/> BACK <input type="checkbox"/> WELL OVER				7. Lease Name or Unit Agreement Name Waste Disposal Well / WDW - 3									
2. Name of Operator NAVAJO REFINING COMPANY				8. Well No. 3									
3. Address of Operator P.O. BOX 159, ARTESIA, NM 88211				9. Pool name or Wildcat									
4. Well Location Unit Letter _____ : 790 Feet From The <u>SOUTH</u> Line and 2250 Feet From The <u>WEST</u> Line Section 1 Township 18 South Range 27 East NMPM County Eddy, NM													
10. Date Spudded 12/22/90		11. Date T.D. Reached 1/29/91		12. Date Compl. (Ready to Prod.) Injection 1/15/07									
13. Elevations (DF& RKB, RT, GR, etc.) DF 3616 ft / GR 3609 ft		14. Elev. Casinghead 3609 ft											
15. Total Depth 10,119 ft		16. Plug Back T.D. 9020 ft		17. If Multiple Compl. How Many Zones? 2									
18. Intervals Drilled By		Rotary Tools (Recently Drill out CIBP Plugs with Swivel)		Cable Tools									
19. Producing Interval(s), of this completion - Top, Bottom, Name Injection Interval 7660 ft to 8450 ft Cisco & 8540 ft to 8620 ft Canyon				20. Was Directional Survey Made No									
21. Type Electric and Other Logs Run CBL/VDL, Temperature, Caliper, Radioactive Tracer, Pressure				22. Was Well Cored No									
23. CASING RECORD (Report all strings set in well)													
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED								
13 3/8"	54.50	400'	17 1/2"	425-CIRC	NONE								
9 5/8"	36	2604'	12 1/4"	1025-CIRC	NONE								
7"	29 & 26	9450'	8 3/4"	1350-CIRC	NONE								
24. LINER RECORD													
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN									
4 1/2"	9051'	10,119'	175	NONE									
25. TUBING RECORD													
SIZE	DEPTH SET	PACKER SET											
4 1/2"	7567'	7575'											
26. Perforation record (interval, size, and number) 7660' TO 8450' / 0.5" / 2 JSPP / 60° 8540' TO 8620' / 0.5" / 2 JSPP / 60°													
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">DEPTH INTERVAL</th> <th style="text-align: left;">AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>7050' TO 7102'</td> <td>80 SKS PREM 14.8 PPG CMT SQZ PERF</td> </tr> <tr> <td>7262' TO 7278'</td> <td>100 SKS PREM 14.8 PPG CMT SQZ PERF</td> </tr> <tr> <td>7304' TO 7314'</td> <td>80 SKS PREM 14.8 PPG CMT SQZ PERF</td> </tr> </table>						DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	7050' TO 7102'	80 SKS PREM 14.8 PPG CMT SQZ PERF	7262' TO 7278'	100 SKS PREM 14.8 PPG CMT SQZ PERF	7304' TO 7314'	80 SKS PREM 14.8 PPG CMT SQZ PERF
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7304' TO 7314'	80 SKS PREM 14.8 PPG CMT SQZ PERF												
28. PRODUCTION													
Date First Production (INJECTION WELL)		Production Method (Flowing, gas lift, pumping - Size and type pump) (INJECTION PUMP)		Well Status (Prod. or Shut-in) (SHUT-IN)									
Date of Test	Hours Tested	Choke Size NO CHOKE INJECT TEST	Prod'n For Test Period N/A	Oil - Bbl N/A	Gas - MCF N/A								
10/19/06	4 HOURS	Calculated 24-Hour Rate 8 BPM	Oil - Bbl. N/A	Gas - MCF N/A	Water - Bbl. N/A								
Flow Tubing Press. MAX INJECT 1450 PSI	Casing Pressure 750 PSI	Oil Gravity - API - (Corr.) N/A											
29. Disposition of Gas (Sold, used for fuel, vented, etc.) NO GAS					Test Witnessed By								
30. List Attachments WELL SUMMARY OF EVENTS, WELL WAS CONVERTED TO A CLASS I NON-HAZARDOUS WATER WASTE DISPOSAL WELL. A FULL REPORT WILL FOLLOW AT A LATER DATE.													
31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief													
Signature <i>Darrell Moore</i>		Printed Name <i>Darrell Moore</i>		Title <i>Env. Mgr.</i>									
E-mail Address <i>darrell.moore@navajo-refining.com</i>		Date <i>1/8/07</i>											



Well Summary

Navajo Refining Company (Navajo) contracted Subsurface Technology, Inc. (Subsurface), to prepare an application for permit and to reenter a plugged and abandoned (P&A) oil and gas well. The Application for Permit to Drill or Reenter and the Sundry Notices and Reports on Wells was submitted to the Department of the Interior, Bureau of Land Management (BLM), on June 29, 2006 and approved. The Application for Permit to Drill, Re-enter, Deepen, Plug Back, or add a Zone was submitted to the State of New Mexico Oil Conservation Commission (OCD) on June 29, 2006 and approved.

Subsurface prepared an engineering plan to reenter the P&A'd oil and gas well formally owned by Mewbourne Oil Company. The original well name was Caulk Bluff Federal #1 (API number 30-015-26575), and a Change of Operator application was submitted to the OCD on December 5, 2000 and approved under the well name of WDW-3. Under contract to Navajo, Subsurface commenced field operations on September 25, 2006. The existing location was cleared and prepared for reentry operations. An earthen lined reserve pit was dug to catch returns. All depths unless stated are referenced to rig floor at six feet to seven feet above ground level. The rig floor was moved from six feet to seven feet after drilling out the cast iron bridge plugs.

A workover rig and reverse unit was placed on location and the existing wellhead was removed. The first cast iron bridge plug (CIBP) at 7010 feet was drilled and the perforated interval from 7050 feet to 7102 feet was squeezed off with neat cement and successfully pressured tested to six hundred eighty pounds per square inch gauge pressure (680 psig). The second and third CIBP at 7190 feet and 7279 feet was drilled. There appeared to be ten feet of cement on top of the third CIBP. The perforated interval from 7262 feet to 7278 feet and from 7304 feet to 7314 feet was squeezed with neat cement. The squeezed interval was pressure tested to 920 psig and would not hold. A second cement squeeze was performed across the perforated interval from 7262 feet to 7278 feet and from 7304 feet to 7314. The interval was pressured tested to 630 psig and continued to lose pressure at a rate of two pounds per square inch every thirty minutes (2 psi/30 min). The fourth CIBP at 7595 feet was drilled and at 7838 feet a cement plug was encountered and drilled through. Cement was tagged twenty nine (29) feet above the top of the liner at 9022 feet. The hole was circulated clean and prepared for logging.

A Cement Bond Log (CBL), Variable Density Log (VDL), caliper log, and temperature survey were performed. The CBL/VDL showed that the top of the cement (TOC) behind the 7-inch casing was located 900 feet from the surface. The OCD was notified and approved the existing well condition. The casing was perforated from 7660 feet to 8450 feet and from 8540 feet to 8620 feet at 2-JSPF on sixty degree (60°) phasing.

A packer was set at 7546 feet with 2 7/8-inch PH-6 tubing, the well was swabbed back and samples of the formation fluid were recovered. It was estimated that two hundred twenty six barrels (226 bbls) of formation fluid was returned to the surface. A pressure test on the annulus between the 7-inch and 2 7/8-inch was performed at 660 psig with the annulus losing pressure at a rate of 8 psi/hr.

An injection test was performed on the well down the 2 7/8-inch tubing with the annulus open to the bottom of the well. The open annulus will allow for the calculation of the bottom hole pressure while pumping down the 2 7/8-inch tubing with out the influence of tubing friction pressure on the bottom hole calculations. The injection rates were from two barrels per minute (2 bpm) to ten barrels per minute (10 bpm). From the data collected during the injection test it appears that the well will be able to accept an injection rate up to 10 bpm at the permitted pressure of 1550 psig with 4 1/2-inch, 11.6 pound per foot (11.6 lb/ft) tubing in the wellbore.

At the request of the OCD, Subsurface went back into the wellbore with a retrievable bridge plug (RBP) to test the casing and isolate any leaks to within 1000 feet. The RBP was set at 7550 feet and the packer was set at 6985 feet to isolate the squeezed interval from 7050 feet to 7314 feet. The squeezed interval was pressure tested to 490 psig and the annulus to 632 psig. The squeezed interval was losing pressure at a rate of 6 psi/hr and the annulus was gaining pressure due to thermal affects. The RBP was moved up the wellbore to 1255 feet and casing pressure tested to 569 psig. The casing above 1255 feet was losing pressure at a rate of 2 psi/hr. The casing leaks were isolated to the squeezed interval from 7050 feet to 7314 feet and in the interval from surface to 1255 feet. The OCD was called and approved the 300PSI sealing application to stop the casing leaks across the two intervals.

The 4 1/2-inch tubing was run into the wellbore and the Arrow X-1 packer was set at 7575.73 feet with 37,000 lbs of tension. Prior to running the 4 1/2-inch tubing a new Superior hanging spool was installed. Prior to setting the tubing packer, the annulus between the 4 1/2-inch tubing and the 7-inch casing was filled with inhibited brine, with the 300psi sealant across the squeezed perforations and across the upper section of the 7-inch casing. Once the packer was set and casing hung off in the spool a new Superior wellhead was installed and the P-seals were pressure tested to 3000 psig. After the wellhead was assembled the annulus was squeezed at 545 psig for four hours (4 hrs) as specified by the sealant manufacture representative on site. The annulus was then pressure tested to 480 psig overnight with no pressure loss. Workover rig was disassembled and moved off location with all associated equipment.

A 12 hr pump in and falloff test was performed down the 4 1/2-inch tubing. To maintain a surface injection pressure that was below the permitted pressure of 1550 psi the injection rate was lowered to 9 bpm at the end of the pump in procedure. The BHP gauge was placed at 8630 feet for 14 hrs to monitor BHP, when the gauge was pulled five minute (5 min) gradient stops were made every 1000 feet with the first stop at 7000 feet. The analysis of the data showed interference from the adjacent injection wells, which skewed the results for determination of the skin and possibly the permeability. The equipment used to perform the falloff testing was moved off location to prepare for mechanical integrity testing (MIT).

The MIT was performed and witnessed by the OCD. The MIT consisted of an annulus pressure test, and a radioactive tracer survey. The temperature survey was performed during the CBL/VDL logging event and will be used as a baseline for any future temperature surveys. The annulus pressure test was performed at 530 psia and lost 2.5 psi over a one hour period, which was within the OCD requirements of five percent (5%)

over a 30 min time interval. The radioactive tracer survey showed no signs of fluid flow out of the permitted interval above 7650 feet. The OCD witnessed the annular pressure test and the first half of the radioactive tracer survey.

The annulus monitoring system was installed and tested. The well was turned over to Navajo for injection.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
0 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Large Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

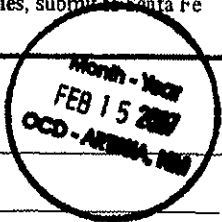
Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒



Operator: Navajo Refining Company Telephone: (505) 748-3311 e-mail address: _____
Address: 501 East Main Street, Artesia NM 88210
Facility or well name: WDW #3 API #: 30-015-26575 U/L or Qtr/Qtr _____ Sec 1 T 18 R 27E
County: Eddy Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) <u>50 feet or more, but less than 100 feet</u> (10 points) <u>10</u> 100 feet or more (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) <u>No</u> (0 points) <u>0</u>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) <u>1000 feet or more</u> (0 points) <u>0</u>
Ranking Score (Total Points) <u>10</u>	

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility CRI. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: NAVAJO REFINING COMPANY PLANS TO CLOSE DRILLING PIT ON THE WDW #3 AS PER NEW MEXICO OIL CONSERVATION DIVISION RULE 50 IN THE PIT AND BELOW GRADE TANK GUIDE LINES. NAVAJO PLANS TO REMOVE ALL FLUIDS AND DRILL CUTTINGS. ALL CUTTINGS WILL BE TAKEN TO A N.M.O.C.D. APPROVED SITE FOR DISPOSAL AND BACKFILL WITH ONSITE STOCKPILED SOILS. WE WILL NOTIFY O.C.D. 48 HOURS PRIOR TO BEGINNING WORK.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 2/14/06

Printed Name/Title: Chris Williams/Agent

Signature: Chris Williams

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

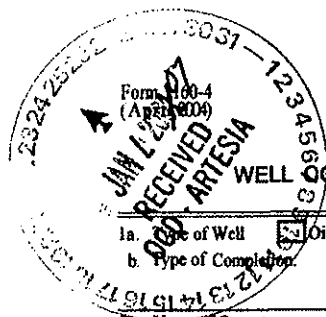
Printed Name/Title:

Jim W. Brown
District II Supervisor

Signature:

Date:

2/12/07



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☐ New Well ☒ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other _____

2. Name of Operator **NAVAJO REFINING COMPANY**

3. Address **P.O. BOX 159, ARTESIA, NM 88211**

3a. Phone No. (include area code)

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface **790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE**

At top prod. interval reported below **7650' AT THE SAME LOCATION AS ABOVE**

At total depth **PLUG BACK 10,119' AT THE SAME LOCATION AS ABOVE**

14. Date Spudded
12/22/1998

15. Date T.D. Reached
01/29/1991

16. Date Completed
☐ D & A ☐ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
3609'

18. Total Depth: MD **10,119'**
TVD **10,119'**

19. Plug Back T.D.: MD **9022'**
TVD **9022'**

20. Depth Bridge Plug Set: MD **CMT 9051'-9022'**
TVD **CMT 9051'-9022'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CBL/VDL, MULTI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Shurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	54.5	SURF	400'	400'	425 CLASS C		SURF	NONE
12 1/4"	9 5/8"	36	SURF	2604'	2604'	1025 "C"		SURF	NONE
8 3/4"	7"	29 & 26	SURF	9450'	9450'	1350 "H"		900'	NONE
6 1/4"	4 1/2"		9051'	10,119'	10,119'	175 CLASS H		9051'-TOL	NONE

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
4 1/2"	7567'	7567'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CISCO	7650'	8450'	7660' - 8450'	0.5"	1500	2 JSPP / 60°
B) CANYON	8540'	8620'	8540' - 8620'	0.5"	160	2 JSPP / 60°
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
7050' - 7102'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7262' - 7278'	100 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7304' - 7314'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATIONS

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Tbg. Press. Flwg. SI	Cog. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Tbg. Press. Flwg. SI	Cog. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

* (See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Pwng. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Pwng. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

N/A (NON-HAZARDOUS CLASS 1 WELL)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth

32. Additional remarks (include plugging procedure):

THE PLUGGED AND ABANDONED WELL WAS ACQUIRED FROM MEWBOURNE OIL COMPANY BY NAVAJO REFINING. NAVAJO RECOMPLETED THE WELL FOR INJECTING NON-HAZARDOUS WASTE WATER FROM THEIR REFINERY IN ARTESIA, NM. THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH CEMENT AT 7050' TO 7102', 7262' TO 7278', AND FROM 7304' TO 7314'. A 4 1/2" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7568' AND BOTTOM OF PACKER AT 7575'. MIT WAS WITNESSED BY OCD.

(SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)

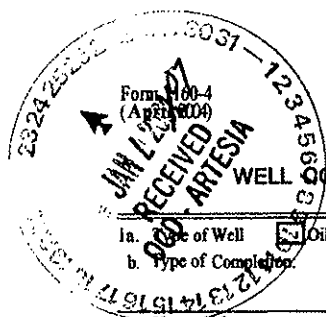
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☒ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Darrell Moore Title Env. Mgr for Water & Waste
 Signature Darrell Moore Date 1/24/07

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

1a. Name of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☐ New Well ☒ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.,
Other _____

2. Name of Operator **NAVAJO REFINING COMPANY**

3. Address **P.O. BOX 159, ARTESIA, NM 88211**

3a. Phone No. (include area code)

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface **790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE**

At top prod. interval reported below **7650' AT THE SAME LOCATION AS ABOVE**

At total depth **PLUG BACK 10,119' AT THE SAME LOCATION AS ABOVE**

14. Date Spudded
12/22/1990

15. Date T.D. Reached
01/29/1991

16. Date Completed
☐ D & A ☐ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
3609'

18. Total Depth: MD **10,119'**
TVD **10,119'**

19. Plug Back T.D.: MD **9022'**
TVD **9022'**

20. Depth Bridge Plug Set: MD **CMT 9051'-9022'**
TVD **CMT 9051'-9022'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CBL/VDL, MULTI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Shurry Vol. (EEL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	54.5	SURF	400'	400'	425 CLASS C		SURF	NONE
12 1/4"	9 5/8"	36	SURF	2604'	2604'	1025 "C"		SURF	NONE
8 3/4"	7"	29 & 26	SURF	9450'	9450'	1350 "H"		900'	NONE
6 1/4"	4 1/2"		9051'	10,119'	10,119'	175 CLASS H		9051'-TOL	NONE

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
4 1/2"	7567'	7567'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CISCO	7650'	8450'	7660' - 8450'	0.5"	1500	2 JSFF / 60°
B) CANYON	8540'	8620'	8540' - 8620'	0.5"	160	2 JSFF / 60°
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
7050' - 7102'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7262' - 7278'	100 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7304' - 7314'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATIONS

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Thg. Press. Flwg. SI	Cog. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Thg. Press. Flwg. SI	Cog. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

* (See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

N/A (NON-HAZARDOUS CLASS 1 WELL)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth

32. Additional remarks (include plugging procedure):

THE PLUGGED AND ABANDONED WELL WAS ACQUIRED FROM MEWBOURNE OIL COMPANY BY NAVAJO REFINING. NAVAJO RECOMPLETED THE WELL FOR INJECTING NON-HAZARDOUS WASTE WATER FROM THEIR REFINERY IN ARTESIA, NM. THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH CEMENT AT 7050' TO 7102', 7262' TO 7278', AND FROM 7304' TO 7314'. A 4 1/2" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7568' AND BOTTOM OF PACKER AT 7575'. MIT WAS WITNESSED BY OCD.

(SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☒ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Darrell Moore Title Env. Mgr for Western Waste
 Signature Darrell Moore Date 1/24/07

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007Anti-Year
MAR - 5 2007
OCD - ARTESIA, NM

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator NAVAJO REFINING COMPANY

3a. Address
P.O. BOX 159, ARTESIA, NM 88211

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

S1 - T18S - R27E ; 790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE

5. Lease Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

WDW-3

9. API Well No.

30 - 015 - 26575

10. Field and Pool, or Exploratory Area

11. County or Parish, State

EDDY

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input checked="" type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

NON-HAZARDOUS

CLASS I WELL

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

THE PLUGGED AND ABANDONED WELL WAS ACQUIRED FROM MEWBOURNE OIL COMPANY BY NAVAJO REFINING. NAVAJO RECOMPLETED THE WELL FOR INJECTING NON-HAZARDOUS WASTE WATER FROM THEIR REFINERY IN ARTESIA, NM.

10/1/06 - THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH NEAT CEMENT AT 7059' TO 7102', 7262' TO 7278', AND FROM 7304' TO 7314'.

10/13/06 - RAN CBL/VDL AND TEMPERATURE SURVEY, PERFORATED INTERVAL FROM 7650' TO 8450' AND FROM 8540' TO 8620'.

10/24/06 - A 4 1/2" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7568' AND BOTTOM OF PACKER AT 7575'.

11/4/06 - PERFORMED AN INJECTION/FALLOFF TEST ON THE WELL AT 9 TO 10 BPM.

11/15/06 - MECHANICALLY INTEGRITY TEST WERE PERFORMED AND WITNESSED BY THE OCD. THE MECHANICALLY INTEGRITY TEST CONSISTED OF RADIOACTIVE TRACER TEST AND AN ANNULUS PRESSURE TEST. (SEE THE ATTACHED WELL SUMMARY FOR MORE DETAILS.)

SUBJECT TO LIKE
APPROVAL BY STATE14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Darrell Moore

Title

Env. Mgr. for Water & Waste

Signature

Darrell Moore

Date

1/24/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Date

FEB 28 2007

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FREDERICK
PETROLEUM ENGINEER

(Instructions on page 2)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240

SUNDRY NOTICE SPECIAL STIPULATIONS

1. **Approval is granted for the water disposal method presented in the sundry subject to the following conditions:**
2. The operator must provide a water analysis of the water to be injected, together with a copy of the disposal permit granted by the state.

****** Approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.**

Engineering
can be reached at 505-706-2779 for any variances that might be necessary.

F Wright 2/28/07

OCD-ARTESIA

Form 3160-4
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

a. Type of Well ☐ Oil Well ☐ Gas Well ☐ Dry ☐ Other
 b. Type of Completion: ☐ New Well ☒ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
 Other _____

2. Name of Operator **NAVAJO REFINING COMPANY**3. Address **P.O. BOX 159, ARTESIA, NM 88211**

3a. Phone No. (include area code)

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface **790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE**At top prod. interval reported below **7650' AT THE SAME LOCATION AS ABOVE**At total depth **PLUG BACK 10,119' AT THE SAME LOCATION AS ABOVE**14. Date Spudded
12/22/199015. Date T.D. Reached
01/29/199116. Date Completed
☐ D & A ☐ Ready to Prod.18. Total Depth: MD **10,119'**
TVD **10,119'**19. Plug Back T.D.: MD **9022'**
TVD **9022'**20. Depth Bridge Plug Set: MD **CMT 9051'-9022'**
TVD **CMT 9051'-9022'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CBL/VDL, MULTI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006)22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Shurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	54.5	SURF	400'	400'	425 CLASS C		SURF	NONE
12 1/4"	9 5/8"	36	SURF	2604'	2604'	1025 "C"		SURF	NONE
8 3/4"	7"	29 & 26	SURF	9450'	9450'	1350 "H"		900'	NONE
6 1/4"	4 1/2"		9051'	10,119'	10,119'	175 CLASS H		9051'-TOL	NONE

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
4 1/2"	7567'	7567'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CISCO	7650'	8450'	7660' - 8450'	0.5"	1580	2 JSPP / 60"
B) CANYON	8540'	8620'	8540' - 8620'	0.5"	160	2 JSPP / 60"
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
7050' - 7102'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7262' - 7278'	100 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7304' - 7314'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATIONS

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method NON-HAZAROUS CLASS I WELL
Choke Size	Tbg. Press. Flwg. SI	Cog. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	WAITING ON STATE APPROVAL TO INJECT

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production ➔	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method NON-HAZAROUS CLASS I WELL
Choke Size	Tbg. Press. Flwg. SI	Cog. Press.	24 Hr. Rate ➔	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	WAITING ON STATE APPROVAL TO INJECT

*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD

FEB 28 2007

FREDERICK WRIGHT
PETROLEUM ENGINEER

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

N/A (NON-HAZARDOUS CLASS 1 WELL)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth

32. Additional remarks (include plugging procedure):

THE PLUGGED AND ABANDONED WELL WAS ACQUIRED FROM MEWBOURNE OIL COMPANY BY NAVAJO REFINING. NAVAJO RECOMPLETED THE WELL FOR INJECTING NON-HAZARDOUS WASTE WATER FROM THEIR REFINERY IN ARTESIA, NM. THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH CEMENT AT 7050' TO 7102', 7262' TO 7278', AND FROM 7304' TO 7314'. A 4 1/2" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7568' AND BOTTOM OF PACKER AT 7575'. MIT WAS WITNESSED BY OCD.

(SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☒ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print)

Darrell Moore

Title

Env. Mgr for Water & Waste

Signature

Darrell Moore

Date

1/24/07

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

INSTRUCTIONS

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

PRIVACY ACT

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 60 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer, (WO-630), MS 401 LS, 1849 C Street, N.W., Washington, D.C. 20240.

Well Summary

Navajo Refining Company (Navajo) contracted Subsurface Technology, Inc. (Subsurface), to prepare an application for permit and to reenter a plugged and abandoned (P&A) oil and gas well. The Application for Permit to Drill or Reenter and the Sundry Notices and Reports on Wells was submitted to the Department of the Interior, Bureau of Land Management (BLM), on June 29, 2006 and approved. The Application for Permit to Drill, Re-enter, Deepen, Plug Back, or add a Zone was submitted to the State of New Mexico Oil Conservation Commission (OCD) on June 29, 2006 and approved.

Subsurface prepared an engineering plan to reenter the P&A'ed oil and gas well formally owned by Mewbourne Oil Company. The original well name was Caulk Bluff Federal #1 (API number 30-015-26575), and a Change of Operator application was submitted to the OCD on December 5, 2000 and approved under the well name of WDW-3. Under contract to Navajo, Subsurface commenced field operations on September 25, 2006. The existing location was cleared and prepared for reentry operations. An earthen lined reserve pit was dug to catch returns. All depths unless stated are referenced to rig floor at six feet to seven feet above ground level. The rig floor was moved from six feet to seven feet after drilling out the cast iron bridge plugs.

A workover rig and reverse unit was placed on location and the existing wellhead was removed. The first cast iron bridge plug (CIBP) at 7010 feet was drilled and the perforated interval from 7050 feet to 7102 feet was squeezed off with neat cement and successfully pressured tested to six hundred eighty pounds per square inch gauge pressure (680 psig). The second and third CIBP at 7190 feet and 7279 feet was drilled. There appeared to be ten feet of cement on top of the third CIBP. The perforated interval from 7262 feet to 7278 feet and from 7304 feet to 7314 feet was squeezed with neat cement. The squeezed interval was pressure tested to 920 psig and would not hold. A second cement squeeze was performed across the perforated interval from 7262 feet to 7278 feet and from 7304 feet to 7314. The interval was pressured tested to 630 psig and continued to lose pressure at a rate of two pounds per square inch every thirty minutes (2 psi/30 min). The fourth CIBP at 7595 feet was drilled and at 7838 feet a cement plug was encountered and drilled through. Cement was tagged twenty nine (29) feet above the top of the liner at 9022 feet. The hole was circulated clean and prepared for logging.

A Cement Bond Log (CBL), Variable Density Log (VDL), caliper log, and temperature survey were performed. The CBL/VDL showed that the top of the cement (TOC) behind the 7-inch casing was located 900 feet from the surface. The OCD was notified and approved the existing well condition. The casing was perforated from 7660 feet to 8450 feet and from 8540 feet to 8620 feet at 2-JSPF on sixty degree (60°) phasing.

A packer was set at 7546 feet with 2 7/8-inch PH-6 tubing, the well was swabbed back and samples of the formation fluid were recovered. It was estimated that two hundred twenty six barrels (226 bbls) of formation fluid was returned to the surface. A pressure test on the annulus between the 7-inch and 2 7/8-inch was performed at 660 psig with the annulus losing pressure at a rate of 8 psi/hr.

An injection test was performed on the well down the 2 7/8-inch tubing with the annulus open to the bottom of the well. The open annulus will allow for the calculation of the bottom hole pressure while pumping down the 2 7/8-inch tubing with out the influence of tubing friction pressure on the bottom hole calculations. The injection rates were from two barrels per minute (2 bpm) to ten barrels per minute (10 bpm). From the data collected during the injection test it appears that the well will be able to accept an injection rate up to 10 bpm at the permitted pressure of 1550 psig with 4 1/2-inch, 11.6 pound per foot (11.6 lb/ft) tubing in the wellbore.

At the request of the OCD, Subsurface went back into the wellbore with a retrievable bridge plug (RBP) to test the casing and isolate any leaks to within 1000 feet. The RBP was set at 7550 feet and the packer was set at 6985 feet to isolate the squeezed interval from 7050 feet to 7314 feet. The squeezed interval was pressure tested to 490 psig and the annulus to 632 psig. The squeezed interval was losing pressure at a rate of 6 psi/hr and the annulus was gaining pressure due to thermal affects. The RBP was moved up the wellbore to 1255 feet and casing pressure tested to 569 psig. The casing above 1255 feet was losing pressure at a rate of 2 psi/hr. The casing leaks were isolated to the squeezed interval from 7050 feet to 7314 feet and in the interval from surface to 1255 feet. The OCD was called and approved the 300PSI sealing application to stop the casing leaks across the two intervals.

The 4 1/2-inch tubing was run into the wellbore and the Arrow X-1 packer was set at 7575.73 feet with 37,000 lbs of tension. Prior to running the 4 1/2-inch tubing a new Superior hanging spool was installed. Prior to setting the tubing packer, the annulus between the 4 1/2-inch tubing and the 7-inch casing was filled with inhibited brine, with the 300psi sealant across the squeezed perforations and across the upper section of the 7-inch casing. Once the packer was set and casing hung off in the spool a new Superior wellhead was installed and the P-seals were pressure tested to 3000 psig. After the wellhead was assembled the annulus was squeezed at 545 psig for four hours (4 hrs) as specified by the sealant manufacture representative on site. The annulus was then pressure tested to 480 psig overnight with no pressure loss. Workover rig was disassembled and moved off location with all associated equipment.

A 12 hr pump in and falloff test was performed down the 4 1/2-inch tubing. To maintain a surface injection pressure that was below the permitted pressure of 1550 psi the injection rate was lowered to 9 bpm at the end of the pump in procedure. The BHP gauge was placed at 8630 feet for 14 hrs to monitor BHP, when the gauge was pulled five minute (5 min) gradient stops were made every 1000 feet with the first stop at 7000 feet. The analysis of the data showed interference from the adjacent injection wells, which skewed the results for determination of the skin and possibly the permeability. The equipment used to perform the falloff testing was moved off location to prepare for mechanical integrity testing (MIT).

The MIT was performed and witnessed by the OCD. The MIT consisted of an annulus pressure test, and a radioactive tracer survey. The temperature survey was performed during the CBL/VDL logging event and will be used as a baseline for any future temperature surveys. The annulus pressure test was performed at 530 psia and lost 2.5 psi over a one hour period, which was within the OCD requirements of five percent (5%)

over a 30 min time interval. The radioactive tracer survey showed no signs of fluid flow out of the permitted interval above 7650 feet. The OCD witnessed the annular pressure test and the first half of the radioactive tracer survey.

The annulus monitoring system was installed and tested. The well was turned over to Navajo for injection.



**LOGGING
SERVICES**

R/A TRACER LOG INTERPRETATION

11/27/2006

PLANT: NAVAJO REFINING CO.

C/O: SUBSURFACE TECHNOLOGY

WELL NAME: CHALK BLUFF FEDERAL # 1 WDW # 3

RE: Radioactive Tubing & Packer Survey ran on 11/18/2006

A Pre Base Log was run from 9020' to 7350' to detect and record background gamma counts.

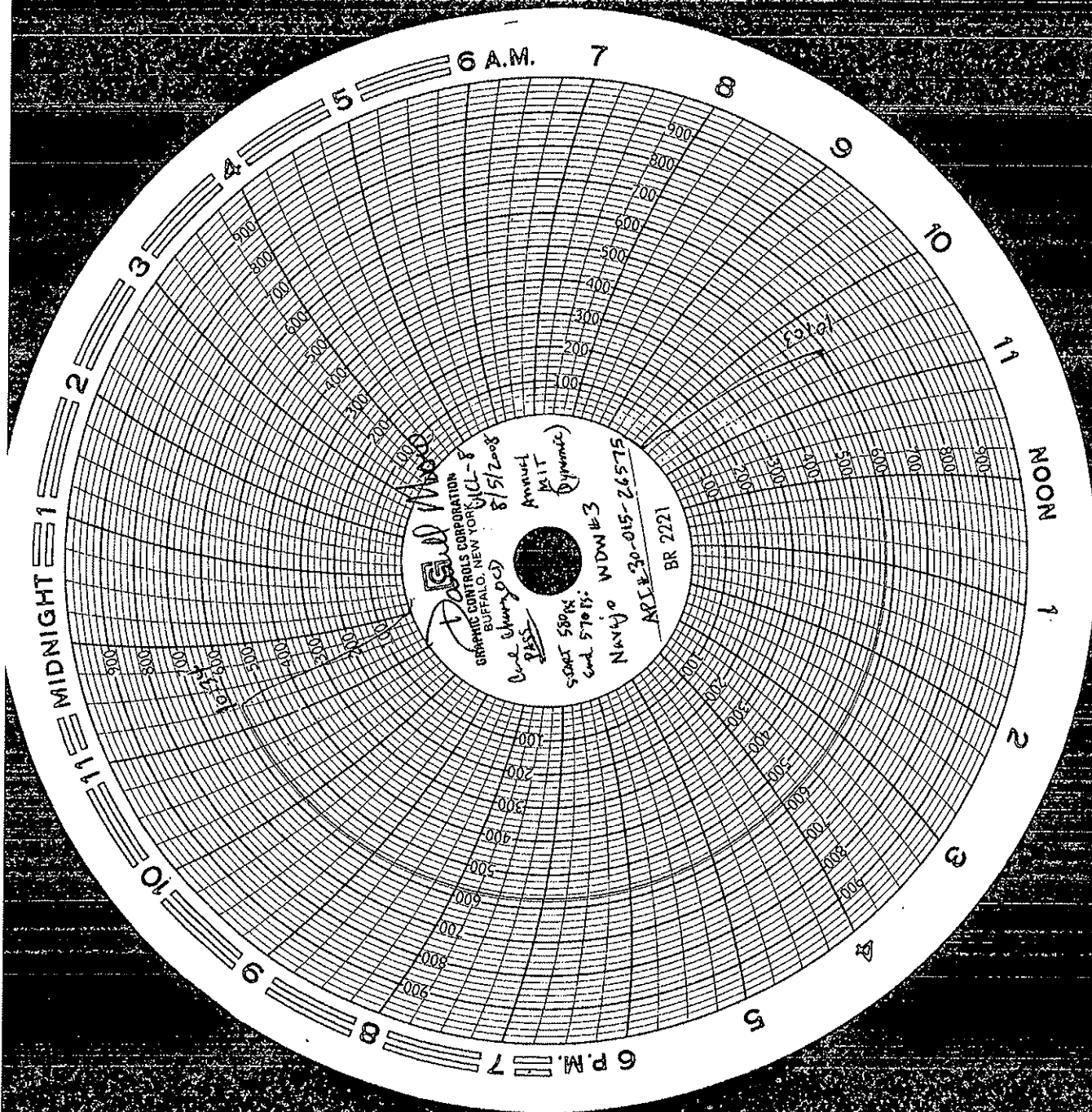
Iodine 131 was then ejected at a depth of 7375' and pumped down the tubing and into the permitted interval. Overlapping logging passes tracked the R/A tracer material as it moved down in the wellbore. The R/A material was seen traveling down the tubing, past the packer, and exiting the permitted injection interval.

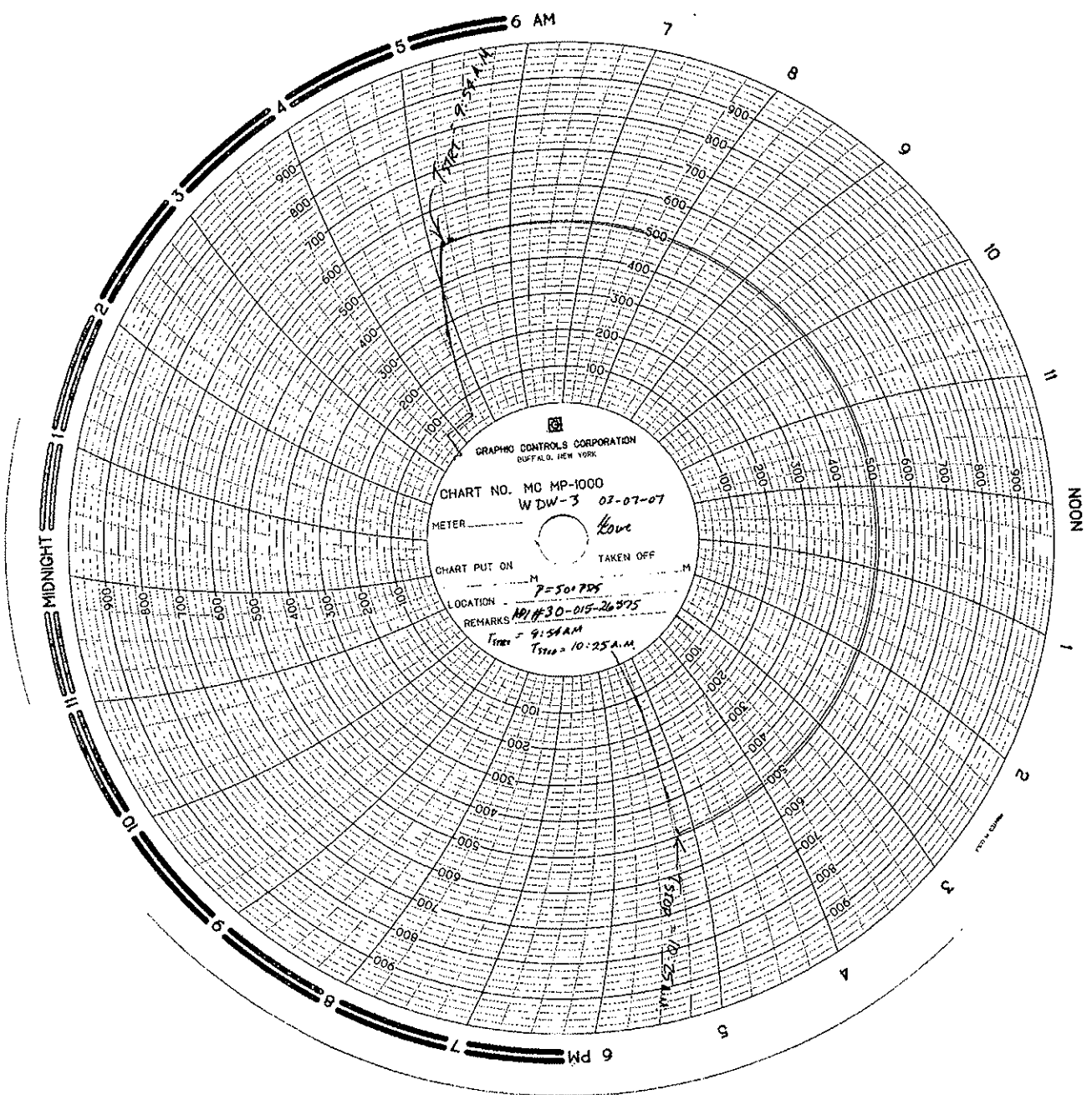
The flow profile log was then repeated and this survey also showed R/A material going out into the permitted interval.

Two Stationary Time Drive surveys were run with the tool at 7640'. No indications of upward migration were recorded.

A Post Base log was then run from 9016' to 7342' and noted that all R/A material was flushed out of the wellbore into the permitted interval.

John Croce





GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC MP-1000
WDW-3 03-07-07
METER _____
CHART PUT ON _____
LOCATION _____
REMARKS _____
T_{max} = 9:54 AM
T_{min} = 10:25 A.M.

Oil Conservation Division, Environmental Bureau

C/O: Carl Chavez
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test June 30, 2010 Operator Navajo Refining API #30-015-26575

Property Name WDW Well No. 3 Location: Unit 0 Section 1 Township 18S Range 27E
Injecting

Well Status (~~Shut-In or Producing~~) Tubing Intermediate Casing Bradenhead

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

TIME	PRESSURES:			BRADENHEAD FLOWED	INTERMEDIATE FLOWED
	BRADENHEAD	INTERMEDIATE	CASING		
5 minutes	0	0		Steady Flow <u>N/A</u>	<u>N/A</u>
10 minutes	N/A	N/A		Surges <u>N/A</u>	<u>N/A</u>
15 minutes	N/A	N/A		Down to Nothing <u>immediately</u>	<u>immediately</u>
20 minutes	N/A	N/A		Nothing <u>X</u>	<u>X</u>
25 minutes	N/A	N/A		Gas <u>N/A</u>	<u>N/A</u>
30 minutes	N/A	N/A		Gas & Water <u>N/A</u>	<u>N/A</u>
				Water <u>N/A</u>	<u>N/A</u>

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR FRESH SALTY SULFUR BLACK

5 MINUTE SHUT-IN BRADENHEAD 0 INTERMEDIATE 0

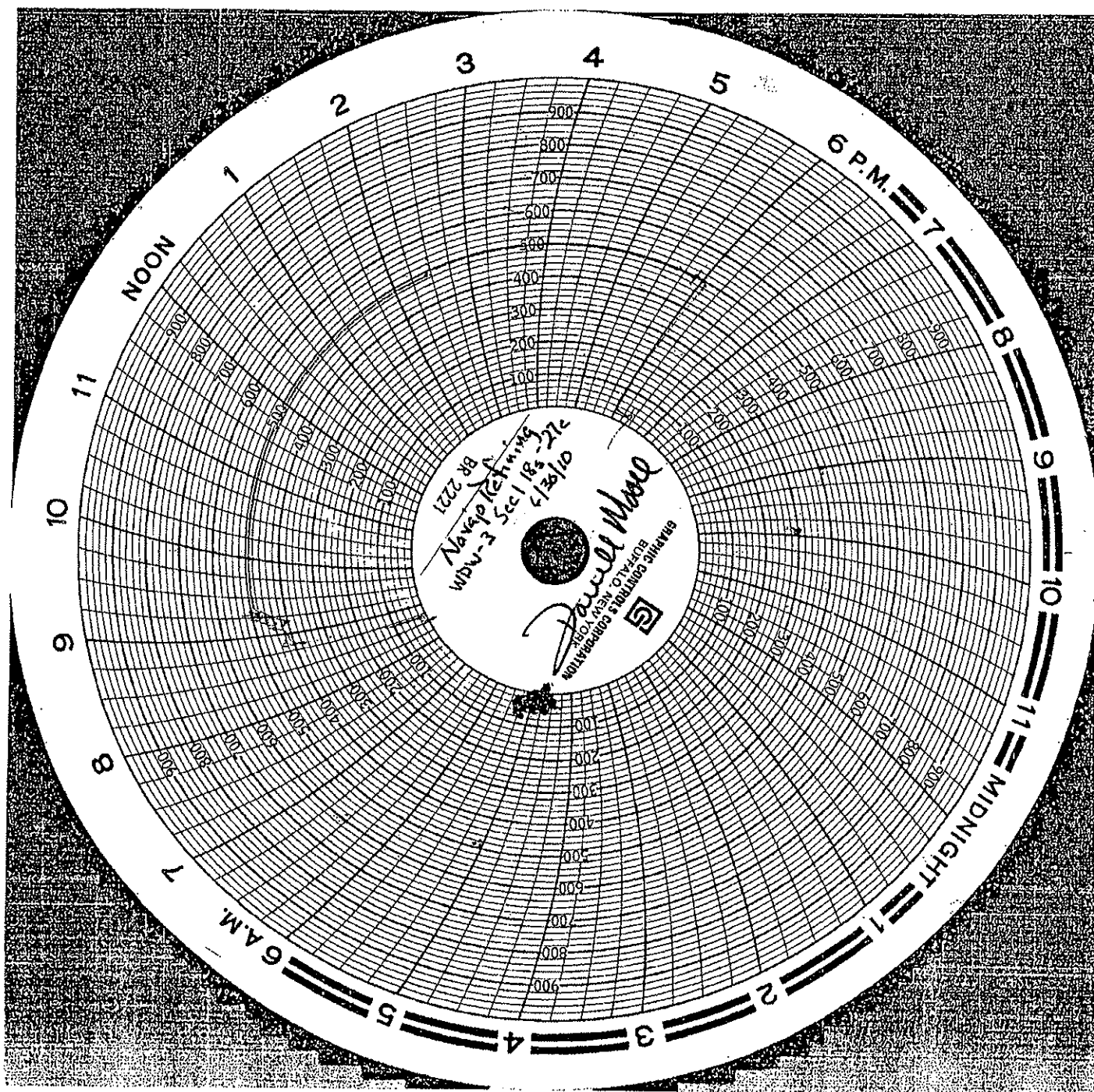
REMARKS:

Both the surface and intermediate bradenheads were opened one at a time. Both
had a puff of air upon opening the valve (from heat build-up) and then nothing.
No flow. No pressure.

By Darrell Moore *Darrell Moore* Witness

Env. Mgr. for Water & Waste Navajo Refining
(Position)

E-mail address darrell.moore@hollycorp.com



Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Friday, March 05, 2010 8:51 AM
To: Chavez, Carl J, EMNRD
Subject: WDW-3 Qtrl MIT

Carl

Attached, please find the chart for the MIT we did on our WDW-3 on February 24, 2010. We also opened the did a bradenhead test and there was no sustained pressure. There was a slight puff but it dissipated quickly and can be attributed to temperature changes.

If there are any questions concerning this submission, please call me at 575-746-5281.

Darrell Moore

Environmental Manager for Water and Waste

Navajo Refining Company, LLC

Phone Number 575-746-5281

Cell Number 575-703-5058

Fax Number 575-746-5451

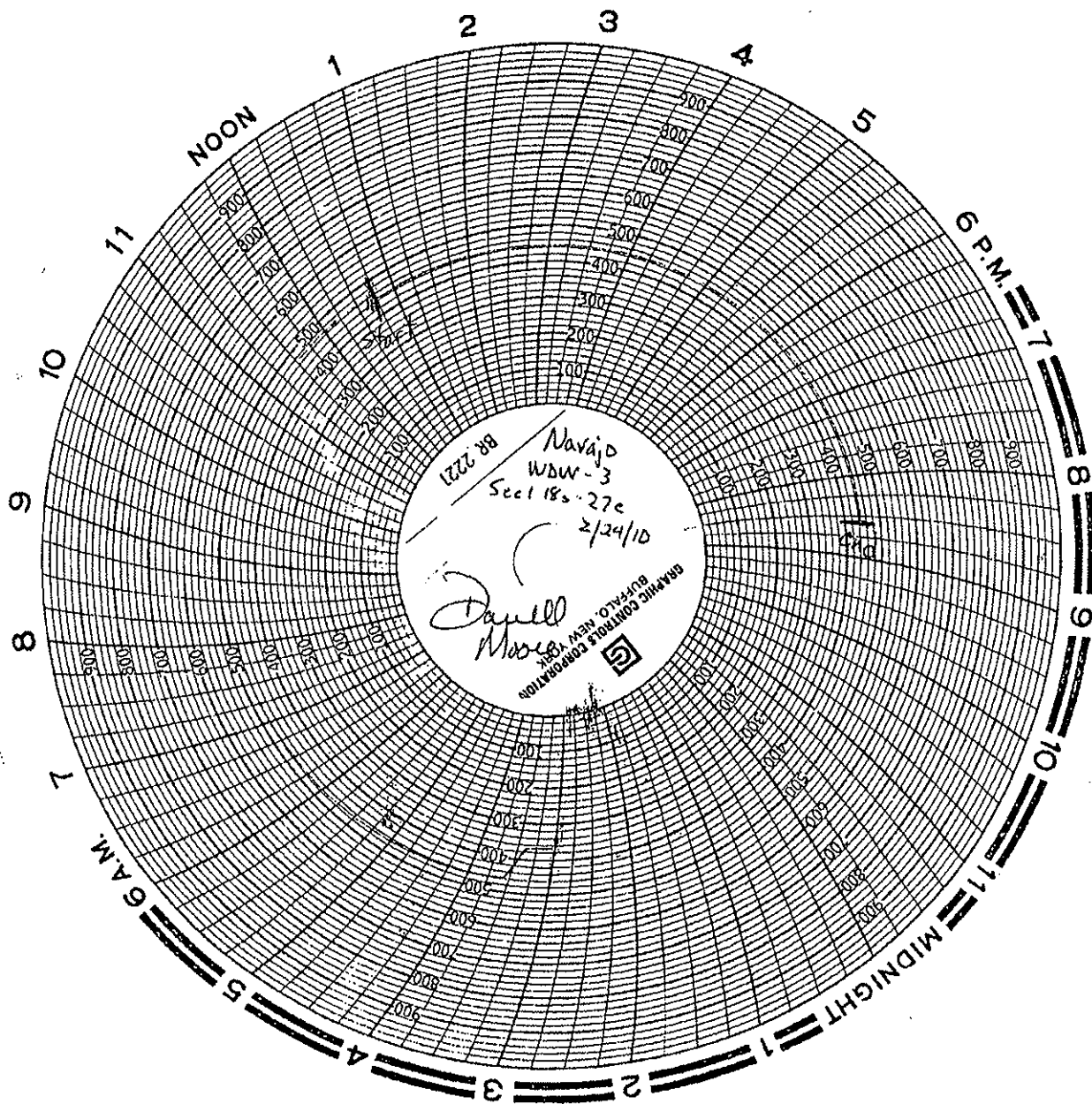
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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, July 06, 2010 9:04 AM
To: 'Moore, Darrell'
Subject: RE: Sewer Testing

Darrell:

Thanks for the notification.

Also, the OCD needs Navajo to complete the quarterly Bradenhead information on the form provided to you last week for our records. Let me know if you have any questions. Staff in Artesia questioned the 30 minutes in the form, and I determine that Navajo just needs to use the form to document compliance with our quarterly Bradenhead testing requirement for WDW-3. The MITs for Class I Wells need to be completed by 9/30/2010 along with Annual Fall-Off Test. OCD can use the MIT pressure chart for WDW-3 to satisfy the MIT requirement this season.

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/oed/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Tuesday, July 06, 2010 7:24 AM
To: Chavez, Carl J, EMNRD
Subject: Sewer Testing

Carl

We will be testing sewers in the Vacuum Unit at the Artesia Refinery on Friday July 9, 2010 starting at 8 am. If OCD would like to witness let me know.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Oil Conservation Division, Environmental Bureau

C/O: Carl Chavez

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test June 30, 2010 Operator Navajo Refining API #30-015-26575

Property Name WDW Well No. 3 Location: Unit 0 Section 1 Township 18S Range 27E

Injecting

Well Status (~~Shut-In or Producing~~) Tubing Intermediate Casing Bradenhead

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

TIME	PRESSURES:			BRADENHEAD FLOWED	INTERMEDIATE FLOWED
	BRADENHEAD	INTERMEDIATE	CASING		
5 minutes	0	0		Steady Flow <u>N/A</u>	<u>N/A</u>
10 minutes	N/A	N/A		Surges <u>N/A</u>	<u>N/A</u>
15 minutes	N/A	N/A		Down to Nothing <u>immediately</u>	<u>immediately</u>
20 minutes	N/A	N/A		Nothing <u>X</u>	<u>X</u>
25 minutes	N/A	N/A		Gas <u>N/A</u>	<u>N/A</u>
30 minutes	N/A	N/A		Gas & Water <u>N/A</u>	<u>N/A</u>
				Water <u>N/A</u>	<u>N/A</u>

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR FRESH SALTY SULFUR BLACK

5 MINUTE SHUT-IN BRADENHEAD 0 INTERMEDIATE 0

REMARKS:

Both the surface and intermediate bradenheads were opened one at a time. Both

had a puff of air upon opening the valve (from heat build-up) and then nothing.

No flow. No pressure.

By Darrell Moore  Witness

Env. Mgr. for Water & Waste Navajo Refining

(Position)

E-mail address darrell.moore@hollycorp.com

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, June 30, 2010 1:47 PM
To: Chavez, Carl J, EMNRD; Dade, Randy, EMNRD
Subject: FW:
Attachments: WDW-3.pdf

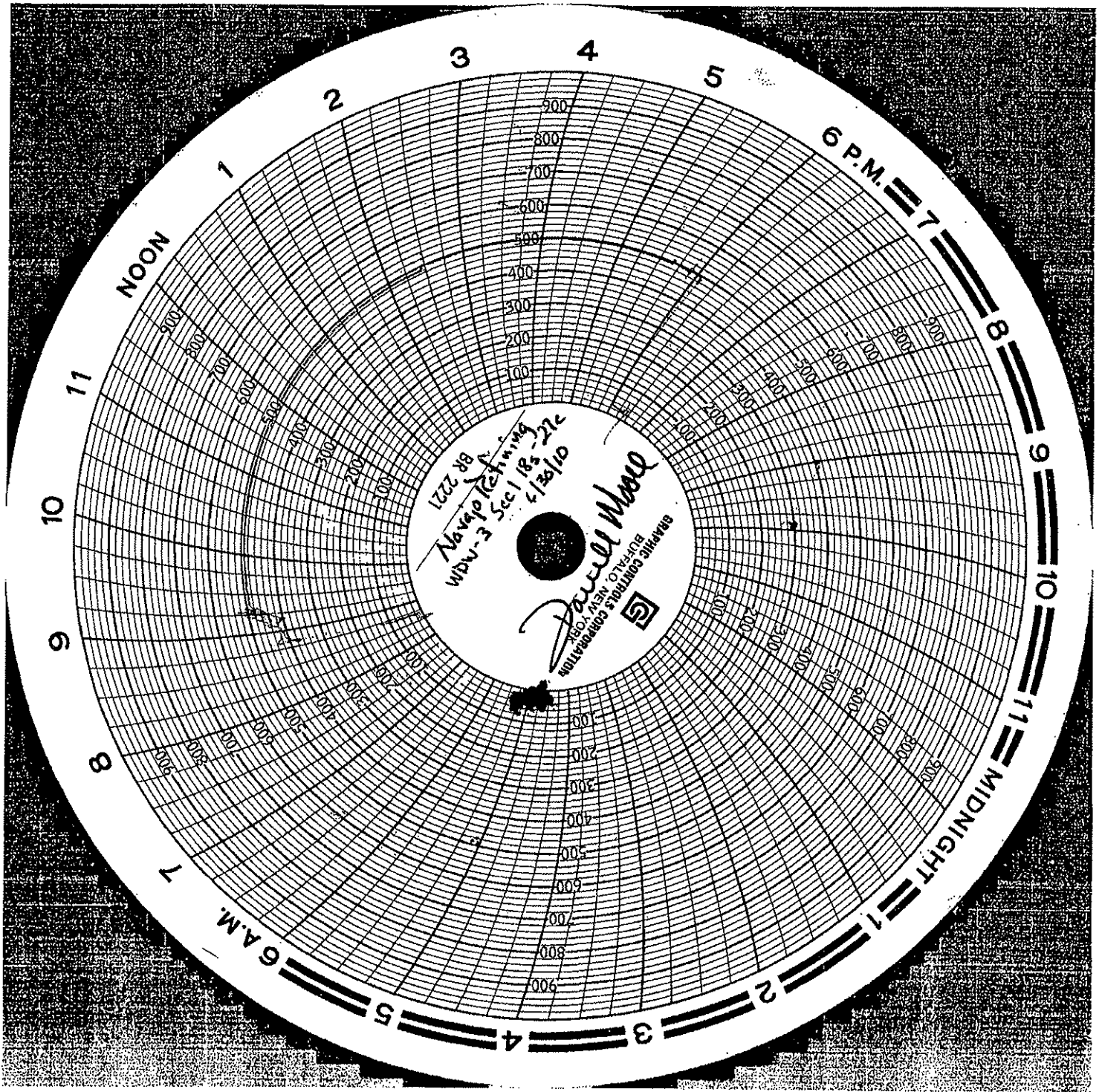
Gentlemen,

Attached, please find the quarterly MIT for Navajo's WDW-3 Injection well located in Sec 1, 18 south 27 east. If there are any questions concerning this submission, please call me at 575-746-5281.

From: Hernandez, Carrie
Sent: Wednesday, June 30, 2010 1:44 PM
To: Moore, Darrell
Subject:

Carrie Hernandez
Environmental Administrative Assistant
Navajo Refining Co, LLC
Direct Line 575-748-6733
Direct Fax 575-746-5451
Life is a Journey. Roll down the Windows and Enjoy the Breeze

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District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

<p>SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)</p>		<p>WELL API NO. 30-015-26575</p>
<p>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection Well <input type="checkbox"/></p>		<p>5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/></p>
<p>2. Name of Operator Navajo Refining Company</p>		<p>6. State Oil & Gas Lease No. NM-0557371</p>
<p>3. Address of Operator Post Office Box 159, Artesia, New Mexico 88211</p>		<p>7. Lease Name or Unit Agreement Name Gaines WDW-3</p>
<p>4. Well Location Unit Letter N : 790 feet from the South line and 2250 feet from the West line Section 01 Township 18S Range 27E NMPM County Eddy</p>		<p>8. Well Number WDW-3</p>
<p>11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3609' GL, ' RKB</p>		<p>9. OGRID Number</p>
<p>10. Pool name or Wildcat: Navajo Permo-Penn</p>		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<p>NOTICE OF INTENTION TO:</p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/></p> <p>OTHER: PERFORM PRESSURE FALLOFF TEST <input checked="" type="checkbox"/></p>		<p>SUBSEQUENT REPORT OF:</p> <p>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/></p> <p>OTHER: <input type="checkbox"/></p>	
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

December 12, 2011 - Install bottomhole gauges into WDW-1, WDW-2, and WDW-3 by 11:45am. Continue injection into all three wells.

December 13, 2011 - Continue injection into all three wells.

December 14, 2011 - At 12:15pm, the offset wells WDW-1 and WDW-2 will be shut-in. A constant injection rate will be established for WDW-3 and continue for a 30 hour injection period. Do not exceed 1000 psig wellhead pressure.

December 15, 2011 - At 7:00pm, WDW-3 will be shut in for a 30-hour falloff period. WDW-1 and WDW-2 will remain shut-in.

December 16, 2011 - All three wells will continue to be shut in while monitoring falloff pressure in all three wells.

December 17, 2011 - At 7:00am, acquire downhole pressure gauges from all three wells. Tag bottom of fill and come out of hole very slowly, making 7-minute gradient stops while coming out of WDW-3 every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Run in hole with a temperature tool and conduct temperature survey from the surface to the top of the fill. Turn the wells back to Navajo personnel.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Timothy Jones TITLE Project Engineer DATE 10/3/2011
Type or print name Timothy Jones E-mail address: jones@subsurfacegroup.com PHONE: 713-880-4640
For State Use Only

APPROVED BY: Carl J. Shively TITLE Environmental Engineer DATE 10/19/2011
Conditions of Approval (if any):

See e-mail conditions dated 10/19/2011 attached to WDW-1.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, October 19, 2011 4:06 PM
To: 'Moore, Darrell'
Cc: Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD
Subject: Navajo Refining Company UIC Class I (NH) Injection Wells WDWs 1, 2 & 3 (UICI-008) Fall Off Test Plan (August 2011)

Darrell:

The New Mexico Oil Conservation Division (OCD) is in receipt of your above subject test plan. OCD has already approved the Fall-Off Test (FOT) Plan with conditions on July 28, 2009. The OCD notes that it is also in the process of reviewing C-103s Sundry Notices for the upcoming FOTs.

OCD observes some changes in this FOT Plan submittal that are not acceptable to the OCD. For example, Exhibit 1 is not an acceptable exhibit to the OCD for reasons specified in the 2010 FOT report review and later during the May 2011 meeting in Santa Fe. However, the operator continues to submit exhibits with certain assumptions that have not been accepted or approved by the OCD, i.e., that the injection wells are show interconnection with the injection zone during past FOTs. Perhaps the operator can conduct the 2011 FOT with the information and exhibits needed to prove the interconnection of injection wells with the injection zone? The Certified PE should provide the exhibits in the 2011 FOT Report with the analysis and conclusions supporting any claims for the OCD to review and consider before approving. This is apparently a FOT frequency per well issue that the operator is attempting to prove.

The OCD provides the following comments, observations, and/or recommendations on the above subject plan below.

Comments:

- The OCD approved the original Fall-Off Test (FOT) Plan based on OCD Guidance dated December 3, 2007. There should not be any significant changes to this FOT Plan because it is flexible where needed to allow operators to implement it on each injection well.
- OCD likes to be notified to witness the installation of bottom hole gauges and to be present at least one hour before injection shut-off and commencement of FOT monitoring.
- OCD is concerned about the Section VI No. 1(e) WDW-3 Cement Bond Log quality being poor from 900 ft. to 1200 ft- especially at the depths: 2662 – 2160; 4876 – 5372; and 6750 – 7600 ft. micro annulus scenario.

Observations:

- Section V No. 2: The objective of the FOT is NOT to achieve or limit a 100 psig pressure differential before vs. after FOT injection vs. shut-off, but it is a minimum pressure differential that OCD stipulates in its guidance for a successful FOT and injection zone that may still continue to be utilized for disposal, i.e., not too pressured up and subject to continued fracturing under daily allowed maximum surface injection pressure operational limits.
- Section V No. 7 and Exhibit 1: OCD observes a bottom hole pressure chart for WDWs 1, 2 and 3 at 7660 feet that the operator presented in the 2010 FOT and again during a May 2011 meeting in Santa Fe, New Mexico to show the interconnection between injection wells and the injection formation. The OCD had commented that there was no explanation or conclusion provided from the Certified PE who conducted and completed the 2010 FOT report that supports the operator's claim that all injection wells are interconnected based on Exhibit 1.

Furthermore, the OCD requested a statement or information supporting the operator's claim by the Certified PE, but never received one. At the meeting, the OCD explained that based on Exhibit 1, there was no support for the claim. In order to make the interconnection determination, during each FOT at each well and off-set injection wells (WDWs not being FOT'd) before and throughout the FOT would need bottom hole pressures monitored in tandem at each well location to establish the interconnectivity of the injection wells with the receiving injection formation under a uniform time scale. This would be a chart that could be plotted that would show during the test the interconnectivity of the wells for each FOT. The OCD doubts that the operator can make the case for interconnectivity between injection wells and injection formation because of the significant distance between the injection wells and fact that sedimentation in formation varies laterally and uniformity in sedimentation, saturated porosity and permeability due to variation in sedimentation would by chance make the injection formation aerially extensive and uniform over a 3 to 5 mile radius from each injection well. Also, even if by chance there was

uniformity over the mileage specified, the distance between injection wells and corresponding pressure would likely not be observed.

- Exhibit 6: OCD observes in Section B a proposed MIT once every 5 years. OCD's UIC Program requires annual MITs and/or after down hole work is performed on a well.

Recommendations:

- Operator is running survey logs to the bottom of fill or below USDW (fresh water) zones, which excludes an evaluation of casing in the fresh water zone. Please run logs up to surface.
- Be sure to also record and provide injection flow rate and pressure leading up to shut-off and monitoring throughout the FOT monitoring period. OCD needs to confirm that a pseudo steady-state condition was achieved before shut-off. This data is also needed for software modeling of the FOT.
- Please provide electronic data from the FOTs at each well in order for the OCD to run its software model to confirm the results in the report.
- Section V No. 13: Surface pressure monitoring and Horner Plot during injection should be used to confirm radial flow condition is achieved instead of waiting a set period if operator wishes to reduce the injection period.

Disclaimer: *Please be advised that OCD has already approved with conditions Navajo Refining Company's Fall-Off Test (FOT) Plan on July 28, 2009, and is not providing approval of this FOT Plan; however, comments, observations and recommendations herein should help Navajo Refining Company understand the OCD's concerns based on the submittal.*

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/>

Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:
<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)

District I - (575) 393-6161
1625 N French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

Revised August 1, 2011

<p>SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)</p>		<p>WELL API NO. 30-015-26575</p>
<p>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection Well</p>		<p>5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/></p>
<p>2. Name of Operator Navajo Refining Company</p>		<p>6. State Oil & Gas Lease No. NM-0557371</p>
<p>3. Address of Operator Post Office Box 159, Artesia, New Mexico 88211</p>		<p>7. Lease Name or Unit Agreement Name Gaines WDW-3</p>
<p>4. Well Location Unit Letter N : 790 feet from the South line and 2250 feet from the West line Section 01 Township 18S Range 27E NMPM County Eddy</p>		<p>8. Well Number WDW-3</p>
<p>11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3609' GL, ' RKB</p>		<p>9. OGRID Number</p>
<p>10. Pool name or Wildcat: Navajo Permian</p>		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: PERFORM PRESSURE FALLOFF TEST



OTHER:



13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions. Attach wellbore diagram of proposed completion or recompletion.

December 12, 2011 - Install bottomhole gauges into WDW-1, WDW-2, and WDW-3 by 11:45am. Continue injection into all three wells.

December 13, 2011 - Continue injection into all three wells.

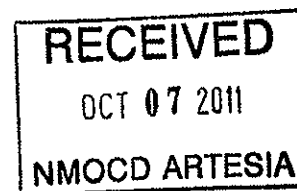
December 14, 2011 - At 12:15pm, the offset wells WDW-1 and WDW-2 will be shut-in. A constant injection rate will be established for WDW-3 and continue for a 30 hour injection period. Do not exceed 1000 psig wellhead pressure.

December 15, 2011 - At 7:00pm, WDW-3 will be shut in for a 30-hour falloff period. WDW-1 and WDW-2 will remain shut-in.

December 16, 2011 - All three wells will continue to be shut in while monitoring falloff pressure in all three wells.

December 17, 2011 - At 7:00am, acquire downhole pressure gauges from all three wells. Tag bottom of fill and come out of hole very slowly, making 7-minute gradient stops while coming out of WDW-3 every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Run in hole with a temperature tool and conduct temperature survey from the surface to the top of the fill. Turn the wells back to Navajo personnel.

RDade 10/11/11
Accepted for record
NMOCD



Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Timothy Jones TITLE Project Engineer DATE 10/3/2011
Type or print name Timothy Jones E-mail address: tjones@subsurfacegroup.com PHONE: 713-880-4640
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any):

SUBSURFACE

NAVAJO REFINING COMPANY, L.L.C.

Map ID No. 97

Artificial Penetration Review

OPERATOR Newbourne Oil Co.

LEASE Chalk Bluff Fed. Com

WELL NUMBER #002

DRILLED 8/24/91

PLUGGED N/A

STATUS Active

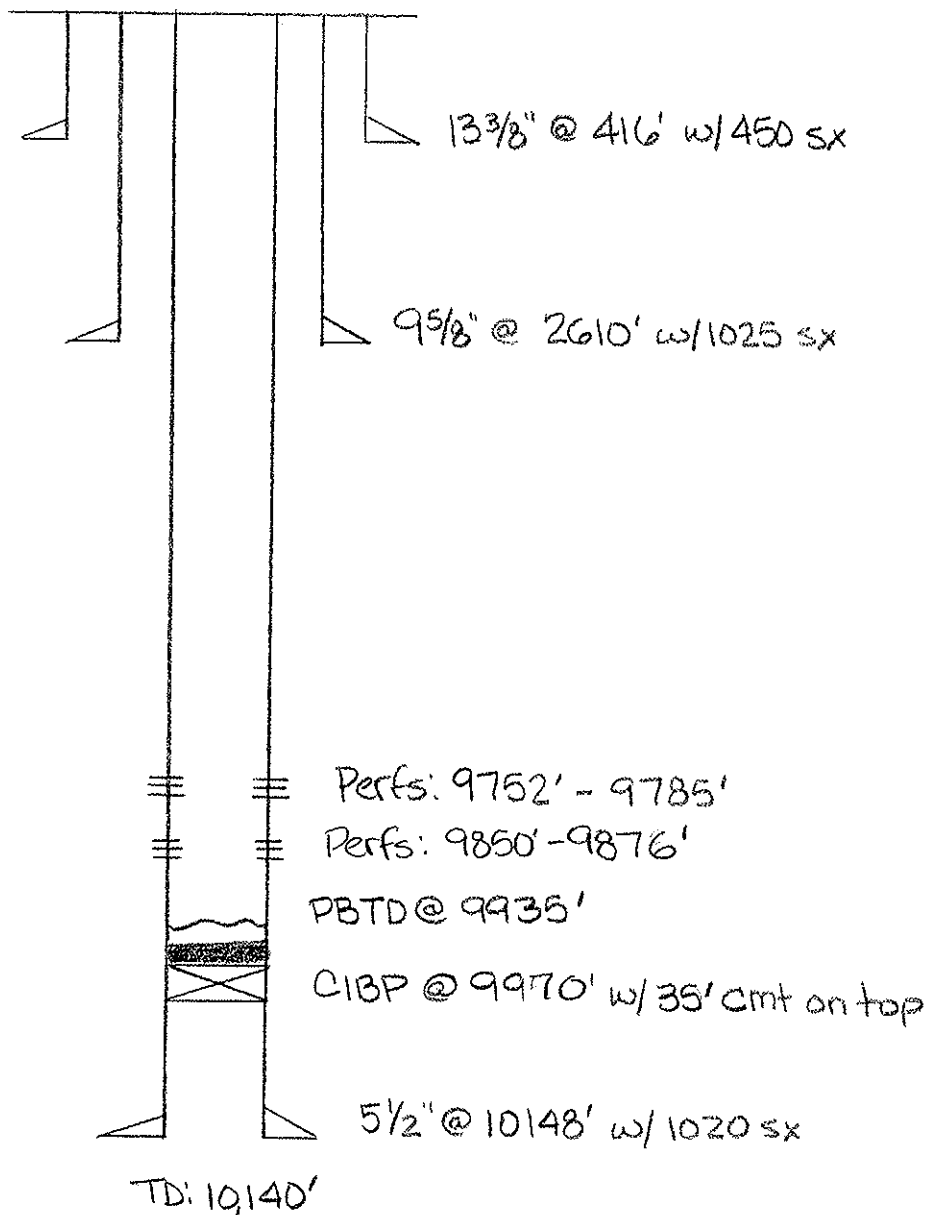
LOCATION Sec. 1 -T18S-R27E

MUD FILLED BOREHOLE N/A

TOP INJECTION ZONE -3591'

API NO. 30-015-26741

REMARKS:



MAP ID NO. 97

**MEWBOURNE OIL CO.
CHALK BLUFF FEDERAL COM NO. 002**

API NO. 30-015-26741

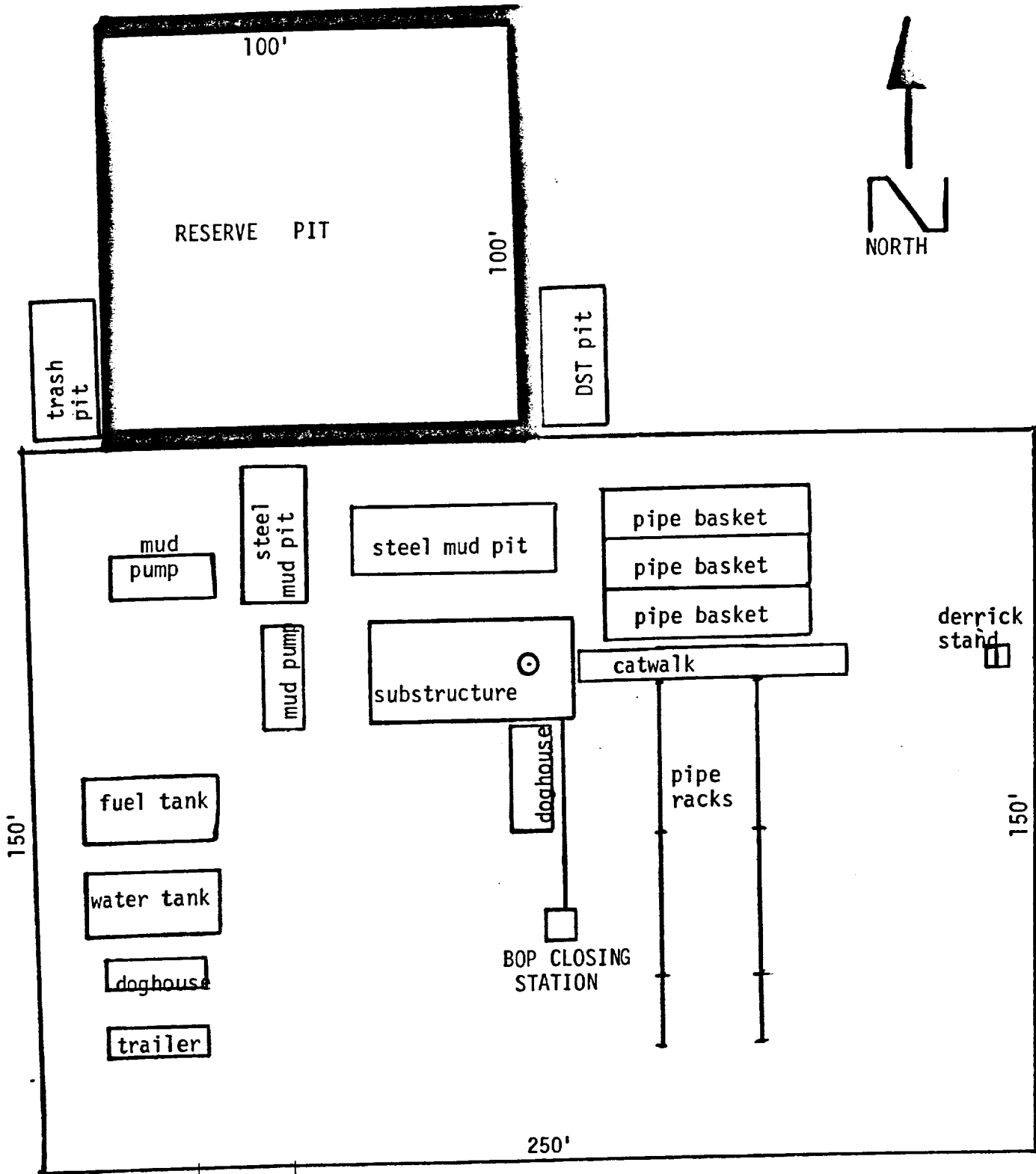


Exhibit "C"

Mewbourne Oil Company
 Chalk Bluff Federal #2
 Lease # NM-0557371
 1350' FWL & 1650' FNL
 Sec. 1-T18S-R27E
 Eddy County, New Mexico

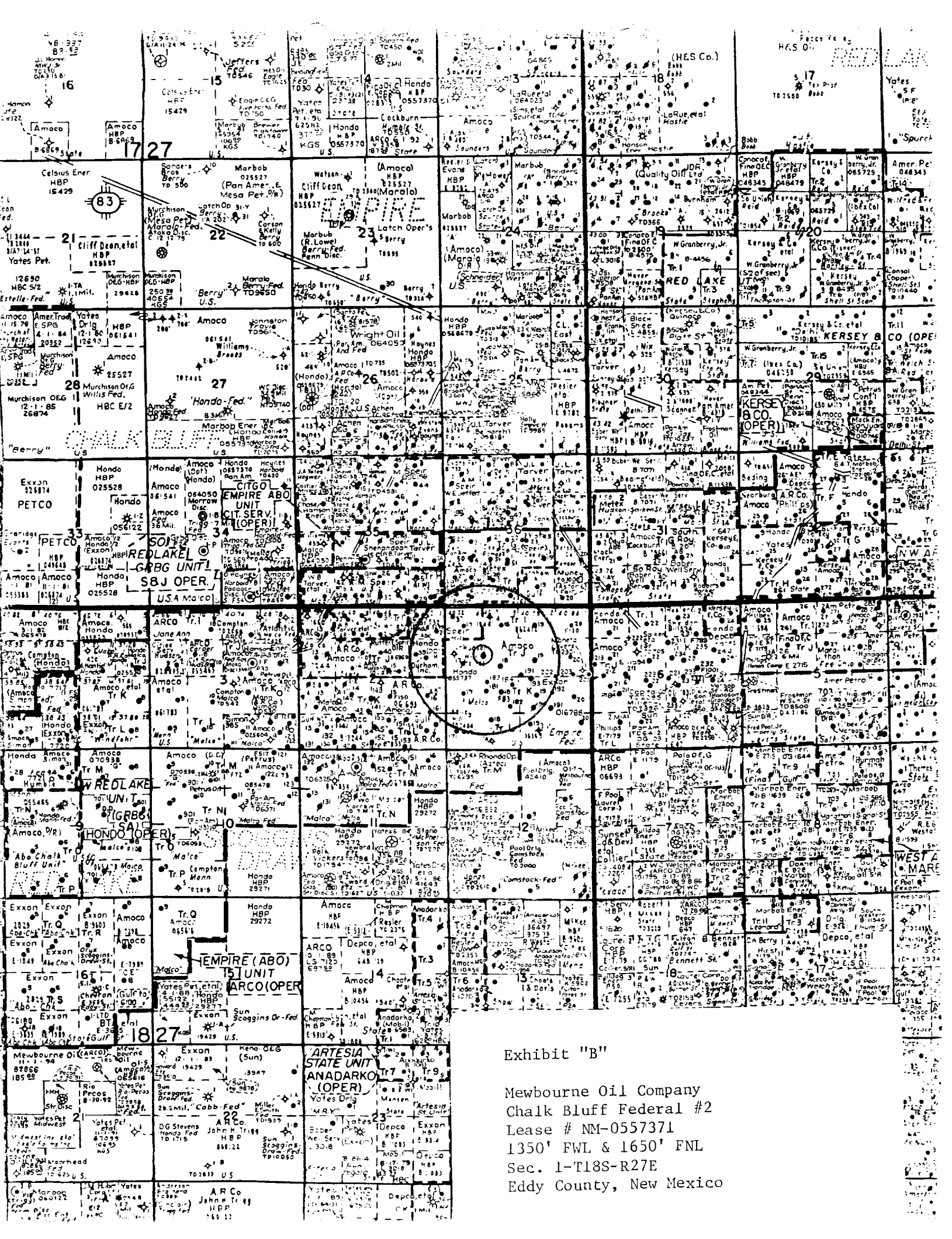


Exhibit "B"

Mewbourne Oil Company
Chalk Bluff Federal #2
Lease # NM-0557371
1350' FWL & 1650' FNL
Sec. 1-T18S-R27E
Eddy County, New Mexico

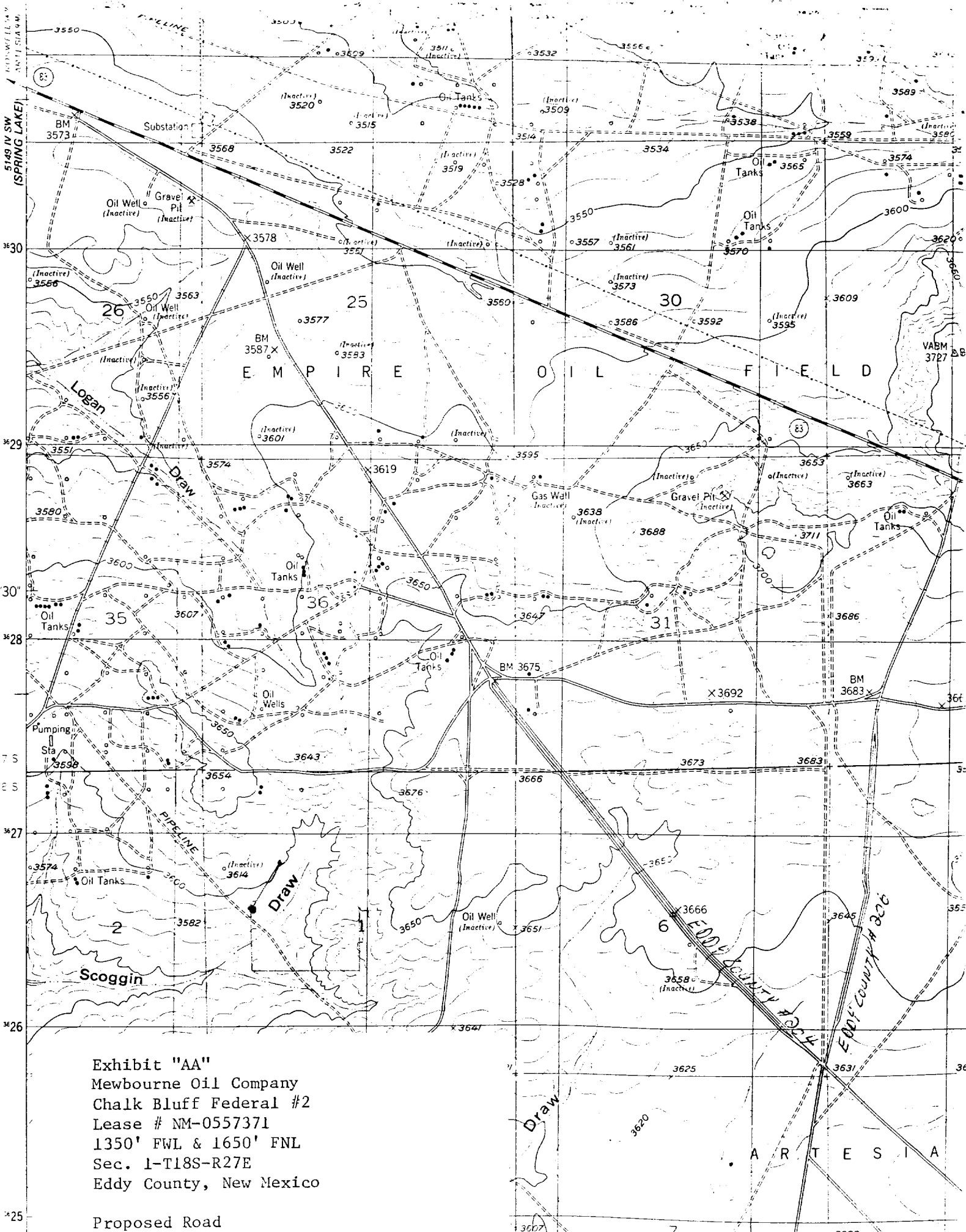


Exhibit "AA"
Mewbourne Oil Company
Chalk Bluff Federal #2
Lease # NM-0557371
1350' FWL & 1650' FNL
Sec. 1-T18S-R27E
Eddy County, New Mexico

Proposed Road
Existing Road



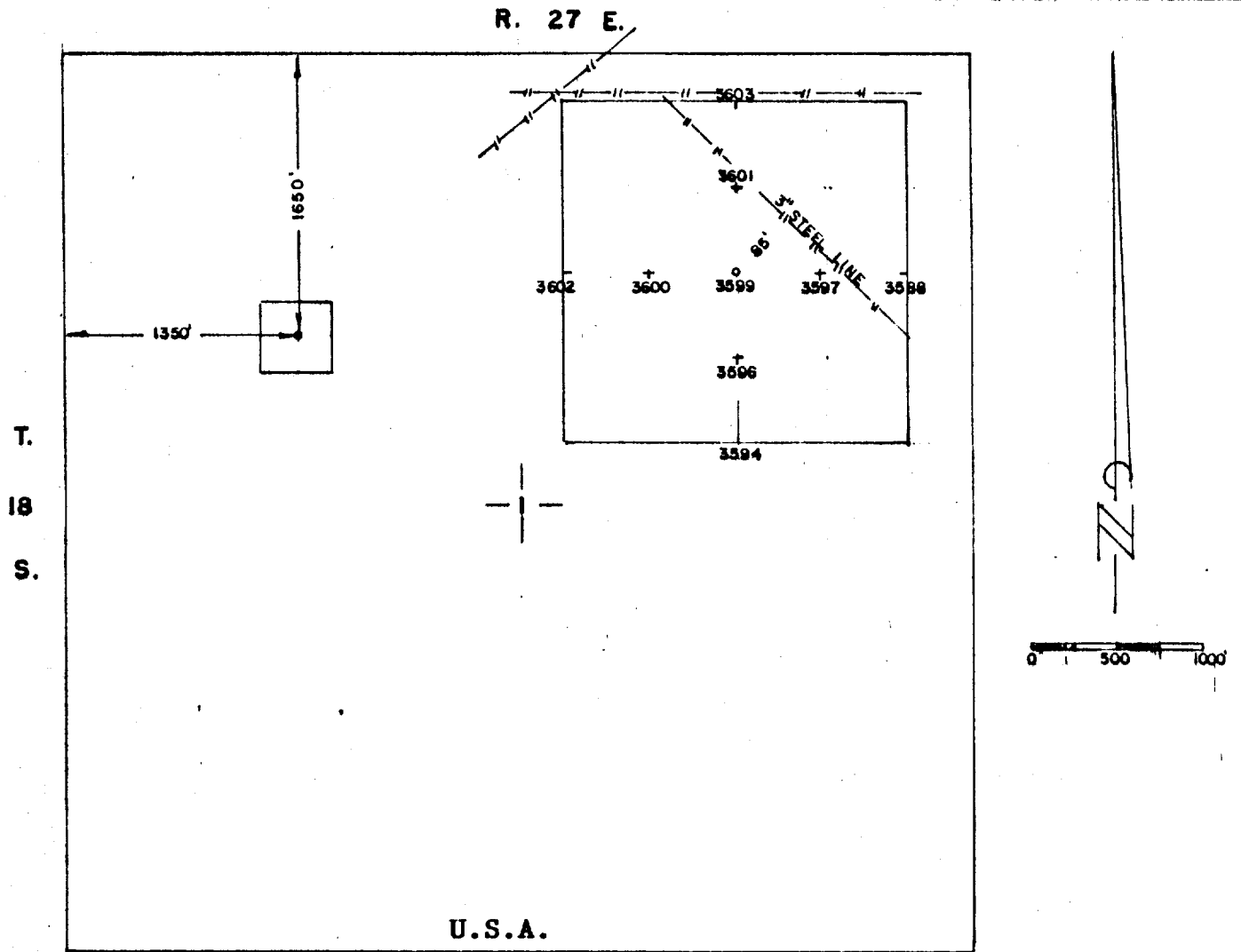
Exhibit "A"

Mewbourne Oil Company
Chalk Bluff Federal #2
Lease # NM-0557371
1350' FWL & 1650' FNL
Sec. 1-T18S-R27E
Eddy County, New Mexico

Proposed Road
Existing Road

SECTION 1, TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM,
EDDY COUNTY, NEW MEXICO.

JOB No.

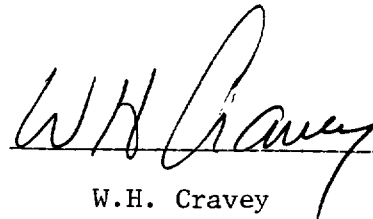


12. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Mewbourne Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

April 2, 1991

Date

A handwritten signature in black ink, appearing to read 'W.H. Cravey', written over a horizontal line.

W.H. Cravey
Production Superintendent
Mewbourne Oil Company

10. OTHER INFORMATION:

A. The geologic surface formation is hard clay interspersed with sand and chert outcroppings. Vegetative cover is generally sparse and consist mostly of greasewood and bear grass.

B. The estimated tops of geologic markers are as follows:

Queen	1260'✓	Cisco	7740'
San Andres	2100'✓	Canyon	8350'
Glorieta	3720'	Strawn	8900'
Tubb	4930	Atoka	✓9500'
Abo	5900'✓	Morrow	✓9600'
Wolfcamp	6900'✓	Mississippian	10100'

C. The estimated depths at which anticipated water, oil or gas are expected to be encountered:

Water: Possible surface water between 100'-300'.

Oil: Penrose @ 1520'. /

Gas: Wolfcamp @ 6900'.

D. Proposed Casing Program: See Form 9-331C.

E. Pressure Control Equipment: See Form 9-331C and Exhibit "D".

F. Mud Program: See Form 9-331C.

G. Auxiliary Equipment: Mud-gas seperator and PVT system from 6,000'-T.D.

H. Testing and Coring Program: Possibility of 4 DST's in the following zones:
Wolfcamp, Cisco, Strawn,
Morrow. No cores are planned at this time.

Logging: Gamma Ray - Spectral
Density - Dual Spaced Neutron Log; T.D. to surface
Gamma Ray - Dual Latero Log
Microguard Log; T.D. to Intermediate casing.

I. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the weight.

J. Anticipated Starting Date: As soon as possible after BLM approval.

11. OPERATOR'S REPRESENTATIVE:

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

W.H. Cravey	(505) 393-5905	701 S. Cecil
Erick W. Nelson	24 Hrs. Svc.	Hobbs, N.M.

5. SOURCE OF CONSTRUCTION MATERIALS:

- A. Caliche will be taken from a BLM pit located in the NE4/NW4 of Section 12-T18S-R27E which would be BLM pit # 18271203. This pit also extends into the SE4/SW4 of Section 1-T18S-R27E which would be BLM pit # 18270114. An alternate pit which may be used in the event BLM pit # 18271203 contains unsuitable material would be a BLM pit located in the SW4/NE4 of Section 1-T18S-R27E which would be BLM pit # 18270107.

6. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human water will be complied with.
- E. All trash, junk and other waste material will be contained to prevent scattering and will be removed and deposited in an approved sanitary landfill.
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

7. ANCILLIARY FACILITIES:

- A. None required.

8. WELLSITE LAYOUT:

- A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit and location of major rig components.
- B. The pad and pit area has been staked and flagged.

9. PLANS AND RESTORATION OF THE SURFACE

- A. After completion of drilling and/or completion operations all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.

MULTI-POINT SURFACE USE AND OPERATING PLAN

MEWBOURNE OIL COMPANY

CHALK BLUFF FEDERAL WELL NO. 2

1350' FWL & 1650' FNL OF SEC. 1-T18S-R27E

EDDY COUNTY, NEW MEXICO

NEW MEXICO LEASE NO. NM-0557371

This plan is submitted with the Application for Permit to Drill (APD) the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan and the magnitude of necessary surface disturbance involved, so that a complete appraisal can be made of the enviromental effects associated with the operation. The surface to be disturbed is privately owned and a surface use agreement has been signed with the land owner.

1. EXISTING ROADS:

- A. From the junction of U.S. 82 and U.S. 285 Highways in Artesia, proceed east on U.S. 82 for 12 miles. Turn right (South) on Eddy County #206 (Illinois Camp Road) and proceed south for 1.75 miles. Turn right on Eddy County Road #204 and proceed northwest for .75 miles. Turn left (West) and proceed for 1 mile. Turn left (south) and proceed for 1/4 mile. Turn right (west) and proceed for 1/3 mile. Turn right (north) and proceed for 1/4 mile. Turn right(northeast) and proceed for 1/4 mile into location.
- B. Culverts: None Required.
- C. Cuts and Fills: A three and half to four foot cut will be required for construction of the location.
- D. Turn-Outs: None required.
- E. Gates and Cattleguards: None required.

2. LOCATION OF EXISTING WELLS:

- A. Existing wells in a 1 mile radius are shown on Exhibit "B".

3. LOCATION OF PROPOSED FACILITIES:

- A. If the well is productive, all production facilities will be constructed on the existing pad and no additional surface disturbance will occur.

4. LOCATION AND TYPE OF WATER SUPPLY:

- A. Water will be purchased and trucked to the wellsite over the existing and proposed roads shown on Exhibits "A" and "AA".

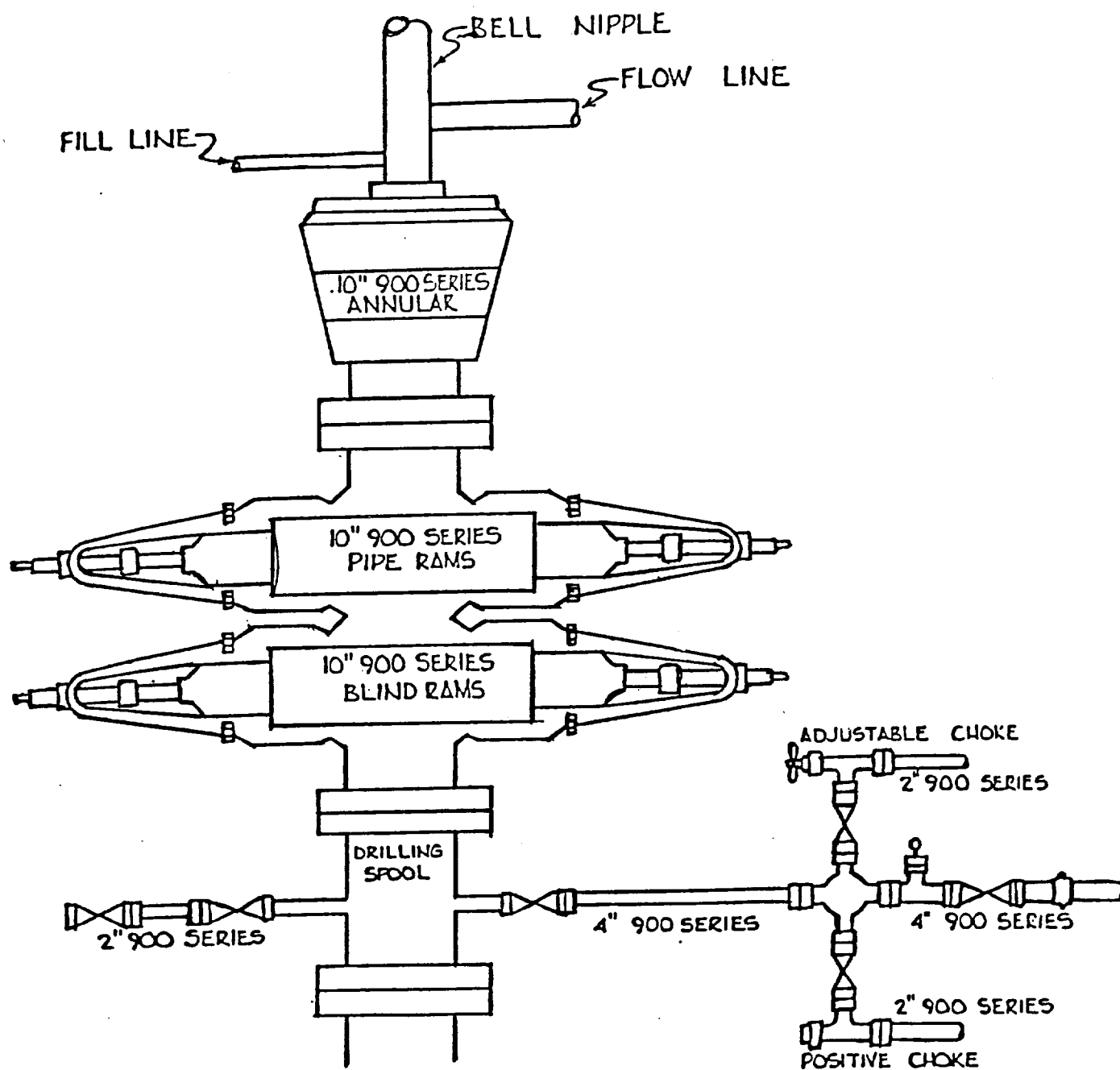


Exhibit "D"

Mewbourne Oil Company
 Chalk Bluff Federal #2
 Lease # NM-0557371
 1350' FWL & 1650' FNL
 Sec. 1-T18S-R27E
 Eddy County, New Mexico

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1940, Hobbs, NM 88240

DISTRICT II
P.O. Drawer 120, Artesia, NM 88210

DISTRICT III
1000 Rio Rancho Rd., Artesia, NM 87410

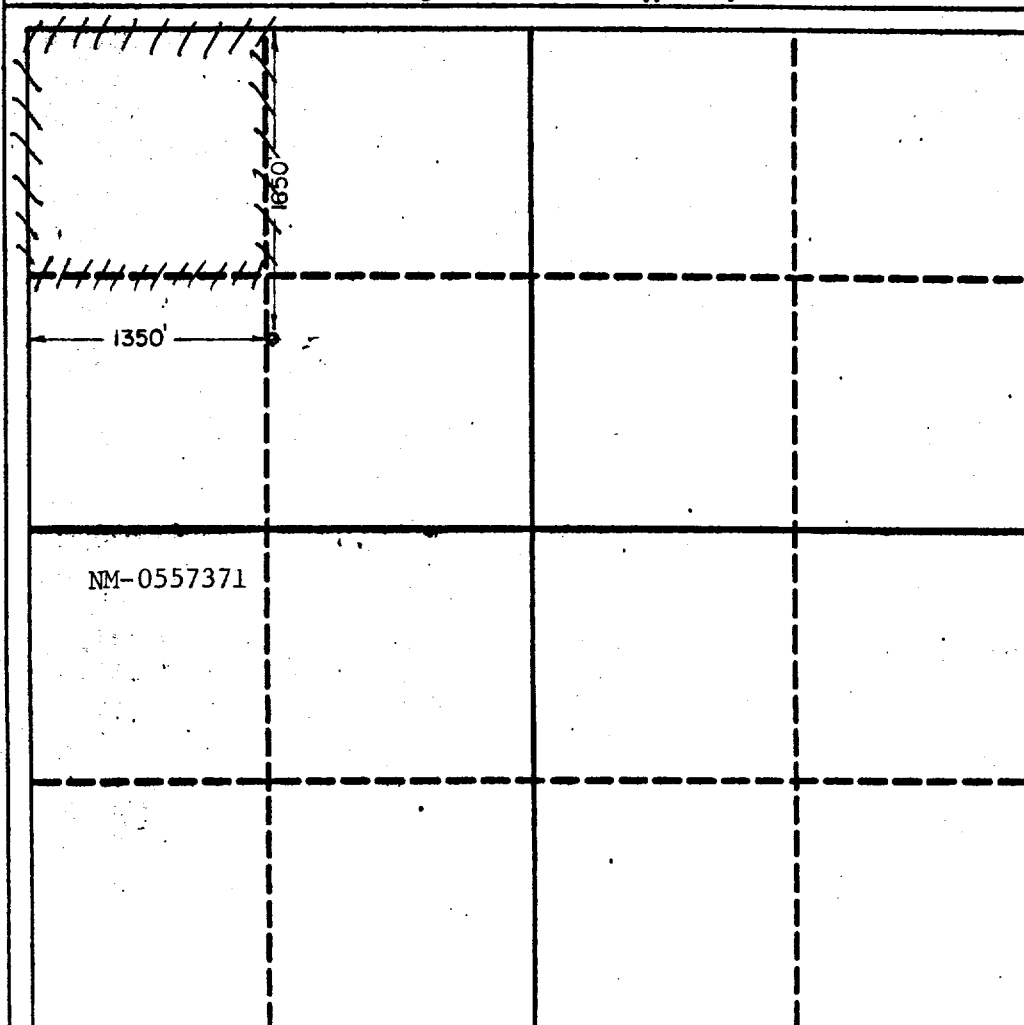
WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

535

Operator MEWBOURNE OIL COMPANY			Lease CHALK BLUFF FEDERAL Com.		Well No. 2
Unit Letter F	Section 1	Township 18 SOUTH	Range 27 EAST	County EDDY	
Actual Postage Location of Well: 1350 feet from the WEST line and 1650 feet from the NORTH line					
Ground level Elev. 3599	Producing Formation Morrow		Pool North Illinois Camp Morrow		Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or ink marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communication, unitization, forced-pooling, etc.?
☒ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
No allowable will be assigned to the well until all interests have been consolidated (by communication, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature *W.H. Cravey*
Printed Name **W.H. Cravey**
Position **District Supt.**
Company **Mewbourne Oil Co.**
Date **April 2, 1991**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed **3/28/91**
Signature & Seal of Professional Surveyor
Herschel L. Jones
Certificate No. **3640**
STATE OF NEW MEXICO
HERSCHEL L. JONES
Professional Surveyor

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

30-015-26741
Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Mewbourne Oil Company ✓

3. ADDRESS OF OPERATOR

P.O. Box 5270 Hobbs, New Mexico 88241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface

1350' FWL & 1650' FNL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

7 miles Southeast of Artesia, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

1350'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

10,200'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3599' GR

22. APPROX. DATE WORK WILL START*

Upon BIM approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13-3/8"	61#	400'±	450 sks. Class "C" circulated
12 1/4"	9-5/8"	36#	2,600'±	800 sks. Class "C" Tie back into surface-
8 3/4"	5-1/2"	17# & 20#	10,200'±	600 sks. Class "H" (600' above Wolfcamp)

Mud Program:

- 0' - 400' Spud mud with fresh water gel and lime. LCM as needed.
- 400' - 2,600' Fresh water gel and lime. LCM as needed.
- 2,600' - 8,500' Cut brine with lime for pH control. Wt. 9.2-9.6 ppg, WL - NC. LCM as needed.
- 8,500' - 10,200' Cut brine with Drispac, salt gel, lime, soda ash, and starch. Wt. 9.2-9.6 ppg. WL 10 cc or less. Raise weight accordingly if abnormal pressures are encountered.

BOP Program

900 series BOP and Hydril on 13-3/8" surface casing and on 9 5/8" intermediate casing.

Gas is not dedicated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE District Superintendent

DATE April 2, 1991

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States a false statement or to conceal or destroy any record or document in its possession or control.

1-05-12-12

1-05-12-12

1-05-12-12
1-05-12-12
1-05-12-12

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUN 20 1991

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS
O. C. D. ARTESIA, OFFICE

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P. O. Box 7698, Tyler, Texas 75711

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1350' FWL & 1650' FNL of Sec. 1, T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal Com #2

9. API Well No.

30-015-26741

10. Field and Pool, or Exploratory Area

North Illinois Camp Morrow

11. County or Parish, State

Eddy, New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Spud & set Pipe

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

5/13/91 - Spud @ 8:00 PM 5/13/91.

5/15/91 - Ran 13 jts 13-3/8" 61# ST&C surface casing set at 416'. Cemented with 100 sxs Class "C" thixset w/1/2# flocele, 5# Gilsonite & 3% CaCl and 100 sxs Class "C" w/6% gel, 1/2# flocele, 5# Gilsonite and 250 sxs Class "C" w/3% CaCl. Plug down @ 9:45 AM. Did not circulate. WOC 6 hrs. Tagged with 1" at 82'. At 3:00 PM cemented w/100 sxs Class "C" w/3% CaCl. Job complete 3:15 PM. Circulated est. 25 sxs to pit. WOC 11 hrs. Pressure tested to 1000# - held okay.

5/20/91 - Ran 60 jts 9-5/8" 36# J-55 ST&C Intermediate casing set at 2610' K.B. Cemented w/825 sxs Class "C" + 6% gel + 5# Gilsonite + 1/2# flocele + 2% CaCl followed by 200 sxs Class "C" + 2% CaCl. PD at 5:45 AM. Pressure tested 1000-1500#. Float held. Circulated 125 sxs cement to pit. WOC 18 hrs.

14. I hereby certify that the foregoing is true and correct

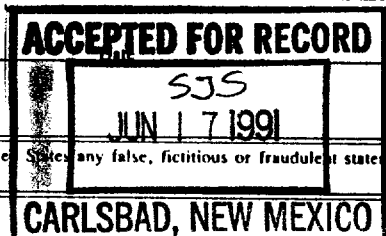
Signature [Signature] Title Engr. Oprns. Secretary Date 5/20/91

(This space for Federal or State office use)

Approved by _____ Title _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



RECEIVED
Form 1160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUN 25 1991
O. C. D.
ARTESIA, OFFICE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P. O. Box 7698, Tyler, Texas 75711

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1350' FWL & 1650' FNL of Sec. 1, T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal Com #2

9. API Well No.

30-015-26741

10. Field and Pool, or Exploratory Area

North Illinois Camp Morrow

11. County or Parish, State

Eddy, New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Run 5-1/2" casing
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

6/16/91 - Ran 5-1/2" 17# & 20# N-80 casing set at 10,148'. DVT: 7606'. Circulated 30 mins. Cemented 1st stage with 260 sacks Hal-Lite Class "H" w/5# Gilsontite, + 1/4# Flocele + 3/10% CFR-3. Tailed in with 300 sacks Premium containing 5/10% Halad-22A + 3/10% CFR-3 + 3# Gilsontite + 5# KCL. Plug down with full returns. Pressure tested to 1000#. Held OK. Drop bomb open DVT. Circulated 6 hrs.

6/17/91 - Cemented 2nd stage with 260 sacks Hal-Lite Class "C" containing 3# Gilsontite + 1/4# Flocele. Tailed in with 200 sacks Prem H cement. Plug down 4:15 PM 6/16/91 with full returns. Closed DVT. WOC 18 hrs. Pressure tested to 1500#. Held OK.

14. I hereby certify that the foregoing is true and correct

Signed Raymond Thompson

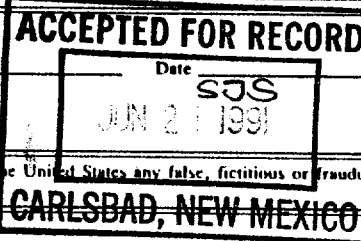
Title Engr. Oprns. Secretary

Date 6/18/91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____



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*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
AUG 27 1991

O. C. D.
ARTESIA, OFFICE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NM-0557371
2. Name of Operator Mewbourne Oil Company ✓	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P. O. Box 7698, Tyler, Texas 75711	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1350' FWL & 1650' FNL of Sec. 1, T18S-R27E	8. Well Name and No. Chalk Bluff Federal Com #2
	9. API Well No. 30-015-26741
	10. Field and Pool, or Exploratory Area North Illinois Camp Morrow
	11. County or Parish, State Eddy, New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Perforate & Treat</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7/10/91 - Made final cut-off on 5-1/2" casing. Installed tubinghead and tested to 3000#. Tagged cement on top of DV tool at 7414'. DV tool @ 7606'.

7/11/91 - Pressure tested casing to 1500#. Held OK. Drilled out 192' cement & DV tool. Tested casing to 1500#. TIH w/tubing and tagged cement @ 10,090'. Drilled out 24' to float collar at 10,114'. Tested casing to 1500#. Held OK.

8/12/91 - Perforated 9999'-10,024', 4 SPF, 101 holes. Acidized with 5000 gals 7-1/2% HCL. ISDP 7350#, 5 min 7100#, 10 min 6950#, 15 min 6800#. Max treating press 7500#. Avg treating press 8100#. Avg injection rate 4.4 BPM.

14. I hereby certify that the foregoing is true and correct

Signed Raymond Thompson Title Engr. Oprns. Secretary

Date 8/16/91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

ACCEPTED FOR RECORD
Date 8/31/91
SJS

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 11 1991
O. C. D.
ARTESIA OFFICE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

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3. Address and Telephone No.
P. O. Box 7698, Tyler, Texas 75711

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1350' FWL & 1650' FNL of Sec. 1, T18S-R27E

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NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Chalk Bluff Federal Com #2

9. API Well No.
30-015-26741

10. Field and Pool, or Exploratory Area

North Illinois Camp Morrow

11. County or Parish, State

Eddy, New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8/17/91 - Rigged up Western to acidize perfs 9999-10,243' using 10,000 gals gelled 15% HCL with 10,000 gals CO₂ containing 2 gal I-22, 1 gal Clay Master 4, 1 gal FS-2, 2 gal Nine-40, 6 gal Acigel & 5 gal citric acid liquid per 1000 gals acid. Pumped as follows:

20,000 Gals Acid/CO₂ 6 BPM - total rate @ 9200#. Spotting 5 Ball Sealers; 6 Bbls Foam.

60 Bbls 2% KCL water/CO₂ flush 6 BPM - Total rate @ 9150#.

Tubing loaded with 38 bbls pumped away. Had good ball action throughout but swabbed no noticeable break in treating pressures. Min Press: 8500#. Max Press: 9500#. Avg Press: 9200#. Avg Rate: 6 BPM. ISDP: 6600# (5 Min=6400#; 10 Min=6200#; 15 Min=6150#). Rigged down Western. Started flowing well to pit on 24/64" choke.

14. I hereby certify that the foregoing is true and correct

Signed Raymond Thompson Title Engr. Oprns. Secretary

Date 9/03/91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

ACCEPTED FOR FILE
Date SJS
SEP 11 1991

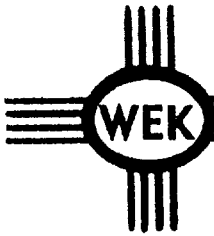
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

RECEIVED

SEP - 5 1991

KEN REYNOLDS—PRESIDENT
O. S. P. ARNOLD NEWKIRK—VICE-PRESIDENT
ARTESIA OFFICE



DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 505/746-2719
ROSWELL, NM ARTESIA, NM

June 18, 1991

Mewbourne Oil Company
P.O. Box 5270
Hobbs, N.M. 88241

REF: Chalk Bluff Federal Comm #2

Gentlemen:

The following is a Deviation Survey on the above referenced well located in Eddy County, New Mexico.

416' - 1/2°	4715' - 1 1/4°	5766' - 4 1/2°	6944' - 2 1/2°
917' - 1°	5182' - 1 1/2°	5829' - 4 1/4°	7441' - 2°
1423' - 1°	5222' - 2 1/4°	5891' - 4 1/2°	7939' - 2°
1791' - 3/4°	5306' - 3 1/4°	5951' - 3 3/4°	8435' - 1 3/4°
2093' - 1/2°	5398' - 4°	6013' - 3 3/4°	8623' - 1°
2610' - 1°	5459' - 4°	6075' - 3 3/4°	9093' - 1°
3088' - 1°	5521' - 4°	6136' - 3 1/2°	9570' - 1 1/4°
3564' - 1°	5583' - 3 3/4°	6197' - 3°	9638' - 3/4°
3905' - 1/2°	5645' - 4 1/2°	6253' - 3°	10140' - 3/4° TD
4231' - 1 1/2°	5705' - 4 1/2°	6443' - 2 1/4°	

Sincerely,

Arnold Newkirk
Vice-President

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing was acknowledged before me this 18th day of June 1991 by Arnold Newkirk.

MY COMMISSION EXPIRES

October 07, 1992

NOTARY PUBLIC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS. COMMISSION
Drawer DD
Artesia, NM 88210
SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

45F

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____
2. NAME OF OPERATOR
Mewbourne Oil Company
3. ADDRESS OF OPERATOR
P. O. Box 7698, Tyler, Texas 75711
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1350' FWL & 1650' FNL
At top prod. interval reported below
At total depth Same
14. PERMIT NO. DATE ISSUED
API #30-015-26741

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OCT 16 1992
O. C. D.
ARTESIA OFFICE

5. LEASE DESIGNATION AND SERIAL NO.
NM-0557371
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Chalk Bluff Federal Com
9. WELL NO.
2
10. FIELD AND POOL, OR WILDCAT
N. Illinois Camp Morrow
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 1, T18S-R27E
12. COUNTY OR PARISH
Eddy
13. STATE
N.M.
15. DATE SPUDDED
5/13/91
16. DATE T.D. REACHED
6/12/91
17. DATE COMPL. (Ready to prod.)
8/24/91
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*
KB 3615', DF 3613', GL 3599'
19. ELEV. CASINGHEAD
20. TOTAL DEPTH, MD & TVD
10,140'
21. PLUG, BACK T.D., MD & TVD
10,125'
22. IF MULTIPLE COMPL., HOW MANY*
23. INTERVALS DRILLED BY
ROTARY TOOLS
X
CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
9,999'-10,024' - Morrow
25. WAS DIRECTIONAL SURVEY MADE
Yes
26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Spaced Neutron/CBL
27. WAS WELL CORED
No

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	61#	416'	17-1/2"	450 - Circulated	None
9-5/8"	36#	2,610'	12-1/4"	1025 - Circulated	None
5-1/2"	17# & 20#	10,148'	8-3/4"	1020 - Circulated	None

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	9939'	9939'

PERFORATION RECORD (Interval, size and number)		ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9999'-10,024' - 4 SPF, 101 holes		9999-10,024'	Acidized w/5000 gals 7 1/2% HCL.
			Acidized w/20,000 gals acid/CO ₂

33.* PRODUCTION
DATE FIRST PRODUCTION
8/26/91
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)
Flowing
WELL STATUS (Producing or shut-in)
Producing
DATE OF TEST
8/29/91
HOURS TESTED
24 hrs.
CHOKE SIZE
16/64"
PROD'N. FOR TEST PERIOD
OIL—BBL.
0
GAS—MCF.
118
WATER—BBL.
0
GAS-OIL RATIO
—
FLOW. TUBING PRESS.
410#
CASING PRESSURE
—
CALCULATED 24-HOUR RATE
OIL—BBL.
0
GAS—MCF.
118
WATER—BBL.
0
OIL GRAVITY-API (CORR.)
—
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Sold
TEST WITNESSED BY
Bill Pierce

35. LIST OF ATTACHMENTS
Logs
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Raymond Thompson TITLE Engr. Opns. Secretary DATE 9/03/91

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Middle Morrow	9752'	9785'	Sandstone
Lower Morrow	9808'	9878'	Sandstone
Basal Morrow	9999'	10024'	Detrital Limestone

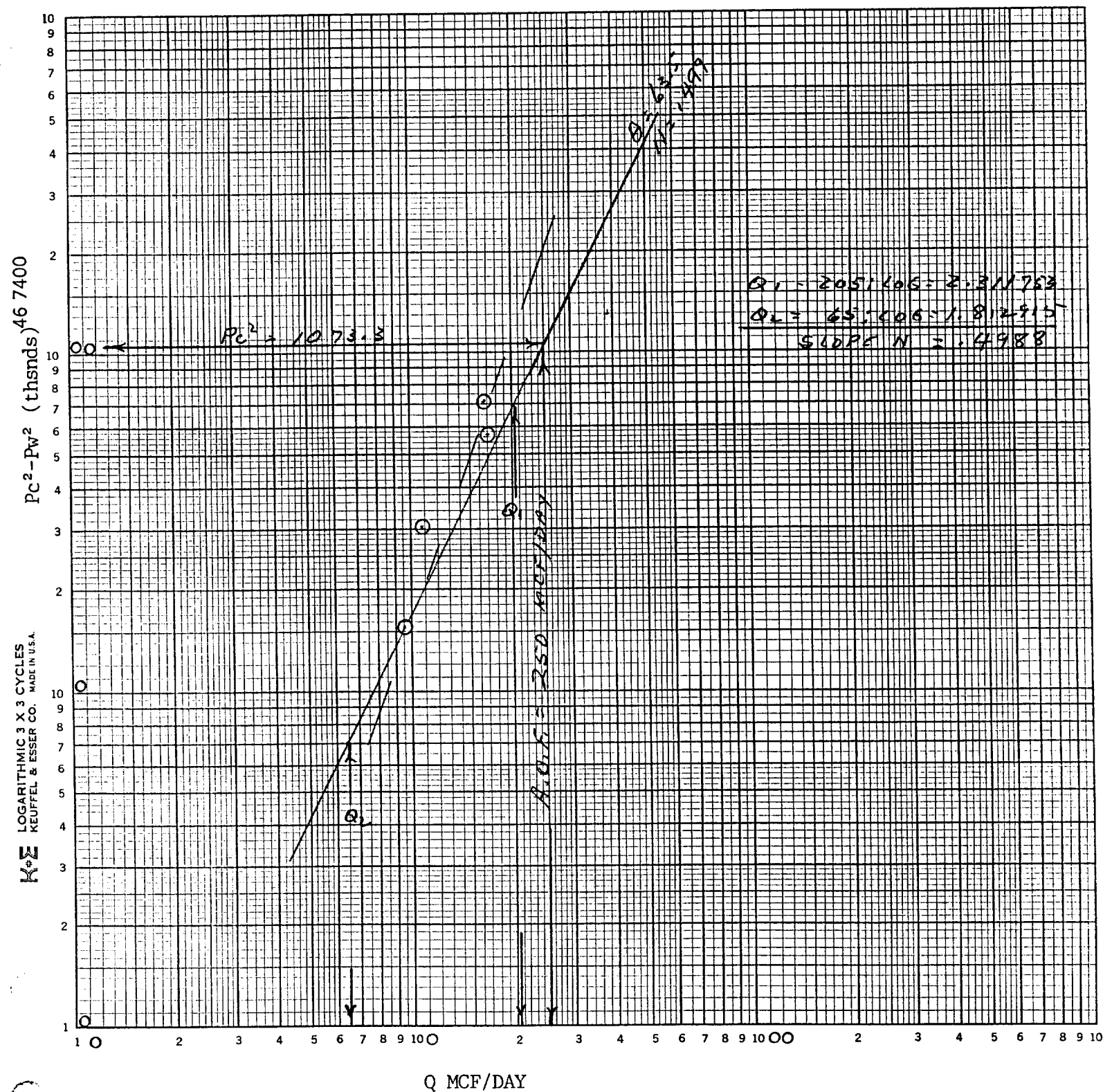
38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Yates	370'	
Queen	1,034'	
Grayburg	1,346'	
San Andres	1,833'	
Glorietta	3,178'	
Tubb	4,130'	
Drinkard	5,076'	
Abo	5,380'	
Wolfcamp	6,644'	
Cisco	7,602'	
Canyon	8,326'	
Strawn	8,808'	
Morrow	9,496'	
Morrow Clastics	9,696'	
Chester	10,056'	

50010, Vol. 4, p. 875-878

Absolute Open Flow _____		At _____ Slope @ _____ Slope at _____	
Remarks: <u>7- BHP increasing but sand still present</u>			
<u>Test Log Attached</u>	<u>Perm Known: <u>no</u></u>	<u>NO FLUID PRODUCTION</u>	
Approved By: <u>[Signature]</u>	Inducted by: _____	Checked By: _____	

MEWBOURNE OIL COMPANY
 Chalk Bluff Fed., Well 2
 1-18-27
 Eddy County, New Mexico
 2-25-92



Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page
SEP - 5 1991

O. C. D.
ARTESIA OFFICE

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator MEWBOURNE OIL COMPANY /	Well API No. 30-015-26741
Address P. O. Box 7698, Tyler, Texas 75711	
Reason(s) for Filing (Check proper box) New Well <input checked="" type="checkbox"/> <input type="checkbox"/> Other (Please explain) Recompletion <input type="checkbox"/> Change in Transporter of: Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Change in Operator <input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	
If change of operator give name and address of previous operator	

II. DESCRIPTION OF WELL AND LEASE

Lease Name CHALK BLUFF FEDERAL	Well No. 2	Pool Name, Including Formation N.Illinois Camp-Morrow Gas	Kind of Lease State, Federal or Fee	Lease No. NM-0557371
Location Unit Letter <u>F</u> : <u>1350</u> Feet From The <u>West</u> Line and <u>1650</u> Feet From The <u>North</u> Line Section <u>1</u> Township <u>28</u> South Range <u>27</u> East , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Amoco Pipeline Intercompany Trucking	Address (Give address to which approved copy of this form is to be sent) Oil Tender Dept. Box 702068, Tulsa, Ok 74170-2068					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Transwestern Pipeline Company	Address (Give address to which approved copy of this form is to be sent) P.O.Box 1188, Houston, Texas 77251-1188					
If well produces oil or liquids, give location of tanks.	Unit F	Sec. 1	Twp. 18S	Rge. 27E	Is gas actually connected? Yes	When? 8/13/91

If this production is commingled with that from any other lease or pool, give commingling order number: No

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 5/13/91	Date Compl. Ready to Prod. 8/24/91		Total Depth 10,140'		P.B.T.D. 10,125'			
Elevations (DF, RKB, RT, GR, etc.) KB 3615', DF 3613', GL 3599'	Name of Producing Formation Morrow		Top Oil/Gas Pay 9,999'		Tubing Depth 9,939'			
Perforations 9999'-10,024'					Depth Casing Shoe ---			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
17-1/2"	13-3/8"		416'		450 - Circulated			
12-1/4"	9-5/8"		2,610'		1025 - Circulated			
8-3/4"	5-1/2"		10,148'		1020 - Circulated			

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.) Post ID-2 5-1-92 Camp + BK	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 118	Length of Test 24 hours	Bbls. Condensate/MMCF 0	Gravity of Condensate 0
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 410#	Casing Pressure (Shut-in) ---	Choke Size 16/64"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature
Gaylon Thompson, Engr. Opns. Secretary
Printed Name
9/03/91
Date
(903) 561-2900
Telephone No.

OIL CONSERVATION DIVISION

Date Approved APR 23 1992

By ORIGINAL SIGNED BY
MIKE WILLIAMS
Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 6 9 58 AM '92

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com.

9. API Well No.

2

10. Field and Pool, or Exploratory Area

North Illinois

Camp Morrow

11. County or Parish, State

Eddy County, N.M.

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1350' FWL & 1650' FNL

Sec. 1-T18S-R27E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

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☐ Other

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☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well is currently producing from Basal Morrow perforations at 9999' - 10,024' and has reached it's economical limit. Plans are to recompleete into lower Morrow Sands.

1. Set CIBP at 9950'. Cap with 50' cement.
2. Perforate Lower Morrow (9850'-9860'; 9864'-9878'; 9752'-9762'; 9764'-9774'; 9778'-9785')
3. Stimulate well as necessary and evaluate.
4. Restore well to production.

Will commence operations upon BLM approval.

AUG 12 1992

Q. C. D.
ARTIFICIAL OFFICE

14. I hereby certify that the foregoing is true and correct

Signed E. W. Nelson Title Engineer Date August 3, 1992

(This space for Federal or State office use)

Approved by _____ Title _____ Date 8/11/92
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 16 1992

O. C. D.
ARTESIA OFFICE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P. O. Box 7698, Tyler, Texas 75711 (903) 561-2900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1350' FWL & 1650' FNL of Sec. 1, T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed Com #2

9. API Well No.

30-015-26741

10. Field and Pool, or Exploratory Area

North Illinois Camp Morrow

11. County or Parish, State

Eddy, New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☒ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9/10/92 - Killed well. Pulled tbg & pkr. Ran in hole w/CIBP set at 9970'. Dumped 35' cement on top. PBTD @ 9935'.

9/11/92 - RIH w/tbg & pkr set at 9731'. Tested to 8000#. Set pkr w/15 pts compression. Tested annulus to 2000#. Held OK. Tested tbg to 2500#. Held OK. Swabbed well down.

9/12/92 - Perf Lower Morrow 9850-9876' w/2 SPF, 22' net, 46 holes.

9/13/92 - Acidized perfs w/2800 gals 7 1/2% HCL acid + additives containing 1000 SCF/Bbl nitrogen + 60 ball sealers. Flushed w/2% KCL containing 1000 SCF/bbl nitrogen. Pressure tested annulus to 1500# and pumped acid.

9/17/92 - Frac perfs w/40,000 gals Binary foam + 30,000# 20/40 Interprop. ISDP 5400#, 5 mins 4600#, 10 mins 4350#, 15 mins 4150#. AR 12 BPM. AP 8100#. MR 12 BPM. MP 8400#. Opened well and left flowing to pit.

9/19/92 - Well flowing thru test unit. Put well down sales line @ 5:00 PM 9/19/92.

14. I hereby certify that the foregoing is true and correct

Signed Raymond Thompson Title Engr. Oprns. Secretary

Date 9/30/92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

REC. ED
NOV 18 1992
O.C.D.
ARTS & CRAFTS

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Wt. F 1350' FWL & 1650' FNL
1-288-27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #2

9. API Well No.

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9-09-92 Set CIBP @ 9970'. Dumped 35' cement on CIBP.

9-11-92 Perforated Morrow formation (9850'-9860' & 9864'-9876') with 2 SPF for a total of 46 holes.

9-12-92 Acidized Morrow perforations with 2800 gal. 7 1/2% HCL and 1000 SCF/bbl. N2.

9-16-92 Fraced Morrow perforations with 40,000 gal. binary foam carrying 30,000# 20/40 sand.

RECEIVED
NOV 29 23 41 '92
O.C.D.
ARTS & CRAFTS

FOR RECORD
2 1992
NEW MEXICO

14. I hereby certify that the foregoing is true and correct

Signed

Title District Supt.

Date Oct. 27, 1992

(This space for Federal or State Office use)

Approved by

Title

Date

Conditions of approval, if any:



Laboratory Services

1331 Tasker Drive

Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
Attention: Mr. Ray Gallagher
P. O. Box 791
Hobbs, New Mexico 88240

SAMPLE
IDENTIFICATION: Chaulk Bluff Fed. #2
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

SAMPLE DATA:	DATE SAMPLED:	11/5/92 3:15PM	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	11-05-92	SAMPLED BY:	Gallagher-Pro Well
	PRESSURE - PSIG	540.00	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F	78.00		
	ATMOS. TEMP. °F	48.00		

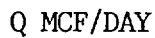
REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM	
Oxygen (O2)			
Hydrogen Sulfide (H2S)			
Nitrogen (N2)	0.40		
Carbon Dioxide (CO2)	0.59		
Methane (C1)	88.27		
Ethane (C2)	7.05	1.881	
Propane (C3)	2.37	0.652	
I-Butane (IC4)	0.29	0.095	
N-Butane (NC4)	0.52	0.164	
I-Pentane (IC5)	0.15	0.055	
N-Pentane (NC5)	0.10	0.036	
Hexane (C6+)	0.26	0.107	
Heptanes Plus (C7)	0.00	0.000	
	100.00	2.990	
BTU/CU.FT. - DRY	1125	MOLECULAR WT	18.5705
AT 14.650 DRY	1121		
AT 14.650 WET	1102	26# GASOLINE -	0.253
AT 15.025 DRY	1150		
AT 15.025 WET	1130		
SPECIFIC GRAVITY -			
CALCULATED	0.641		
MEASURED	0.000		

SUGGESTED FIELD DATA SHEET (Not Required To File)											
Type Test		<input checked="" type="checkbox"/> INITIAL		<input type="checkbox"/> ANNUAL		<input type="checkbox"/> SPECIAL		Test Date		Lease No. or Serial No.	
Company		MEWBOURNE OIL COMPANY		Connection				Allottee			
Field		Reservoir		Location				Unit			
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name			
Csg. Size		5 1/2		Set At		9935		Perforation From To		9850 9876	
Tbg. Size		2 7/8		Set At		9731		Perforation From To		9731 9876	
Type Completion (Describe)		single		Packer Set At		9731		County or Parish		Eddy	
Producing thru		Reservoir Temp. F		Mean Annual Temp. F		Baro. Press. - P _g		State		New Mexico	
9731		9731		.641		.59		.40		3.068 Flg.	
DATE	ELAP TIME	Wellhead Working Pressure			METER OR PROVER				REMARKS		
Time of Reading	Hrs.	Tbg. Psig.	Csg. Psig.	Temp F	Pressure Psig.	Diff.	Temp F	Orifice	(Include liquid Production data) Type-A.P.I. Gravity-Amount		
	72	2203	PKR.								
1st	1	2145	"		530	3.00	78	1.500			
2nd	30min.	2120	"		530	6.00	84	1.500			
3rd	45m	2055	"		540	15.00	78	1.500			
4th	1	1900	"		540	36.00	70	1.500			
5th	30m	1805	"		545	78.00	66	1.500			
NO FLUID - DRY GAS											

11-5-92



Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

Energy, Minerals and Natural Resources Department

Form C-122

Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

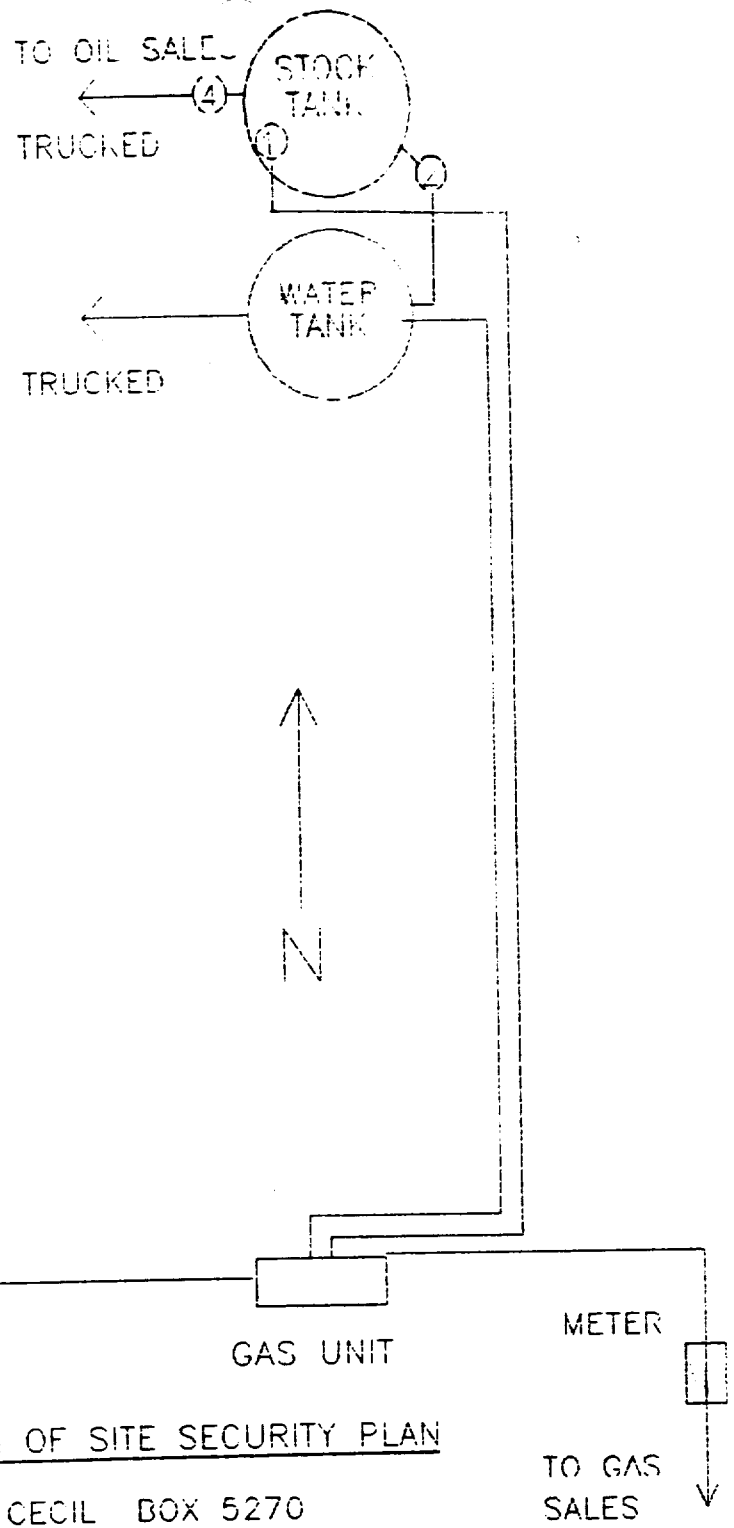
OIL CONSERVATION DIVISION
RECEIVED

RECEIVED
DEC 3 1992

O.C.D.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Mewbourne					Lease or Unit Name Chalk Bluff				
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 11-5-92		Well No. 2		
Completion Date		Total Depth		Plug Back TD 9935		Elevation		Unit Ltr. - Sec. - TWP - Rge. 1 - 18 - 27	
Csg. Size 5 1/2	Wt. d	Set At 9935	Perforations: From: 9850 To: 9876			County Eddy			
Tbg. Size 2 7/8	Wt. 6.5	Set At 9731	Perforations: From: To: 			Pool N Illinois Camp Mor			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 9731		Formation Morrow			
Producing Thru tbg. 171° @ 9731		Reservoir Temp. °F 60		Baro. Press - P _a 13.2		Connection Phillips			
L 9731	H 9731	Gg .641	% CO ₂ .59	% N ₂ .40	% H ₂ S	Prover	Meter Run 3.068	Taps flg.	
FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI						2203		PRK	
1.	3 X 1.500		530	3.00	78	2145		"	
2.	3 X 1.500		530	6.00	84	2120		"	
3.	3 X 1.500		540	15.00	78	2055		"	
4.	3 X 1.500		540	36.00	70	1900		"	
5.	3 X 1.500		545	78.00	66	1805		"	
RATE OF FLOW CALCULATIONS									
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv} .	Rate of Flow Q, Mcfd		
1.	11.13	40.37	543.2	.9831	1.249	1.055	582		
2.	11.13	57.09	543.2	.9777	1.249	1.049	832		
3.	11.13	91.09	553.2	.9831	1.249	1.056	1315		
4.	11.13	141.12	553.2	.9905	1.249	1.056	2052		
5.	11.13	208.66	558.2	.9943	1.249	1.057	3049		
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.				
1.	.81	538	1.44	.898	A.P.I. Gravity of Liquid Hydrocarbons .641 Deg.				
2.	.81	544	1.46	.909	Specific Gravity Separator Gas XXXXXXXXXX				
3.	.82	538	1.44	.897	Specific Gravity Flowing Fluid XXXXXX				
4.	.82	530	1.42	.897	Critical Pressure 670 P.S.I.A. P.S.I.A.				
5.	.83	526	1.41	.895	Critical Temperature 372 R R				
P _c 2216.2 P _c ² 4911.5									
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.242$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.951$				
1.		2159.0	4661.1	250.4					
2.		2134.8	4557.3	354.3					
3.		2073.3	4294.3	617.3					
4.		1923.9	3701.3	1210.2					
5.		1843.0	3396.6	1514.9					
Absolute Open Flow 8,998 Mcfd @ 15.025					Angle of Slope θ 47.4		Slope, n .920		
Remarks: No Fluid Produced during Test									
Approved By Division		Conducted By: PRO WELL TESTERS			Calculated By: BM		Checked By: BM		



WELL

TO OIL SALE
TRUCKED

STOCK TANK

WATER TANK

TRUCKED

N

GAS UNIT

METER

TO GAS SALES

SITE FACILITY DIAGRAM

MEWBOURNE OIL COMPANY

CHALK BLUFF FEDERAL #2

LEASE # NM-0557371

1650'FNL & 1350'FWL, SEC.1 ,T18-S,R27-E

EDDY COUNTY, NEW MEXICO

PRODUCTION SYSTEM OPEN

OIL SALES BY TANK GUAGE TO TRUCK

SEAL REQUIREMENTS

PRODUCTION PHASE

VALVES 2&4 SEALED CLOSED

SALES PHASE

VALVES 1 2 &4 SEALED CLOSED

LOCATION OF SITE SECURITY PLAN

701 S. CECIL BOX 5270

HOBBS, NEW MEXICO

LEGEND

GAS SALES

OIL DUMPLINE

WATER DUMPLINE

WATER DRAIN

RECEIVED
JUN 15 10 40 AM '71

Continued:

The proposed operation is described in detail on the attached diagrams.

A map is enclosed showing the lease numbers and location of all leases and wells that will contribute production to the proposed commingling/common storage facility. All unitized/communitized areas, producing zones/pools are also clearly illustrated.

A schematic diagram is also attached which clearly identifies all equipment that will be utilized.

The storage and measuring facility is located at NM -1/4, Sec. 1, T 18 S, R 27 E, on lease No. 0557371, Eddy County, New Mexico. BLM will be notified if there is any future change in the facility location.

Details of the proposed method for allocating production to contributing sources is as follows:

Gas will be measured at the individual leases and a percentage of contribution will be calculated and applied to the integrated sales volume. There is currently 6 wells producing into the system.

The working interest owners have been notified of the proposal.

The proposed commingling of production is in the interest of conservation and will not result in reduced royalty or improper measurement of production.

The proposed commingling is necessary for continued operation of the above referenced Federal leases.

We understand that the requested approval will not constitute the granting of any right-of-way or construction rights not granted by the lease instrument. And, we will submit within 30 days an application for right-of-way approval to the BLM's Realty Section in your office if we have not already done so.

Additional wells require additional commingling approvals.

Signature: 

Name: Gregory Milner

Title: Engineer

Date: 6/06/95

CRA BLM FORMAT

APPLICATION FOR SURFACE COMMINGLING,
OFF LEASE STORAGE AND MEASUREMENT APPROVAL

This Format Should Be Attached To A Sundry Notice

To: Bureau of Land Management
P. O. Box 1778
Carlsbad, New Mexico 88221-1778

Newbourne Oil Company (Operator's Name) is requesting approval for surface commingling and off-lease storage and measurement of hydrocarbon production from the following formation(s) and well(s) on Federal Lease No. NM-0557371 ; Lease Name: Chalk Bluff Federal

<u>Well No.</u>	<u>Loc.</u>	<u>Sec.</u>	<u>Twp.</u>	<u>Rng.</u>	<u>Formation</u>
<u>#2</u>	<u>F</u>	<u>1</u>	<u>18S</u>	<u>27E</u>	<u>Morrow</u>
<u>#3</u>	<u>I</u>	<u>1</u>	<u>18S</u>	<u>27E</u>	<u>Morrow</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

with hydrocarbon production from the following formation(s) and well(s) on State lease No. E-7179 ; Lease Name: Chalk Bluff "6"
E-647 Illinois Camp 17
E-1313 Illinois Camp 20

<u>Well No.</u>	<u>Loc.</u>	<u>Sec.</u>	<u>Twp.</u>	<u>Rng.</u>	<u>Formation</u>
<u>Chalk Bluff 6 St. #1</u>	<u>M</u>	<u>6</u>	<u>18S</u>	<u>28E</u>	<u>Morrow</u>
<u>Illinois Camp 17 St. #1</u>	<u>F</u>	<u>17</u>	<u>18S</u>	<u>28E</u>	<u>Morrow</u>
<u>Illinois Camp 17 St. #2</u>	<u>J</u>	<u>17</u>	<u>18S</u>	<u>28E</u>	<u>Morrow</u>
<u>Illinois Camp 20 St. #1</u>	<u>C</u>	<u>20</u>	<u>18S</u>	<u>28E</u>	<u>Morrow</u>

Production from the wells involved is as follows:

<u>Well Name and No.</u>	<u>BOPD</u>	<u>Oil Gravity</u>	<u>MCFPD</u>
<u>Chalk Bluff Fed. #2</u>	<u>N/A</u>	<u>N/A</u>	<u>80</u>
<u>Chalk Bluff Fed. #3</u>	<u>N/A</u>	<u>N/A</u>	<u>54</u>
<u>Chalk Bluff 6 St. #1</u>	<u>N/A</u>	<u>N/A</u>	<u>166</u>
<u>Illinois Camp 17 St. #1</u>	<u>N/A</u>	<u>N/A</u>	<u>1200</u>
<u>Illinois Camp 17 St. #2</u>	<u>N/A</u>	<u>N/A</u>	<u>744</u>
<u>Illinois Camp 20 St. #1</u>	<u>N/A</u>	<u>N/A</u>	<u>118</u>

* Only gas will be comingled off lease

Continued ...

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

15P
NM OIL CONS COMMISSION
FORM APPROVED
Drawer DD, Budget Bureau No. 1004-0135
Artesia, NM 88210
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1350' FWL & 1650' FNL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #2

9. API Well No.

30-015-26741

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., N.M.

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☐ Altering Casing
☐ Other Application for
Measurement Approval
- ☐ Change of Plans
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☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See Attached Forms & Diagrams.

RECEIVED

OCT 10 1995

OIL CON. DIV.

DIST. 2

14. I hereby certify that the foregoing is true and correct

Signed

Title Engineer

Date 6/06/95

(This space for Federal or State office use)

Approved by

Orig. Signed by Adam Salameh

Title

Petroleum Engineer

Date

10/15/95

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P. O. Box 5270, Hobbs, NM 88241 (505)393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1650' FNL & 1350' FWL of Section 1, T18S, R27E, Eddy County, NM

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed #2

9. API Well No.

30-015-26741

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North Illinois Camp Morrow

11. County or Parish, State

Eddy, NM

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☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Set cast iron bridge plug to abandon Morrow Sand perforations 9850-9860' and 9864-9876'. Perforate Morrow Sands 9764-74' and 9778-85' and test.

14. I hereby certify that the foregoing is true and correct

Signed Gary Gourley
(This space for Federal or State office use)

Title District Manager

Date 01/11/99

ORIG. SGD. GARY GOURLEY

Title PETROLEUM ENGINEER

Date JAN 29 1999

Approved by _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

30-015-20741

Ogeid- 14744

Property- 7876

Pool- 78890

1923830

2811945

2811946

9-5-91

Dual spaced

Attention

Leaf- 10122

NSW-3004

Appv. 4-25-91



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

*Oil Conservation Division
"Preserving the Integrity of Our State's Oil Resources"*

29-Jul-05

MEWBOURNE OIL CO

PO Box 5270

Hobbs NM 88241

NOTICE OF VIOLATION - Inspection

Dear Operator:

The following inspection(s) indicate that the well, equipment, location or operational status of the well(s) failed to meet standards of the New Mexico Oil Conservation Division as described in the detail section below. To comply with standards imposed by Rules and Regulations of the Division, corrective action must be taken immediately and the situation brought into compliance. The detail section indicates preliminary findings and/or probable nature of the violation. This determination is based on an inspection of your well or facility by an inspector employed by the Oil Conservation Division on the date(s) indicated.

Please notify the proper district office of the Division, in writing, of the date corrective actions are scheduled to be made so that arrangements can be made to reinspect the well and/or facility.

INSPECTION DETAIL SECTION

CHALK BLUFF FEDERAL COM No.002

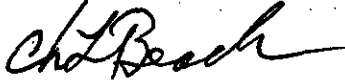
F-1-18S-27E

30-015-26741-00-00

Inspection Date	Type Inspection	Inspector	Violation?	*Significant Non-Compliance?	Corrective Action Due By:	Inspection No.
07/29/2005	Routine/Periodic	Chris Beadle	Yes	No	8/29/2005	ICLB0521034161
Violations						
Absent Well Identification Signs (Rule 103)						
Comments on Inspection:		Well sign not visible for distance required by Rule 103. Well sign is hidden inside bush grown up around the sign.				

In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By:" date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of CIVIL PENALTIES for your violation of OCD rules.

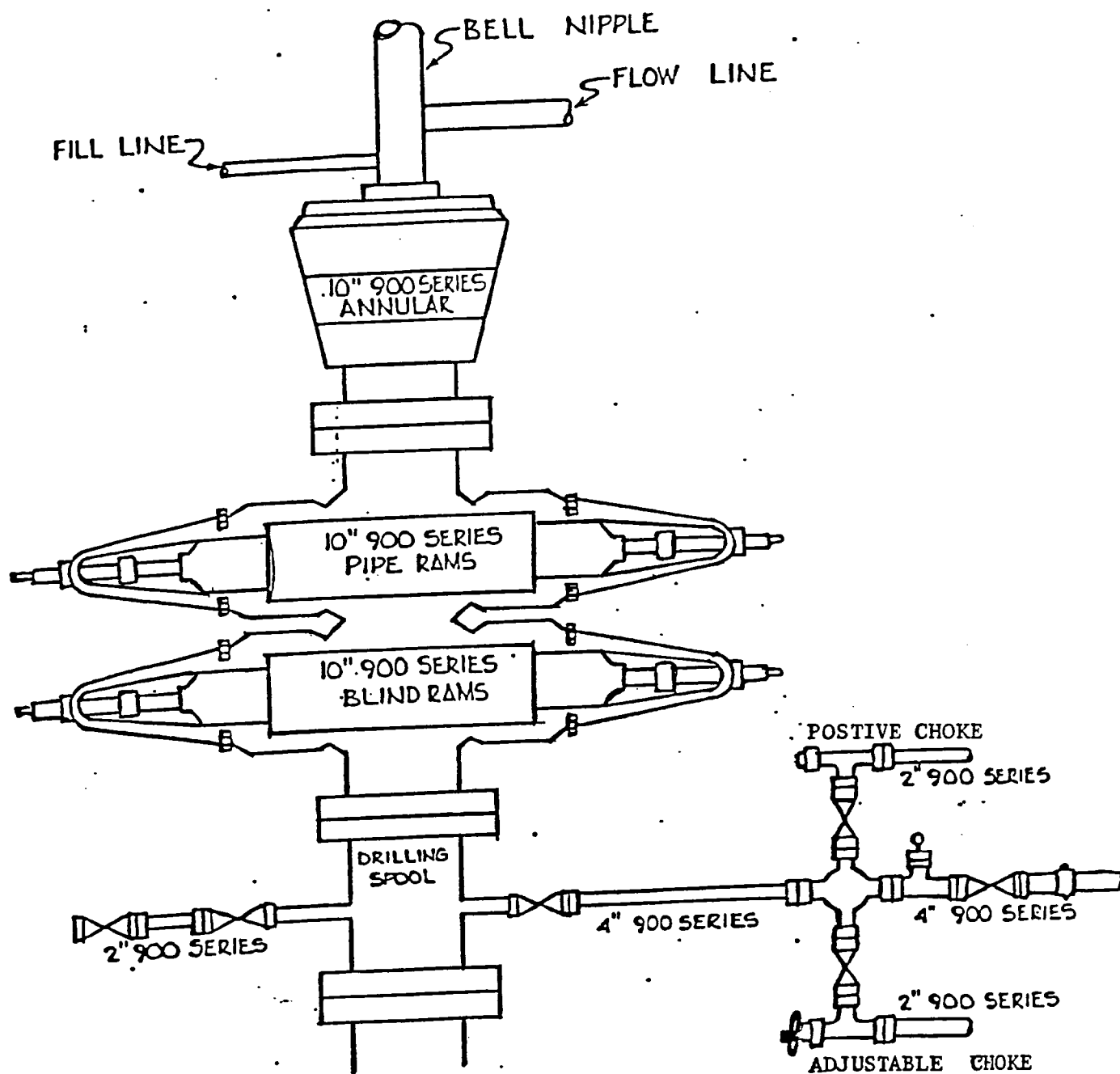
Sincerely,



Artesia OCD District Office

Note: Information in Detail Section comes directly from field inspector data entries - not all blanks will contain data.

*Significant Non-Compliance events are reported directly to the EPA, Region VI, Dallas, Texas.



Mewbourne Oil Company
 990' FSL & 730' FWL
 Sec. 6-T18S-R28E
 Chalk Bluff "6" State #1

BOP Diagram

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

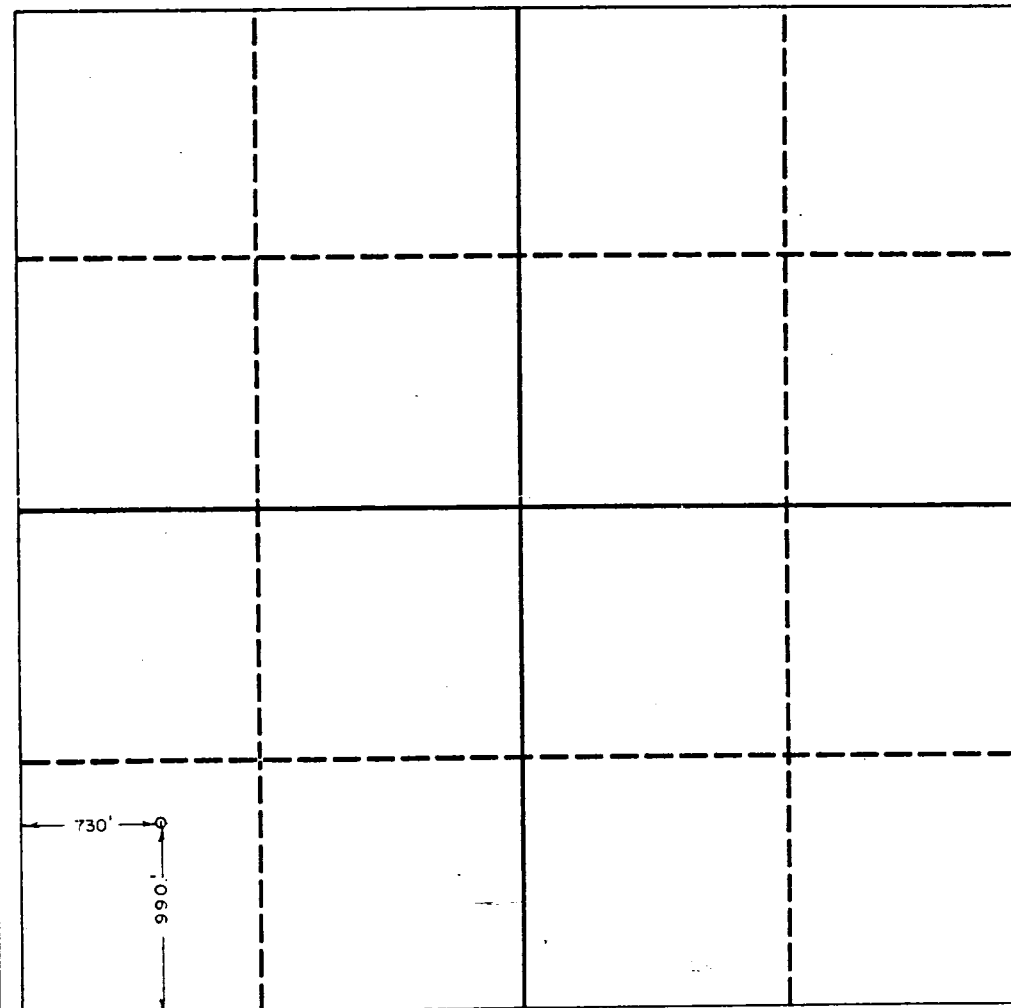
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator MEWBOURNE OIL COMPANY			Lease CHALK BLUFF "6" State		Well No. 1
Unit Letter M	Section 6	Township 18 SOUTH	Range 28 EAST	County NMPM EDDY	
Actual Footage Location of Well: 990 feet from the SOUTH line and 730 feet from the WEST line					
Ground level Elev. 3635.0		Producing Formation Morrow		Pool North Illinois Camp Morrow	Dedicated Acreage: 334.98 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
W.H. Cravey

Printed Name
W.H. Cravey

Position
District Supt.

Company
Mewbourne Oil Co.

Date
July 9, 1991

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

6/28/91

Signature of Seal of Professional Surveyor

HERSCHEL L. JONES
Professional Surveyor
Certificate No. **2640**

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED

JUL 15 1991

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)
30-015-26943

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
E-7179

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:
DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. Name of Operator
Mewbourne Oil Company

3. Address of Operator
P.O. Box 5270 Hobbs, New Mexico 88241

4. Well Location
Unit Letter M : 730 Feet From The West Line and 990 Feet From The South Line
Section 6 Township 18S Range 28E NMPM Eddy County

7. Lease Name or Unit Agreement Name
Chalk Bluff "6" State

8. Well No.
1

9. Pool name or Wildcat
North Illinois Camp

10. Proposed Depth
10,200'

11. Formation
Morrow

12. Rotary or C.T.
Rotary

13. Elevations (Show whether DF, RT, GR, etc.)
3635' G.L.

14. Kind & Status Plug Bond
Blanket on file

15. Drilling Contractor
WEK Drilling Co.

16. Approx. Date Work will start
August 10, 1991

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	68#	400'	500	Surface
12-1/4"	9-5/8"	36#	2,600'	1000	Surface
7-7/8"	5-1/2"	17#	10,200'	600	Back 6,000'

Blow Out Preventor: Schaffer LWS or equivalent (Double Ram Hydraulic) 900 series.
Hydril 900 series annular preventor. Grant rotating head,
totco flow monitors on pits.

Mud Program: 0' - 400' Fresh water with spud mud. Paper for LCM material
400' - 2,600' Fresh water with LCM as needed.
2,600' - 8,400' Cut brine with lime.
8,400' - 10,200' Cut brine with Drispac, salt gel, lime, soda ash
Wt. 9.2-9.6 ppg WL 10 cc's or less

Gas is not dedicated.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 8/11/92
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mike Williams TITLE District Supt. DATE July 11, 1991
TYPE OR PRINT NAME _____ TELEPHONE NO. _____

(This space for State Use) ORIGINAL SIGNED BY

MIKE WILLIAMS

APPROVED BY SUPERVISOR, DISTRICT II TITLE _____

DATE

FEB 11 1992

CONDITIONS OF APPROVAL, IF ANY:

NSL-R-9631

Submit 3 Copies
to Appropriate
District Office

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

APR 3 1992

Form C-103
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MAR 23 1992

O. C. D.
ARTESIA OFFICE

WELL API NO.

30-015-26943

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

E-7179

7. Lease Name or Unit Agreement Name

CHALK BLUFF "6" STATE

8. Well No.

1

9. Pool name or Wildcat

NORTH ILLINOIS CAMP MORROW

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

Mewbourne Oil Company

3. Address of Operator

P. O. Box 7698, Tyler, Texas 75711

4. Well Location

Unit Letter M : 730 Feet From The West Line and 990 Feet From The South Line

Section 6 Township 18S Range 28E NMPM Eddy County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3635' GR

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☒

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☒

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

2/18/92 - Spud 7:45 AM 2/17/92. Cemented 13-3/8" casing at 400' with 100 sxs Class "C" + 10 pps Calseal + 5 pps Gilsonite + 1/2 pps Flocele + 2% CaCl₂ and 200 sxs Class "C" + 6% gel + 1/2 pps Flocele + 5# gilsonite + 2% CaCl₂. Tailed in with 200 sxs Class "C" + 2% CaCl₂. Plug down 4:15 PM 2/17/92. Pressure tested casing to 1000#. Float held okay. Did not circulate cement. WOC 3 hrs. Ran 1" and tagged at 190'. Cemented with 150 sxs Class "C" Neat. Circulated 20 sacks to pit. Total 12-1/4 hrs. WOC.

2/22/92 - Ran 9-5/8" 24# J-55 casing set at 2600' and cemented with 100 sxs Class "C" + 10# calseal + 1/2 pps Flocele + 5 pps Gilsonite + 2% CaCl₂ and 700 sxs Class "C" Lite + 1/2 pps Flocele + 5 pps Gilsonite. Tailed in with 300 sxs Class "C" + 2% CaCl₂. Had full returns while cementing. Plug down at 10:30 PM 2/22/92. Pressure tested casing to 1000# for 30 mins, float held okay. Circ 65 sxs to pit. WOC 8 1/2 hours.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE Engr. Oprns. Secretary

DATE 3/19/92

TYPE OR PRINT NAME

TELEPHONE NO.

(This space for State Use)

ORIGINAL SIGNED BY
MIKE WILLIAMS
SUPERVISOR, DISTRICT II

APR 23 1992

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
30-015-26943

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
E-7179

7. Lease Name or Unit Agreement Name

CHALK BLUFF "6" STATE

8. Well No.
1

9. Pool name or Wildcat
NORTH ILLINOIS CAMP MORROW

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL WELL ☐ GAS WELL ☒ OTHER

2. Name of Operator
Mewbourne Oil Company

3. Address of Operator
P. O. Box 7698, Tyler, Texas 75711

4. Well Location
Unit Letter M : 730 Feet From The West Line and 990 Feet From The South Line

Section 6 Township 18S Range 28E NMMP Eddy County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3635' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☒
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

3/14/92 - Ran 7" 26# S-95 casing set at 9445'. Bottom of packer at 7096'. DVT at 7033'.
CEMENTED 1ST STAGE with 325 sacks Class "H" + 2 pps KCL + .3% CFR-3 + .4% Halad 22A + 5 pps Gilsonite + 5 pps Silicalite & 300 sacks Class "H" + 2 pps KCL + .3% CFR-3 + .4% Halad 22A + 5 pps Silicalite. Plug down at 9:00 AM 3/15/92. Pressure tested casing to 2600# and set packer. Checked float collar. Held okay. Did not have returns while cementing. Dropped bomb and opened DVT at 9:30 AM. Pumped 1 bbl and had full returns. Circulated bottoms up from DVT. Did circulate cement.
CEMENTED 2ND STAGE with 1170 sacks H/L + 1/2 pps Flocele + 5 pps Silicalite + 5 pps salt. Tailed in with 100 sacks Class "H" + 5# Silicalite + 2 pps KCL. Had full returns while cementing. Started losing returns with 140 bbls displacement gone. Lost complete returns with 240 bbls of displacement gone. Plug down at 11:45 AM 3/15/92. Closed DVT. Held okay. Did not circulate on 2nd stage. WOC 19-1/4 hours.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Engr. Oprns. Secretary DATE 3/19/92

TYPE OR PRINT NAME TELEPHONE NO.

(This space for State Use)

ORIGINAL SIGNED BY
MIKE WILLIAMS
SUPERVISOR, DISTRICT II

APPROVED BY DATE MAR 26 1992

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-015-26943
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. E-7179
7. Lease Name or Unit Agreement Name CHALK BLUFF "6" STATE
8. Well No. 1
9. Pool name or Wildcat NORTH ILLINOIS CAMP MORROW

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	RECEIVED
2. Name of Operator Mewbourne Oil Company	APR 24 1992
3. Address of Operator P. O. Box 7698, Tyler, Texas 75711	O. C. D. ARTESIA OFFICE
4. Well Location Unit Letter <u>M</u> : <u>730</u> Feet From The <u>West</u> Line and <u>990</u> Feet From The <u>South</u> Line Section <u>6</u> Township <u>18S</u> Range <u>28E</u> NMPM <u>Eddy</u> County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3635' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>
	OTHER: <input type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

3/24/92 - Ran 4-1/2" 11.6# N-80 liner. Top of liner at 9077'. Set liner at 10,198'. Cemented with 750 gals mud flush followed by 175 sxs Class "H" + 5 pps KCL + 5 pps Silicalite + 6/10% Halad 22A + 4/10% CRF-3. Plug down to 10,151' at 7:15 AM 3/23/92 with full returns. Checked float. Held okay.

4/10/92 - Tested casing to 1000# for 30 mins, held okay. Drilled out 120' cement in 4 1/2" liner. Drilled through at 9200'. Tagged up at 10,103'. Drilled down to landing collar at 10,151'. Circulated hole. Tested casing to 1000# for 30 mins. Held OK.

4/11/92 - Western spotted acid over perforation interval. Ran CBL from TD 10,159' to 620'. Had good bond around 4 1/2" lienr from TD to 9600'.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
SIGNATURE <u>Mike Williams</u>	TITLE <u>Engr. Oprns. Secretary</u> DATE <u>4/22/92</u>
TYPE OR PRINT NAME	TELEPHONE NO.
(This space for State Use)	
ORIGINAL SIGNED BY MIKE WILLIAMS SUPERVISOR, DISTRICT I	
APPROVED BY _____	TITLE _____ DATE <u>MAY 25 1992</u>
CONDITIONS OF APPROVAL, IF ANY:	

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-015-26943
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. E-7179
7. Lease Name or Unit Agreement Name CHALK BLUFF "6" STATE
8. Well No. 1
9. Pool name or Wildcat NORTH ILLINOIS CAMP MORROW

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

RECEIVED

1. Type of Well:
OIL WELL ☐ GAS WELL ☒ OTHER ☐ APR 24 1992

2. Name of Operator
Mewbourne Oil Company

O. C. D.

3. Address of Operator
P. O. Box 7698, Tyler, Texas 75711

4. Well Location
Unit Letter M : 730 Feet From The West Line and 990 Feet From The South Line

Section 6 Township 18S Range 28E NMPM Eddy County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3635' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: Perforate and acidize ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

4/14/92 - Ran 2-3/8" tubing set at 9990'. Tested to 8000#. Held okay. Set packer with 16 points compression.

4/15/92 - Perforated Lower Morrow 10,084' - 10,092'. 8' net, 1 SPF, 9 holes.

4/16/92 - Acidized perfs with 2600 gals 7 1/2% HCL + additives and 1367 scf/bbl N² & 15 frac balls. MTP 3800#. Max TP 7600#. Avg 6300#. Well started flowing to pit on 10/64" choke. FTP 3000#.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Raymond Thompson TITLE Engr. Oprns. Secretary DATE 4/22/92

TYPE OR PRINT NAME _____ TELEPHONE NO. _____

(This space for State Use)

ORIGINAL SIGNED BY
MIKE WILLIAMS

APPROVED BY SUPERVISOR, DISTRICT II TITLE _____ DATE MAY 25 1992

CONDITIONS OF APPROVAL, IF ANY:

SEC 6 TWN 18s RGE 28eAPI # 30-015-26943OPERATOR Mowbourne OilWELL NAME Chalk Bluff "6" St. #1STATE OCD TOPS AS PER Darrell Moore DATE 5/27/92

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn <u>8910</u>	T. Kirland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka <u>9593</u>	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen <u>1209</u>	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg <u>1560</u>	T. Montoya	T. Mancos	T. McCracken
T. San Andres <u>2062</u>	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta <u>3632</u>	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T. <u>Morrow</u> <u>9842</u>	T. Wingate	T.
T. Wolfcamp <u>6910</u>	T.	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

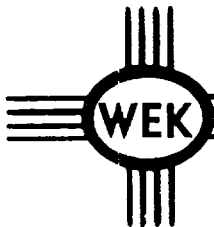
No. 1, from.....to.....	No. 3, from.....to.....
No. 2, from.....to.....	No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....	feet.....
No. 2, from.....to.....	feet.....
No. 3, from.....to.....	feet.....

REMARKS: Perfs reported (10,084-10,092) are wrong.



KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 505/746-2719
ROSWELL, NM ARTESIA, NM

March 31, 1992

Mewbourne Oil Company
P.O. Box 5270
Hobbs, N.M. 88202

REF: Chalk Bluff "6" St. #1

Gentlemen:

The following is a Deviation Survey on the above referenced well located in Eddy County, New Mexico.

400' - 3/4°	5168' - 2°	6351' - 2 3/4°
912' - 1°	5262' - 2 1/2°	6443' - 2 1/2°
1405' - 3/4°	5316' - 2 1/2°	6534' - 2 3/4°
1878' - 1°	5419' - 2 3/4°	6625' - 1 1/4°
2367' - 1°	5513' - 3°	7151' - 3/4°
2600' - 1 1/4°	5605' - 2 1/2°	7278' - 1 1/4°
3082' - 2 1/4°	5698' - 2 1/2°	7770' - 1 1/4°
3176' - 1 1/2°	5792' - 2 1/2°	8289' - 1°
3299' - 1 1/4°	5885' - 2 1/4°	8778' - 1°
3791' - 1 1/2°	5979' - 2 3/4°	9282' - 1 1/4°
4287' - 2 1/4°	6072' - 2 3/4°	9450' - 1 3/4°
438' - 1 1/4°	6166' - 3 1/4°	10200' - 1 1/2°
4752' - 1 1/4°	6259' - 3°	

Sincerely,

Arnold Newkirk
Vice President

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing was acknowledged before me this 31st day of March 1992 by Arnold Newkirk.

MY COMMISSION EXPIRES

October 07, 1992

NOTARY PUBLIC

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

C15F
BLM
BAM
ST
LD

WELL API NO.
30-015-26943

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
E-7179

7. Lease Name or Unit Agreement Name
CHALK BLUFF "6" STATE

8. Well No.
1

9. Pool name or Wildcat
NORTH ILLINOIS CAMP MORROW

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

b. Type of Completion:
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐

2. Name of Operator
MEWBOURNE OIL COMPANY

3. Address of Operator
P. O. Box 7698, Tyler, Texas 75711

4. Well Location
Unit Letter M : 730 Feet From The WEST Line and 990 Feet From The SOUTH Line
Section 6 Township 18S Range 28E NMPM EDDY County

10. Date Spudded 2/17/92 11. Date T.D. Reached 3/21/92 12. Date Compl. (Ready to Prod.) 4/16/92 13. Elevations (DF & RKB, RT, GR, etc.) DF 3339', GR 3324' 14. Elev. Casinghead

15. Total Depth 10,200' 16. Plug Back T.D. 10,151' 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By Rotary Tools X Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name 10,084'-10,092' - Morrow 20. Was Directional Survey Made Yes

21. Type Electric and Other Logs Run SDL-DSN, DIL/DLL-MSFL 22. Was Well Cored NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48# & 68#	400'	17-1/2"	500 sxs - circ	None
9-5/8"	24#	2,600'	12-1/4"	1100 sxs - circ	None
7"	26#	9,445'	7-7/8"	1895 sxs - circ 1st string	None

24. LINER RECORD				25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
4-1/2"	9077'	10,198'	175		2-3/8"	9,990'

26. Perforation record (interval, size, and number)
10,084'-10,092' - 8', 1 SPF, 9 holes

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
10,084-092'	Acidized with 2600 gals 7 1/2% HCL + additives & 1367 scf/ bbl N ² & 15 frac balls.

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)		
4/17/92	Flowing				Producing		
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
4/28/92	24 hours	12/64"		36	1,902	0	52,833:1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	
2690#	---		36	1,902	0	51.6	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold Test Witnessed By Bill Pierce

30. List Attachments
Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Gaylon Thompson Printed Name Gaylon Thompson Title Engr. Oprns. Sec. Date 4/28/92

707-1-15-10

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____	T. Canyon _____	8,432'
T. Salt _____	T. Strawn _____	8,944'
B. Salt _____	T. Atoka _____	9,562'
T. Yates _____	T. Miss _____	
T. 7 Rivers _____	T. Devonian _____	
T. Queen _____	T. Silurian _____	
T. Grayburg _____	T. Montoya _____	
T. San Andres _____	T. Simpson _____	
T. Glorieta _____	T. McKee _____	
T. Paddock _____	T. Ellenburger _____	
T. Blinebry _____	T. Gr. Wash _____	
T. Tubb _____	T. Delaware Sand _____	
T. Drinkard _____	T. Bone Springs _____	
T. Abo _____	T. Morrow _____	9,664'
T. Wolfcamp _____	T. Mor. Clast. _____	9,874'
T. Penn _____	T. L. Morrow _____	10,006'
T. Cisco ' _____	T. _____	

Northwestern New Mexico

T. Ojo Alamo _____	T. Penn. "B" _____
T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Pictured Cliffs _____	T. Penn. "D" _____
T. Cliff House _____	T. Leadville _____
T. Menefee _____	T. Madison _____
T. Point Lookout _____	T. Elbert _____
T. Mancos _____	T. McCracken _____
T. Gallup _____	T. Ignacio Otzte _____
Base Greenhorn _____	T. Granite _____
T. Dakota _____	T. _____
T. Morrison _____	T. _____
T. Todilto _____	T. _____
T. Entrada _____	T. _____
T. Wingate _____	T. _____
T. Chinle _____	T. _____
T. Permain _____	T. _____
T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 10,084' to 10,092' No. 3, from to
No. 2, from to No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....NONE.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

[illegible]

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator MEWBOURNE OIL COMPANY	Well API No. 30-015-26943
Address P. O. Box 7698, Tyler, Texas 75711	
Reason(s) for Filing (Check proper box) RECEIVED Please explain) New Well <input checked="" type="checkbox"/> Change in Transporter of: Recompletion <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> APR 24 1992 Change in Operator <input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	
If change of operator give name and address of previous operator O. C. D. ARTESIA OFFICE	

II. DESCRIPTION OF WELL AND LEASE

Lease Name CHALK BLUFF "6" STATE	Well No. 1	Pool Name, Including Formation N. ILLINOIS CAMP MORROW	Kind of Lease State, Federal or Fee	Lease No. E-7179
Location Unit Letter M : 730 Feet From The West Line and 990 Feet From The South Line Section 6 Township 18S Range 28E , NMPM, Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> PHILLIPS PETROLEUM COMPANY - TRUCKS	Address (Give address to which approved copy of this form is to be sent) 4001 Pembroke, Odessa, Texas 79761
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> TRANSWESTERN PIPELINE COMPANY	Address (Give address to which approved copy of this form is to be sent) P.O.Box 1188, Houston, Texas 77251
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When ? M 6 18S 28E Yes 4/22/92

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 2/17/92	Date Compl. Ready to Prod. 4/16/92	Total Depth 10,200'		P.B.T.D. 10,151'				
Elevations (DF, RKB, RT, GR, etc.) DF 3339', GR 3324'	Name of Producing Formation Morrow	Top Oil/Gas Pay 10,084'		Tubing Depth 9,990'				
Perforations 10,084' - 10,092'				Depth Casing Shoe --				
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT				
17-1/2"	13-3/8"	400'		500 - circ				
12-1/4"	9-5/8"	2,600'		1100 - circ				
7-7/8"	7"	9,445'		1895 - circ 1st stg.				
7"	4 1/2" Liner	10,198'		175				

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

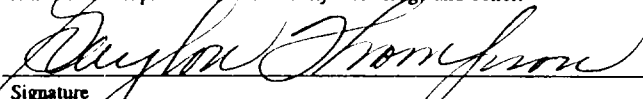
Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.) Post EO-2	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size 6-5-92
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF comp & BK

GAS WELL

Actual Prod. Test - MCF/D 2,149 Mcf	Length of Test 24 hours	Bbls. Condensate/MMCF 89.9:1	Gravity of Condensate N/A 51.6
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) N/A	Casing Pressure (Shut-in) ---	Choke Size 12/64"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


Signature
Gaylon Thompson, Engr. Oprns. Secretary
Printed Name
April 22, 1992 (903) 561-2900
Date
Telephone No.

OIL CONSERVATION DIVISION

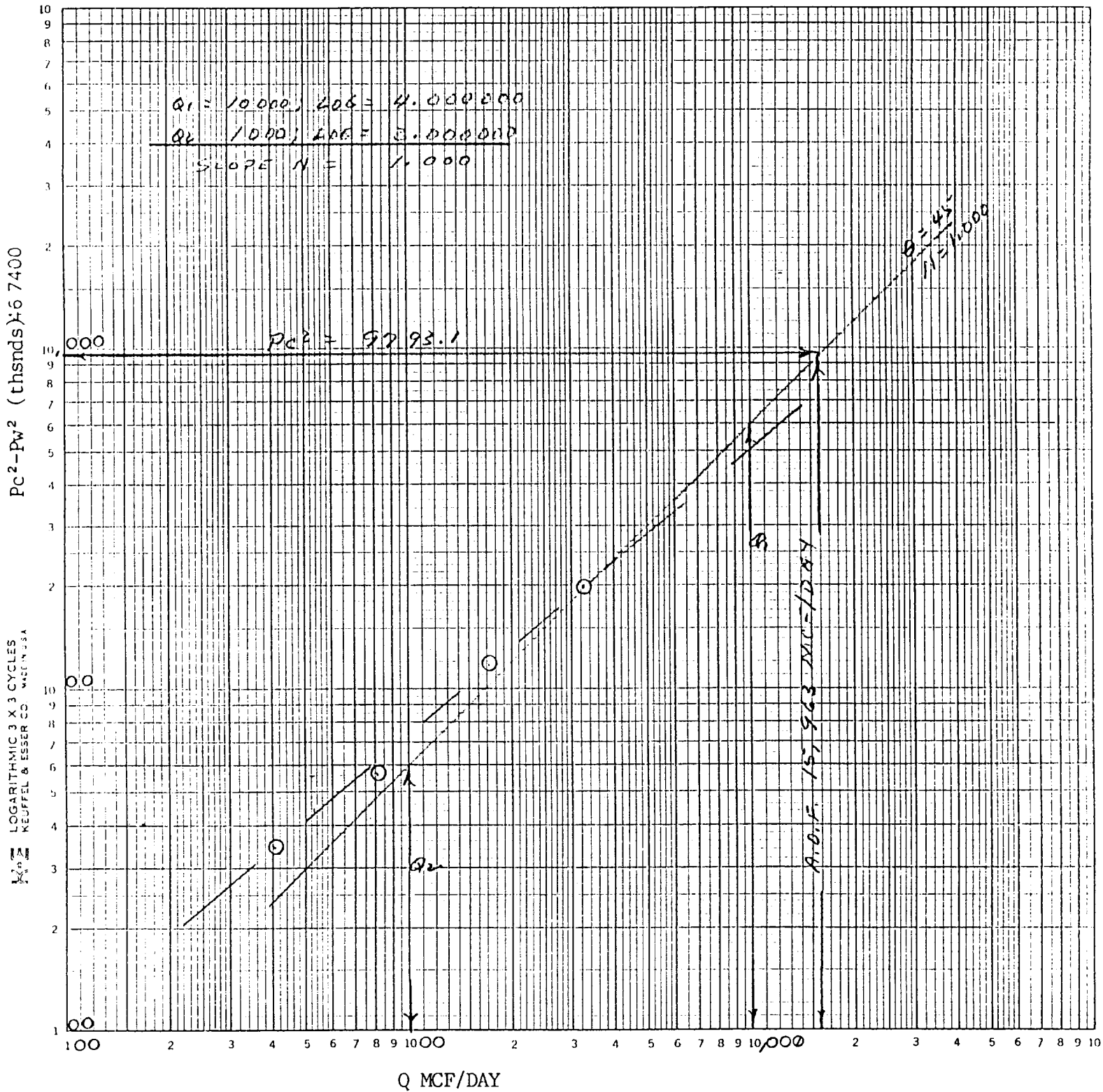
Date Approved **MAY 25 1992**

By **ORIGINAL SIGNED BY**
MIKE WILLIAMS
Title **SUPERVISOR, DISTRICT II**

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

MEWBOURNE OIL COMPANY
 Chalk Bluff "6" St., Well # 1
 6-18-28
 Eddy County, New Mexico
 4-24-92



State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-122
Revised 4-1-91

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL COMPANY						Lease or Unit Name CHALK BLUFF '6' St.					
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 4-24-92		Well No. 1			
Completion Date 4-16-92		Total Depth 10151		Plug Back TD 10151		Elevation		Unit Ltr. - Sec. - TWP - Rge. m 6 18 28			
Csg. Size 7" & 4 1/2"		Wt 26#		Set At 10198		Perforations: From: 10084 To: 10092		County Eddy			
Tbg. Size 2 7/8 & 2 3/8		Wt 6.5		Set At 9976		Perforations: From: To:		Pool N. Illinois Camp			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At 9976		Formation Morrow			
Producing Thru TBG		Reservoir Temp. °F 175 @ 10088		Mean Annual Temp. °F 60		Baro. Press - P. 13.2		Connection			
L *10088 H 10088		Gg .643		% CO ₂ .44		% N ₂ .38		Prover		Meter Run 3.068	
										Taps FLG	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						2960		PKR		72 hrs.
1.	3 X .750		430	34.00	111	2815		"		1 hr.
2.	3 X 1.000		440	40.00	102	2730		"		1 hr.
3.	3 X 1.500		435	32.00	78	2590		"		1 hr.
4.	3 X 1.750		480	49.00	54	2575		"		1 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	2.672	122.76	443.2	.9543	1.247	1.035	404
2.	4.789	134.64	453.2	.9619	1.247	1.035	801
3.	11.13	119.76	448.2	.9831	1.247	1.045	1708
4.	15.61	155.46	493.2	1.006	1.247	1.058	3221
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P. I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.66	571	1.53	.934	40.1	51.6 @60°	.643	XXXXXXX	670	372
2.	.67	562	1.51	.933				XXXXXX		
3.	.66	538	1.44	.916						
4.	.73	514	1.38	.893						
5.										

P_c **3129.4 P_c² 9793.1

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	**	3073.7	9447.6	345.5
2.	**	3037.7	9227.6	565.5
3.	**	2933.4	8604.8	1188.3
4.	**	2795.9	7817.1	1976.0
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.956$

2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.956$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 15.963$

Absolute Open Flow 15,963 Mcfd @ 15.025	Angle of Slope θ 45	Slope, n 1,000
--	-----------------------------------	-----------------------

Remarks: * BHP Instrument Set @ this Depth
 ** From Known B.H.P. Calculated back to Surface
 *** Well Made 6.375 BBLS 51.6 @60 Condensate & 3.0 BBLS H₂O

Approved By Division	Conducted By: Pro Well Testers	Calculated By: BM	Checked By: BM
----------------------	--	-----------------------------	--------------------------

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

NOV 16 1993

WELL API NO

30-015-26943

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

E-7179

7. Lease Name or Unit Agreement Name

Chalk Bluff "6" State

8. Well No.

1

9. Pool name or Wildcat

North Illinois Camp Morrow

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

Mewbourne Oil Company

3. Address of Operator

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Well Location

Unit Letter M : 730 Feet From The West Line and 990 Feet From The South Line

Section 6

Township 18S

Range 28E

NMPM

Eddy

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3339' DF 3324' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Add Perforations ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11/02/93 Rig up Schlumberger and perf'd Morrow 10,044' - 10,064' with 2 SPF.
20' and 41 holes.

11/03/93 Acidized Morrow formation with 4,000 gal. 7 1/2% FE acid & 1,000
CF/bbl. nitrogen Put well on production.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Brent Thurman

TITLE

Production Engineer

DATE 11/15/93

(505)

TYPE OR PRINT NAME

Brent Thurman

TELEPHONE NO 393-5905

(This space for State Use)

ORIGINAL SIGNED BY

MIKE WILLIAMS

SUPERVISOR, DISTRICT II

TITLE

DATE NOV 23 1993

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY.

30-015-26943

OGRID 14744

PROP 7877

POI 78890

1923010-0

1923830-G

1923050-W

Oxford®

ESSELTE

MADE IN U.S.A.

NO. R753 1/3

IT IS THEREFORE ORDERED THAT:

R-9631
12-19-91

(1) All mineral interests, whatever they may be, from the base of the Abo formation to the base of the Morrow formation, underlying Lots 3 through 7, the SE/4 NW/4, and the E/2 SW/4 (W/2 equivalent) of Section 6, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico, thereby forming a non-standard 334.98-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre spacing within said vertical extent, which presently includes, but is not necessarily limited to the Undesignated Empire-Pennsylvanian Gas Pool and the Undesignated North Illinois Camp-Morrow Gas Pool, are hereby pooled, said unit shall be dedicated to a well to be drilled at an unorthodox gas well location 990 feet from the South line and 730 feet from the West line (Unit M) of said Section 6.

R-9631
Camp. Pdg.
NSP & NSL
12-19-91

5-22-92
Dual Spaced
Neutron
Surf- 9416
Dual Lat
2588-9466
9451-10295
Dual Induction
2588-9452

SUBSURFACE

NAVAJO REFINING COMPANY, L.L.C.

Map ID No. 99

Artificial Penetration Review

OPERATOR Mewbourne Oil

LEASE Chalk Bluff Federal

WELL NUMBER 3

DRILLED 1/16/93

PLUGGED NA

STATUS Active

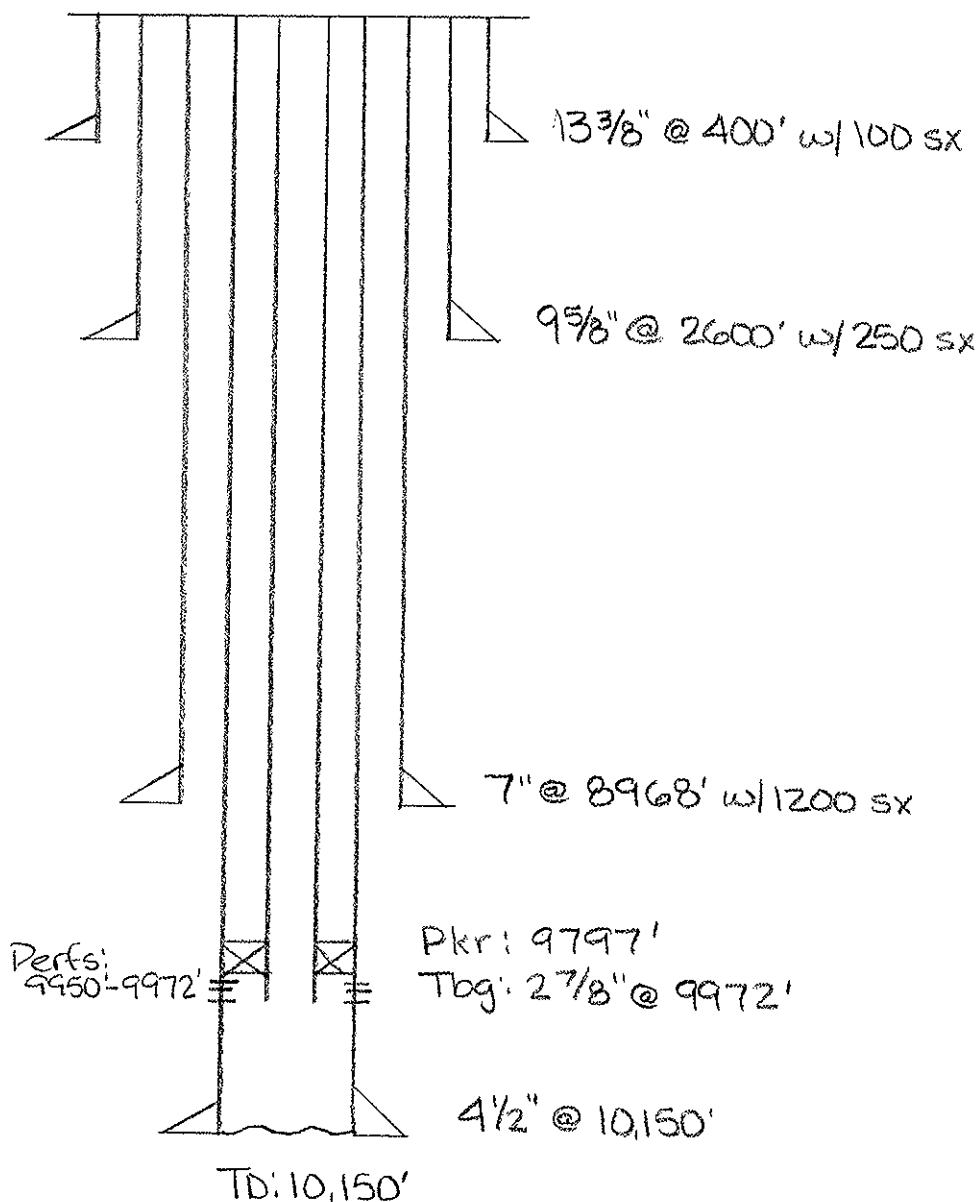
LOCATION Sec. 1 -T18S-R27E

MUD FILLED BOREHOLE NA

TOP INJECTION ZONE -3702'

API NO. 30-015-27163

REMARKS:



MAP ID NO. 99

**MEWBOURNE OIL CO.
CHALK BLUFF FEDERAL COM NO. 003**

API NO. 30-015-27163

APD ATTACHMENT

Mewbourne Oil Company Chalk Bluff Federal Comm. #3 NM-016788
1980' FSL & 990' FEL Sec. 1-T18S-R27E Eddy County, NM.

- 1.) Casing Design and Safety Factors (See schedule 1 for used casing design program.)
- 2.) Cement Program for Casing Strings.
Surface Casing:
250 sacks of Class "C" containing 2% CaCL₂ + 1/4#/sack of cellophane flakes followed by 200 sacks of Class "C" containing 3% CaCL₂.

Intermediate Casing:
700 sacks of Class "C" containing 6% gel + 2% CaCL₂ + 1/2#/sack of cellophane flakes + 5#/sack of Gilsonite followed by 200 sacks of Class "C" containing 3% CaCL₂.

Production Casing:
A cement diverter tool (D. V. Tool) will be run at a depth of approximately 7500' from surface.
1st Stage:
850 sacks of Class "H" containing 5#/sack KCL + .7% fluid loss additive + 5#/sack compressive strength extender.
2nd Stage:
900 sacks of Class "C" Lite containing 1/2#/sack cellophane flakes + 5#/sack Gilsonite + .4% fluid loss extender followed by 100 sacks of Class "H" containing .4% fluid loss additive + 5#/sack compressive strength extender.
- 3.) Drilling time will require approximately 35 - 40 days and drilling operations should begin approximately November 1, 1992.
- 4.) The possibility of encountering H₂S gas in this area remote. Mewbourne Oil Company has drilled offset wells to this proposed location and none of these wells have encountered any H₂S gas in the Pennsylvanian. In the event H₂S is encountered, the necessary H₂S safety equipment will be installed on location to provide for a safe working environment.
- 5.) Anticipated formation temperature and pressure in the Morrow zone will be approximately 155 degrees fahrenheit and 3,000# psi.

- 6.) This location is a non-standard location. A hearing is scheduled for October 15, 1992 in Santa Fe, New Mexico before the New Mexico Oil Conservation Division for an unorthodox location exception.
- 7.) The pressure rating on the BOP STACK (see exhibit "D" of the APD) is 3,000# psi. The correct pressure rating of ANSI 900 series is noted in the APD. The API standard for pressure ratings for flanged equipment is in ANSI series. ANSI 600 series is 2,000# psi working pressure test, ANSI 900 series is 3,000# psi working pressure, ANSI 1500 series is 5,000# psi work-pressure.

SCHEDULE ONE

LEASE NAME:	CHALK BLUFF FEDERAL #3	TYPE OF CSG STRING:	PRODUCTION
LEGAL:	SEC 1-18S-27E	DEPTH OF CSG:	10,300

CASING MINIMUM PERFORMANCE PROPERTIES

CSG TYPE	K-FACTOR	COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&C	991,000	8830	9190	428000
2 5 1/2" 17# N-80 LT&C	844,000	6380	7740	348000
3 5 1/2" 20# N-80 LT&C	991,000	8830	9190	428000
4				
5				

GRADE OF CASING: 85 % OF NEW

CSG TYPE	COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&C	7506	7812	363800
2 5 1/2" 17# N-80 LT&C	5423	6579	295800
3 5 1/2" 20# N-80 LT&C	7506	7812	363800
4 0	0	0	0
5 0	0	0	0

SETTING DEPTH (WT. OF CSG IN AIR)		CASING	INTERVAL	INTERVAL	CUMMULATIVE
FROM	TO	WT. (LB/FT)	LGTH (FT.)	WT. (LBS)	WT. (LBS)
1 0	1,000	20	1000	20,000	181,100
2 1,000	9,300	17	8300	141,100	161,100
3 9,300	10,300	20	1000	20,000	20,000
4 0			0	0	0
5 0			0	0	0

WELLBORE CONDITIONS

MUD WEIGHT: 9.6 PPG
BOUYANCY FACTOR 0.853 (AIR = 1)
DISPLACEMENT FLUID WT: 8.5 PPG

		ANNULAR	COLLAPSE	HOLE	
		HYDROSTATIC	W/AXIAL	HYDROSTATIC	TENSION
DEPTH		PRESSURE	LOADING	PRESSURE	
	0	0		0	154,478
1	1000	499	5982	442	137,418
2	9300	4643	5290	4111	17,060
3	10300	5142	7506	4553	0
4	0	0	ERR	0	0
5	0	0	ERR	0	0

FINIAL CASING DESIGN

SAFTEY FACTORS

				COLLAPSE	BURST	TENSION
				>1.125	>1.00	>2.00
FROM	TO	LENGTH				
0	0	0		ERR	ERR	ERR
0	0	0		ERR	ERR	ERR
5 1/2" 20# N-80 LT&C	10,300 9,300	1000		1.460	1.716	21.325
5 1/2" 17# N-80 LT&C	9,300 1,000	8300		1.139	1.600	2.153
5 1/2" 20# N-80 LT&C	1,000 0	1000		11.983	17.673	2.355

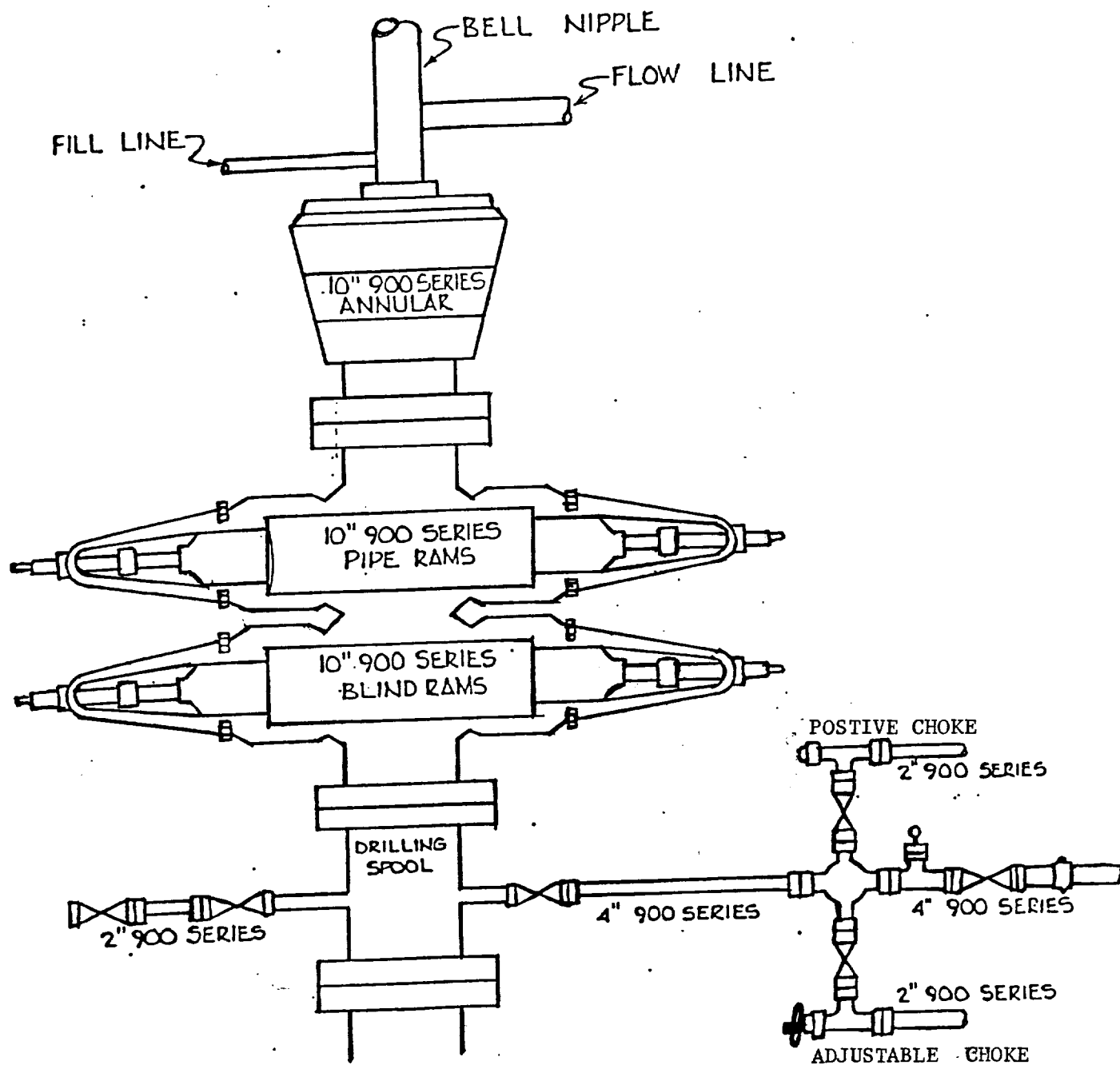
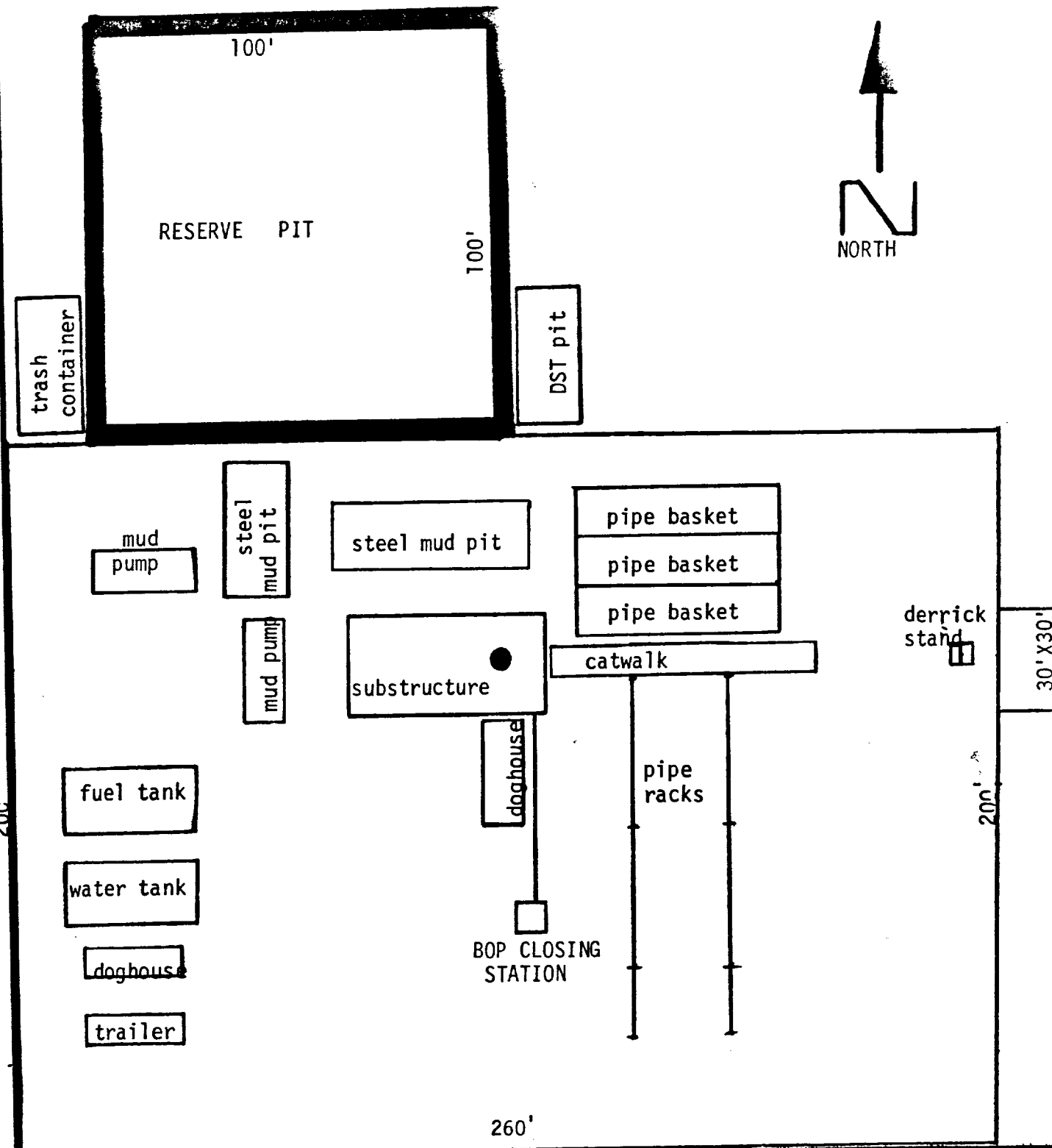


EXHIBIT "D"

Mewbourne Oil Company
 Chalk Bluff Federal #3.
 1980' FSL & 990' FEL
 Section 1-T17S-R29E
 Eddy County, New Mexico

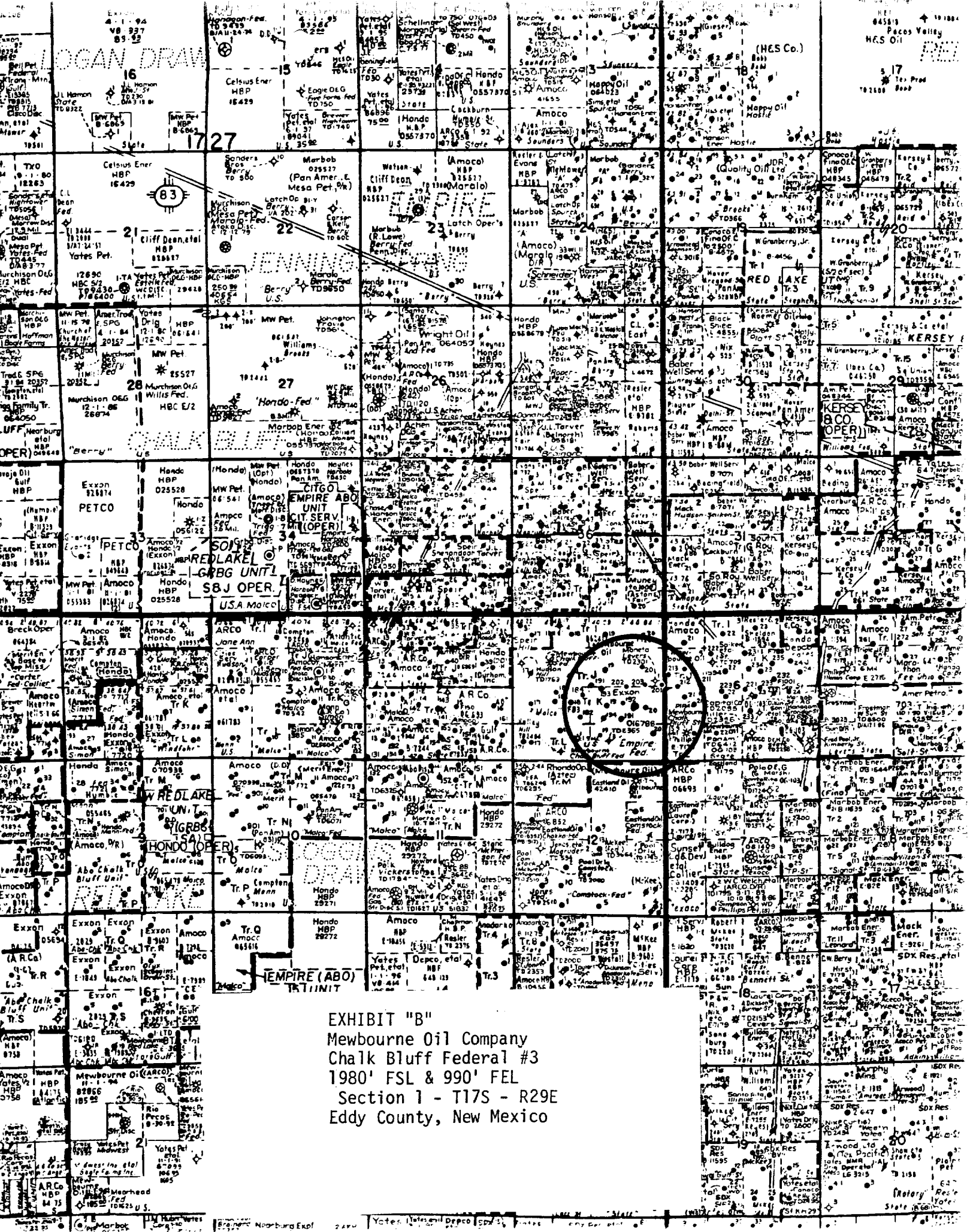
Existing Lease Road

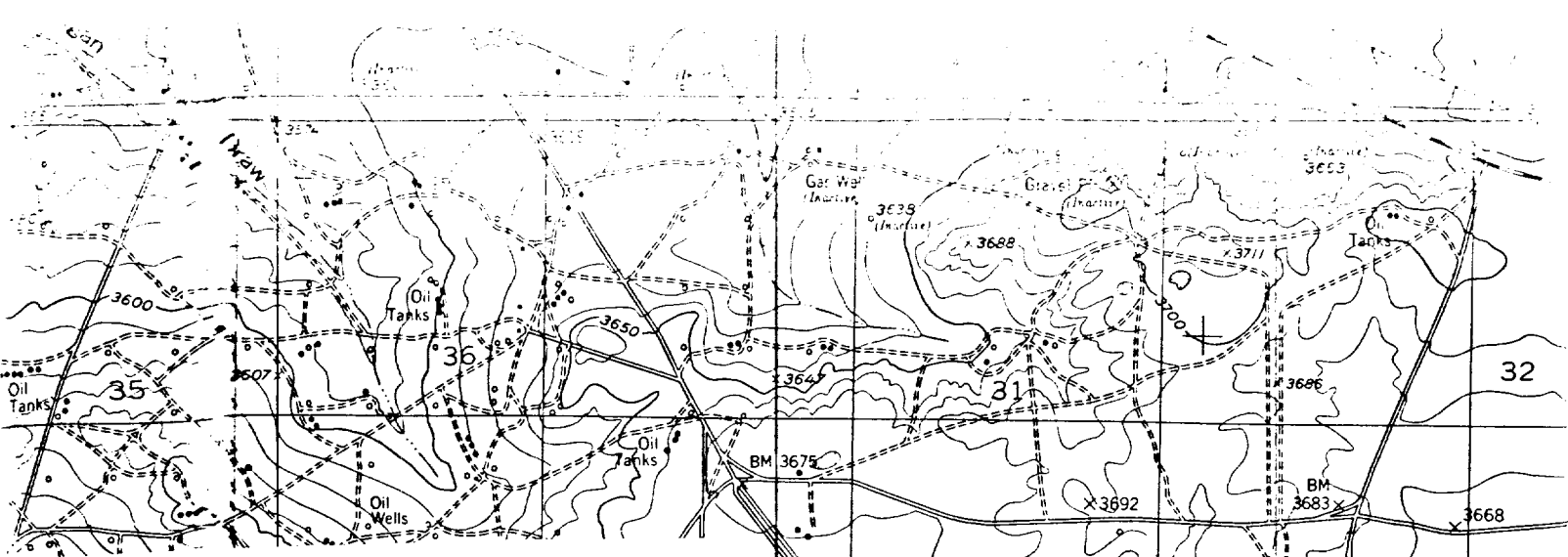
200'



Existing lease road

Mewbourne Oil Company
Chalk Bluff Federal #3
1980' FSL & 990' FEL
Section 1-T17S-R29E
Eddy County, New Mexico
Proposed location with
dimensions.





Proposed location and existing access roads.

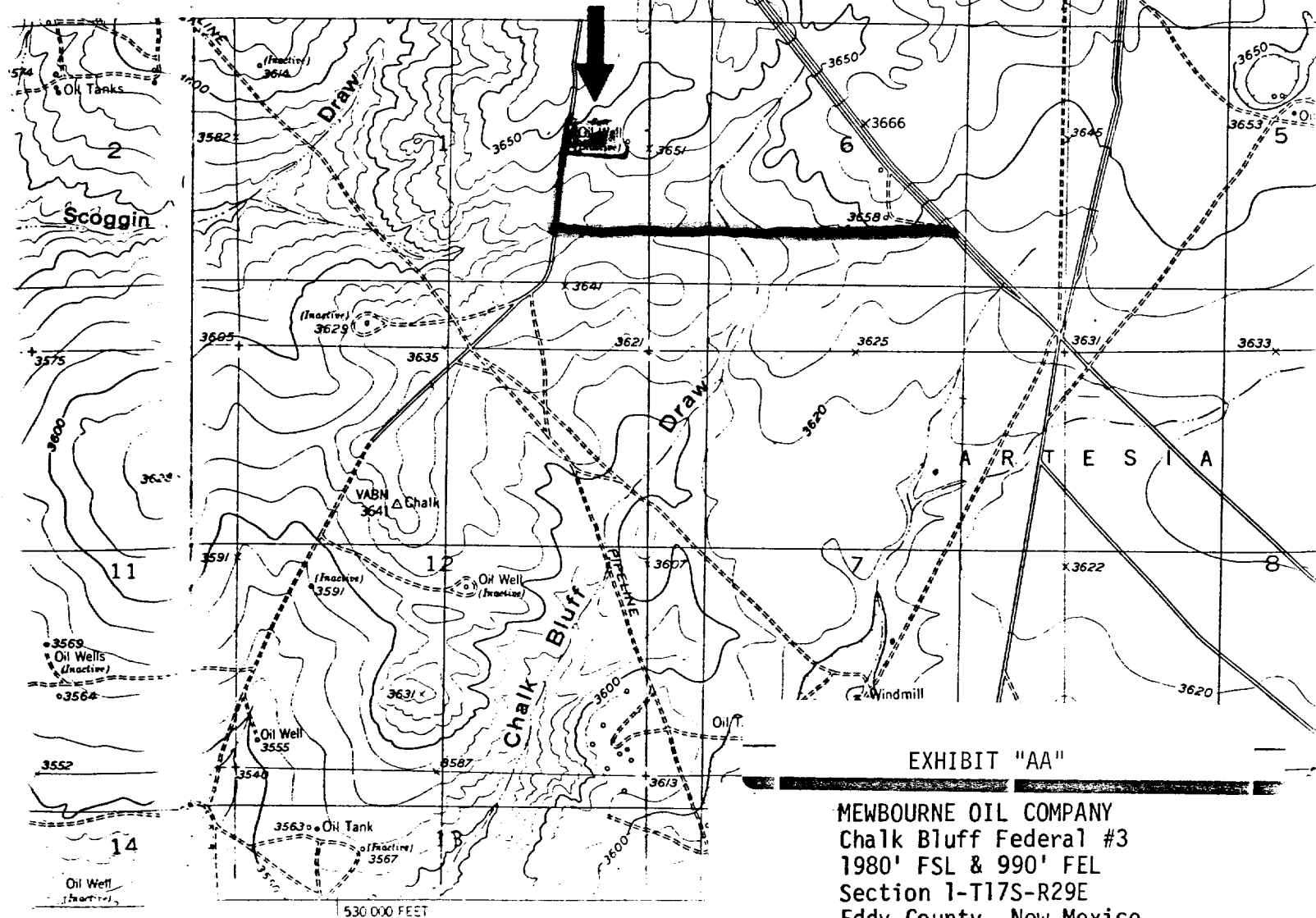


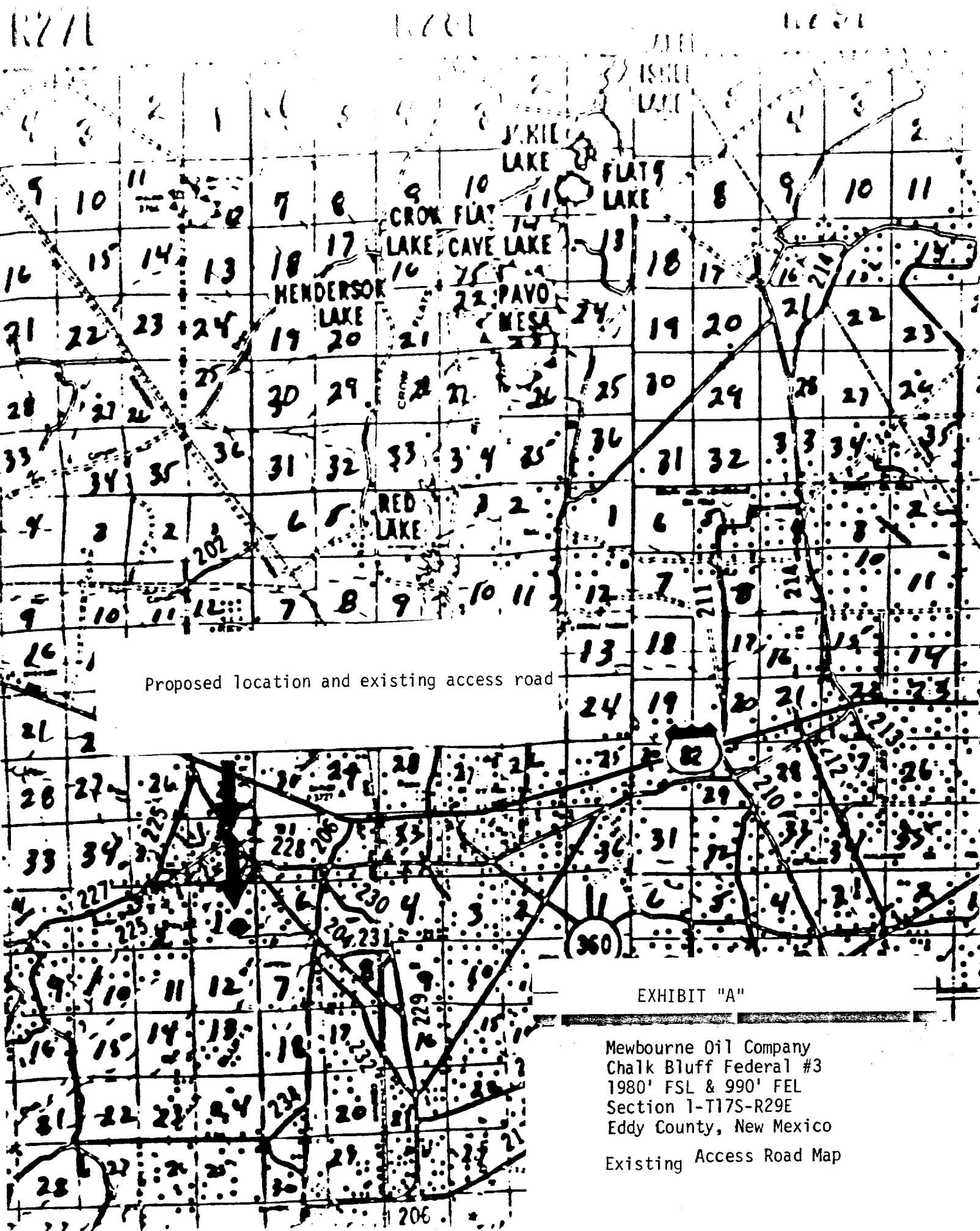
EXHIBIT "AA"

MEWBOURNE OIL COMPANY
Chalk Bluff Federal #3
1980' FSL & 990' FEL
Section 1-T17S-R29E
Eddy County, New Mexico
Detail Map for road and location.

Existing Roads

Proposed Location

Map, edited, and published by the Geological Survey
Control by USGS and the AGS
Area and drainage...
1946. Topographic...
1955



Proposed location and existing access road

EXHIBIT "A"

Mewbourne Oil Company
Chalk Bluff Federal #3
1980' FSL & 990' FEL
Section 1-T17S-R29E
Eddy County, New Mexico

Existing Access Road Map

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

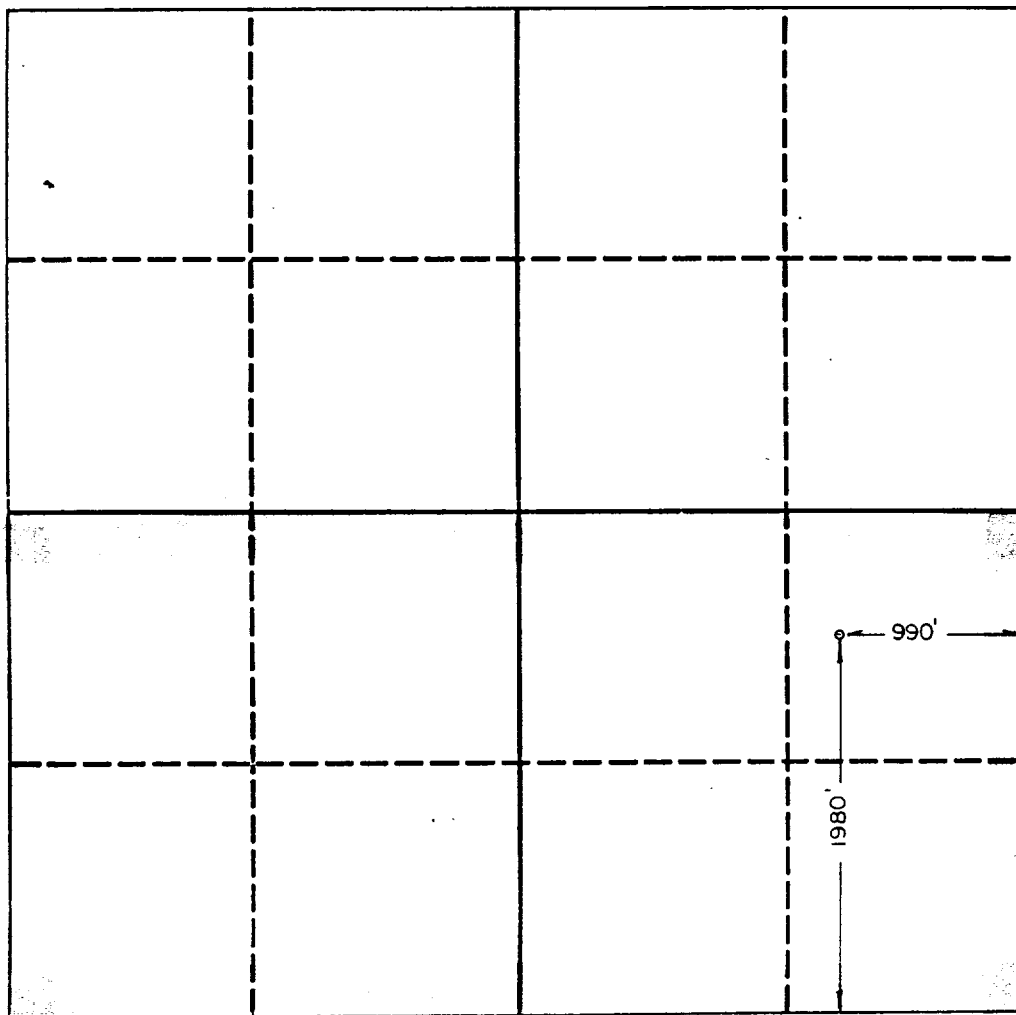
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator MEWBOURNE OIL COMPANY		Lease CHALK BLUFF FEDERAL		Well No. 3
Unit Letter I	Section 1	Township 18 SOUTH	Range 27 EAST	County EDDY
Actual Footage Location of Well: 1980 feet from the SOUTH line and 990 feet from the EAST line				
Ground level Elev. 3628	Producing Formation Morrow	Pool North Illinois Camp Morrow	Dedicated Acreage: 320 Acres	
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation <u>Communitization</u></p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)</p> <p>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>				



0 350 650 950 1250 1550 1850 2150 2450 2750 3050 3350 3650

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature *Bill Pierce*

Printed Name
Bill Pierce

Position
Drilling Superintendent

Company
Mewbourne Oil Company

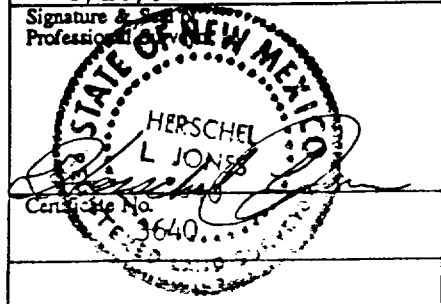
Date
August 31, 1992

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
8/26/92

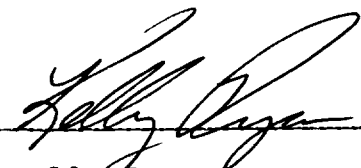
Signature & Seal of Professional Surveyor



12. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drilling site and necessary access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by MEWBOURNE OIL COMPANY and its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

September 9, 1992

A handwritten signature in cursive script, appearing to read "Kelly Ryan", is written over a horizontal line.

Kelly Ryan
District Superintendent
MEWBOURNE OIL COMPANY

- C. The estimated depths at which anticipated water, oil or natural gas can be expected are:
- Water: Possible surface water between 100' - 300'.
Oil: Penrose @ 1520'
Gas: Wolfcamp @ 6900'
- D. Proposed Casing Program: See Form 3160-3
- E. Pressure Control Equipment: See Form 3160-3 and Exhibit "D".
- F. Mud Program: See Form 3160-3.
- G. Auxiliary Equipment: Mud-gas separator, PVT system, and Hydraulic choke from 6,000' to T.D.
- H. Testing and Coring Program: Possibility of 4 DST's in the following zones: Wolfcamp, Cisco, Strawn, Morrow. No cores are planned at this time.
- I. Logging: Gamma Ray - Spectral Density Dual Spaced Neutron Log from T.D. to surface.
Gamma Ray - Dual LaterLog - Micro Guard Log from T. D. to Intermediate casing.
- J. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to accomodate the increased pressures.
- K. Anticipated Starting Date: As soon as possible after BLM approval.

11. OPERATOR'S REPRESENTATIVES:

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

Kelly Ryan	(505) 393-5905	Box 5270
Bill Pierce	24. hour aswering	Hobbs, NM
Greg Milner	service.	88241

7. ANCILLARY FACILITIES:

A. None required.

8. WELLSITE LAYOUT:

A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pits, trash container and location of major rig components.

B. A 400' X 400' area has been flagged surround-the staked well.

9. PLANS AND RESTORATION OF THE SURFACE:

A. After completion of drilling and/or completion operations, all equipment not needed for producing operations will be removed. Pits will be filled in after all fluids have evaporated and the location cleaned of all trash and junk to leave the wellsite in an asthetically pleasing condition as reasonably possible. All production facilities left on location will be painted to conform with BLM painting regulations within 120 days of completion.

10. OTHER INFORMATION:

A. The geologic surface formation is hard clay interspersed with sand and chert outcroppings. Vegetative covering is generally sparse except in low-lying areas where grass is prevelant. Other vegetative covering consists mostly of greasewood and bear grass.

B. The estimated tops of geologic markers are as follows:

Queen	1260'	Cisco	7740'
✓ San Andres	2100'	Canyon	8350'
Glorieta	3720'	Strawn	8900'
✓ Tubb	4930'	Atoka	9500'
✓ Abo	5900'	✓ Morrow	9600'
✓ Wolfcamp	6900'	Miss.	10,100'

4. LOCATION AND TYPE OF WATER SUPPLY:

- A. Water will be purchased from trucking companies servicing this area and will be trucked to the wellsite over existing and/or proposed roads shown on Exhibits "A" and "AA".

5. LOCATION OF CONSTRUCTION MATERIALS:

- A. Caliche for construction of the location and any needed road repairs hopefully will come from the location itself. If this is not possible, caliche will be taken from a BLM pit located in the NE4/NW4 of Sec. 12-T18S-R27E which is BLM pit #18271203. This pit also extends into the SE4/SW4 of Sec. 1-T18S-R27E which is BLM pit #18270114. An alternative pit which may be used in the event BLM pit #18271203 contains unsuitable material is a BLM pit located in the SW4/NE4 of Sec. 1-T18S-R27E which is BLM pit #18270107.

6. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water used and produced during stimulation, production testing, squeezing operations etc. will be disposed of in the drilling pits. Oil produced during tests will be stored on site in steel test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. All trash, junk and other waste material will be contained in an appropriate container to prevent scattering and will be removed and deposited in an approved sanitary landfill.
- F. All trash and debris will be buried or removed from the wellsite within 90 days after drilling and/or completion operations have ceased.

MULTI-POINT SURFACE USE AND OPERATING PLAN
MEWBOURNE OIL COMPANY
CHALK BLUFF FEDERAL WELL NO. 3
1980' FSL & 990' FEL OF SEC. 1-T18S-R30E
EDDY COUNTY, NEW MEXICO
NEW MEXICO LEASE NO. NM-016788

This plan is submitted with the Application for Permit to Drill (APD) the above captioned well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, operations plan and the magnitude of necessary surface disturbance involved, so that a complete, comprehensive appraisal can be made as to the environmental effects associated with this operation. The surface is owned by the Federal Government and is managed by the Bureau of Land Management.

1. **EXISTING ROADS:**

- A. From the junction of U. S. 82 and U. S. 285 Highways in Artesia, proceed east on U. S. 82 12 miles. Turn right (south) on Eddy County Road #206 (Illinois Camp Road) and proceed south for 1.75 miles. Turn right (northwest) on Eddy County Road #204 and proceed .75 miles. Turn left (west) on caliche lease road and proceed 1 mile. Turn right (north) 100 yards on caliche lease road and location will be on the right hand side of the lease road. (Exhibit "A" & "AA")
- B. Culverts: None required
- C. Cuts and Fills: A two foot cut will be required to construct the location.
- D. Turn-Outs: None required.
- E. Gates or Cattleguards: None required.

2. **LOCATION OF EXISTING WELLS**

- A. Existing wells in a 1 mile radius are shown on Exhibit "B".

3. **LOCATION OF PROPOSED ACTIVITIES:**

- A. If the well is productive, all production facilities will be constructed on the existing pad.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other ins'ns on reverse)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-016788 0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chalk Bluff Fed. Comm.

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

North Illinois Camp Morrow

11. SEC., T., R., M., OR BLK.

AND SURVEY OR AREA

18S 27E

1-T17S-R29E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Mewbourne Oil Company

3. ADDRESS OF OPERATOR

Box 5270 Hobbs, New Mexico 88241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1980' FSL and 990' FEL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

12 miles southeast of Artesia, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

990'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

2040'

19. PROPOSED DEPTH

10,300'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3628' GR

22. APPROX. DATE WORK WILL START*

Upon BLM approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

No Water Basin

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	61#	400' ±	450 sks. Class C circulated
12 1/4"	9 5/8"	36#	2,600' ±	800 sks. Tie back into surface.
8 3/4"	5 1/2"	17 & 20#	10,300' ±	600 sks. of Class "H" SEE SLIPS.

Mud Program:

0-400' Spud mud with fresh water gel and lime. LCM as needed.

400' - 2600' Fresh water gel and lime. LCM as needed.

2,600' - 8500' Cut brine with lime for pH control. Wt. 9.2 - 9.6# ppg, WL - NC. LCM as needed.

8,500 - 10,300' Cut brine with Drispac, salt gel, lime, soda ash, and starch. Wt. 9.2 - 9.6 ppg. WL 10 CC or less. Raise weight accordingly if abnormal pressures are encountered.

BOP PROGRAM:

900 series BOP and Hydrill on 13 3/8" surface casing and on 9 5/8" intermediate casing.

Gas is not dedicated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE District Superintendent

DATE 09/09/1992

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

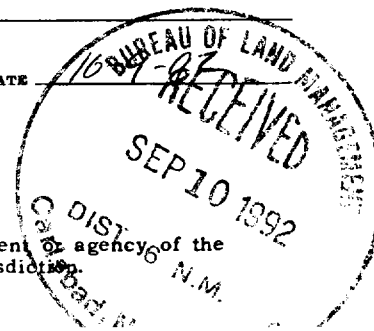
APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq, 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 13—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used.

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that: This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

C/SF

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 04 1993

O. C. D.
APPROPRIATE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & 1980' FEL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal

9. API Well No.

Comm. #3

3001527163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

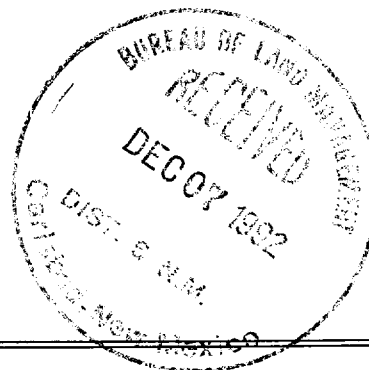
☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Cement 9-5/8" Inter.
Casing

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 12-1/4" Intermediate hole to 2600' KB. Ran 59 joints of 9-5/8", 36#, New LS, ST&C casing and set @ 2600' KB. Western cemented with 590 sacks of Class "C" lite containing 6% gel + 10 pps NaCl + 1/4 pps celloseal followed by 250 sacks of Class "C" containing 2% CaCl2. Circulated 50 sacks of cement to the pit. Job complete @ 11: 50 p.m. 11/29/92.



14. I hereby certify that the foregoing is true and correct

Signed Bill Pierce

Title Drilling Supt.

Date 12-02-92

(This space for Federal or State office use)

Approved by David H. Glass

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 3—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that: This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & 1980' FEL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. 3

9. API Well No.

30-015-27163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

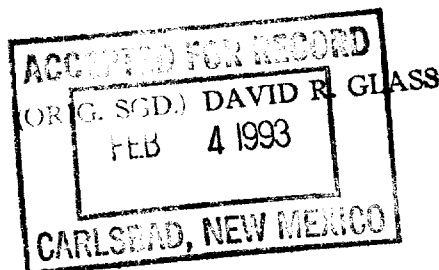
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Cement 7" casing
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Lost complete returns @ 7683'. Dry drilled 8-3/4" hole to 8968'. Ran 226 Jts. of 7", 26# & 29#, N-80 & S-95 grade used API casing and set @ 8968'. Multiple stage cementer @ 6997' and external casing packer @ 7026'. Western cemented the first stage w/350 sks. of Class "H" containing 8 pps CSE + .75% CF-14 + 5 pps Gilsonite + .35% Thrifty Lite. Set ECP and opened DV tool. Cemented 2nd stage w/750 sks. of Class "C" containing 1 pps celloseal + 5 pps gilsonite + 3% salt followed by 100 sks. of Class "H" Neet. Plug down to 6997' @ 2:45 a.m. 12/26/92



CARLSBAD AREA OFFICE
JAN 25 9 40 AM '93

RECEIVED

14. I hereby certify that the foregoing is true and correct

Signed Bill Pierce

Title Drilling Superintendent

Date 01/20/93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any: _____

Title _____

Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & 1980' FEL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #3

9. API Well No.

30-015-27163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

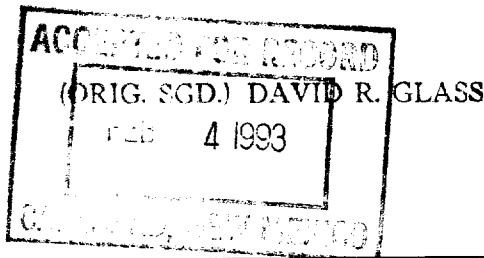
TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Run 4-1/2" liner
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled well to a total depth of 10,150' w/6" hole, ran 45 jts. of 4-1/2", 11.6#, N-80, used API casing and hung liner from 8599' to 10,150'. Western cemented w/200 sks. of Class "H" containing 5 pps CSE + 20 pps SF-3 + .9% CF-14 + 1 gal./100 sacks of Klay-Treat. Plug down to 10,113' @ 5:00 a.m. 01/06/93. Released rig and moved off location. 01/08/93



RECEIVED
JAN 25 9 40 AM '93
CARBON COPY
AREA

14. I hereby certify that the foregoing is true and correct

Signed Bill Pierce

Title Drilling Superintendent

Date 01/21/93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

SEC 1 TWN 18 RGE 27

API # 30-015-27163

OPERATOR MEWBOURNE OIL CO

WELL NAME CHALK BLUFF FEO Com #3

STATE OCD TOPS AS PER MARK ASHLEY

DATE 1-25-93

Southeastern New Mexico

Anhy _____
 Salt _____
 Salt _____
 Yates 450
 7 Rivers 565
 Queen 1159
 Grayburg 1494
 San Andres 1485
 Glorietta 3535
 Paddock _____
 Blinbry _____
 Tubb 4760
 Drinkard _____
 Abo 5745
 Wolfcamp 6475
 Penn 7970
 Cisco (Bough C) _____

T. Canyon _____
 T. Strawn 8932
 T. Atoka 9490
 T. Miss _____
 T. Devonian _____
 T. Silurian _____
 T. Monroya _____
 T. Simpson _____
 T. McKee _____
 T. Ellenburger _____
 T. Gr. Wash _____
 T. Delaware Sand _____
 T. Bone Springs _____
 T. Mallow LS 9710
 T. _____
 T. _____
 T. _____

Northwestern New Mexico

T. Ojo Alamo _____
 T. Kirtland-Fruitland _____
 T. Picured Cliffs _____
 T. Cliff House _____
 T. Menefee _____
 T. Point Lookout _____
 T. Mancos _____
 T. Gallup _____
 Base Greenhorn _____
 T. Dakota _____
 T. Morrison _____
 T. Todilto _____
 T. Enrada _____
 T. Wingate _____
 T. Chinle _____
 T. Permian _____
 T. Penn "A" _____

T. Penn "B" _____
 T. Penn "C" _____
 T. Penn "D" _____
 T. Leadville _____
 T. Madison _____
 T. Elbert _____
 T. McCracken _____
 T. Ignacio Otzie _____
 T. Granite _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet
 No. 2, from _____ to _____ feet
 No. 3, from _____ to _____ feet

REMARKS:

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

RECEIVED

JAN 24 1993

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

O. C. D.

ABSTRACT

Operator Mewbourne Oil Company		Well API No. 30-015-27163
Address P.O. Box 5270 Hobbs, New Mexico 88241		
Reason(s) for Filing (Check proper box) New Well <input checked="" type="checkbox"/> Change in Transporter of: Recompletion <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Change in Operator <input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>		
If change of operator give name and address of previous operator		

II. DESCRIPTION OF WELL AND LEASE

Lease Name Chalk Bluff Federal Comm.	Well No. 3	Pool Name, Including Formation North Illinois Camp Morrow	Kind of Lease State Federal or State	Lease No. NM-0557371
Location Unit Letter I : 1980 Feet From The South Line and 990 Feet From The East Line Section 1 Township 18S Range 27E, NMPM, Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Amoco Pipeline IPC	Address (Give address to which approved copy of this form is to be sent) 502 N. West Ave. Levelland, Tx. 79336-3914			
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Transwestern Pipeline Company	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1188 Houston, Texas 77251			
If well produces oil or liquids, give location of tanks.	Unit I	Sec. 1	Twp. 18S	Rge. 27E
Is gas actually connected? Yes		When? 01/15/93		

If this production is commingled with that from any other lease or pool, give commingling order number: None

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 11/24/92	Date Compl. Ready to Prod. 01/16/93		Total Depth 10,150'		P.B.T.D. 10,102'			
Elevations (DF, RKB, RT, GR, etc.) KB 3643' DF 3641' GL 3628'	Name of Producing Formation Lower Morrow		Top Oil/Gas Pay 9950'		Tubing Depth 9972'			
Perforations 9950'-9954' 9957'-9972'					Depth Casing Shoe 10,150'			

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8" 54.5#	400'±	100 sacks PORTED-2
12-1/4"	9-5/8" 36#	2,600'	250 sacks 2-12-93
8-3/4"	7" 26#	8,968'	1200 sacks comp 4 B15
6"	4-1/2" Liner 11.6#	8,600' to 10,150'	200 sacks

V. TEST DATA AND REQUEST FOR ALLOWABLE

2-3/8" & 2-7/8"

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D 2000 MCF/D	Length of Test 24 Hrs.	Bbls. Condensate/MMCF 30 : 1	Gravity of Condensate N/A
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 2850	Casing Pressure (Shut-in) 0	Choke Size 10/64"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature R. A. Jones
Printed Name Robert A Jones Engineer
Date 01/19/93 Telephone No. (505) 393-5905

OIL CONSERVATION DIVISION

JAN 29 1993

Date Approved _____
By _____ ORIGINAL SIGNED BY _____
MIKE WILLIAMS
Title _____ SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.



LTR



Job separation sheet

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Alameda, NM 88210

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FOR APPROVED
OM 100. 1004-0137
Expires December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

NM-0558371

6. IF INDIAN ALLOTTEE, NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME AND WELL NO.

Chalk Bluff Fed. Comm. #3

9. API WELL NO.

30-015-27163

10. FIELD AND POOL, OR WILDCAT

N. Illinois Camp Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 1-T18S-R27E

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐

2. NAME OF OPERATOR

Mewbourne Oil Company

3. ADDRESS AND TELEPHONE NO.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

1980' FSL & 990' FEL

At top prod. interval reported below

At total depth Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

11/24/92

01/06/93

01/16/93

KB 3643' DF 3641' GL 3628'

3628'

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

10,150'

10,102'

X

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

9950'-9954', 9957'-9972' Lower Morrow Orange Sand

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

SDL-DSN Dual-Latero-MFSL-GR Sonic CBL

27. WAS WELL CORRED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	400'±	17-1/2"	100 sx. Class "H"	None
9-5/8"	36#	2,600'±	12-1/4"	250 sx. Class "C"	None
7"	26 & 29#	8,968'	8-3/4"	1200 sx. Class "C & H"	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4-1/2"	8600'	10,150'	200 sxs.	None

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	9972'	9797'
2-3/8"		

31. PERFORATION RECORD (Interval, size and number)

9950'-9954' 9957'-9972'

4 SPF 19' 76 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9950'-9954'	None
9957'-9972'	None

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
01/16/93		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
01/16/93	24	10/64"	→	50	2000	0	40 MCF/BBL
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
2720	0	→	60	2000	0		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

35. LIST OF ATTACHMENTS

Logs- * Please hold in confidence

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Engineer

DATE 01/21/93

(See Instructions and Spaces for Additional Data on Reverse Side)

38. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
M. Morrow	9950'	9972'	Sandstone	Yates	450'	
				7 Rivers	564'	
				Queen	1159'	
				Grayburg	1492'	
				San Andres	1985'	
				Glorieta	3536'	
				Tubb	4760'	
				Drinkard	5524'	
				Abo	5744'	
				Wolfcamp	6474'	
				Cisco	7686'	
				Canyon	8440'	
				Strawn	8932'	
				Atoka	9490'	
				Morrow	9594'	
				Morrow Clastic	9800'	
				L. Morrow	9911'	



DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

RECEIVED

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 505/746-2719
ROSWELL, NM ARTESIA, NM

JAN 27 10 52 AM '93

CARL...
AREA...

January 06, 1993

Mewbourne Oil Company
P.O. Box 5270
Hobbs, N.M. 88240

RE: Chalk Bluff Federal #3

The following is a Deviation Survey on the above referenced well located in Eddy County, New Mexico.

400' - 3/4°	5033' - 2 3/4°	5813' - 4°
887' - 1°	5096' - 3°	5875' - 4°
1359' - 1°	5158' - 3°	5967' - 3 3/4°
1864' - 2°	5222' - 3 1/4°	6094' - 3 3/4°
2336' - 1 1/2°	5283' - 3 3/4°	6217' - 3 1/4°
2600' - 3/4°	5346' - 3 3/4°	6720' - 3 1/2°
2792' - 1 1/4°	5409' - 4°	7213' - 3°
3086' - 1°	5464' - 4 1/4°	7685' - 2 1/2°
3580' - 1 1/3°	5555' - 4 1/4°	8155' - 2 1/4°
4079' - 1°	5587' - 4 1/4°	8654' - 2°
4358' - 1 3/4°	5650' - 4 1/4°	9003' - 2°
4846' - 2 3/4°	5719' - 4 1/2°	9509' - 1/4°
		9837' - 3/4°
		10150' - 1 3/4° TD

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)

COUNTY OF CHAVES }

The foregoing was acknowledged before me this 06th day of January 1993 by Gary W. Chappell.

MY COMMISSION EXPIRES

October 07, 1996

NOTARY PUBLIC

RECEIVED JAN 07 1993

VOL 1 :	635	PSIA 1 :	2243.2	RESV.TEMP	173.6	Pc2-Pw2=	128.6	Pw2 =	5033.8 *
VOL 2 :	1310	PSIA 2 :	2193.2				329.8		4837.6 *
VOL 3 :	2283	PSIA 3 :	2113.2	SHUT-IN PR=	2273.2		618.9		4548.6 *
VOL 4 :	3294	PSIA 4 :	2013.2				942.6		4224.8 *
									*
		PCR :	668				n =	0.884	*
		TCR :	401						*

LINE	RATE 1		RATE 2		RATE 3		RATE 4		Pc2/(Pc2-Pw2) =	
	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND		
1 GM	0.655	0.655	1.310	1.310	2.283	2.283	3.294	3.294		15.666
2 TW	534	534	534	534	534	534	534	534	[Pc2/Pc2-Pw2]n =	8.350
3 Ts	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6		5.482
4 T	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8		
PR (est)	3.36		3.28		3.16		3.01			
5 Z(est)	0.727	0.738	0.727	0.736	0.723	0.733	0.731	0.730		
6 TZ	424.5	430.8	424.6	429.5	425.2	427.7	426.5	426.0	AOF= Q	26.181
7 GH/TZ	19.924	19.629	19.918	19.691	19.891	19.774	19.829	19.852		11.386
8 eS	2.111	2.088	2.110	2.093	2.108	2.099	2.104	2.105		6.528
9 l-e-S	0.526	0.521	0.526	0.522	0.526	0.524	0.525	0.525		4.500
10 Pt	2243.2	2243.2	2193.2	2193.2	2113.2	2113.2	2013.2	2013.2		
11 Pz2 /1000	5031.9	5031.9	4810.1	4810.1	4465.6	4465.6	4053.0	4053.0		
12 Fr	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.0128924		
13 Fc=FrTZ	5.472	5.555	5.474	5.537	5.481	5.514	5.498	5.492		
14 FcGn	3.58	3.64	7.17	7.25	12.51	12.59	13.11	18.09		
15 L/H(FcGn)	12.8	13.2	51.4	52.6	156.6	153.5	328.0	327.3		
16 Fw	6.761363	6.396563	27.05758	27.47157	32.32401	32.97298	172.0865	171.83059		
17 Pw2	5038.7	5038.8	4837.2	4837.6	4547.9	4548.6	4225.1	4224.8		
18 Ps2	10636.7	10519.8	10208.7	10123.1	9588.7	9547.9	8897.4	8894.3		
19 Ps	3261.4	3243.4	3195.1	3181.7	3096.6	3090.0	2981.2	2982.3		
20 P	2752.3	2743.3	2694.2	2687.4	2604.9	2601.6	2497.2	2497.8		
21 Pr	4.12	4.11	4.03	4.02	3.90	3.89	3.74	3.74		
22 Tr	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46		
23 I	0.733	0.733	0.736	0.733	0.733	0.732	0.730	0.730		



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:	Mewbourne Oil Co. Attention: Mr. R. Jones P. O. Box 5270 Hobbs, New Mexico 88240	SAMPLE IDENTIFICATION: Chalk bluff #3 COMPANY: Mewbourne Oil Co. LEASE: PLANT:
------	---	--

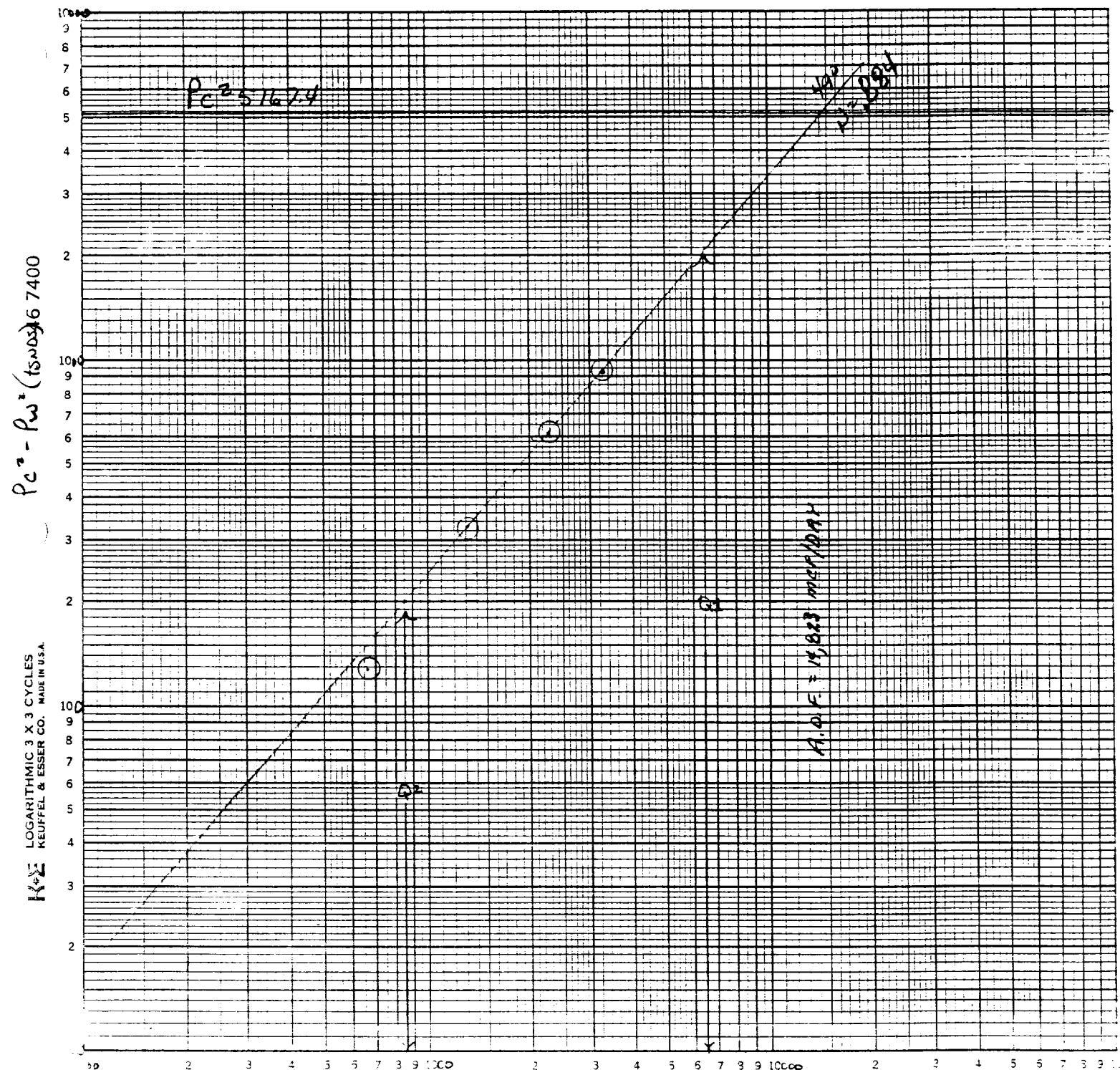
SAMPLE DATA:	DATE SAMPLED: 3/4/93 12:30PM	GAS (XX)	LIQUID ()
	ANALYSIS DATE: 03-05-93	SAMPLED BY:	R. Jones
	PRESSURE - PSIG 530.0	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F		
	ATMOS. TEMP. °F		

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM	
Hydrogen Sulfide (H2S)			
Nitrogen (N2)	0.33		
Carbon Dioxide (CO2)	0.42		
Methane (C1)	83.10		
Ethane (C2)	8.14	2.164	
Propane (C3)	3.14	0.862	
I-Butane (IC4)	0.40	0.130	
N-Butane (NC4)	0.86	0.270	
I-Pentane (IC5)	0.39	0.140	
N-Pentane (NC5)	0.41	0.147	
Hexane (C6)	2.81	1.214	
Heptanes Plus (C7+)	0.00	0.000	
	100.00	4.927	
BTU/CU.FT. - DRY	1269	MOLECULAR WT.	21.1701
AT 14.650 DRY	1265		
AT 14.650 WET	1239	26# GASOLINE -	1.591
AT 15.025 DRY	1298		
AT 15.025 WET	1304		
SPECIFIC GRAVITY -			
CALCULATED	0.731		
MEASURED			

MEWBOURNE OIL COMPANY
 Chalk Bluff Federal Com. Well #3
 1-18S-27E
 Eddy County, New Mexico
 3/4/93



RECEIVED
Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122
APR 3 1993

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWOURNE OIL COMPANY					Lease or Unit Name CHALK BLUFF FEDERAL COM.				
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 3/4/93		Well No. 3		
Completion Date 1/16/93		Total Depth 10150		Plug Back TD 10102		Elevation GL 3628'		Unit Ltr. - Sec. - TWP - Rge. I 1 18S 27E	
Csg. Size 4 1/2	Wt. 10.5	d 4.052	Set At 3600 10150	Perforations: From: 9950 To: 9954			County EDDY		
Tbg. Size 2 7/8 & 2 3/8	Wt. 4.7 & 6.5	d 1.91 & 2.441	Set At 9972	Perforations: From: 9957 To: 9972			Pool MORROW NORTH ILLINOIS		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple subgke					Packer Set At 9797		Formation MORROW		
Producing Thru tbg.		Reservoir Temp. °F 133		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Transwestern	
L 9950	H 9950	Gg .731	% CO ₂ .42	% N ₂ .33	% H ₂ S	Prover	Meter Run 3.068	Taps flg.	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifice X Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI						2260		Pkr.		48 hr.
1.	3 X 1.500		530	5	148	2230		"		1 hr.
2.	3 X 1.500		530	19	124	2180		"		1 hr.
3.	3 X 1.500		535	52	88	2100		"		1 hr.
4.	3 X 1.500		540	102	70	2000		"		1 hr.
5.										

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$h_w P_m$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11.13	52.12	543.2	.9248	1.170	1.043	655
2.	11.13	101.59	543.2	.9436	1.170	1.049	1310
3.	11.13	168.84	548.2	.9741	1.170	1.066	2283
4.	11.13	237.54	553.2	.9905	1.170	1.075	3294
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.81	608	1.52	.919	23.63	
2.	.81	584	1.46	.909	57.0	Deg.
3.	.82	548	1.37	.880	.731	XXXXXXXXXX
4.	.83	530	1.32	.865	XXXXXX	G. Mix .849
5.					668	664 P.S.I.A.
					401	441 R

P _c 2273.2		P _c ² 5167.4		1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4821$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.500$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1.	5031.9	2244.7	5038.8	128.6			
2.	4810.1	2199.5	4837.6	329.8			
3.	4465.6	2132.7	4548.6	618.9			
4.	4053.9	2055.4	4224.8	942.6			
5.							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14,823$

Absolute Open Flow	14,823	Mcf/d @ 15.025	Angle of Slope θ	49	Slope, n	.884
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Remarks: 13.3 BBLS CONDENSATE PRODUCED DURING TEST

Approved By Division

Conducted By:
WELL TESTERS

Calculated By:
KS

Checked By:
KS

THE WESTERN COMPANY OF NORTH AMERICA

WATER ANALYSIS

HOBBS, NEW MEXICO LAB

ANALYSIS #: HE010251

GENERAL INFORMATION

OPERATOR: Mewbourne Oil Company	DEPTH: 0
WELL: Chalk Bluff Fed #3	DATE SAMPLED:
FIELD:	DATE RECEIVED: 02/24/93
FORMATION:	SUBMITTED BY: Leonard Pounds
COUNTY: Eddy	WORKED BY: M Keith
STATE: NM	PHONE #: 505-392-5556

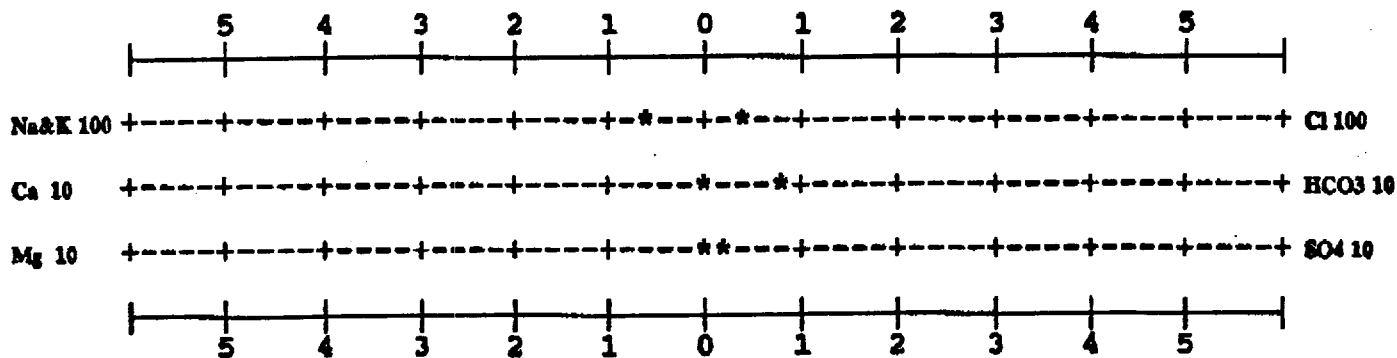
SAMPLE DESCRIPTION: all water

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY: 1.003 @ 70 °F	PH: 6.75
RESISTIVITY (MEASURED): 3 OHMS @ 0 °F	
IRON (FE++): 150 PPM	SULFATE: 100 PPM
CALCIUM: 10 PPM	TOTAL HARDNESS: 50 PPM
MAGNESIUM: 6 PPM	BICARBONATE: 487 PPM
CHLORIDE: 1595 PPM	SODIUM CHLORIDE (CALC): 2624 PPM
SODIUM+POTASS: 1243 PPM	TOT. DISSOLVED SOLIDS: 3474 PPM
KCL :no trace	OIL :none

REMARKS:

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

MK
M Keith

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS. COMMISSION
Drawer DD
Artesia, NM 88010

FORM APPROVAL
Budget Bureau No. 1004-1001
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & 1980' FEL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #3

9. API Well No.

30-015-27163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☒ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 1) Formation: Morrow
- 2) Amount of water produced 10 BW/mo.
- 3) Water analysis attached
- 4) Water is stored on lease in fiberglass tank
- 5) Produced water will be trucked by I & W Inc.
- 6) The disposal well is I & W Inc., Walter Solt #1, Unit Letter L, Section 5-T18S-R28E
Eddy County, New Mexico

SWD #318

14. I hereby certify that the foregoing is true and correct

Signed David R. Glass

Title Production Engineer

Date March 4, 1993

(This space for Federal or State office use)

Approved by (ORIG. SGD) DAVID R. GLASS

Title PETROLEUM ENGINEER

Date 4/22/93

Conditions of approval, if any:

SEE ATTACHED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

COMPANY : MENBOURNE OIL LEASE : CHALK BLUFF FED.COMWELL NO. : 3
 UNIT : I SECTION : 1 TOWNSHIP : 15
 L : 9961 H : 9961 L/H : 1 G/GMIX : 0.849
 %CO2 : 0.42 %N2 : 0.33 H2S : DATE :
 d : 2.278 Fr : 0.012892 GH : 8456.9 RANGE : 27

Pc = 2273.2 Pc2 = 5167.4 *
 Pt2 = 5031.9 Pw = 2244.7 *
 4810.1 2199.5 *
 4465.6 2132.7 *
 4053.0 2055.4 *

VOL 1 : 655 PSIA 1 : 2243.2 RESV.TEMP 173.6 Pc2-Pw2 = 128.6 Pw2 = 5038.8 *
 VOL 2 : 1310 PSIA 2 : 2193.2 329.8 4837.6 *
 VOL 3 : 2283 PSIA 3 : 2113.2 SHUT-IN PR= 2273.2 618.9 4548.6 *
 VOL 4 : 3294 PSIA 4 : 2013.2 942.6 4224.8 *

PCR : 668 n = 0.884
 TCR : 401

Pc2/(Pc2-Pw2) = 40.184
 15.666
 8.350
 5.482

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND
1 QM	0.655	0.655	1.310	1.310	2.283	2.283	3.294	3.294
2 TW	534	534	534	534	534	534	534	534
3 Ts	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6
4 T	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8
PR (est)	3.36		3.28		3.16		3.01	
5 Z(est)	0.727	0.738	0.727	0.736	0.728	0.733	0.731	0.730
6 TZ	424.5	430.8	424.6	429.5	425.2	427.7	426.5	426.0
7 GH/TZ	19.924	19.629	19.918	19.691	19.891	19.774	19.829	19.852
8 eS	2.111	2.088	2.110	2.093	2.108	2.099	2.104	2.105
9 l-e-S	0.526	0.521	0.526	0.522	0.526	0.524	0.525	0.525
10 Pt	2243.2	2243.2	2193.2	2193.2	2113.2	2113.2	2013.2	2013.2
11 Pt2 /1000	5031.9	5031.9	4810.1	4810.1	4465.6	4465.6	4053.0	4053.0
12 Fr	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892
13 Fc=FrTZ	5.472	5.555	5.474	5.537	5.481	5.514	5.498	5.492
14 FcQm	3.58	3.64	7.17	7.25	12.51	12.59	18.11	18.09
15 L/H(FcQm)	12.8	13.2	51.4	52.6	156.6	158.5	328.0	327.3
16 Fw	6.761363	6.896568	27.05758	27.47157	82.32401	82.97298	172.0865	171.83059
17 Pw2	5038.7	5038.8	4837.2	4837.6	4547.9	4548.6	4225.1	4224.8
18 Ps2	10636.7	10519.8	10208.7	10123.1	9588.7	9547.9	8887.4	8894.3
19 Ps	3261.4	3243.4	3195.1	3181.7	3096.6	3090.0	2981.2	2982.3
20 P	2752.3	2743.3	2694.2	2687.4	2604.9	2601.6	2497.2	2497.8
21 Pr	4.12	4.11	4.03	4.02	3.90	3.89	3.74	3.74
22 Tr	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
23 Z	0.738	0.738	0.736	0.735	0.733	0.732	0.730	0.730

[Pc2/Pc2-Pw2]n = 26.181
 11.386
 6.528
 4.500
 AOF= Q 17.148
 14.915
 14.903
 14.823



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr. R. Jones
P. O. Box 5270
Hobbs, New Mexico 88240

SAMPLE
IDENTIFICATION: Chalk Bluff #3
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

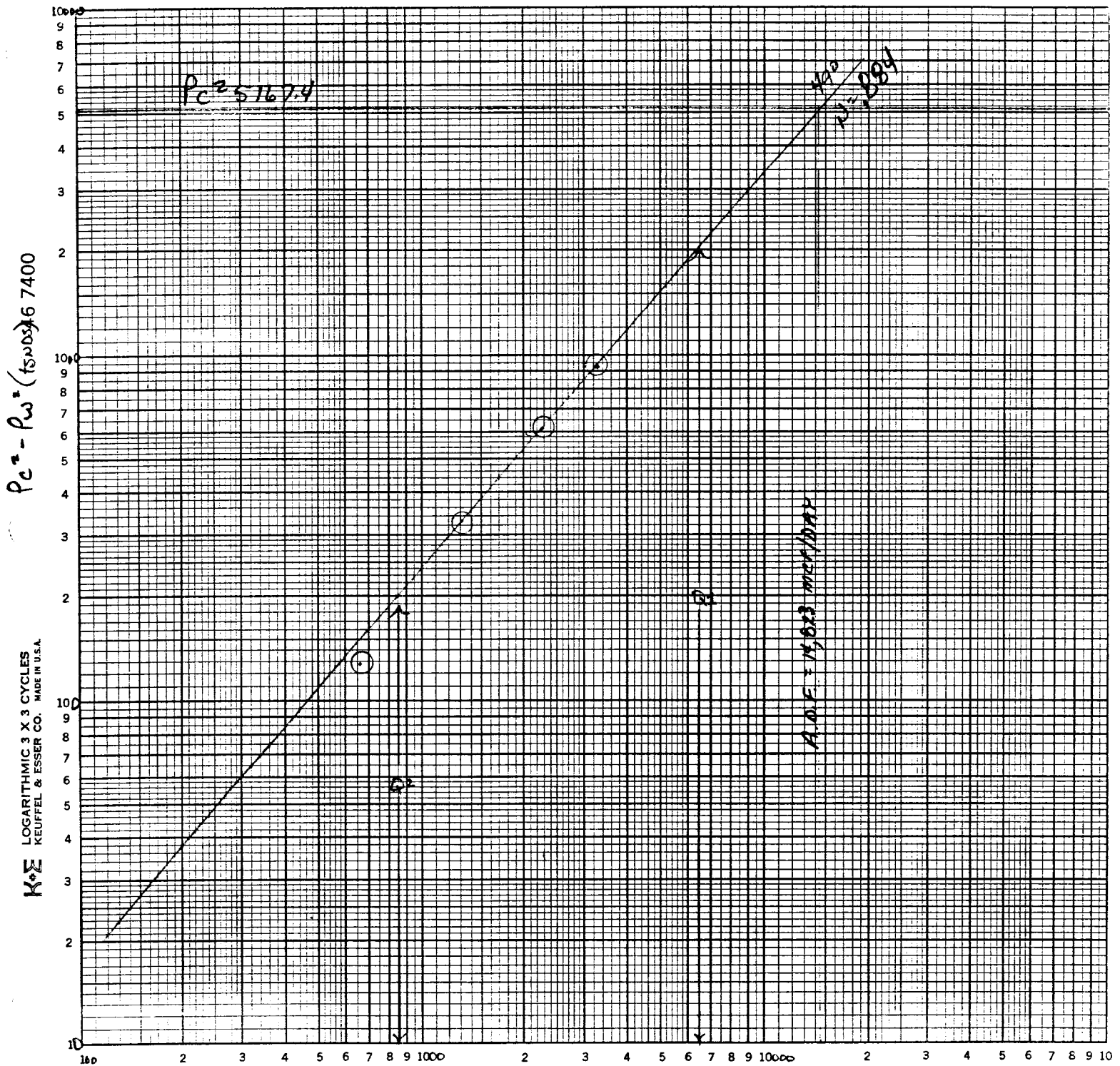
SAMPLE DATA:	DATE SAMPLED:	3/4/93 12:30PM	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	03-05-93	SAMPLED BY:	R. Jones
	PRESSURE - PSIG	530.0	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F			
	ATMOS. TEMP. °F			

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM	
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.33		
Carbon Dioxide	(CO2)	0.42		
Methane	(C1)	83.10		
Ethane	(C2)	8.14	2.164	
Propane	(C3)	3.14	0.862	
I-Butane	(IC4)	0.40	0.130	
N-Butane	(NC4)	0.86	0.270	
I-Pentane	(IC5)	0.39	0.140	
N-Pentane	(NC5)	0.41	0.147	
Hexane	(C6)	2.81	1.214	
Heptanes Plus	(C7+)	0.00	0.000	
		100.00	4.927	
BTU/CU.FT. - DRY		1269	MOLECULAR WT.	21.1701
AT 14.650 DRY		1265		
AT 14.650 WET		1239	26# GASOLINE -	1.591
AT 15.025 DRY		1298		
AT 15.025 WET		1304		
SPECIFIC GRAVITY -				
CALCULATED		0.731		
MEASURED				

MEWBOURNE OIL COMPANY
 Chalk Bluff Federal Com. Well #3
 1-18S-27E
 Eddy County, New Mexico
 3/4/93



Q MCF/DAY

$$\text{Log } Q_1 = 6500: \text{Log} = 3.81291$$

$$\text{Log } Q_2 = 8500: \text{Log} = 2.92942$$

$$\text{Slope } N = .88349 = .884$$

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

APR 18 1993

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWOURNE OIL COMPANY					Lease or Unit Name CHALK BLUFF FEDERAL COM.				
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 3/4/93		Well No. 3		
Completion Date 1/16/93		Total Depth 10150		Plug Back TD 10102		Elevation GL 3628'		Unit Ltr. - Sec. - TWP - Rge. I 1 18S 27E	
Csg. Size 4 1/2	Wt. 10.5	d 4.052	Set At 3600 10150	Perforations: From: 9950 To: 9954			County EDDY		
Tbg. Size 2 7/8 2 3/8 &	Wt. 4.7 6.5	d 1.91 2.441	Set At 9972	Perforations: From: 9957 To: 9972			Pool MORROW NORTH ILLINOIS camp		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple subgke				Packer Set At 9797			Formation MORROW		
Producing Thru tbg.		Reservoir Temp. °F 133		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Transwestern	
L 9950	H 9950	Gg .731	% CO ₂ .42	% N ₂ .33	% H ₂ S	Prover		Meter Run 3.068	Taps flg.

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI						2260		Pkr.		48 hr.
1.	3 X 1.500		530	5	148	2230		"		1 hr.
2.	3 X 1.500		530	19	124	2180		"		1 hr.
3.	3 X 1.500		535	52	88	2100		"		1 hr.
4.	3 X 1.500		540	102	70	2000		"		1 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11.13	52.12	543.2	.9248	1.170	1.043	655
2.	11.13	101.59	543.2	.9436	1.170	1.049	1310
3.	11.13	168.84	548.2	.9741	1.170	1.066	2283
4.	11.13	237.54	553.2	.9905	1.170	1.075	3294
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.81	608	1.52	.919	23.63	
2.	.81	584	1.46	.909	57.0	
3.	.82	548	1.37	.880		
4.	.83	530	1.32	.865		
5.						

A.P. I Gravity of Liquid Hydrocarbons 57.0 Deg.				
Specific Gravity Separator Gas .731 XXXXXXXXXX				
Specific Gravity Flowing Fluid XXXXX G Mix .849				
Critical Pressure 668 P.S.I.A. 664 P.S.I.A.				
Critical Temperature 401 R 441 R				

P _c 2273.2 P _c ² 5167.4				
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1.	5031.9	2244.7	5038.8	128.6
2.	4810.1	2199.5	4837.6	329.8
3.	4465.6	2132.7	4548.6	618.9
4.	4053.9	2055.4	4224.8	942.6
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4821$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14,823$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.500$

Absolute Open Flow 14,823 Mcfd @ 15.025		Angle of Slope θ 49	Slope, n .884
--	--	-----------------------------------	----------------------

Remarks: **13.3 BBLS CONDENSATE PRODUCED DURING TEST**

Approved By Division	Conducted By: PRO WELL TESTERS	Calculated By: KS	Checked By: KS
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil & Gas Division
811 S. 1st St.
Artesia, NM 88210-9824

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Designation and Serial No.
NM 0557371

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P. O. Box 5270, Hobbs, NM 88241 505-393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FSL & 990' FEL of Section 1, T18S, R27E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Chalk Bluff Fed. Comm. #3

9. API Well No.
30-015-27163

10. Field and Pool, or Exploratory Area
N. Illinois Camp Morrow

11. County or Parish, State
Eddy

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

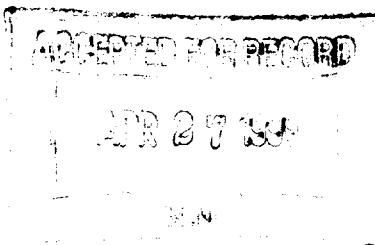
TYPE OF ACTION

- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
Add Morrow perforations 9860' to 9870'.



(ORIG. SGD.) GARY GOURLEY

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title District Manager

Date 04/15/99

(This space for Federal or State office use)

Approved by _____ Title _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Oxford[®]

ESSELTE

MADE IN U.S.A.

NO. R753 1/3

• • • •

1-21-93

Spectral Density
Dual Spaced Neutron

6365' - 8467'

400' - 10,100'

Comp. Sonic Log.

6365' - 8467'

Dual Induction Laterolog

6365' - 8501'

Dual Lat.

6365' - 8467'

8968' - 10,143'

MSL Gamma Collar

CBL Log

1340' - 10,069'

NSL - R-9760

R-9760

SD + NSL

11-4-92

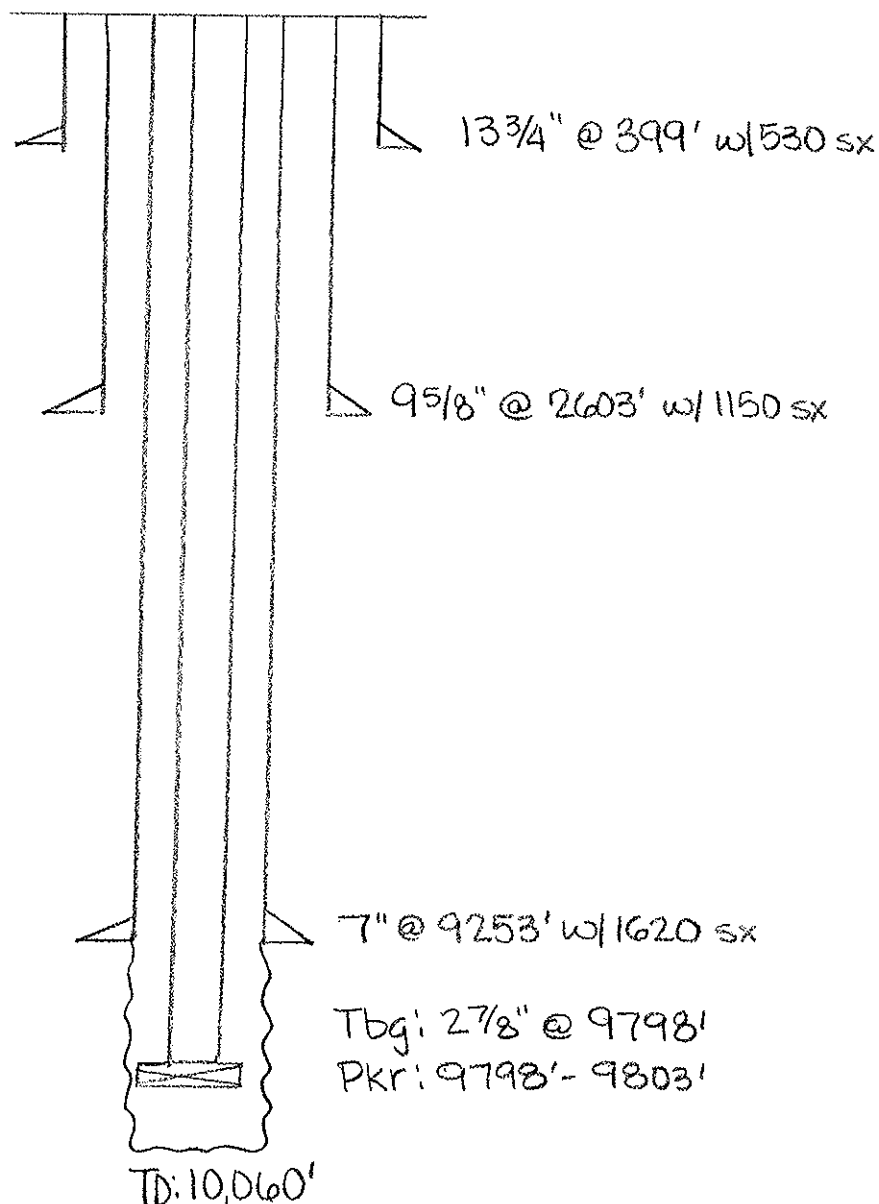
SUBSURFACE

NAVAJO REFINING COMPANY, L.L.C.
Map ID No. 100
Artificial Penetration Review

OPERATOR Newbourne Oil
LEASE Chalk Bluff 36 State
WELL NUMBER 1
DRILLED 3/30/93
PLUGGED NA

STATUS Active
LOCATION Sec. 36-T17S-R27E
MUD FILLED BOREHOLE NA
TOP INJECTION ZONE -3561'
API NO. 30-015-27286

REMARKS:



MAP ID NO. 100

**MEWBOURNE OIL CO.
CHALK BLUFF 36 STATE NO. 001**

API NO. 30-015-27286

WUN-21004

C-101

England

C-102

C-103

OARID # 14744

PROP # 7871

POOL # 96960

Oxford[®]

ESSELTE

MADE IN U.S.A.

NO. R753 43

4-15-93

Dual Spaced
Neutron Log
Surf - 9242'
9370' - 10,059'
Comp. Sonic Log
1220' - 9260'
Dual Lat.
2598' - 9275'
9310' - 10,059'

DHC - 2464
9-24-99

oil
At 100%
mor 0

NSL - R-9815

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-8

clm
8/5/88

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87501

API NO. (assigned by OCD or New Well)

30-015-27286

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

E-379-4

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:

OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

Mewbourne Oil Company

3. Address of Operator

P.O. Box 5270 Hobbs, New Mexico 88241

7. Lease Name or Unit Agreement Name

Chalk Bluff "36" State

8. Well No.

1

9. Pool name or Wildcat

Illinois Camp Morrow North

4. Well Location

Unit Letter M : 990 Feet From The West Line and 660 Feet From The South Line

Section 36 Township 17S Range 27E NMPM Eddy County

10. Proposed Depth
10,300'

11. Formation
Morrow

12. Rotary or C.T.
Rotary

13. Elevations (Show whether DF, RT, GR, etc.)
3635' G.R.

14. Kind & Status Plug Bond
Blanket on file

15. Drilling Contractor
WEK Drilling

16. Approx. Date Work will start
Jan. 31, 1993

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	48#	400'	400 sks.	Circ.
12-1/4"	9-5/8"	36#	2,600'	700 sks.	Tie back into surf.
8-3/4"	5-1/2"	17#	10,300'	600 sks.	Bring above top

of Abo

Mud Program:

0' - 400' Spud mud w/fresh water gel, LCM as needed.
400' - 2,600' Fresh water gel & lime. LCM as needed.
2,600' - 9,200' Cut brine with lime for pH control. WL-NC.
9,200' - 10,300' Cut brine w/Drispac, salt gel, lime, soda ash and starch. Wt. 9.2-9.6 ppg, WL 10 cc or less, Vis. 32-36. Raise wt. accordingly if abnormal pressures are encountered.

BOP Program:

1500 Series Double Ram Hydraulic BOP w/900 Series Hydril from Intermediate csg. to T.D. 900 Series Hydril on Surface csg. to Intermediate csg. point. PVT system, mud-gas separator, rotating head from Wolfcamp to T.D.

Gas is not dedicated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Bill Pierce TITLE Drilling Superintendent DATE 01/18/93
TYPE OR PRINT NAME Bill Pierce TELEPHONE NO. 393-5905

(This space for State Use)

APPROVED BY Mark Kelly TITLE Director DATE 1-19-93

CONDITIONS OF APPROVAL, IF ANY:

NOTIFY N.M.O.C.D. IN SUFFICIENT
TIME TO WITNESS CEMENTING THE
CASING

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 7-11-93
UNLESS DRILLING UNDERWAY

NEL * R-9415

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form CG
Rev. 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

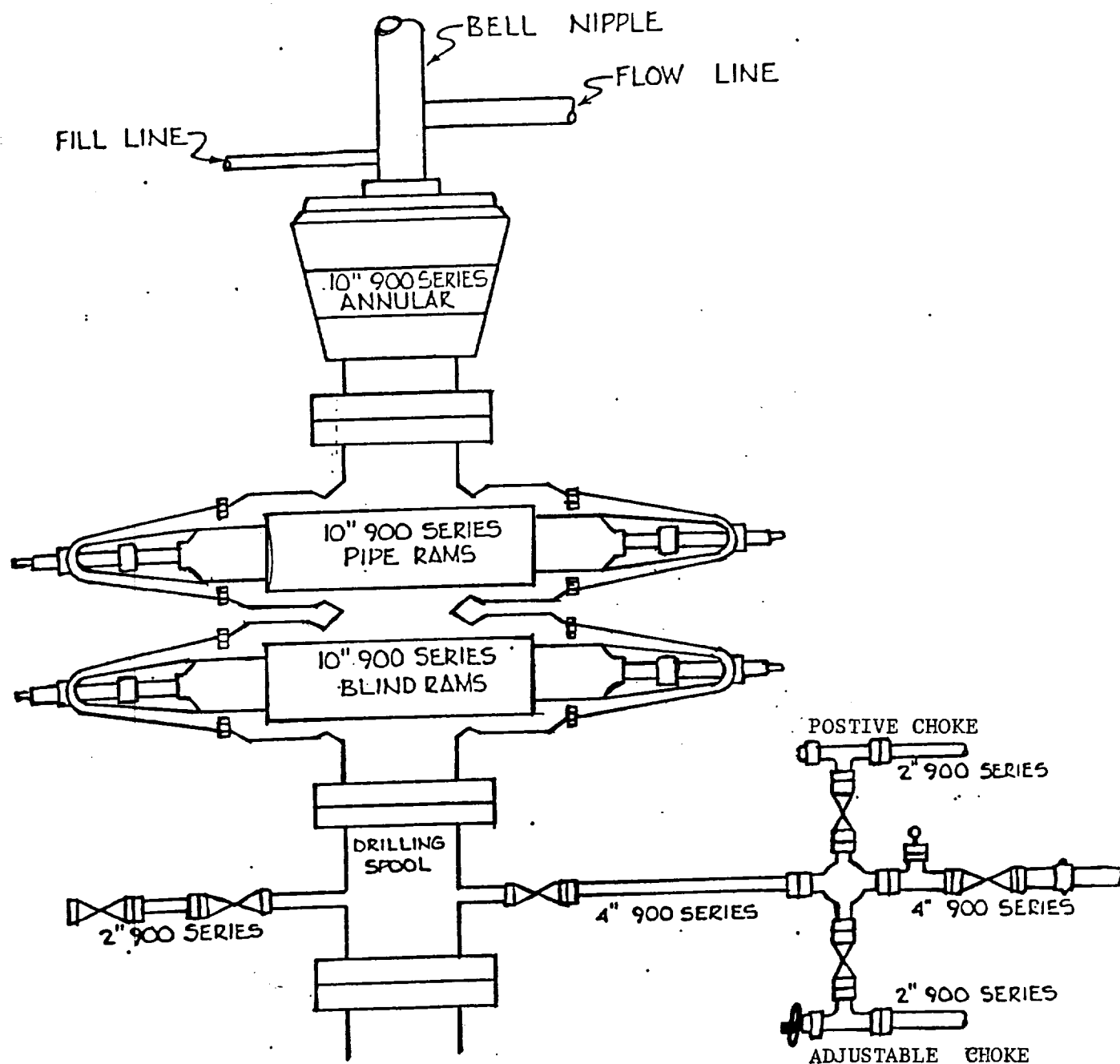
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator MEWBOURNE OIL COMPANY		Lease CHALK BLUFF 36 STATE		Well No. 1
Unit Letter M	Section 36	Township 17 SOUTH	Range 27 EAST	County EDDY
Actual Footage Location of Well: 990 feet from the WEST line and 660 feet from the SOUTH line				
Ground level Elev. 3635	Producing Formation Morrow	Pool Illinois Camp Morrow North		Dedicated Acreage: 320 Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation <u>Communitization</u></p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)</p> <p>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>				
				OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
				Signature <i>Bill Pierce</i> Printed Name Bill Pierce Position Drilling Superintendent Company Mewbourne Oil Company Date October 27, 1992
				SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.
				Date Surveyed 10/19/92 Signature & Seal of Professional Surveyor <i>[Signature]</i> Certificate No. 3640



Mewbourne Oil Company
 Chalk Bluff "36" State #1
 660' FSL & 990' FWL
 Section 36-T17S-R27E
 Eddy County, New Mexico
 Lease Number E-379-4

FIELD REPORT FOR CEMENTING OF WELLS

OIL CONSERVATION DIVISION

API 30-015-27286

Operator <u>Newbourn Oil Co.</u>		Lease <u>Chalk Bluff "36" St.</u>		Well # <u>1</u>	
Location of Well	Unit <u>M</u>	Section <u>36</u>	Township <u>17</u>	Range <u>27</u>	County <u>Eddy</u>
Drilling Contractor <u>WEK Drilling</u>			Type of Equipment <u>Rotary</u>		

APPROVED CASING PROGRAM

* Witness

Size of Hole	Size of Casing	Weight Per Foot	New or Used	Depth	Sacks Cement
<u>17 1/2</u>	* <u>13 3/8</u>	<u>48 #</u>		<u>400 ±</u>	<u>400 Circ</u>
<u>12 1/4</u>	<u>9 5/8</u>	<u>36 #</u>		<u>2600 ±</u>	<u>700 Surf</u>
<u>8 3/4</u>	<u>5 1/2</u>	<u>17 #</u>		<u>10,300 ±</u>	<u>600 Top</u>

Casing Data:

of ABO

Surface joints of 13 3/8" inch 48 # Grade H-40

(Approved) (Rejected)

Inspected by M.S. date Jan 2 - 93

Cementing Program

Size of hole 17 1/2" Size of Casing 13 3/8" Sacks cement required Type of Shoe used guide Float collar used insert Btm 3 jts welded yesTD of hole 400' Set 400' Feet of 13 3/8" Inch 48 # Grade H-40(New) used csg. @ 400' with 200 270cc sacks neat cement around shoe+ 230 sax Halliburton Lite additives 1/4 # flocele, 5 # gilsonite, 270ccPlug down @ 8:45 (AM) (PM) Date Jan. 3 - 1992Cement circulated Yes No. of Sacks 30 *Cemented by Halliburton Witnessed by Mike StubblefieldTemp. Survey ran @ (AM) (PM) Date top cement @ Casing test @ (AM) (PM) Date Method Used Witnessed by Checked for shut off @ (AM) (PM) Date Method used Witnessed by Remarks: * Cement fell back after Plug Down.Ready mixed cmt top to surface 2 yards.

4 centralizers

Lost circ. @ 349'

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-8

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
J. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

12809 1993

O.C.D.

WELL API NO.

30-015-27286

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

E-379-4

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

Mewbourne Oil Company ☒

3. Address of Operator

P. O. Box 5270 Hobbs, New Mexico 88241

4. Well Location

Unit Letter M : 990 Feet From The West Line and 660 Feet From The South Line

Section

36

Township

17S

Range

27E

NMPM

Eddy

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3635' GR

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☒

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☒

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

2-2-93: MIRU WEK Drilling Co. Rig #2. Spudded 17 1/2" surface hole @ 6:00 P. M. MST.

2-3-93: Drilled 17 1/2" surface hole to 400' K. B. Ran 9 jts. of 13 3/8", 48#, J-55, STC new casing to 400'. Howco cemented w/100 sks. of Class "C" containing 10#/sk. Cal-Seal + 5#/sk. Gilsonite + 1/2#/sk. Flocele + 2% CaCl₂ followed by 230 sacks of Class "C" Lite containing 1/4#/sk. Flocele + 5#/sk. Gilsonite + 2% CaCl₂, tailed in with 100 sacks of Class "C" Neet containing 2% CaCl₂. Plug down to 353' @ 8:45 AM. MST. Circulated 30 sacks of cement to the pit. Cement job witnessed by Mike Stubblefield w/NMOC office in Artesia. Cement slurry volume for lead cement was 580 cu. ft. Slurry volume for tail cement was 268 cu. ft. Total slurry volume was 848 cu. ft. Compressive strength for tail slurry is 1350 psi in 12 hrs. @ 70° F. Estimated formation temperature is 68° F, estimated slurry temp. was 70° F. NU BOP and WOC 13 1/2 hrs. Pressure tested blind rams, pipe rams and casing to 600# each for 30 min. w/rig pump. All held O. K.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Bill Pierce

TITLE Drilling Superintendent

DATE 2/4/93

TYPE OR PRINT NAME

Bill Pierce

505

TELEPHONE NO. 393-5905

This space for State Use)

FEB 15 1993

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Box 1980, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

FEB 09 1993

O.C.D.

WELL API NO.

30-015-27286

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

E-379-4

7. Lease Name or Unit Agreement Name

Chalk Bluff "36" State

8. Well No.

1

9. Pool name or Wildcat

Illinois Camp Morrow, North

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

Mewbourne Oil Company

3. Address of Operator

P. O. Box 5270 Hobbs, New Mexico 88241

4. Well Location

Unit Letter M : 990 Feet From The West Line and 660 Feet From The South Line

Section

36

Township

17S

Range

27E

NMPM

Eddy

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3635' GR

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☒

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

2-7-93: Drilled 12 1/4" Intermediate hole to 2603' K.B. Ran 58 jts. of 9 5/8", 36#, J-55, new LS casing and set @ 2603' K. B. Howco cemented w/950 sks. of Class "C" Lite containing 1/4#/sk. flocele + 8#/sk. salt followed by 200 sks. of Class "C" Neet cement containing 2% CaCl₂. Plug down to 2557' @ 6:15 P.M. MST 2-7-93. Circulated 50 sacks to pit. Lead slurry weighed 13.8#/gal. and yield was 1.6 cu. ft./sk. Slurry volume was 1520 cu. ft. Tail slurry weighed 14.8#/gal and yield was 1.36 cu. ft./sk. Slurry volume was 268 cu. ft. Total slurry volume was 1,754 cu. ft. Compressive strength for tail slurry is 1350 psi in 12 hrs. @ 70° F. Estimated formation temp. is 75° F, estimated slurry temp. was 72° F. WOC 12 hrs. NU BOP and pressure tested blind and pipe rams, and casing to 1,000# for 30 min. w/rig pump. All held 0. K.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Bill Pierce

TITLE Drilling Superintendent

DATE 2/8/93

505

TYPE OR PRINT NAME

Bill Pierce

TELEPHONE NO. 393-5905

(his space for State Use)

ORIGINAL SIGNED BY

MIKE WILLIAMS

SUPERVISOR, DISTRICT II

APPROVED BY

TITLE

DATE

FEB 15 1993

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MAR 24 1993

O. C. D.

WELL API NO. 30-015-27286
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. E-379-4
7. Lease Name or Unit Agreement Name Chalk Bluff "36" State
8. Well No. 1
9. Pool name or Wildcat Illinois Camp Morrow, North
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3635' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	2. Name of Operator Mewbourne Oil Company
3. Address of Operator Box 5270 Hobbs, New Mexico 88241	4. Well Location Unit Letter M : 990 Feet From The West Line and 660 Feet From The South Line Section 36 Township 17S Range 27E NMPM Eddy County
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3635' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>
	OTHER: <input type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

2-24-93: Drilling 8 3/4" production hole. Lost complete returns @ 8250'. Spotted mud pills and spotted 150 sack cement plug. Regained partial returns.
3-5-93: Drilled to 9289'. Ran 215 joints of new 26#, N-80, 7" API casing and set @ 9253'. Casing stuck 36' off of bottom. Cemented 1st stage by Howco w/535 sacks of Class "H" containing 3% KCL + 1% Halad 322 + 5#/sk. Gilsonite + 5#/sk. Silicalite + 10#/sk. Microbond. Opened D. V. tool @ 6654' and circulated 6 hrs. Cemented 2nd stage w/750 sacks of Class "H" Lite containing 1/4#/sk. Flocele followed by 335 sacks of Class "H" containing 8#/sk. Silicalite + 1/4#/sk. Flocele + .6% Halad 322. Plug down to 6654' @ 5:00 PM 3-5-93. Circulated 56 sacks to the pit. 1st stage cement slurry weighed 14.8#/gal. with a yield of 1.53 cu. ft./sk. Total slurry volume was 818 cu. ft. BHT by logs was 123° F. Estimated slurry temp. was 73° F. Compressive strength of cement was 2025 psi in 12 hrs. 2nd. stage lead cement slurry yield was 1.85 cu. ft./sk. @ 12.7#/gal. Yield for slurry was 1387 cu. ft. Tail cement slurry yield was 1.75 cu. ft./sk. 13.6#/gal. Yield was 586 cu. ft. Total slurry volume was 1973 cu. ft. Estimated

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Bill Pierce TITLE Drilling Superintendent DATE 3-22-93
TYPE OR PRINT NAME Bill Pierce TELEPHONE NO. 505 393-5905

(This space for State Use)

ORIGINAL SIGNED BY
MIKE WILLIAMS
SUPERVISOR, DISTRICT II

APPROVED BY

TITLE

DATE

APR 5 1993

CONDITIONS OF APPROVAL, IF ANY:

formation temp. was 100° F, estimated slurry temp. was 72° F. Compressive strength for 2nd stage lead slurry in 12 hrs. was 1600 psi and tail slurry was 1900 psi. WOC 24 hrs. Drilled out D. V. Tool, float collar, and 1/2 of shoe joint. Pressure tested casing, blind rams, and pipe rams to 2,000# for 30 min. Held O. K.

W. G. M. J. S. K. O. K.
W. G. M. J. S. K. O. K.
W. G. M. J. S. K. O. K.

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.

30-015-27286

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

E-379-4

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG A WELL TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

Mewbourne Oil Company

3. Address of Operator

P.O. Box 5270 Hobbs, New Mexico 88241

4. Well Location

Unit Letter M : 990 Feet From The West Line and 660 Feet From The South Line

Section 36

Township 17S

Range 27E

NMPM

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3635' GR

7. Lease Name or Unit Agreement Name

Chalk Bluff "36" State

8. Well No.

9. Pool name or Wildcat

Illinois Camp Morrow-North

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

☒ CEMENT JOB ☒

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

3/19/93 T.D. 6" hole @ 10,060'. Ran logs and 37 jts. of new 11.35#, N-80, 4-1/2" flush joint liner. Hung liner @ 10,057' KB. Howco cemented w/225 sks. of Class "H" containing 5% salt + 5% Halad 22-A + 5% CFR-3. Plug down to 10,012' @ 6:15 p.m. 03/19/93. Top of liner @ 8439' KB. Rig released @ 3:00 p.m. 03/20/93

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Bill Pierce

TITLE

Drilling Supt.

DATE

03/22/93

TYPE OR PRINT NAME

Bill Pierce

TELEPHONE NO.

505
393-5905

(This space for State Use)

ORIGINAL SIGNED BY

MIKE WILLIAMS

SUPERVISOR, DISTRICT II

APPROVED BY

TITLE

DATE

APR 5 1993

CONDITIONS OF APPROVAL, IF ANY:

YR 03M02JAV030
CHAP OF 30MM
100000 00000000

SEC 36 TWN 17 RGE 27

API # 30-015-27286

OPERATOR McBourne Oil Co

WELL NAME CHALK BLUFF 36 ST #1

STATE OGD TOPS AS PER MA

DATE 4-23-03

Southeastern New Mexico

T. Anhy		T. Canyon	9327
T. Salt		T. Strawn	8820
T. Salt		T. Atoka	9380
T. Yates	328	T. Miss	10040
T. 7 Rivers	464	T. Devonian	
T. Queen	1038	T. Silurian	
T. Grayburg	1360	T. Monroya	
T. San Andres	1785	T. Simpson	
T. Gloriana	3155	T. McKee	
T. Paddock		T. Ellenburger	
T. Blinberry		T. Gr. Wash	
T. Tubb	4025	T. Delaware Sand	
T. Drinkard	4855	T. Bone Springs	
T. Abo	5120	T. Marathon <u>2m</u>	9494
T. Wolfcamp	6702	T. " <u>2LS</u>	9674
T. Penn	8210	T.	
T. Cisco (Bough C)		T.	

Northwestern New Mexico

T. Ojo Alamo		T. Penn. "B"	
T. Kirtland-Fruitland		T. Penn. "C"	
T. Picomedi Cliffs		T. Penn. "D"	
T. Cliff House		T. Leadville	
T. Menefee		T. Madison	
T. Point Lookout		T. Elbert	
T. Mancos		T. McCracken	
T. Gallup		T. Ignacio Otine	
Base Greenhorn		T. Granite	
T. Dakota		T.	
T. Morrison		T.	
T. Todillo		T.	
T. Escalada		T.	
T. Wingate		T.	
T. Chinle		T.	
T. Permian		T.	
T. Penn "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet
 No. 2, from _____ to _____ feet
 No. 3, from _____ to _____ feet

REMARKS:



KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 505/746-2719
ROSWELL, NM ARTESIA, NM

RECEIVED

APR 15 1993

C. L. D.

March 19, 1993

Mewbourne Oil Company
P.O. Box 5270
Hobbs, N.M. 88240

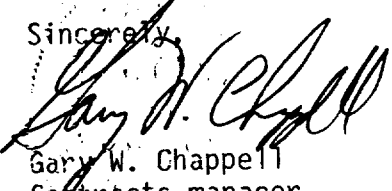
RE: Chalk Bluff "36" State #1

Gentlemen:

The following is a Deviation Survey on the above referenced well located in Eddy County, New Mexico.

424' - 3/4°	4197' 2 3/4°	5411' - 3°	6415' - 2 3/4°
920' - 3/4°	4290' - 2 3/4°	5505' - 3°	6915' - 1 3/4°
1391' - 1°	4384' - 2 1/2°	5599' - 2 1/2°	7322' - 1 12/°
1891' - 1 1/4°	4477' - 2 3/4°	5693' - 3°	7824' - 1 1/4°
2396' - 1 3/4°	4572' - 2 1/2°	5787' - 2 1/2°	8274' - 1 1/4°
2600' 2 1/4°	4664' - 2 1/4°	5882' - 3°	8702' - 1 1/2°
2779' - 2°	4758' - 2°	5976' - 4°	8973' - 1 1/2°
3193' - 1 3/4°	4851' - 2 1/2°	6039' - 4°	9289' - 1 1/2°
3688' - 2 1/2°	4943' - 3 1/4°	6070' - 4°	9388' - 1 3/4°
3814' - 2 3/4°	5036' - 3°	6132' - 3 3/4°	9833' - 2 1/2°
3907' - 2 3/4°	5129' - 3 1/4°	6195' - 4°	10060' - 2 1/2° T.D.
4001' - 2 1/2°	5223' - 3°	6258' - 3 1/4°	
4096' - 2 3/4°	5317' - 2 3/4°	6320' - 3°	

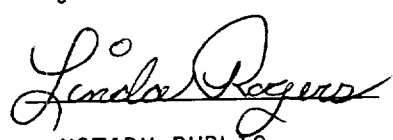
Sincerely,


Gary W. Chappell
Contracts manager
STATE OF NEW MEXICO }
COUNTY OF CHAVES)

The foregoing was acknowledged before me this 19th day of March 1993 by
Gary W. Chappell.

MY COMMISSION EXPIRES

October 07, 1996


NOTARY PUBLIC

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

APR 15 1993

Form C-100
Revised 1-1-8

CLM
BPM
ST

WELL API NO.
30-015-27200

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
E-379-4

WELL COMPLETION OR RECOMPLETION REPORT

1a. Type of Well: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____

b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER _____

2. Name of Operator
Mewbourne Oil Company

3. Address of Operator
P.O. Box 5270 Hobbs, New Mexico 88241

4. Well Location
Unit Letter M: 990 Feet From The West Line and 660 Feet From The South Line
Section 36 Township 17S Range 27E NMPM Eddy County

10. Date Spudded 02/02/93 11. Date T.D. Reached 03/17/93 12. Date Compl. (Ready to Prod.) 03/30/93

13. Elevations (DF & RKB, RT, GR, etc.) 3650' KB 3635' GR 14. Elev. Casinghead 3635' GR

15. Total Depth 10,060' 16. Plug Back T.D. 10,012' 17. If Multiple Compl. How Many Zones? 2 18. Intervals Drilled By Rotary Tools ☒ Cable Tools _____

19. Producing Interval(s), of this completion - Top, Bottom, Name 9842'-9886'; Lower Morrow 20. Was Directional Survey Made Yes

21. Type Electric and Other Logs Run SDI-DSN, DII-MSFL-GR, Sonic, CBL 22. Was Well Cored No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#/ft.	399'	17-1/2"	530 sx. Class "C"	Circulated
9-5/8"	36#/ft.	2603'	12-1/4"	1150 sx. Class "C"	Circulated
7"	26#/ft.	9253'	8-3/4"	1620 sx. Class "H"	Circulated

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4-1/2"	8439'	10,057'	225 sx.	

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8-2-3/8"	9803'	9702'

26. Perforation record (interval, size, and number)

Interval	Size	Number
9842'-9856'	14'	4 spf 49 holes
9864'-9886'	22'	4 spf 80 holes

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28. PRODUCTION

Date First Production 03/30/93 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Producing

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
03/31/93	24 Hours	1/4"		10	1500	0	150 MCF/BBL

Flow Tubing Pres.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
1500#	Packer		10	1500	0	55.0

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold Test Witnessed By Erick W. Nelson

30. List Attachments Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Erick W. Nelson Printed Name Erick W. Nelson Title Engineer Date 04/05/93

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____	T. Canyon _____	8328'
T. Salt _____	T. Strawn _____	8822'
B. Salt _____	T. Atoka _____	9380'
T. Yates _____	T. Miss _____	10040'
T. 7 Rivers _____	T. Devonian _____	
T. Queen _____	T. Silurian _____	
T. Grayburg _____	T. Montoya _____	
T. San Andres _____	T. Simpson _____	
T. Glorieta _____	T. McKee _____	
T. Paddock _____	T. Ellenburger _____	
T. Blinberry _____	T. Gr. Wash _____	
T. Tubb _____	T. Delaware Sand _____	
T. Drinkard _____	T. Bone Springs _____	
T. Abo _____	T. Morrow Lime _____	9494'
T. Wolfcamp _____	T. Morrow Clastics _____	9674'
T. Penn _____	T. _____	
T. Cisco (Bough C) _____	T. _____	

Northwestern New Mexico

T. Ojo Alamo _____	T. Penn. "B" _____
T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Pictured Cliffs _____	T. Penn. "D" _____
T. Cliff House _____	T. Leadville _____
T. Menefee _____	T. Madison _____
T. Point Lookout _____	T. Elbert _____
T. Mancos _____	T. McCracken _____
T. Gallup _____	T. Ignacio Otzte _____
Base Greenhorn _____	T. Granite _____
T. Dakota _____	T. _____
T. Morrison _____	T. _____
T. Todilto _____	T. _____
T. Entrada _____	T. _____
T. Wingate _____	T. _____
T. Chinle _____	T. _____
T. Permian _____	T. _____
T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 9842' to 9856' No. 3, from _____ to _____
 No. 2, from 9864' to 9886' No. 4, from _____ to _____

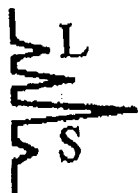
IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from None to _____ feet
 No. 2, from _____ to _____ feet
 No. 3, from _____ to _____ feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0'	1600'	1600'	Redbed & Anhydrite				
1600'	6700'	5100'	Dolomite Sandston				
6700'	8200'	1500'	Limestone & Shale				
8200'	8600'	400'	No Returns				
8600'	9700'	1100'	Lime & Shale				
9700'	9900'	200'	Sand & Shale				
9900'	10060'	160'	Shale				



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Company
Attention: Mr. Jay Prudhomme
P. O. Box 5270
Hobbs, New Mexico 88241

SAMPLE
IDENTIFICATION: Chalk Bluff 36 State #1
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

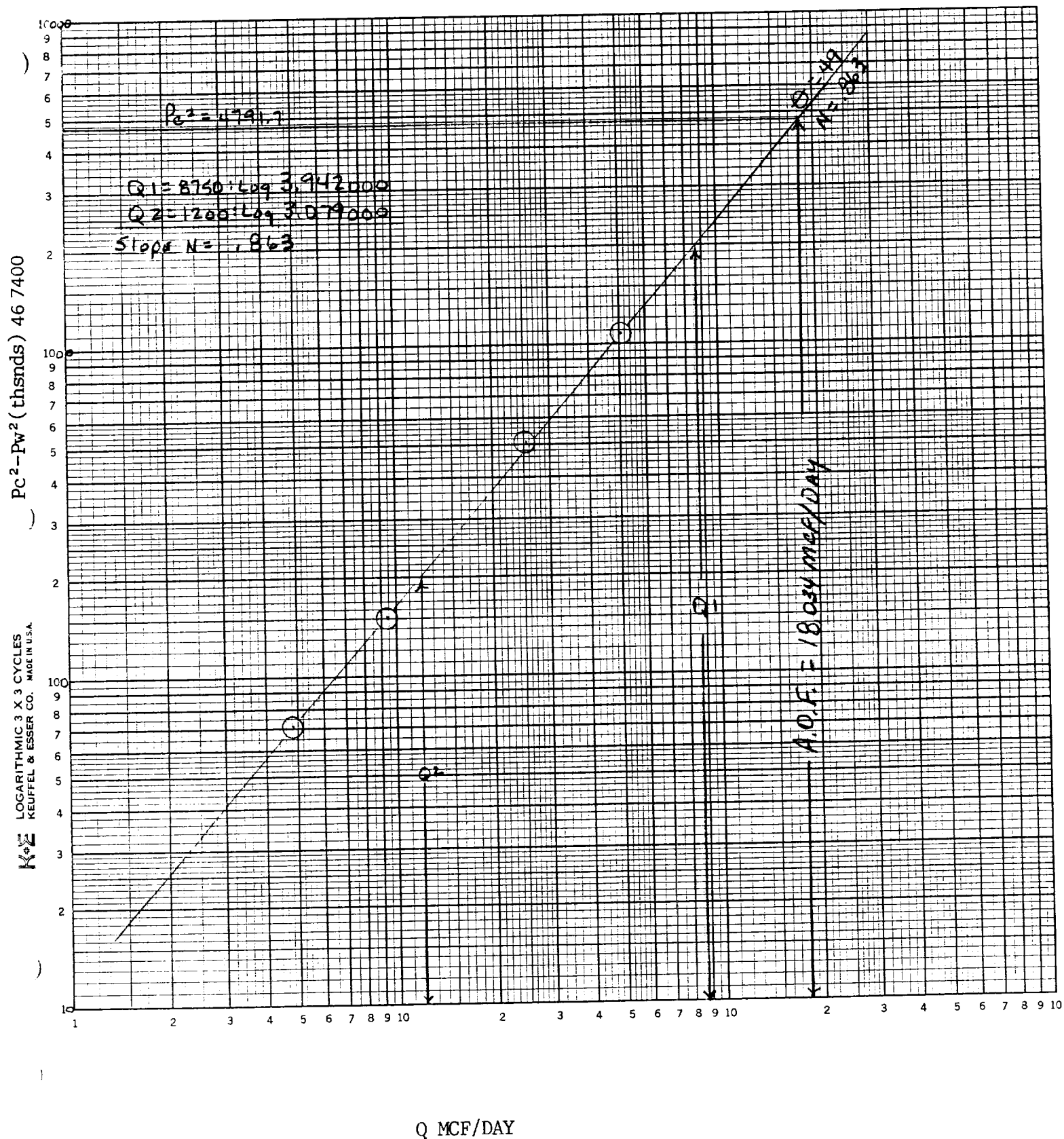
SAMPLE DATA:	DATE SAMPLED:	05-18-93	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	05-18-93	SAMPLED BY:	
	PRESSURE - PSIG		ANALYSIS BY:	Vickie Walker
	SAMPLE TEMP. °F			
	ATMOS. TEMP. °F			

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.41	
Carbon Dioxide (CO2)	0.41	
Methane (C1)	88.13	
Ethane (C2)	7.02	1.866
Propane (C3)	2.44	0.669
I-Butane (IC4)	0.31	0.102
N-Butane (NC4)	0.59	0.184
I-Pentane (IC5)	0.19	0.070
N-Pentane (NC5)	0.15	0.055
Hexane (C6)	0.35	0.150
Heptanes Plus (C7+)	0.00	0.000
	100.00	3.096
BTU/CU.FT.		
AT 14.696 DRY	1135	MOLECULAR WT. 18.6894
AT 14.650 DRY	1132	
AT 14.650 WET	1109	26# GASOLINE - 0.337
AT 15.025 DRY	1161	
AT 15.025 WET	1166	
SPECIFIC GRAVITY -		
CALCULATED	0.645	
MEASURED		

MEWBOURNE OIL COMPANY
 Chalk Bluff 36 State, Well #1
 36-17S-27E
 Eddy County, New Mexico
 5-18-93



Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED Form C-122

Revised 4-1-91

MAY 24 1992

G.L.D.

File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL COMPANY						Lease or Unit Name CHALK BLUFF 36 STATE					
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 5-18-93		Well No. 1			
Completion Date 3-18-93		Total Depth 10060		Plug Back TD 10009		Elevation 3635		Unit Ltr. Sec. TWP - Rge. 36-17S-27E			
Csg. Size 4 1/2	Wt. 11.60	d 4.052	Set At 10012	Perforations: From: 9842 To: 9856				County EDDY			
Tbg. Size 2 3/8	Wt. 6.5	d 2.441	Set At 8024	Perforations: From: 9864 To: 9886				Pool NORTH ILLINOIS			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 9688				Formation MORROW			
Producing Thru tbq.		Reservoir Temp. °F		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection Transwestern			
L 9864	H 9864	Gg .645	% CO ₂ .41	% N ₂ .41	% H ₂ S	Prover		Meter Run 3.068	Taps Flg.		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						2140		Pkr.		
1.	3.068	X 1.000	425	15.00	105	2125		"		60 Min
2.	3.068	X 1.000	425	57.00	90	2100		"		60 Min
3.	3.068	X 1.750	425	38.00	82	1990		"		60 Min
4.	3.068	X 2.000	440	74.00	75	1800		"		60 Min
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	4.789	81.07	438.2	.9594	1.245	1.034	480
2.	4.789	158.04	438.2	.9680	1.245	1.038	947
3.	15.61	129.04	438.2	.9795	1.245	1.039	2552
4.	21.32	183.13	453.2	.9859	1.245	1.047	5018
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.654	565	1.519	.935	62.479	
2.	.654	550	1.478	.929	53	
3.	.654	542	1.457	.926	.645	XXXXXXXXXX
4.	.676	535	1.438	.913	670	669 P.S.I.A.
5.					372	388 R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		2172.6	4720.2	71.5
2.		2153.7	4638.4	153.3
3.		2068.9	4280.3	511.4
4.		1924.4	3703.3	1088.4
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.403$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 18.034$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.594$

Absolute Open Flow 18,034 Mcfd @ 15.025		Angle of Slope Θ 49	Slope, n .863
--	--	-----------------------------------	----------------------

Remarks: **6 BBLs of 53 Gravity Oil During Test**
Calculated with B.H.P. Instruments.

Approved By Division	Conducted By: PRO WELL TESTERS	Calculated By: KS	Checked By: KS
----------------------	--	-----------------------------	--------------------------

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED
Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

APR 15 1993

C.C.D.

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Mewbourne Oil Company		Well API No. 30-015-27286
Address P.O. Box 5270 Hobbs, New Mexico 88241		
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)		
New Well <input checked="" type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator		

II. DESCRIPTION OF WELL AND LEASE

Lease Name Chalk Bluff "36" State	Well No. 1	Pool Name, Including Formation N. Illinois Camp Morrow	Kind of Lease State, Fixed Lease	Lease No. E-379-4
Location Unit Letter <u>M</u> : <u>990</u> Feet From The <u>West</u> Line and <u>660</u> Feet From The <u>South</u> Line Section <u>36</u> Township <u>17S</u> Range <u>27E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) Oil Tender Dept. Box 702068 Tulsa, Ok 74170-2068					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1188 Houston, Texas 77251					
If well produces oil or liquids, give location of tanks.	Unit <u>M</u>	Sec. <u>36</u>	Twp. <u>17S</u>	Rge. <u>27E</u>	Is gas actually connected? Yes	When? 03/30/93

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 02/02/93	Date Compl. Ready to Prod. 03/30/93		Total Depth 10,060'			P.B.T.D. 10,012'		
Elevations (DF, RKB, RT, GR, etc.) 3650' KB 3635' GR	Name of Producing Formation Morrow		Top Oil/Gas Pay 9,842'			Tubing Depth 9,803'		
Perforations 9842'-9856', 9864'-9886'						Depth Casing Shoe		
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		
17-1/2"	13-3/8"		399'			530 sx. Class "C"		
12-1/4"	9-5/8"		2603'			1150 sx. Class "C"		
8-3/4"	7"		9253'			1620 sx. Class "C"		
6"	4-1/2" Liner		10057'			225 sx. Class "H"		

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.) Post ID-2 4-30-93 comp + BR	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D 1500	Length of Test 24 Hours	Bbls. Condensate/MMCF 6.6	Gravity of Condensate 55
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 2700#	Casing Pressure (Shut-in) Packer	Choke Size 1/4"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature Erick W. Nelson Engineer
Printed Name Erick W. Nelson Title
Date 04/02/93 Telephone No. (505) 393-5905
Date April 5, 1993

OIL CONSERVATION DIVISION

Date Approved APR 26 1993

By Mr. W. Williams
Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☒ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Mewbourne Oil Company P. O. Box 5270 Hobbs, NM 88241		² OGRID Number 14744
		³ API Number 30 - 0 15-27286
⁴ Property Code 7871	⁵ Property Name Chalk Bluff "36" State	⁶ Well No. 1

⁷Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
M	36	17S	27E		660	South	990	West	Eddy

⁸Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
WC									
⁹ Proposed Pool 1 Atoka Gas Pool						¹⁰ Proposed Pool 2			

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3635
¹⁶ Multiple No	¹⁷ Proposed Depth 10060	¹⁸ Formation Atoka	¹⁹ Contractor Key Energy Services	²⁰ Spud Date 09-15-99

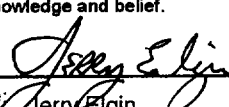
²¹Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	399	530	Surface
12-1/4"	9-5/8"	36#	2603	1150	Surface
8-3/4"	7"	26#	9253	1620	Surface
6"	4-1/2" Liner	11.6#	10057	225	TOL @ 8439'

²²Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

- 1) Temporarily abandon Morrow perforations 9842-9856' and 9864-9886' by setting a cast iron bridge plug at 9800' and dumping 20' cement plug on top.
- 2) Test the Atoka Formation through perforations 9442-9446' and 9452-9464'.
- 3) File for commingling permit if well conditions warrant.

6" 5000 psi WP dual hydraulic BOP's will be utilized on this project. Any produced fluids will be diverted through a 5000 psi WP adjustable choke to a steel tank via 2" steel lines

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature:  Printed name: Jerry Elgin Title: District Manager	OIL CONSERVATION DIVISION Approved By: ORIGINAL SIGNED BY TIM W. GUM Title: DISTRICT II SUPERVISOR Approval Date: 8-17-99 Expiration Date: 8-17-00	
--	--	--

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-27286	2 Pool Code	3 Well Name North Illinois Camp Atoka East 314
4 Property Code	5 Property Name Chalk Bluff "36" State	6 Well Number 1
7 OGRID No. 14744	8 Operator Name Mewbourne Oil Company	9 Elevation 3635

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
M	36	17S	27E		660	South	990	West	Eddy

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
12 Dedicated Acres 320.00	13 Joint or Infill	14 Consolidation Code C	15 Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16					17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i> Signature Jerry Elgin Printed Name District Manager Title 08-13-99 Date
					18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> 10-19-92 Date of Survey Signature and Seal of Professional Surveyer: Original signed by Herschel Jones Certificate Number



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

ADMINISTRATIVE ORDER DHC-2464

Mewbourne Oil Company
P.O. Box 7698
Tyler, Texas 75711

Attention: Mr. K. M. Calvert

*Chalk Bluff "36" State No. 1
API No. 30-015-27286
Unit M, Section 36, Township 17 South, Range 27 East, NMPM,
Eddy County, New Mexico.
Wildcat-Atoka (Gas -N/A), and
North Illinois Camp-Morrow (Gas - 78890) Pools*



Dear Mr. Calvert:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such amendment pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated gas pool as printed in the Division's Southeast Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

Wildcat-Atoka Gas Pool	Oil-100%	Gas-73%
North Illinois Camp-Morrow Gas Pool	Oil-0%	Gas-27%

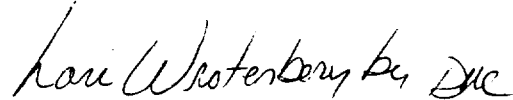
78890

REMARKS: The operator shall notify the Artesia District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 21st day of September, 1999.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



LORI WROTENBERY
Director

S E A L

LW/DRC

cc: Oil Conservation Division - Artesia /
State Land Office-Oil & Gas Division

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.
30-015-27286

Indicate Type of Lease
STATE ☒ FEE ☐

State Oil & Gas Lease No.
E-379-4

Lease Name or Unit Agreement Name
Chalk Bluff 36 State

Well No.
1

Pool name or Wildcat
Wildcat Atoka

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

Type of Well:
OIL WELL ☐ GAS WELL ☒ OTHER

Name of Operator
Mewbourne Oil Company

Address of Operator
PO Box 5270, Hobbs, New Mexico 88240

Well Location
Unit Letter M 660 Feet From The South Line and 990 Feet From The West Line
Section 36 Township 17s Range 27e NMPM Eddy County

Elevation (Show whether DF, RKB, RT, GR, etc.)
3625 GL

11

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: Test Atoka ☒

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

9-21-99...POOH w/ Tbg.
9-22-99...Set RBP over Morrow perms. Perforate Atoka perms @ 9466-84. GIH w/ Pkr & tbg.
9-24-99...Acidize new Atoka perms w/ 3000 gals 7 1/2% HCL adding N2 w/ Ball Sealers. Swab & Flow test.
10-16-99...Frac Atoka perms w/ 30,000 gals 70 Quality Foam using 10,000 lbs 20/40 Interprop. Flow back & clean-up.
10-19-99...Turn to sales.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE Consultant DATE 11-01-99
TYPE OR PRINT NAME NM Young TELEPHONE NO. 393-5905

(This space for State Use)

APPROVED BY [Signature] TITLE District Supervisor DATE 11-5-99

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

17
BLW
BOM
SLL

Form C-105
Revised 1-1-89

WELL API NO.
30-015-27286

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
E-379-4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐
b. Type of Completion:
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☒ DIFF RESVR ☐ OTHER ☐

2. Name of Operator
Mewbourne Oil Company

3. Address of Operator
P. O. Box 5270, Hobbs, NM 88241

7. Lease Name or Unit Agreement Name

Chalk Bluff "36" State

8. Well No.
1

9. Pool name or Wildcat
Wildcat Atoka Gas Pool SE Logan Draw
Hokk9

4. Well Location
Unit Letter M 660 Feet From The South Line and 990 Feet From The West Line
Section 36 Township 17S Range 27E NMPM Eddy County

10. Date Spudded 02/03/93
11. Date T.D. Reached 03/19/93
12. Date Compl. (Ready to Prod.) 09/24/99
13. Elevations (DF & RKB, RT, GR, etc.) 3635' GR
14. Elev. Casinghead 3635'

15. Total Depth 10060'
16. Plug Back T.D. 9780'
17. If Multiple Compl. How Many Zones? NA
18. Intervals Drilled By Rotary Tools ☒ Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name
9466-9470' & 9476-9484', Atoka
20. Was Directional Survey Made No

21. Type Electric and Other Logs Run
DIL
22. Was Well Cored No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	399'	17-1/2"	530 sks Class C	None
9-5/8"	36#	2603'	12-1/4"	1150 sks Class C	None
7"	26#	9253'	8-3/4"	1620 sks Class H	None

24. LINER RECORD				25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
4-1/2"	8439'	10057'	225		2-3/8"	9407'

26. Perforation record (interval, size, and number)		27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
9466-9484', 0.44" entry hole diameter, 56 holes total		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
		9466-9484'	Fracture stimulated with 10000# IP 20/40

28. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
09/24/99		Flowing				Producing	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
10/18/99	24	24/64"		2	317	2	158500
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	
45	Packer		2	317	2	63.8	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold
Test Witnessed By
Mr. Miller

30. List Attachments

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Jerry Elgin Printed Name Jerry Elgin Title District Manager Date 10/19/99

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies
☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mewbourne Oil Company P. O. Box 5270 Hobbs, NM 88241		² OGRID Number 14744
		³ Reason for Filing Code Plug Back
⁴ API Number 30 - 0 15-27286	⁵ Pool Name Wildcat Atoka Gas Pool Logan Draw, Atoka, SE	⁶ Pool Code 96979
⁷ Property Code 7871	⁸ Property Name Chalk Bluff "36" State	⁹ Well Number 1

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	36	17S	27E		660	South	990	West	Eddy

¹¹ Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Lse Code	¹³ Producing Method Code Flowing	¹⁴ Gas Connection Date 10/24/94	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
138848	Amoco Pipeline Company Tulsa, OK	1923810	O	
000990	Transwestern Pipeline Company Houston, TX	2819523	G	

IV. Produced Water

²³ POD 1923850	²⁴ POD ULSTR Location and Description
------------------------------	--

V. Well Completion Data

²⁵ Spud Date 02/03/93	²⁶ Ready Date 09/24/99	²⁷ TD 10060	²⁸ PBTD 9780	²⁹ Perforations 9466-9484'	³⁰ DHC, DC, MC
³¹ Hole Size 17-1/2"	³² Casing & Tubing Size 13-3/8"	³³ Depth Set 399'	³⁴ Sacks Cement Post ID-2 530 10-29-99 1150 comp Atk 1620 225		

VI. Well Test Data

³⁵ Date New Oil 09/24/99	³⁶ Gas Delivery Date 09/24/99	³⁷ Test Date 10/18/99	³⁸ Test Length 24 hours	³⁹ Tbg. Pressure 45	⁴⁰ Csg. Pressure Packer
⁴¹ Choke Size 24/64"	⁴² Oil 2	⁴³ Water 2	⁴⁴ Gas 317	⁴⁵ AOF	⁴⁶ Test Method Sold

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Jerry Elgin</i> Printed name: Jerry Elgin Title: District Manager Date: 10/20/99		OIL CONSERVATION DIVISION ORIGINAL SIGNED BY TIM W. GUM DISTRICT II SUPERVISOR Approved by: <i>B60</i> Title: Approval Date: 10-27-99 Phone: 505-393-5905	
---	--	---	--

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator			
Previous Operator Signature	Printed Name	Title	Date

COMPANY : MEMBOURNE OIL CO. LEASE : C. B. 30 ST. WELL NO. : 1 PC = 1398.2 PC2 = 1955.0 *
 UNIT : M SECTION : 36 TOWNSHIP : 17 *
 L : 9385 H : 936 L/H : 1 G/GMIX : 0.696 Pt2 = 1774.8 Pw = 1332.3 *
 %CO2 : 4.586 %N2 : 0.788 H2S : DATE : 10 27 99 1593.1 1262.5 *
 d : 1.995 Fr : 0.018231 GH : 6532.0 RANGE : 27 1388.2 1178.8 *
 1141.1 1069.3 *

VOL 1 : 89 PSIA 1 : 1332.2 RESV.TEMP 167.9 Pc2-Pw2= 180.0 Pw2 = 1775.0 *
 VOL 2 : 156 PSIA 2 : 1262.2 361.1 1593.9 *
 VOL 3 : 212 PSIA 3 : 1178.2 SHUT-IN PR= 1398.2 565.5 1389.5 *
 VOL 4 : 276 PSIA 4 : 1068.2 811.6 1143.4 *

PCR : 652
 TCR : 381
 n = 0.747

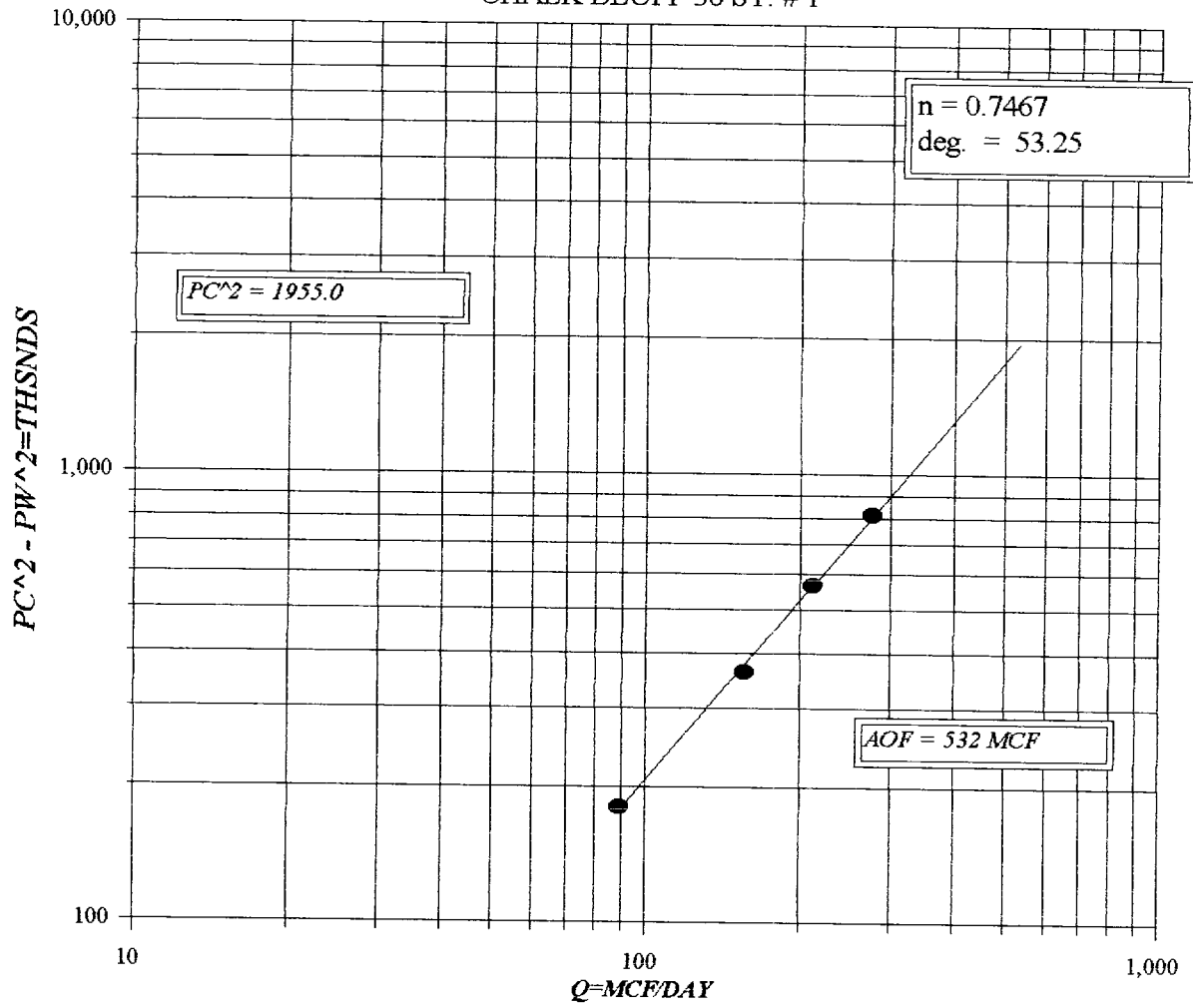
LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1 QM	0.089	0.089	0.156	0.156	0.212	0.212	0.276	0.276	
2 TW	534	534	534	534	534	534	534	534	
3 Ts	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	
4 T	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	
PR (est)	2.04		1.94		1.81		1.64		
5 Z(est)	0.809	0.793	0.815	0.799	0.824	0.807	0.835	0.819	
6 TZ	469.9	460.5	473.7	464.1	478.5	468.9	485.3	476.0	
7 GH/TZ	13.901	14.185	13.790	14.074	13.650	13.929	13.458	13.724	
8 eS	1.684	1.702	1.677	1.695	1.668	1.686	1.656	1.673	
9 l-e-S	0.406	0.413	0.404	0.410	0.401	0.407	0.396	0.402	
10 Pt	1332.2	1332.2	1262.2	1262.2	1178.2	1178.2	1068.2	1068.2	
11 Pt2 /1000	1774.8	1774.8	1593.1	1593.1	1388.2	1388.2	1141.1	1141.1	
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	
13 Fc=FrTZ	8.567	8.395	8.636	8.462	8.724	8.549	8.848	8.677	
14 FcQm	0.76	0.75	1.35	1.32	1.85	1.81	2.44	2.39	
15 L/H(FcQm)	0.6	0.6	1.8	1.7	3.4	3.3	6.0	5.7	
16 Fw	0.236154	0.230308	0.732800	0.714522	1.370485	1.336601	2.363611	2.3073869	
17 Pw2	1775.0	1775.0	1593.9	1593.9	1389.5	1389.5	1143.4	1143.4	
18 Ps2	2989.4	3021.4	2673.2	2701.8	2318.3	2342.6	1894.0	1912.9	
19 Ps	1729.0	1738.2	1635.0	1643.7	1522.6	1530.6	1376.2	1383.1	
20 P	1530.6	1535.2	1448.6	1453.0	1350.4	1354.4	1222.2	1225.6	
21 Pr	2.35	2.35	2.22	2.23	2.07	2.08	1.87	1.88	
22 Tr	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	
23 Z	0.793	0.792	0.799	0.799	0.807	0.807	0.819	0.819	

Pc2/(Pc2-Pw2) = 10.862
 5.414
 3.457
 2.409 ✓
 [Pc2/Pc2-Pw2]n = 5.936
 3.529
 2.525
 1.928 ✓
 AOF= Q 0.528
 0.551
 0.535
 0.532 ✓



MEWBOURNE OIL COMPANY

CHALK BLUFF 36 ST. # 1



Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <input checked="" type="checkbox"/> Mewbourne Oil Company					Lease or Unit Name Chalk Bluff 36 State				
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 10/27/99		Well No. 1		
Completion Date 10/16/99		Total Depth 10060		Plug Back TD 9780		Elevation 3563' GL		Unit Ltr. - Sec. - TWP - Rge. M 36 17s 27e	
Csg. Size 4 1/2	Wt. 11.35	d 4.000	Set At 10060	Perforations: From: 9466 To: 9484			County Eddy		
Tbg. Size 2 3/8	Wt. 4.6	d 1.995	Set At 9385	Perforations: From: Open To: Ended			Pool SE Logan Draw		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9385		Formation Atoka			
Producing Thru Tbg		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Elk Horn	
L 9385	H 9385	Gg 0.696	% CO ₂ 4.586	% N ₂ 0.788	% H ₂ S	Prover	Meter Run 3.068	Taps FLG	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice X Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						1385		PACKER		24 hrs
1.	3.068	x 0.875	28	10.00	60	1319		"		1 hr
2.	3.068	x 0.875	27	32.00	70	1249		"		1 hr
3.	3.068	x 0.875	27	60.00	77	1165		"		1 hr
4.	3.068	x 0.875	29	95.00	68	1055		"		1 hr
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	3.650	20.30	41.2	1.000	1.199	1.004	89
2.	3.650	35.87	40.2	.9905	1.199	1.004	156
3.	3.650	49.11	40.2	.9840	1.199	1.004	212
4.	3.650	63.32	42.2	.9924	1.199	1.004	276
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry Gas</u> Mcf/bbl.		
1.	.06	520	1.36	.993	A.P. I. Gravity of Liquid Hydrocarbons <u>Dry</u> Deg.		
2.	.06	530	1.39	.993	Specific Gravity Separator Gas <u>.696</u> XXXXXXXXXX		
3.	.06	537	1.40	.993	Specific Gravity Flowing Fluid <u>XXXXXX</u>		
4.	.06	528	1.38	.993	Critical Pressure * <u>652</u> P.S.I.A. P.S.I.A.		
5.					Critical Temperature * <u>381</u> R R		

P _c <u>1398.2</u>		P _c ² <u>1955.00</u>		1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{2.409}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.928}$	
NO.	P _t ²	P _w	P _w ²	P _c ² · P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{.532}$		
1.		1332.3	1775.0	180.0			
2.		1262.5	1593.9	361.1			
3.		1178.8	1389.5	565.5			
4.		1069.3	1143.4	811.6			
5.							

Absolute Open Flow <u>532</u> Mcfd @ 15.025	Angle of Slope θ <u>53.25</u>	Slope, n <u>.7467</u>
---	--------------------------------------	-----------------------

Remarks: Well produced no fluid
* Corrected to 4.586% CO₂

Approved By Division	Conducted By: Jarrel Services, Inc.	Calculated By: Bob Murray	Checked By: Bob Murray
----------------------	--	------------------------------	---------------------------



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
DISTRICT II ARTESIA
811 S. FIRST ST. ARTESIA, NM 88210
(505) 748-1283
FAX (505) 748-9720

Jennifer A. Salisbury
CABINET SECRETARY

January 28th, ~~1999~~ 2000 *mab*

Mewbourne Oil Company
P.O. Box 5270
Hobbs, NM 88241

Re: **Well Placed In Pool**

Gentlemen/Madams:

As the result of Division Order 11300, the following described gas well has been placed in the pool shown below. This change in nomenclature has been made in our files. Please change your records to reflect the proper pool name. All subsequent reports must show this nomenclature until further notice.

Logan Draw; Atoka, Southeast Gas Pool
Chalk Bluff '36' State #1
Unit M, Section 36, Township 17 South, Range 27 East, NMPM
Poolcode: 96979

Transporters are advised by copy of this letter, to change their records to reflect the pool name as established by this order, effective October 1, 1999.

Sincerely,

Bryan Arrant
District Geologist

Cc: Amoco Pipeline Company
Transwestern Pipeline Company
Santa Fe
Mae
Well File

District I
PQ Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-101

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Mewbourne Oil Company PO Box 5270 Hobbs, N.M. 88241 505-393-5905		² OGRID Number 14744
		³ API Number 30 - 015-27286
⁴ Property Code 7871	⁵ Property Name Chalk Bluff 36 State 1	⁶ Well No. 1

⁷Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
M	36	17S	28E		660	S	990	W	Eddy

⁸Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
⁹ Proposed Pool 1					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3625
¹⁶ Multiple	¹⁷ Proposed Depth 9400	¹⁸ Formation Canyon/Wolfcamp	¹⁹ Contractor TBA	²⁰ Spud Date

²¹Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC

²²Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

This well has been producing from the Morrow & Atoka formations. Mewbourne Oil Company would like to set a CIBP 100' above top perforations. Cap CIBP w/ 35' cement. Attempt a completion in the Canyon @ +/- 8550'. If results warrant, Mewbourne Oil Company would like to test the Wolfcamp @ +/- 7200'.

During operations of plugback & testing, a 7 1/16 x 3000 psi BOP w/ 2 3/8" rams & blinds will be used.

²³I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: N.M. Young

Title: District Manager

OIL CONSERVATION DIVISION

Approved By:

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

Title:

Approval Date:

AUG 29 2001

Expiration Date:

AUG 29 2002

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Geology, Minerals and Natural Resources Department

Form C-182
Revised 1-1-83

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator MEWBOURNE OIL COMPANY			Lease CHALK BLUFF 36 STATE		Well No. 1
Unit Letter M	Section 36	Township 17 SOUTH	Range 27 EAST	County NMPM EDDY	
Actual Footage Location of Well: 990 feet from the WEST line and 660 feet from the SOUTH line					
Ground level Elev. 3635	Producing Formation		Pool Illinois Camp Morrow North	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

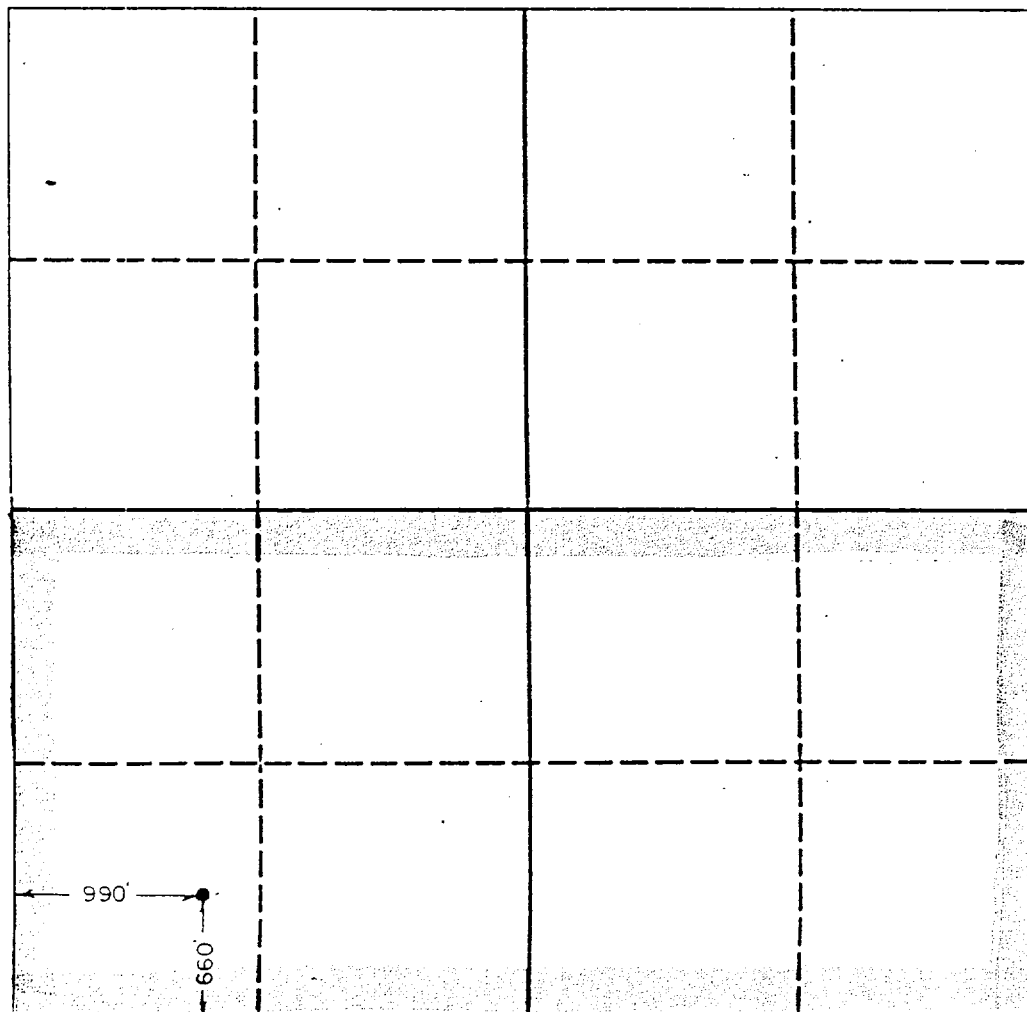
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☒ Yes ☐ No If answer is "yes" type of consolidation Communitization

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Bill Pierce

Printed Name

Bill Pierce

Position

Drilling Superintendent

Company

Mewbourne Oil Company

Date

October 27, 1992

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

10/19/92

Signature & Seal of
Professional Surveyor

[Signature]

Certificate No.

3640

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-015-27286
Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
State Oil & Gas Lease No. E-379-4
Lease Name or Unit Agreement Name Chalk Bluff 36 State
Well No. 1
Pool name or Wildcat Logan Draw Atoka

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
Name of Operator Mewbourne Oil Company /	
Address of Operator PO Box 5270, Hobbs, New Mexico 88241	
Well Location Unit Letter <u>M</u> : <u>660</u> Feet From The <u>South</u> Line and <u>990</u> Feet From The <u>West</u> Line Section <u>36</u> Township <u>17S</u> Range <u>R28E</u> NMPM <u>Eddy</u> County	
Elevation (Show whether DF, RKB, RT, GR, etc.) 3635' GL	

11

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

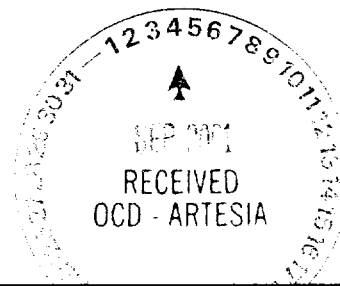
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ANBANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: PB Atoka. Test & plug off Canyon. Test & Produce Wolfcamp ☒

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

6/28/01... POOH w/ tbq. RIH w/ 4 1/2" CIBP & set @ 9400'. Dump 35' cement on plug. New PBTD @ 9365'. Test to 1000 psi. OK. Perforate Canyon @ 8528-72' (12'. 2 spf. 24 holes). Acidize w/ 2100 gals 20% Ne-Fe & ball sealers. Swab test.

7/05/01...POOH. RIH & set 7" RBP @ 8300'. Load & test to 1000 psi. OK. New PBTD @ 8300'. Perforate Wolfcamp @ 7164-7277' (29'. 2 spf. 58 holes). GIH w/ tbq. Acidize perms w/ 5000 gals 20% Ne-Fe & ball sealers. Swab test.

7/16/01...POOH w/ test equipment. Run tbq & rods & put well on production.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE N.M. Young TITLE District Manager DATE 08-24-01
TYPE OR PRINT NAME N.M. Young TELEPHONE NO. 505-393-5905

(This space for State Use)

APPROVED BY [Signature] ORIGINAL SIGNED BY **TIM W. GUM**
DISTRICT II SUPERVISOR

TITLE _____ DATE **SEP 6 2001**

CONDITIONS OF APPROVAL, IF ANY:

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all specific tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	8327.0	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	8820.0	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	9380.0	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	10040.0	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____		T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____		T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____		T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____		T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____	T. McKee _____		Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____		T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____		T. Morrison _____	T. _____
T. Tubb _____	T. Delaware Sand _____		T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____		T. Entrada _____	T. _____
T. Abo _____	T. Morrow _____	9494.0	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____		T. Chinle _____	T. _____
T. Penn _____	T. _____		T. Permain _____	T. _____
T. Cisco (Bough C) _____	T. _____		T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from to No. 3, from to
No. 2, from to No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet

No. 2, from to feet

No. 3, from to feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

Form C-105
Revised 1-1-89

CIS 1
BLM
SELD

WELL API NO.
30-015-27286

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
E-379-4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐
b. Type of Completion:
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☒ DIFF RESVR ☐ OTHER ☐

7. Lease Name or Unit Agreement Name

Chalk Bluff 36 State

2. Name of Operator
Mewbourne Oil Company

8. Well No.
1

3. Address of Operator
PO Box 5270, Hobbs, New Mexico 88241

9. Pool name or Wildcat
Logan Draw Wolfcamp

4. Well Location

Unit Letter M : 660 Feet From The South Line and 990 Feet From The West Line
Section 36 Township 17S Range 28E NMPM Eddy County

10. Date Spudded 02/03/93 11. Date T.D. Reached 03/19/93 12. Date Compl. (Ready to Prod.) 07/17/01 13. Elevations (DF & RKB, RT, GR, etc.) 3635' GL 14. Elev. Casinghead 3635'

15. Total Depth 10060 16. Plug Back T.D. 8300 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By 19. Producing Interval(s), of this completion - Top, Bottom, Name 7164-7277 20. Was Directional Survey Made No

21. Type Electric and Other Logs Run CBL, DN & DLL 22. Was Well Cored No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	399'	17 1/2"	530 sks	N/A
9 5/8"	36#	2603'	12 1/4"	1150 sks	N/A
7"	26#	9253	8 3/4"	1620 sks	N/A

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4 1/2"	8439'	10057'	225		2 7/8"	7352	TAC @ 7190'

26. Perforation record (interval, size, and number)
7164-7277'. 58 .38" diameter holes
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL 7164-7277 AMOUNT AND KIND MATERIAL USED 5000 gals 20% Ne-Fe & ball sealers

PRODUCTION

28. Date First Production 07/17/01 Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping. 2" x 1 1/2" x 24' Well Status (Prod. or Shut-in) Producing
Date of Test 07/22/01 Hours Tested 24 Choke Size N/A Prod'n For Test Period Oil - BbL. 88 Gas - MCF 88 Water - BbL. 78 Gas - Oil Ratio 1000
Flow Tubing Press. N/A Casing Pressure 35 Calculated 24-Hour Rate Oil - BbL. 88 Gas - MCF 88 Water - BbL. 78 Oil Gravity - API - (Corr.) 38

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold Test Witnessed By J. Capps

30. List Attachments
C-103 & C104.

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature [Signature] Printed Name N.M. Young Title District Manager Date 08/24/01

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies
☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mewbourne Oil Company PO Box 5270 Hobbs, New Mexico 88241		² OGRID Number 14744
		³ Reason for Filing Code Plug Back/Recompletion
⁴ API Number 30 - 0 15-27286	⁵ Pool Name Logan Draw Wolfcamp.	
⁷ Property Code 7871	⁶ Pool Code 96960	⁹ Well Number 1

II. ¹⁰ Surface Location

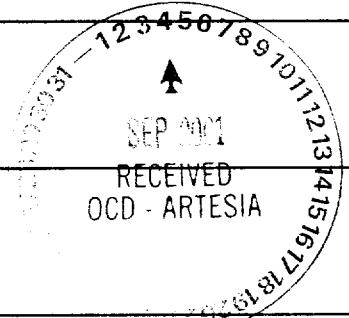
UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
	36	17S	27E		660	South	990	West	Eddy

¹¹ Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Lse Code	¹³ Producing Method Code Pumping	¹⁴ Gas Connection Date 07/17/01	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
138648	Amoco Pipeline Company Tulsa, Ok.	1923810	O	
990	Elkhorn Operating Company Artesia, NM	2829736	G	



IV. Produced Water

²³ POD 1923850	²⁴ POD ULSTR Location and Description
------------------------------	--

V. Well Completion Data

²⁵ Spud Date 02/03/93	²⁶ Ready Date 07/17/01	²⁷ TD 10060	²⁸ PBTD 8300	²⁹ Perforations 7164-7277	³⁰ DHC, DC, MC
³¹ Hole Size 17 1/2"	³² Casing & Tubing Size 13 3/8"	³³ Depth Set 399'	³⁴ Sacks Cement 530		
12 1/4"	9 5/8"	2603'	1150		
8 3/4"	7"	9253'	1620		
6 1/8"	4 1/2"	10057'	225		

VI. Well Test Data

³⁵ Date New Oil 07/17/01	³⁶ Gas Delivery Date 07/17/01	³⁷ Test Date 07/22/01	³⁸ Test Length 24	³⁹ Tbg. Pressure N/A	⁴⁰ Csg. Pressure 35
⁴¹ Choke Size N/A	⁴² Oil 88	⁴³ Water 78	⁴⁴ Gas 88	⁴⁵ AOF	⁴⁶ Test Method Pumping

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *N.M. Young*
Printed name: N.M. Young

Title: District Manager

Date: 08/24/01 Phone: 505-393-5905

Approved by:

OIL CONSERVATION DIVISION
ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

Title:

Approval Date:

SEP 6 2001

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

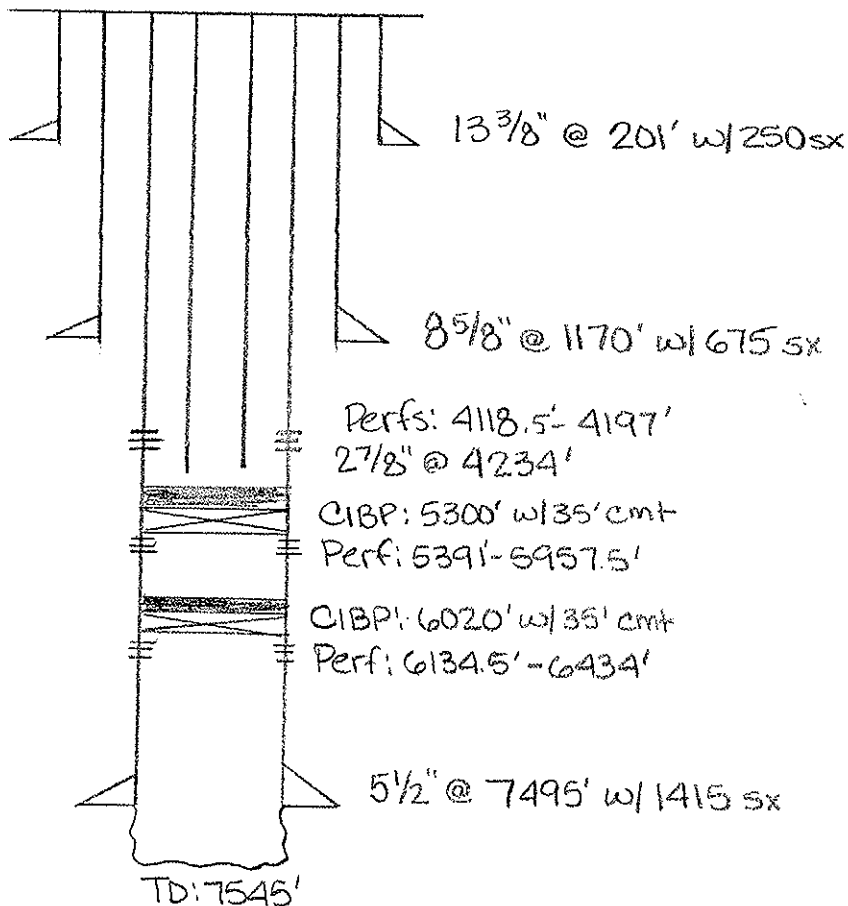
SUBSURFACE

NAVAJO REFINING COMPANY, L.L.C.
Map ID No. 117
Artificial Penetration Review

OPERATOR Mack Energy Corp.
LEASE State H
WELL NUMBER 2
DRILLED 1/11/08
PLUGGED NA

STATUS Active
LOCATION Sec. 2 - T18S-R27E
MUD FILLED BOREHOLE NA
TOP INJECTION ZONE ~ - 3615'
API NO. 30-015-35814

REMARKS:



MAP ID NO. 117

**MACK ENERGY CORPORATION
STATE H NO. 2**

API NO. 30-015-35814

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MACK ENERGY CORP PO BOX 960 ARTESIA , NM 88211		2. OGRID Number 13837
4. Property Code 303847		3. API Number 30-015-35814
5. Property Name STATE H		6. Well No. 002

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	2	18S	27E	H	2063	N	441	E	EDDY

8. Pool Information

CHALK BLUFF; WOLFCAMP GAS	96963
---------------------------	-------

Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3590
14. Multiple N	15. Proposed Depth	16. Formation Wolfcamp	17. Contractor	18. Spud Date 9/20/2007
Depth to Ground water 50		Distance from nearest fresh water well		Distance to nearest surface water

Pit: Liner: Synthetic ☐ mls thick Clay ☐ Pit Volume: bbls Drilling Method:
 Closed Loop System ☒ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	360	400	0
Prod	7.875	5.5	17	7313	1300	0

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill a 12 1/4 hole to 360', run 8 5/8 casing and cement. Drill a 7 7/8 hole to 7313', run 5 1/2 casing and cement. Note: On production string a fluid caliper will be run and will figure cement with 25% excess, attempt to circ.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/> a general permit <input type="checkbox"/> or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Jerry Sherrell	Approved By: Bryan Arrant
Title: Production Clerk	Title: Geologist
Email Address: jerrys@mackenergycorp.com	Approved Date: 9/19/2007 Expiration Date: 9/19/2008
Date: 9/11/2007 Phone: 505-748-1288	Conditions of Approval Attached

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(505) 393-6161 Fax:(505) 393-0720

District II
 1301 W. Grand Ave., Artesia, NM 88210
 Phone:(505) 748-1283 Fax:(505) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
 Permit 60506

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-35814	2. Pool Code 96963	3. Pool Name CHALK BLUFF; WOLFCAMP GAS
4. Property Code 303847	5. Property Name STATE H	6. Well No. 002
7. OGRID No. 13837	8. Operator Name MACK ENERGY CORP	9. Elevation 3590

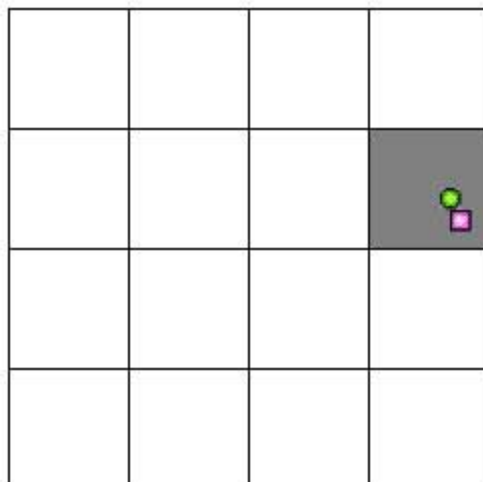
10. Surface Location

UL - Lot H	Section 2	Township 18S	Range 27E	Lot Idn	Feet From 2063	N/S Line N	Feet From 441	E/W Line E	County EDDY
---------------	--------------	-----------------	--------------	---------	-------------------	---------------	------------------	---------------	----------------

11. Bottom Hole Location If Different From Surface

UL - Lot H	Section 2	Township 18S	Range 27E	Lot Idn H	Feet From 2300	N/S Line N	Feet From 340	E/W Line E	County EDDY
12. Dedicated Acres 40.00		13. Joint or Infill		14. Consolidation Code		15. Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: Jerry Sherrell
 Title: Production Clerk
 Date: 9/11/2007

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Ronald Eidson
 Date of Survey: 8/28/2007
 Certificate Number: 3239

Permit Comments

Operator: MACK ENERGY CORP , 13837

Well: STATE H #002

API: 30-015-35814

Created By	Comment	Comment Date
JWSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	9/11/2007

Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837

Well: STATE H #002

API: 30-015-35814

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	As noted, operator to drill surface hole w/fresh water mud.
BArrant	Cement to cover all oil, gas and water bearing zones.

SEP 12 2007
OCD-ARTESIA



30-015-35814

Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

State H #2

State H #2

Wellbore #1

Plan: Plan #1

Standard Planning Report

11 September, 2007





Scientific Drilling
Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project:	Eddy County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	State H #2		
Site Position:		Northing:	646,629.20 ft
From:	Map	Easting:	528,184.50 ft
Position Uncertainty:	0.00 ft	Slot Radius:	ft
		Latitude:	32° 46' 39.510 N
		Longitude:	104° 14' 29.874 W
		Grid Convergence:	0.05 °

Well:	State H #2		
Well Position	+N/-S	0 00 ft	Northing:
	+E/-W	0 00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	3,606.00 ft
		Latitude:	32° 46' 39.510 N
		Longitude:	104° 14' 29.874 W
		Ground Level:	0 00 ft

Wellbore:	Wellbore #1		
Magnetics:	Model Name	Sample Date	Declination
			(°)
	IGRF200510	9/11/2007	8.37
			Dip Angle
			(°)
			60.68
			Field Strength
			(nT)
			49,269

Design:	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			156.92

Plan Sections:										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.00	0 00	0 00	0 00	0 00	0.00	0.00	0.00	0.00	0.00	
460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	0.00	
768.78	6.18	156.92	768.18	-15.29	6.52	2.00	2.00	0.00	156.92	
2,854.52	6.18	156.92	2,841.82	-221.71	94.48	0.00	0.00	0.00	0.00	
3,163.30	0.00	0.00	3,150.00	-237.00	101.00	2.00	-2.00	0.00	180.00	
7,313.30	0.00	0.00	7,300.00	-237.00	101.00	0.00	0.00	0.00	0.00	PBHL-State H #1



Scientific Drilling
Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP 460' Start 2.0°/100'									
500.00	0.80	156.92	500.00	-0.26	0.11	0.28	2.00	2.00	0.00
600.00	2.80	156.92	599.94	-3.15	1.34	3.42	2.00	2.00	0.00
700.00	4.80	156.92	699.72	-9.24	3.94	10.05	2.00	2.00	0.00
768.78	6.18	156.92	768.18	-15.29	6.52	16.62	2.00	2.00	0.00
EOC hold 6.18°									
800.00	6.18	156.92	799.22	-18.38	7.83	19.98	0.00	0.00	0.00
900.00	6.18	156.92	898.64	-28.28	12.05	30.74	0.00	0.00	0.00
1,000.00	6.18	156.92	998.06	-38.18	16.27	41.50	0.00	0.00	0.00
1,100.00	6.18	156.92	1,097.48	-48.07	20.49	52.26	0.00	0.00	0.00
1,200.00	6.18	156.92	1,196.90	-57.97	24.70	63.01	0.00	0.00	0.00
1,300.00	6.18	156.92	1,296.32	-67.87	28.92	73.77	0.00	0.00	0.00
1,400.00	6.18	156.92	1,395.74	-77.76	33.14	84.53	0.00	0.00	0.00
1,500.00	6.18	156.92	1,495.16	-87.66	37.36	95.29	0.00	0.00	0.00
1,600.00	6.18	156.92	1,594.58	-97.55	41.57	106.04	0.00	0.00	0.00
1,700.00	6.18	156.92	1,694.00	-107.45	45.79	116.80	0.00	0.00	0.00
1,800.00	6.18	156.92	1,793.42	-117.35	50.01	127.56	0.00	0.00	0.00
1,900.00	6.18	156.92	1,892.84	-127.24	54.23	138.32	0.00	0.00	0.00
2,000.00	6.18	156.92	1,992.26	-137.14	58.44	149.07	0.00	0.00	0.00
2,100.00	6.18	156.92	2,091.68	-147.04	62.66	159.83	0.00	0.00	0.00
2,200.00	6.18	156.92	2,191.10	-156.93	66.88	170.59	0.00	0.00	0.00
2,300.00	6.18	156.92	2,290.52	-166.83	71.10	181.35	0.00	0.00	0.00
2,400.00	6.18	156.92	2,389.94	-176.73	75.31	192.10	0.00	0.00	0.00
2,500.00	6.18	156.92	2,489.36	-186.62	79.53	202.86	0.00	0.00	0.00
2,600.00	6.18	156.92	2,588.78	-196.52	83.75	213.62	0.00	0.00	0.00
2,700.00	6.18	156.92	2,688.20	-206.41	87.97	224.38	0.00	0.00	0.00
2,800.00	6.18	156.92	2,787.62	-216.31	92.18	235.13	0.00	0.00	0.00
2,854.52	6.18	156.92	2,841.82	-221.71	94.48	241.00	0.00	0.00	0.00
Start Drop 2.0°/100'									
2,900.00	5.27	156.92	2,887.07	-225.88	96.26	245.53	2.00	-2.00	0.00
3,000.00	3.27	156.92	2,986.79	-232.72	99.18	252.97	2.00	-2.00	0.00
3,100.00	1.27	156.92	3,086.71	-236.36	100.73	256.92	2.00	-2.00	0.00
3,163.30	0.00	0.00	3,150.00	-237.00	101.00	257.62	2.00	-2.00	0.00
EOC hold 0.0°									
3,200.00	0.00	0.00	3,186.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,300.00	0.00	0.00	3,286.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,400.00	0.00	0.00	3,386.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,500.00	0.00	0.00	3,486.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,600.00	0.00	0.00	3,586.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,700.00	0.00	0.00	3,686.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,800.00	0.00	0.00	3,786.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,900.00	0.00	0.00	3,886.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,000.00	0.00	0.00	3,986.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,100.00	0.00	0.00	4,086.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,200.00	0.00	0.00	4,186.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,300.00	0.00	0.00	4,286.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,400.00	0.00	0.00	4,386.70	-237.00	101.00	257.62	0.00	0.00	0.00



Scientific Drilling
Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,500.00	0.00	0.00	4,486.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,586.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,686.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,786.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,886.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,986.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,086.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,186.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,286.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,386.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,486.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,586.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,686.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,786.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,886.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,986.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,086.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,186.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,286.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,386.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,486.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,586.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,686.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,786.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,886.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,986.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,086.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,186.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,286.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,313.30	0.00	0.00	7,300.00	-237.00	101.00	257.62	0.00	0.00	0.00	
East HL-State H #1- PBHL-State H #1- South HL-State H #1										

Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL-State H #1	- plan hits target - Circle (radius 10.00)	0.00	0.00	7,300.00	-237.00	101.00	646,392.20	528,285.50	32° 46' 37.164 N	104° 14' 28.693 W
South HL-State H #1	- plan misses by 14.14ft at 7313.30ft MD (7300.00 TVD, -237.00 N, 101.00 E) - Rectangle (sides W0.00 H200.00 D0.00)	0.00	0.00	7,300.00	-247.00	111.00	646,382.20	528,295.50	32° 46' 37.065 N	104° 14' 28.576 W
East HL-State H #1	- plan misses by 14.14ft at 7313.30ft MD (7300.00 TVD, -237.00 N, 101.00 E) - Rectangle (sides W800.00 H0.00 D0.00)	0.00	0.00	7,300.00	-247.00	111.00	646,382.20	528,295.50	32° 46' 37.065 N	104° 14' 28.576 W



Scientific Drilling
Planning Report

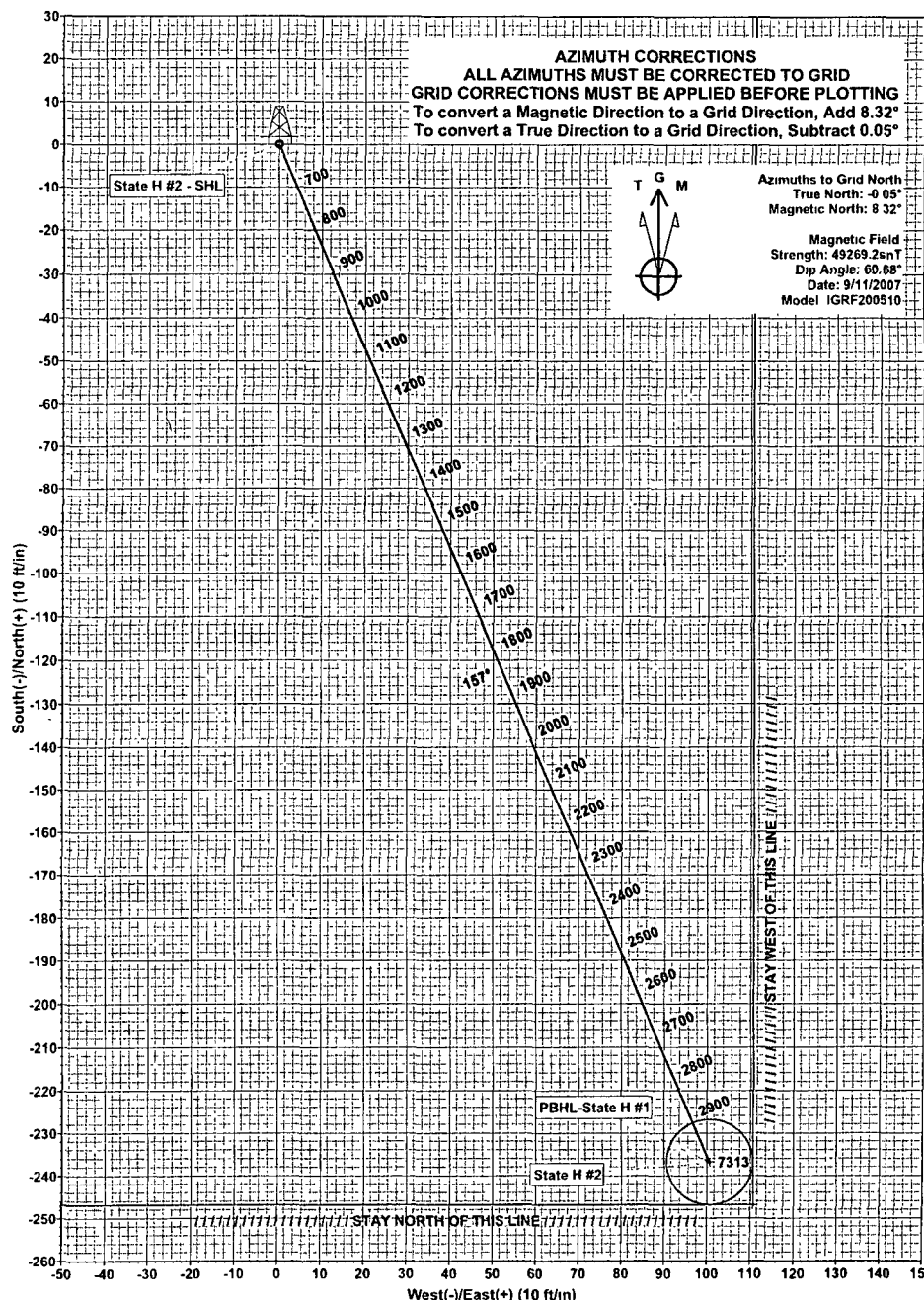
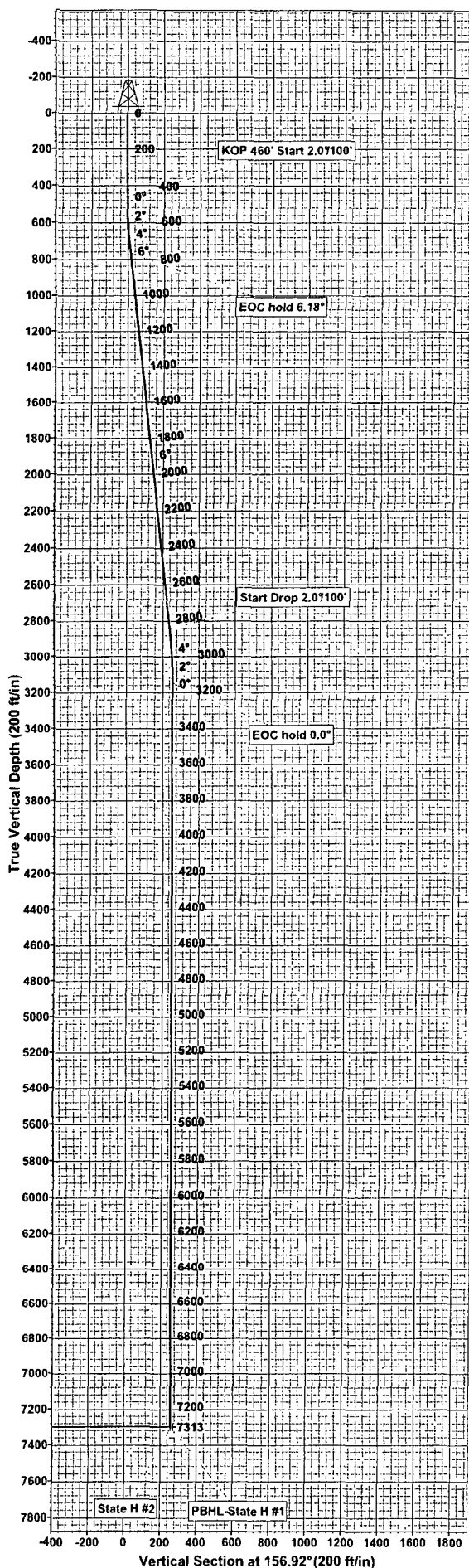


Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations:				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
460.00	460.00	0.00	0.00	KOP 460' Start 2.0°/100'
768.78	768.18	-15.29	6.52	EOC hold 6.18°
2,854.52	2,841.82	-221.71	94.48	Start Drop 2.0°/100'
3,163.30	3,150.00	-237.00	101.00	EOC hold 0.0°



Scientific Drilling for Mack Energy Corp.
Site: Eddy County, NM (NAD 27 NME)
Well: State H #2
Wellbore: Wellbore #1
Design: Plan #1



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	
3	768.78	6.18	156.92	768.18	-15.29	6.52	2.00	156.92	16.62	
4	2854.52	6.18	156.92	2841.82	-221.71	94.48	0.00	0.00	241.00	
5	3163.30	0.00	0.00	3150.00	-237.00	101.00	2.00	180.00	257.62	
6	7313.30	0.00	0.00	7300.00	-237.00	101.00	0.00	0.00	257.62	PBHL-State H #1

WELL DETAILS: State H #2							
Ground Level:				0.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	646629.20	528184.50	32°46' 39.510 N	104°14' 29.874 W		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
East HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46' 37.065 N	104°14' 28.576 W	Rectangle (Sides: 1800.00 W0.00)	
PBHL-State H #1	7300.00	-237.00	101.00	646392.20	528285.50	32°46' 37.164 N	104°14' 28.693 W	Circle (Radius: 10.00)	
South HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46' 37.065 N	104°14' 28.576 W	Rectangle (Sides: 1800.00 W200.00)	

PROJECT DETAILS: Eddy County, NM (NAD 27 NME)					Plan: Plan #1 (State H #2/Wellbore #1)	
Geodetic System: US State Plane 1927 (Exact solution)					Created By: Julio Pina	Date: 11-Sep-07
Datum: NAD 1927 (NADCON CONUS)					Checked: _____	Date: _____
Ellipsoid: Clarke 1866					Reviewed: _____	Date: _____
Zone: New Mexico East 3001					Approved: _____	Date: _____
System Datum: Mean Sea Level						

87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

May 27, 2004

WELL API NO. 30-015-35814	
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No. B-9391	
7. Lease Name or Unit Agreement Name State H	
8. Well Number 2	
9. OGRID Number 013837	
10. Pool name or Wildcat Chalk Bluff Wolfcamp	
441 feet from the East line NMPM County Eddy	
distance from nearest surface water _____ Construction Material	

Conditions of Approval (if any):



Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

State H #2

State H #2

Wellbore #1

OCT 22 2007
OCD-ARTESIA

Plan: Plan #2

Standard Planning Report

19 October, 2007





Scientific Drilling Planning Report



Database:	EDM 2003 16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606 00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606 00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Project	Eddy County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	State H #2			
Site Position:		Northing:	646,629 20 ft	Latitude: 32° 46' 39 510 N
From:	Map	Easting:	528,184 50 ft	Longitude: 104° 14' 29 874 W
Position Uncertainty:	0 00 ft	Slot Radius:	ft	Grid Convergence: 0 05 °

Well	State H #2			
Well Position	+N/-S	0 00 ft	Northing:	646,629 20 ft
	+E/-W	0 00 ft	Easting:	528,184 50 ft
Position Uncertainty		0 00 ft	Wellhead Elevation:	3,606 00 ft
			Ground Level:	0 00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/19/2007	8 36	60 68	49,259

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0 00	0 00	156 92

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
1,250 00	0 00	0 00	1,250 00	0 00	0 00	0 00	0 00	0 00	0 00	
1,785 00	10 70	156.92	1,781.89	-45.82	19 53	2 00	2 00	0 00	156 92	
2,636 01	10 70	156.92	2,618 11	-191 18	81 47	0 00	0 00	0 00	0 00	
3,171 01	0 00	0 00	3,150 00	-237 00	101 00	2 00	-2 00	0 00	180 00	
7,321 01	0 00	0 00	7,300 00	-237.00	101 00	0 00	0 00	0 00	0 00	PBHL-State H #1



Scientific Drilling Planning Report



Database:	EDM 2003 16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
1,150 00	0 00	0 00	1,150 00	0 00	0 00	0.00	0 00	0 00	0.00
8 5/8" Casing									
1,250 00	0 00	0 00	1,250 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP 1250' Start 2.0°/100'									
1,300 00	1 00	156 92	1,299 99	-0 40	0 17	0 44	2.00	2 00	0 00
1,400 00	3 00	156 92	1,399 93	-3 61	1 54	3.93	2 00	2 00	0 00
1,500 00	5 00	156.92	1,499 68	-10 03	4.27	10 90	2 00	2 00	0 00
1,600 00	7 00	156 92	1,599 13	-19 64	8 37	21 35	2.00	2 00	0 00
1,700 00	9 00	156.92	1,698 15	-32 45	13.83	35 27	2 00	2.00	0 00
1,785 00	10 70	156 92	1,781 90	-45 82	19 53	49 81	2 00	2 00	0 00
EOC hold 10.70°									
1,800 00	10 70	156 92	1,796.63	-48 38	20 62	52 59	0 00	0 00	0.00
1,900 00	10 70	156 92	1,894 89	-65 46	27 90	71 16	0 00	0 00	0 00
2,000 00	10 70	156 92	1,993 15	-82 54	35 18	89 73	0 00	0 00	0 00
2,100 00	10 70	156 92	2,091 41	-99 63	42 46	108.29	0 00	0 00	0 00
2,200 00	10.70	156.92	2,189 68	-116 71	49.74	126 86	0 00	0 00	0 00
2,300.00	10.70	156.92	2,287 94	-133 79	57.01	145 43	0 00	0.00	0 00
2,400 00	10 70	156.92	2,386 20	-150 87	64.29	163 99	0 00	0 00	0 00
2,500 00	10.70	156 92	2,484 46	-167 95	71.57	182 56	0.00	0 00	0 00
2,599 99	10 70	156 92	2,582 72	-185 03	78 85	201 13	0 00	0 00	0 00
2,636 01	10 70	156 92	2,618 11	-191 18	81 47	207 81	0 00	0 00	0.00
Start Drop 2.0°/100'									
2,699 99	9.42	156.92	2,681 11	-201 46	85 85	218 99	2 00	-2 00	0 00
2,799 99	7 42	156 92	2,780 03	-214 93	91 59	233 63	2 00	-2 00	0 00
2,899 99	5.42	156.92	2,879 39	-225 22	95.98	244 81	2 00	-2 00	0 00
2,999 99	3 42	156 92	2,979 09	-232 31	99 00	252 52	2 00	-2 00	0 00
3,099 99	1 42	156 92	3,079 00	-236 19	100 65	256 74	2 00	-2 00	0.00
3,171.01	0.00	0 00	3,150 00	-237 00	101 00	257.62	2 00	-2 00	0 00
EOC hold 0.0°									
7,321 01	0 00	0 00	7,300.00	-237 00	101 00	257 62	0 00	0 00	0.00
East HL-State H #1 - PBHL-State H #1 - South HL-State H #1									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-State H #1	0 00	0 00	7,300 00	-237 00	101.00	646,392 20	528,285 50	32° 46' 37 164 N	104° 14' 28.693 W
- plan hits target									
- Circle (radius 10 00)									
South HL-State H #1	0 00	0 00	7,300 00	-247 00	111 00	646,382 20	528,295 50	32° 46' 37 065 N	104° 14' 28 576 W
- plan misses by 14 14ft at 7321.01ft MD (7300.00 TVD, -237 00 N, 101.00 E)									
- Rectangle (sides W0 00 H200.00 D0.00)									
East HL-State H #1	0 00	0 00	7,300 00	-247 00	111 00	646,382.20	528,295 50	32° 46' 37 065 N	104° 14' 28.576 W
- plan misses by 14 14ft at 7321 01ft MD (7300 00 TVD, -237.00 N, 101.00 E)									
- Rectangle (sides W800 00 H0 00 D0 00)									



Scientific Drilling
Planning Report



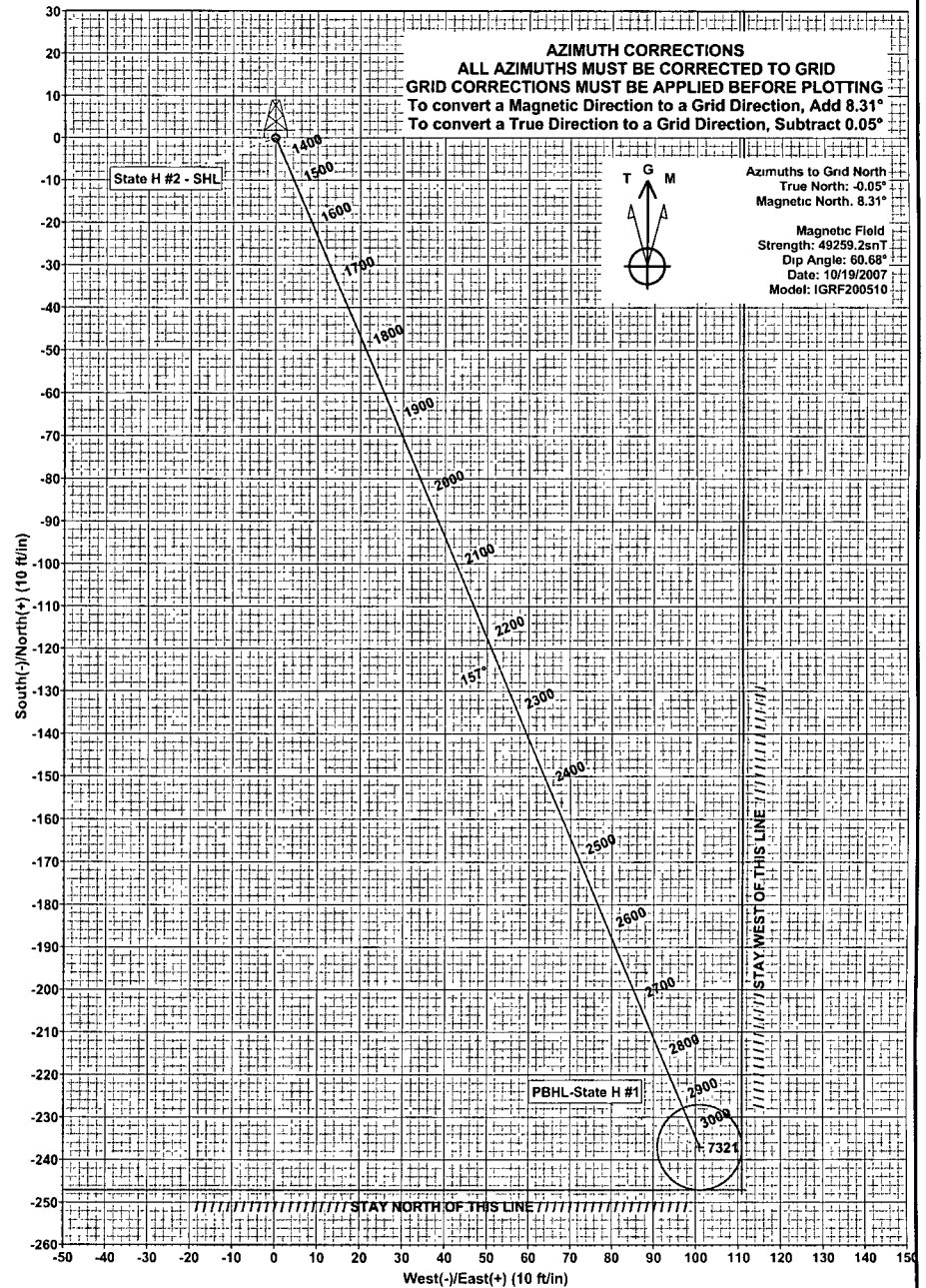
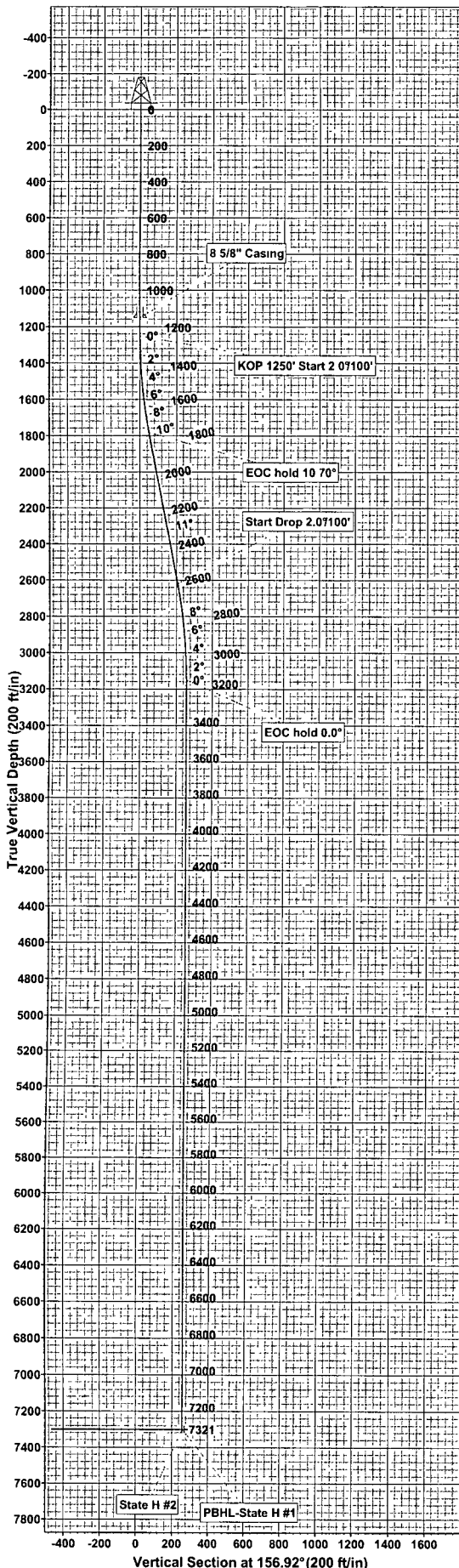
Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606 00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606 00ft (KB Elev)
Site:	State H #2	North Reference:	Grnd
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)
1,150 00	1,150 00	8 5/8" Casing	8 62500	12.25000

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,250 00	1,250 00	0 00	0 00	KOP 1250' Start 2 0°/100'
1,785 00	1,781 90	-45 82	19.53	EOC hold 10.70°
2,636 01	2,618 11	-191 18	81 47	Start Drop 2 0°/100'
3,171 01	3,150 00	-237 00	101 00	EOC hold 0 0°



Scientific Drilling for Mack Energy Corp.
Site: Eddy County, NM (NAD 27 NME)
Well: State H #2
Wellbore: Wellbore #1
Design: Plan #2



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1250.00	0.00	0.00	1250.00	0.00	0.00	0.00	0.00	0.00	
3	1785.00	10.70	156.92	1781.89	-45.82	19.53	2.00	156.92	49.81	
4	2636.01	10.70	156.92	2618.11	-191.18	81.47	0.00	0.00	207.81	
5	3171.01	0.00	0.00	3150.00	-237.00	101.00	2.00	180.00	257.62	
6	7321.01	0.00	0.00	7300.00	-237.00	101.00	0.00	0.00	257.62	PBHL-State H #1

WELL DETAILS: State H #2

+N/-S	+E/-W	North	Ground Level	Latitude	Longitude	Slot
0.00	0.00	646629.20	528184.50	32°46'39.510 N 104°14'28.576 W		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	North	Easting	Latitude	Longitude	Shape
East HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46'37.065 N 104°14'28.576 W		Rectangle (Sides: L800 W0.00)
PBHL-State H #1	7300.00	-237.00	101.00	646392.20	528285.50	32°46'37.164 N 104°14'28.693 W		Circle (Radius: 10.00)
South HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46'37.065 N 104°14'28.576 W		Rectangle (Sides: L0 W200.00)

PROJECT DETAILS: Eddy County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Plan # Plan #2 (State H #2/Wellbore #1)

Created By: Julio Pina Date: 19-Oct-07
Checked: Date:
Reviewed: Date:
Approved: Date:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Permit 65781

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

WELL API NUMBER
30-015-35814

5. Indicate Type of Lease
S

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
STATE H

8. Well Number
002

9. OGRID Number
13837

10. Pool name or Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO
A DIFFERENT RESERVIOR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well:O

2. Name of Operator
MACK ENERGY CORP

3. Address of Operator
PO BOX 960 , 11352 LOVINGTON HWY ARTESIA , NM 88211

4. Well Location
Unit Letter H : 2063 feet from the N line and 441 feet from the E line
Section 2 Township 18S Range 27E NMPM Eddy County

11. Elevation (Show whether DR, KB, BT, GR, etc.)
3590 GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit Type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE OF PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

Other:

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTER CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDON ☐

CASING/CEMENT JOB ☐

Other: **Drilling/Cement** ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

10/31/2007 Spud 17 1/2 hole @ 10:00pm.

11/1/2007 TD @ 201'. Ran 5jts 13 3/8 H-40 48# @ 201', Cmt w/250sx C+2%CC, circ 104sx, plug down 12:20pm. WOC 18hrs test to 1800# 30min, OK.

11/4/2007 TD 12 1/4 hole @ 1165'.

11/5/2007 Ran 27jts 8 5/8 J-55 32# @ 1170'. Cmt w/475sx C, 200sx C+2%CC, circ 218sx, plug down 3:00am. WOC 12hrs test to 600# 30min, OK.

11/20/2007 TD @ 7545'.

11/22/2007 Ran 177jts 5 1/2 J-55 17# @ 7495', Cmt w/530sx C, circ 217sx. 2nd stage 365sx C, 520sx C, plug down 6:55pm, circ 200sx. WOC 12hrs test to 600# 20min, OK.

10/31/2007 Spudded well.

Casing and Cement Program

Date	String	Fluid Type	Hole Size	Csg Size	Weight lb/ft	Grade	Est TOC	Dpth Set	Sacks	Yield	Class	1" Dpth	Pres Held	Pres Drop	Open Hole
11/01/07	Surf	FreshWater	17.5	13.375	48	H-40	0	201	250		C		1800	0	Y
11/05/07	Int1	FreshWater	12.25	8.625	32	J-55	0	1170	675		C		600	0	Y
11/22/07	Prod	CutBrine	7.875	5.5	17	J-55	0	7495	1415		C		600	0	Y

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Electronically Signed

TITLE Production Clerk

DATE 12/11/2007

Type or print name Jerry Sherrill

E-mail address jerrys@mackenergycorp.com

Telephone No. 505-748-1288

For State Use Only:

APPROVED BY: Bryan Arrant

TITLE Geologist

DATE 12/12/2007 7:46:02 AM

Substit 3 Copies To Appropriate District
Office
District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W. Grand Ave, Artesia, NM 88210
District III
1000 Rio Brazos Rd, Aztec, NM 87410
District IV
1220 S St Francis Dr, Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-35814
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-9391
7. Lease Name or Unit Agreement Name State H
8. Well Number 2
9. OGRID Number 013837
10. Pool name or Wildcat Red Lake; Glorieta-Yeso, NE

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐ FEB 26 2008

2. Name of Operator
Mack Energy Corporation OCD-ARTESIA

3. Address of Operator
P. O. Box 960 Artesia, NM 88211-0960

4. Well Location
Unit Letter H 2063 feet from the North line and 441 feet from the East line
Section 2 Township 18S Range 27E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3590' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: Completion <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

12/15/2007 Perforated from 6134.5-6434' 57 holes.
12/17/2007 Acidized w/4500 gals 15%.
12/18/2007 RIH w/203 joints 2 7/8 tubing SN @ 6439'. RIH w/2 1/2"x2"x20' pump.
12/26/2007 Set CIBP @ 6020' w/35' cement cap. Perforated from 5789.5-5957.5' 52 holes.
12/27/2007 Acidized w/4500 gals 15%.
12/28/2007 Perforated from 5391-5700.5' 83 holes. Acidized w/5000 gals 15%.
12/29/2007 RIH w/188 joints 2 7/8 tubing SN @ 5965'. RIH w/2 1/2"x2"x20' pump.
1/7/2008 Set CIBP @ 5300' w/35' cement cap. Perforated from 4118.5-4197' 40 holes.
1/8/2008 Acidized w/2000 gals 15%.
1/9/2008 Frac w/8130# liteprop, 68,890# 16/30 sand, 14,046# siberprop, 91,292 gals 30/40# gel.
1/11/2008 RIH w/134 joints 2 7/8" tubing SN @ 4243'. RIH 2 1/2 x 2 x 20' Pump.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Jerry W. Sherrell TITLE Production Clerk DATE 2/25/08
Type or print name Jerry W. Sherrell E-mail address: jerrys@mackenergycorp.com Telephone No. (575)748-1288
For State Use Only

FOR RECORDS ONLY

APPROVED BY: _____ TITLE _____ DATE 2-28-08
Conditions of Approval (if any): _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

FEB 26 2008
OCD-ARTESIA

Form C-104
Revised Feb. 26, 2007

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

1. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960		2 OGRID Number 013837
		3 Reason for Filing Code/ Effective Date NW
4 API Number 30-015-35814	5 Pool Name Red Lake; Glorieta-Yeso, NE	6 Pool Code 51120 96836
7 Property Code 303847	8 Property Name State H	9 Well Number 2

10 H. Surface Location

UL or lot no H	Section 2	Township 18S	Range 27E	Lot Idn	Feet from the 2063	North/South line North	Feet from the 441	East/West line East	County Eddy
-------------------	--------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	----------------

11 Bottom Hole Location

UL or lot no. H	Section 2	Township 18S	Range 27E	Lot Idn	Feet from the 2300	North/South line North	Feet from the 340	East/West line East	County Eddy
12 Lse Code S	13 Producing Method Code P	14 Gas Connection Date 1/11/08	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date				

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 O/G/W
015694	Navajo Refining PO Box 159 Artesia, NM 88211-0159	O
036785	DCP Midstream LP 4001 Penbrook Odessa, TX 79762	G

IV. Well Completion Data

21 Spud Date 10/31/2007	22 Ready Date 11/23/2007	23 TD 7545'	24 PBTD 5265'	25 Perforations 4118.5-4197'	26 DHC, MC
27 Hole Size	28 Casing & Tubing Size	29 Depth Set	30 Sacks Cement		
17 1/2	13 3/8	201	250		
12 1/4	8 5/8	1170	675		
7 7/8	5 1/2	7495	1415		
	2 7/8	4243			

V. Well Test Data

31 Date New Oil 1/14/2008	32 Gas Delivery Date 1/14/2008	33 Test Date 1/30/08	34 Test Length 24 hours	35 Tbg. Pressure	36 Csg. Pressure
37 Choke Size	38 Oil 8	39 Water 30	40 Gas 30		41 Test Method P

42 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief
Signature:

Jerry W. Sherrell

Printed name:
Jerry W. Sherrell
Title:
Production Clerk

E-mail Address:
jerrys@mackenergycorp.com

Date:
2/25/08

Phone:
(575)748-1288

OIL CONSERVATION DIVISION

Approved by:

Kimberly M. Wilson

Title:

Compliance Officer

Approval Date:

3-5-08

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P O Box 1980, Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

Form C-105
Revised 1-1-89

WELL API NO
30-015-35814
5 Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6 State Oil & Gas Lease No B-9391

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1 Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		7 Lease Name or Unit Agreement Name	
b Type of Completion NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> Deepen <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER _____		State H	
2 Name of Operator Mack Energy Corporation		8 Well No 2	
3 Address of Operator P.O. Box 960, Artesia, NM 88211-0960		9 Pool name or Wildcat Red Lake; Glorieta-Yeso, NE	
4 Well Location Unit Letter <u>H</u> : <u>2063</u> Feet From The <u>North</u> Line and <u>441</u> Feet From The <u>East</u> Line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM <u>Eddy</u> County			
10 Date Spudded 10/31/2007	11 Date TD Reached 11/21/2007	12 Date Compl (Ready to Prod.) 1/11/08	13 Elevations (DF & RKB, RT, GR, etc) 3590' GR
14 Elev Casinghead			
15 Total Depth 7545'	16 Plug Back TD 5265'	17 If Multiple Compl How Many Zones?	18 Intervals Drilled By Rotary Tools Yes
19 Producing Interval(s), of this completion - Top, Bottom, Name 4118.5-4197'			20 Was Directional Survey Made Yes
21 Type Electric and Other Logs Run Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray			22 Was Well Cored No

FEB 26 2008
OCD-ARTESIA

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	201	17 1/2	250 sx	None
8 5/8	32	1170	12 1/4	675 sx	None
5 1/2	17	7495	7 7/8	1415 sx	None

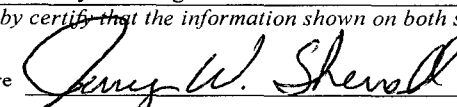
24 LINER RECORD					25 TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	4243'	

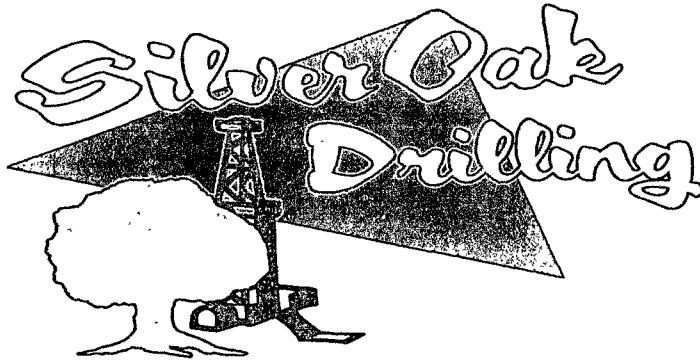
26 Perforation record (interval, size, and number) 6134.5-6434', .42, 57 CIBP @ 6020 w/35' cmt cap 5391-5957.5', .42, 92 CIBP @ 5300' w/35' cmt cap 4118.5-4197', .42, 40	27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED See C-103 for detail
--	---

28 PRODUCTION							
Date First Production 1/14/2008	Production Method (Flowing, gas lift, pumping - Size and type pump) 2 1/2x2x20' Pump					Well Status (Prod. or Shut-in) Producing	
Date of Test 1/30/08	Hours Tested 24 hours	Choke Size	Prod'n For Test Period	Oil - Bbl 8	Gas - MCF 30	Water- Bbl 30	Gas - Oil Ratio 3750
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl 8	Gas - MCF 30	Water- Bbl. 30	Oil Gravity - API - (Corr.)	

29 Disposition of Gas (Sold, used for fuel, vented, etc) Sold	Test Witnessed By Robert C. Chase
--	--------------------------------------

30 List Attachments Deviation Survey and Logs
--

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief			
Signature 	Printed Name Jerry W. Sherrell	Title Production Clerk	Date 2/25/08



PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

FEB 26 2008
OCD-ARTESIA

November 30, 2007

Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

RE: State H #2
2310' FNL & 990' FEL
Sec. 2, T18S, R27E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned re-entered well.

Very truly yours,

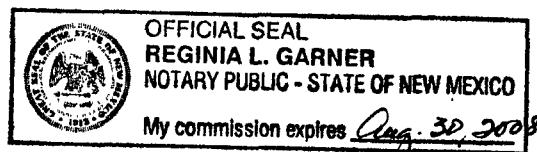
A handwritten signature in cursive script that reads "Leroy Curry".

Leroy Curry
Drilling Superintendent

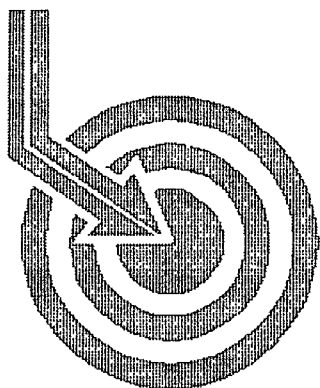
State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 30th day of November, 2007.

A handwritten signature in cursive script that reads "Regina L. Garner".

Notary Public

Date	Depth	Dev	Dir
11/01/2007	133.00	0.50	0.00
11/02/2007	431.00	0.75	0.00
11/03/2007	700.00	0.50	0.00
11/04/2007	975.00	1.00	0.00
11/04/2007	1134.00	0.50	0.00
11/06/2007	1301.00	1.66	164.90
11/06/2007	1396.00	3.41	161.90
11/07/2007	1492.00	5.19	159.10
11/07/2007	1587.00	7.21	156.40
11/07/2007	1683.00	8.51	155.20
11/07/2007	1778.00	9.94	158.10
11/07/2007	1873.00	9.56	157.60
11/08/2007	1968.00	10.53	159.60
11/08/2007	2064.00	9.83	160.00
11/08/2007	2159.00	9.69	160.50
11/08/2007	2350.00	10.78	156.20
11/08/2007	2445.00	10.67	156.40
11/08/2007	2540.00	10.54	155.40
11/08/2007	2604.00	10.43	156.30
11/09/2007	2699.00	8.58	156.50
11/09/2007	2794.00	7.39	158.60
11/09/2007	2984.00	4.30	162.00
11/09/2007	3080.00	2.86	157.10
11/09/2007	3175.00	1.50	150.00
11/09/2007	3270.00	0.67	256.70
11/09/2007	3365.00	0.82	280.50
11/10/2007	3460.00	0.48	176.00
11/10/2007	3556.00	0.51	181.00
11/10/2007	3651.00	0.65	173.10
11/10/2007	3746.00	0.67	157.20
11/10/2007	3841.00	0.59	154.20
11/10/2007	3936.00	0.24	309.30
11/11/2007	4031.00	0.30	302.30
11/11/2007	4126.00	0.45	322.60
11/11/2007	4222.00	1.06	337.40
11/11/2007	4602.00	1.01	348.10
11/12/2007	4666.00	1.10	18.68
11/12/2007	4729.00	0.53	71.05
11/12/2007	4824.00	0.27	38.14
11/12/2007	4920.00	0.71	12.94
11/12/2007	5015.00	1.19	5.48
11/12/2007	5110.00	0.82	20.33
11/12/2007	5206.00	0.28	132.80
11/13/2007	5301.00	0.54	23.07
11/13/2007	5396.00	0.34	49.15
11/13/2007	5491.00	1.12	153.70
11/13/2007	5586.00	2.14	189.30
11/13/2007	5660.00	1.31	189.40
11/13/2007	5681.00	1.09	194.70
11/13/2007	5745.00	0.67	318.40
11/13/2007	5839.00	0.24	221.30
11/14/2007	5935.00	1.41	161.10
11/15/2007	5998.00	1.01	182.35
11/16/2007	6188.00	0.34	306.90
11/16/2007	6474.00	0.11	334.80
11/16/2007	6570.00	0.15	314.50
11/17/2007	6664.00	0.27	304.50
11/17/2007	6759.00	0.45	295.50
11/17/2007	6854.00	0.46	296.60
11/17/2007	6949.00	0.59	290.10
11/17/2007	7044.00	1.09	134.40
11/18/2007	7140.00	0.38	89.52
11/18/2007	7235.00	0.57	122.40
11/18/2007	7382.00	0.81	125.40



Scientific Drilling

FEB 26 2008
OCD-ARTESIA

MACK ENERGY

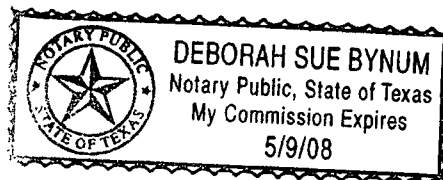
Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006
Survey: 11/05/07-11/14/07

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*L. Wharton*.....Company Representative

Notorized this date 19th of December, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: MACK ENERGY	Date: 12/16/2007	Time: 18:34.47	Page: 1
Field: Chalk Bluff	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: State H #2	Section (VS) Reference:	Well (0.00N,0.00E,156.92Azi)	
Wellpath: VH - Job #32K11071013	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 11/06/07	Start Date:	11/06/2007
KSRG 0'-1143'		
Company: Scientific Drilling Internatio	Engineer:	Madrid w/P&M
Tool: Keeper;Keeper Gyro	Tied-to:	From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.62	77.45	100.00	0.10	0.12	0.53	0.62	0.54	77.45
200.00	0.42	110.33	199.99	0.45	0.11	1.40	0.35	1.40	85.60
300.00	0.37	96.72	299.99	0.86	-0.06	2.06	0.11	2.07	91.59
400.00	0.38	143.78	399.99	1.35	-0.36	2.58	0.30	2.61	98.00
500.00	0.26	212.14	499.99	1.80	-0.82	2.66	0.37	2.78	107.20
600.00	0.28	250.72	599.99	1.91	-1.10	2.30	0.18	2.55	115.41
700.00	0.44	271.18	699.99	1.74	-1.17	1.69	0.20	2.05	124.64
800.00	0.40	74.03	799.98	1.62	-1.06	1.64	0.83	1.96	122.94
900.00	1.01	96.02	899.98	2.09	-1.06	2.85	0.66	3.04	110.38
1000.00	0.95	87.15	999.96	2.81	-1.11	4.56	0.16	4.69	103.70
1100.00	0.56	76.15	1099.95	3.17	-0.95	5.86	0.41	5.94	99.24
1143.00	0.26	86.43	1142.95	3.24	-0.90	6.16	0.72	6.23	98.28



Scientific
Drilling

Scientific Drilling International Survey Report

Company: MACK ENERGY
Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006

Date: 12/16/2007 Time: 19:33:59 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,156.92Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 11/05/07-11/14/07
MWD 1206-7367'

Start Date: 11/05/2007

Company: Scientific Drilling Internatio
Tool: MWD;MWD

Engineer: Hernandez/Biggs/Elger
Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1143.00	0.26	86.43	1142.95	3.24	-0.90	6.16	0.00	6.23	98.28
1206.00	0.17	46.81	1205.95	3.26	-0.82	6.37	0.27	6.43	97.37
1301.00	1.66	164.91	1300.94	4.57	-2.06	6.83	1.84	7.14	106.75
1396.00	3.41	161.92	1395.84	8.75	-6.07	8.07	1.85	10.10	126.96
1492.00	5.19	159.14	1491.57	15.93	-12.84	10.50	1.87	16.59	140.73
1587.00	7.21	156.46	1586.01	26.19	-22.32	14.41	2.15	26.57	147.15
1682.00	8.51	155.25	1680.11	39.18	-34.17	19.74	1.38	39.46	149.99
1778.00	9.94	158.14	1774.87	54.56	-48.32	25.80	1.57	54.77	151.90
1873.00	9.56	157.67	1868.50	70.65	-63.22	31.85	0.41	70.79	153.26
1968.00	10.53	159.64	1962.04	87.21	-78.66	37.86	1.08	87.30	154.30
2064.00	9.83	160.07	2056.53	104.15	-94.59	43.71	0.73	104.20	155.20
2159.00	9.69	160.58	2150.15	120.23	-109.75	49.13	0.17	120.25	155.88
2255.00	10.79	160.25	2244.62	137.26	-125.83	54.86	1.15	137.27	156.45
2350.00	10.78	156.23	2337.95	155.02	-142.33	61.44	0.79	155.02	156.65
2445.00	10.67	156.45	2431.29	172.70	-158.52	68.54	0.12	172.70	156.62
2540.00	10.54	155.44	2524.66	190.18	-174.49	75.66	0.24	190.18	156.56
2604.00	10.43	156.37	2587.60	201.82	-185.12	80.42	0.32	201.83	156.52
2699.00	8.58	156.51	2681.29	217.51	-199.50	86.69	1.95	217.52	156.51
2794.00	7.39	158.65	2775.36	230.71	-211.69	91.74	1.29	230.71	156.57
2889.00	5.58	158.12	2869.75	241.43	-221.66	95.68	1.91	241.43	156.65
2984.00	4.30	167.04	2964.40	249.55	-229.42	98.20	1.57	249.55	156.83
3080.00	2.86	157.16	3060.21	255.49	-235.14	99.94	1.63	255.49	156.97
3175.00	1.50	150.04	3155.14	259.10	-238.40	101.48	1.46	259.10	156.94
3270.00	0.67	256.00	3250.13	260.24	-239.61	101.56	1.90	260.24	157.03
3365.00	0.82	280.00	3345.12	259.79	-239.63	100.35	0.36	259.79	157.28
3460.00	0.48	176.03	3440.12	259.79	-239.90	99.71	1.10	259.80	157.43
3556.00	0.51	181.08	3536.11	260.56	-240.73	99.73	0.06	260.57	157.50
3651.00	0.65	173.19	3631.11	261.46	-241.69	99.79	0.17	261.48	157.57
3746.00	0.67	157.21	3726.10	262.54	-242.74	100.07	0.19	262.55	157.60
3841.00	0.59	154.21	3821.10	263.58	-243.69	100.50	0.09	263.60	157.59
3936.00	0.24	309.36	3916.09	263.89	-244.00	100.55	0.86	263.91	157.60
4031.00	0.30	302.31	4011.09	263.51	-243.74	100.19	0.07	263.53	157.66
4126.00	0.45	322.60	4106.09	262.95	-243.32	99.75	0.21	262.97	157.71
4222.00	1.06	337.45	4202.08	261.69	-242.20	99.18	0.66	261.72	157.73
4317.00	0.86	37.93	4297.07	260.47	-240.82	99.29	1.03	260.49	157.59
4412.00	0.59	7.90	4392.06	259.70	-239.78	99.79	0.48	259.71	157.40
4507.00	1.14	0.19	4487.05	258.42	-238.35	99.86	0.59	258.42	157.27
4602.00	1.01	346.16	4582.04	256.72	-236.59	99.66	0.31	256.72	157.16
4667.00	1.10	18.68	4647.03	255.69	-235.44	99.73	0.92	255.69	157.04
4729.00	0.53	71.05	4709.02	255.27	-234.78	100.19	1.42	255.27	156.89
4824.00	0.28	38.14	4804.02	255.19	-234.46	100.75	0.35	255.19	156.75
4920.00	0.71	12.94	4900.01	254.59	-233.69	101.03	0.49	254.60	156.62
5015.00	1.19	5.48	4995.00	253.25	-232.14	101.25	0.52	253.26	156.43
5110.00	0.82	20.33	5089.99	251.89	-230.52	101.58	0.47	251.91	156.22
5206.00	0.28	132.80	5185.98	251.60	-230.03	101.99	1.00	251.63	156.09
5301.00	0.54	23.07	5280.98	251.51	-229.78	102.34	0.72	251.54	155.99
5396.00	0.34	49.15	5375.98	251.11	-229.18	102.73	0.29	251.15	155.86
5491.00	1.12	153.76	5470.97	251.95	-229.83	103.35	1.32	252.00	155.79
5586.00	2.14	189.33	5565.94	254.38	-232.42	103.47	1.46	254.41	156.00



Scientific
Drilling

Scientific Drilling International

Survey Report

Company: MACK ENERGY
Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006

Date: 12/16/2007 Time: 19:33:59 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0 00N,0.00E,156.92Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5681.00	1.09	194.79	5660.90	256.59	-235.04	102.96	1.12	256.60	156.34
5745.00	0.67	318.43	5724.89	256.71	-235.35	102.55	2.44	256.72	156.45
5839.00	0.24	221.30	5818.89	256.28	-235.08	102.06	0.79	256.28	156.53
5935.00	1.41	161.10	5914.88	257.54	-236.35	102.31	1.36	257.55	156.59
5998.00	1.01	182.35	5977.87	258.82	-237.64	102.54	0.94	258.82	156.66
6093.00	0.20	294.46	6072.86	259.45	-238.41	102.35	1.16	259.45	156.77
6189.00	0.34	306.99	6168.86	259.08	-238.17	101.97	0.16	259.08	156.82
6284.00	0.45	287.60	6263.86	258.59	-237.89	101.39	0.18	258.59	156.92
6379.00	1.01	331.75	6358.85	257.51	-237.04	100.64	0.79	257.51	157.00
6474.00	0.11	334.85	6453.84	256.59	-236.22	100.20	0.95	256.59	157.01
6570.00	0.15	314.50	6549.84	256.38	-236.04	100.07	0.06	256.38	157.02
6665.00	0.27	304.58	6644.84	256.08	-235.83	99.80	0.13	256.08	157.06
6760.00	0.45	295.56	6739.84	255.61	-235.54	99.28	0.20	255.61	157.14
6855.00	0.46	296.68	6834.84	255.04	-235.21	98.60	0.01	255.04	157.26
6950.00	0.51	281.73	6929.83	254.50	-234.95	97.85	0.14	254.51	157.39
7046.00	1.09	134.41	7025.83	255.10	-235.50	98.08	1.61	255.11	157.39
7140.00	0.38	89.52	7119.82	256.05	-236.13	99.03	0.92	256.05	157.25
7235.00	0.57	122.42	7214.82	256.56	-236.38	99.75	0.34	256.56	157.12
7330.00	0.81	125.40	7309.81	257.52	-237.02	100.69	0.26	257.52	156.98
7367.00	0.87	128.12	7346.81	257.99	-237.35	101.13	0.19	257.99	156.92



Scientific
Drilling

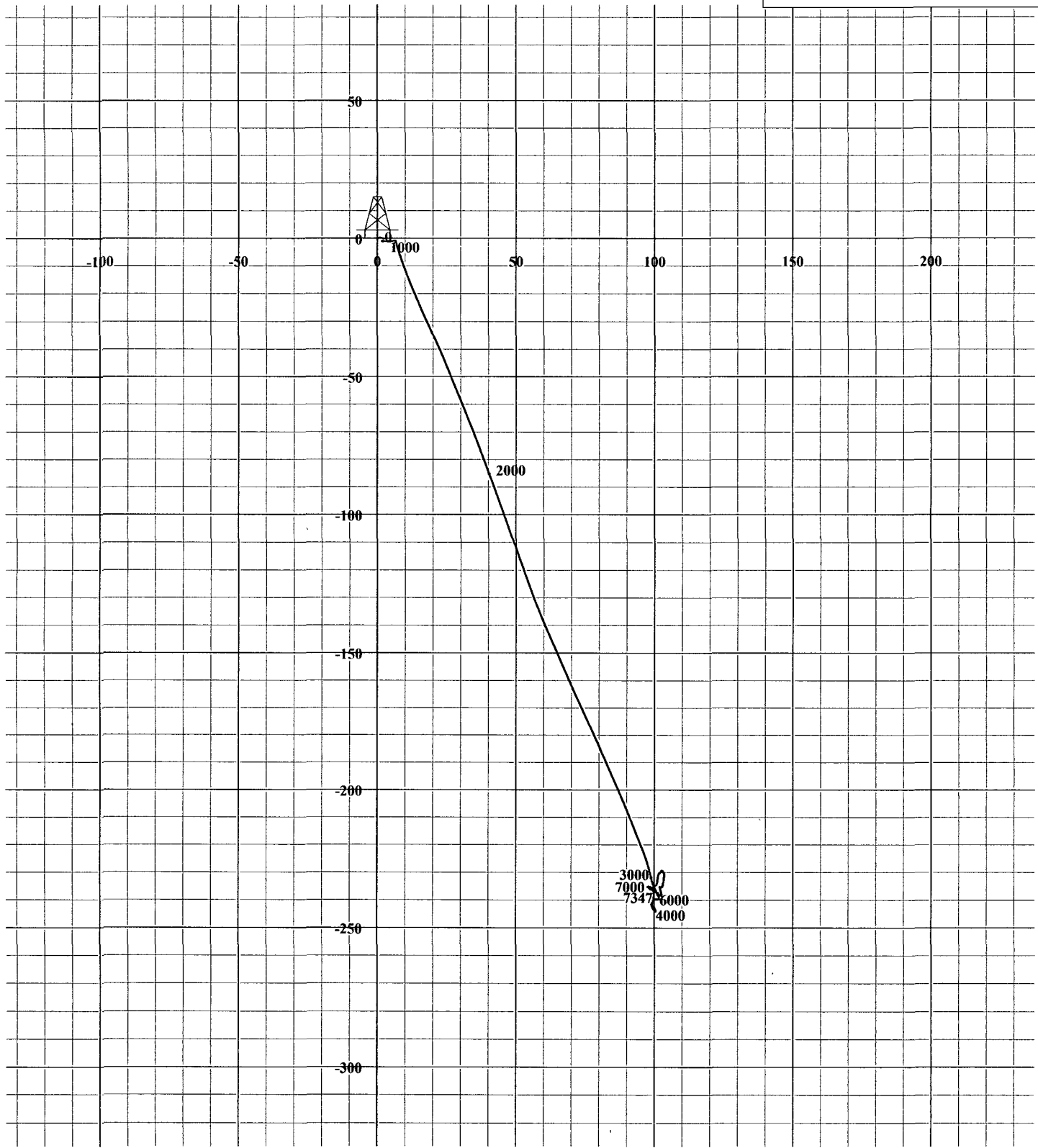
Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006
Survey: 11/05/07-11/14/07

G/TM

Azimuths to Grid North
True North 0.00°
Magnetic North 0.00°

Magnetic Field
Strength 0nT
Dip Angle 0.00°
Date 12/16/2007
Model sgr0000

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]

Wilson, Kimberly M, EMNRD

From: Jerry Sherrell [jerrys@mackenergycorp.com]
Sent: Wednesday, March 05, 2008 3:37 PM
To: Wilson, Kimberly M, EMNRD
Subject: FW: Financial Assurance/Rule 40- Mack
Importance: High

From: Altomare, Mikal, EMNRD [mailto:Mikal.Altomare@state.nm.us]
Sent: Tuesday, March 04, 2008 11:03 AM
To: Mull, Donna, EMNRD
Cc: Rebecca Groh; Jerry Sherrell; Phillips, Dorothy, EMNRD
Subject: Financial Assurance/Rule 40- Mack
Importance: High

Donna –

I have received a pdf version of what appears to be a properly and fully executed single well bond for the state h no. 001, 03-015-00745, which Mack has assured me that they are over-nighting to our office. Everything appears to be in order, and I expect that, upon receipt of the original in our office, it will be reviewed and accepted and Mack will no longer be listed as being out of compliance with financial assurance requirements. That being said, and given that Mack has posted all other necessary financial assurances for all other properties, if there are no other violations or issues with approval of pending Mack applications, consider them to be in compliance for purposes of pending permit applications with your office.

Please contact me if you have any questions.

Thanks,

Mikal



Mikal M. Altomare

Assistant General Counsel
Oil Conservation Division
Energy, Minerals & Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Tel 505.476.3480 ~ Fax 505.476.3462
mikal.altomare@state.nm.us

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3/5/2008

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