

**UIC - I - 8-1, 2 & 3**

**WDWs-1, 2 & 3**

**PERMITS,**

**RENEWALS,**

**& MODS (7 of 18)**

**2017**



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

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

May 3, 1990

Mewbourne Oil Company  
c/c Hinkle, Cox, Eaton, Coffield & Hensley  
500 Marquette, NW  
Suite 800  
Albuquerque, NM 87102-2121

Attention: James Bruce

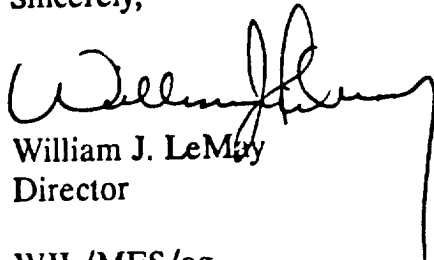
*Administrative Order NSL-2785*

Dear Mr. Bruce:

Reference is made to your application on behalf of Mewbourne Oil Company dated April 12, 1990 for a non-standard gas well location for your Federal "T" Well No. 1 to be located 660 feet from the North line and 990 feet from the East line (Unit A) of Section 12, Township 18 South, Range 27 East, NMPM, Undesignated North Illinois Camp Morrow Gas Pool, Eddy County, New Mexico. The N/2 of said Section 12 shall be dedicated to the well forming a standard 320-acre gas spacing and proration unit for said pool.

By the authority granted me under the provisions of General Rule 104 (II) the above-described unorthodox gas well location is hereby approved.

Sincerely,



William J. LeMay  
Director

WJL/MES/ag

cc: Oil Conservation Division - Artesia  
US Bureau of Land Management - Carlsbad

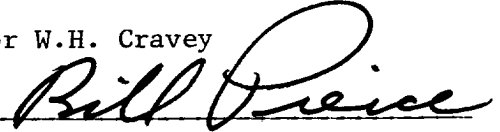
12. CERTIFICATION:

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.

May 18, 1990

Date

For W.H. Cravey

A handwritten signature in cursive script, appearing to read "Bill Price", 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 Anres | 2100' | Canyon        | 8350'   |
| Glorieta  | 3720' | Strawn        | 8900'   |
| Tubb      | 4930' | Atoka         | 9500'   |
| Abo       | 5900' | Morrow        | 9600'   |
| Wolfcamp  | 6900' | Mississippian | 10,100' |
- 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 aystem from 6,000' - T.D.
- H. Testing and Coring Program: Possibility of 6 DST's in the following zones; Wolfcamp, Cisco, Canyon, Strawn, Atoka, and 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  
Erick W. Nelson  
Bill Pierce  
701 South Cecil Street  
Hobbs, New Mexico  
Phone: (505) 393-5905



5. SOURCE OF CONSTRUCTION MATERIALS:

- A. Caliche for surfacing the road and location hopefully will come from the construction site. In the event that unsuitable material is encountered, 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

FEDERAL "T" WELL NO. 1

990' FEL & 660' FNL OF SEC. 12-T18S-R27E

EDDY COUNTY, NEW MEXICO

NEW MEXICO LEASE NO. NM-42410

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 environmental 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. Exhibit "A" is a portion of a BLM map, 30 x 60 minute quadrangle; Artesia, New Mexico, showing the location of the proposed well as staked. 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 Road #206 (Illinois Camp Road) and proceed south for 1 3/4 miles. Turn right (west) on Eddy County Road #204 and proceed west for 3/10 of a mile. Turn left (south) on an existing caliche lease road and follow southwest for 7/8 of a mile. Turn left (south) and proceed 1/4 mile, turn left (east) into location.
- B. Culverts: None required.
- C. Cuts and Fills: A three 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:

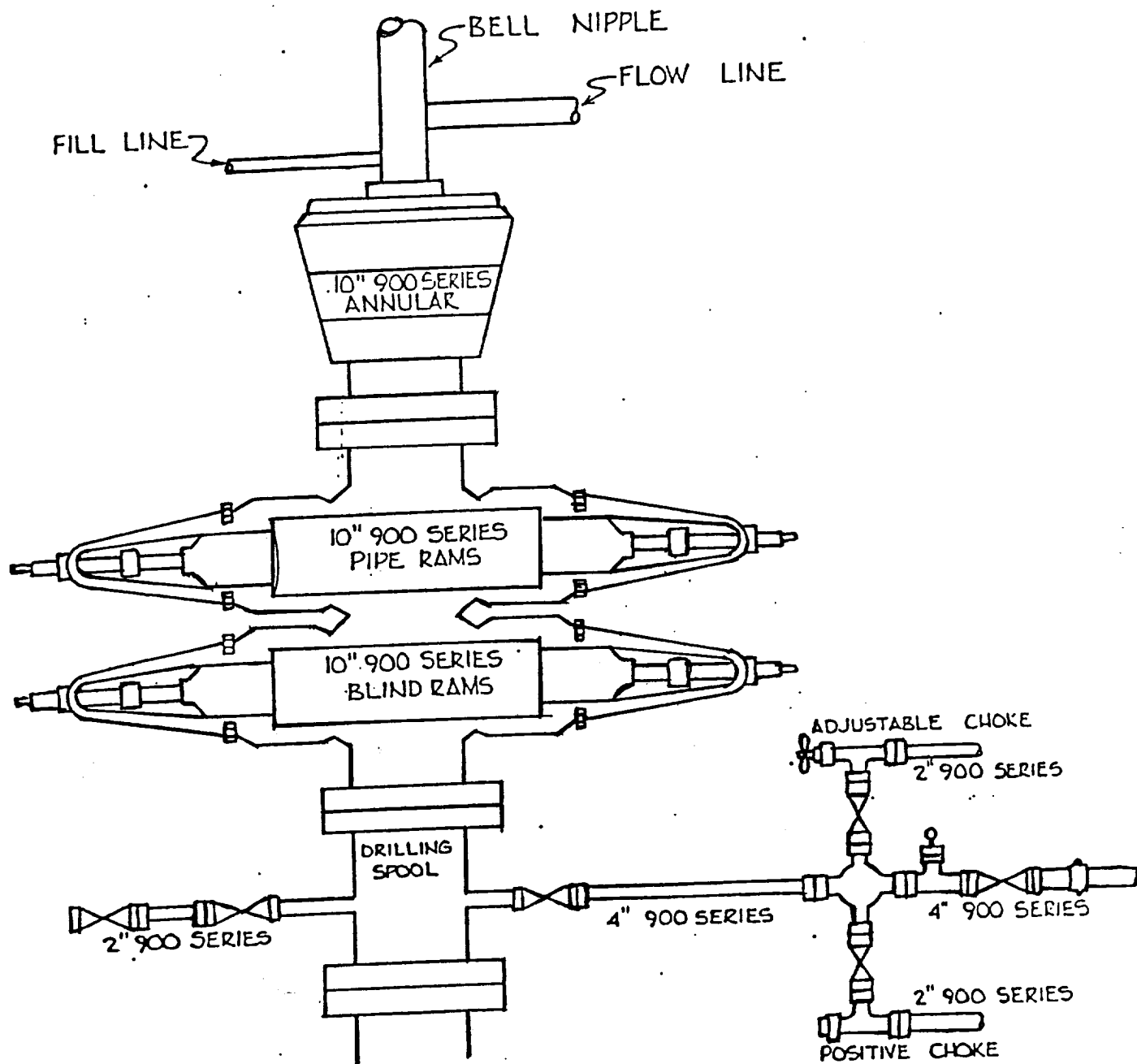
- A. Existing wells in a 1 mile radius are shown of Exhibit "B".

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  
 FEDERAL "T" # 1  
 LEASE # NM-42410  
 990' FEL & 660' FNL  
 SEC.12-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

RECEIVED

JUN 15 '90

O. C. D.  
ARTESIA, OFFICE

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

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

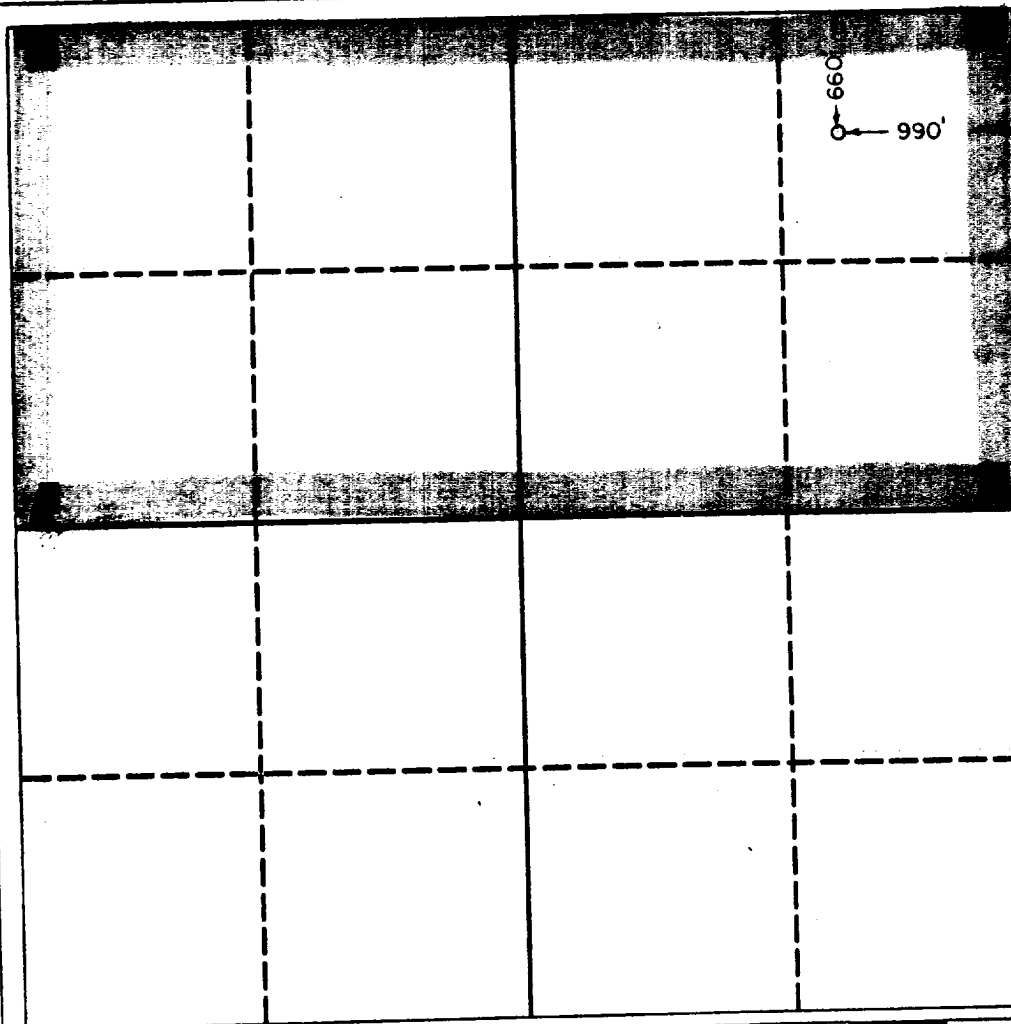
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator <b>MEWBOURNE OIL COMPANY</b>			Lease <b>FEDERAL "T"</b>		Well No. <b>1</b>
Unit Letter <b>A</b>	Section <b>12</b>	Township <b>18 South</b>	Range <b>27 East</b>	County <b>NMPM</b>	<b>Eddy</b>
Actual Footage Location of Well: <b>660</b> feet from the <b>North</b> line and <b>990</b> feet from the <b>East</b> line					
Ground level Elev. <b>3618.9</b>	Producing Formation <b>Morrow</b>		Pool <b>North Illinois Camp Morrow</b>		Dedicated Acreage: <b>320 Acres</b>

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

Printed Name

W.H. Cravey

Position

District Supt.

Company

Mewbourne Oil Company

Date

April 12, 1990

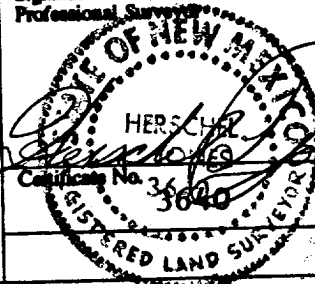
### SURVEYOR CERTIFICATION

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

4/7/90

Signature & Seal of  
Professional Surveyor



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

Box 5270; Hobbs, New Mexico 88241

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

At surface

660' FNL & 990' FEL

At proposed prod. zone

SAME

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

8 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)

660'

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

10,300'

20. ROTARY OR CABLE TOOLS

Rotary

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

3618.9' GR

22. APPROX. DATE WORK WILL START\*

Upon BLM 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#	450' ±	450 sks. Class C Circulated
11"	8 5/8"	24# & 32#	2600' ±	700 sks. Class C Tie back into
7 7/8"	5 1/2"	17# & 20#	10,300' ±	600 sks. Class H surf.

Mud Program :

0 - 450' Spud mud with fresh water gel and lime. LCM as needed.

450' - 2600' Fresh water gel and lime. LCM as needed.

2600' - 8500' Cut brine with lime for pH control. WT. 9.2 - 9.6ppg, WL - NG, LCM as needed.

8500' - 10,300' Cut brine with Drispac, salt gel, lime, soda ash, and starch. 9.2 - 9.6 ppg. WL 10 cc's 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 8 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. For W.H. Cravey

SIGNED

TITLE District Superintendent

DATE 5/18/90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Orig. Signed by Richard L. ...

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

\*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 plat, or 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0110  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-42410

IF INDIAN, ALLOTTEE OR TRIBE NAME

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" for such proposals.)

1. 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 P. O. Box 7698, Tyler, Texas 75711	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FNL & 990' FEL	5. UNIT AGREEMENT NAME	6. FARM OR LEASE NAME FEDERAL "T"	7. WELL NO. 1	8. FIELD AND POOL, OR WILDCAT North Illinois Camp Morrow	9. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 12-18S-27E	10. COUNTY OR PARISH Eddy	11. STATE N.M.
12. PERMIT NO. API #30-015-26404	13. ELEVATIONS (Show whether OF, RT, GR, etc.) 3618.9' GR		14. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data							

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

17. 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.)\*

6/29/90 - Spud at 12:15 PM 6/28/90.

Ran 15 joints 13-3/8" 68# New LT&C Casing set at 472' cemented with 100 sxs of Class "C" Thixad containing 3% CaCl<sub>2</sub> + 1/2#/sx Celloseal + 5#/Sx Gilsonite followed by 200 sxs of Class "C" containing 6% gel + 1/2# Celloseal + 5#/sx. Gilsonite + 3% CaCl<sub>2</sub> followed by 150 sxs of Class "C" Neet + 3% CaCl<sub>2</sub>. Plug down at 6:12 AM 6/29/90. Circulated 50 sxs of cement. Insert float in collar of first joint did not hole. Left casing SI with 300#.

7/05/90 - Ran 58 jts 8-5/8" J-55 32# 8rd ST&C New LS set at 2589' cemented with 650 sxs Class "C" cement + 6.00% gel + 5# Gilsonite + 0.5# Cello-seal + 3% CaCl<sub>2</sub> followed by 250 sxs Class "C" + 2% CaCl<sub>2</sub>. Plug down to 2543' with 1300# at 6:20 PM 7/04/90 with full returns. Float held OK. Circulated 50 sxs.

ACCEPTED FOR RECORD

*As*

JUL 16 1990

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

SIGNED

TITLE Engr. Oprns. Secretary

DATE 7/05/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-G-1  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-42410

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

FEDERAL "T"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

N. Illinois Camp Morrow

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR ALMA

12-18S-27E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different depth.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

RECEIVED

SEP 13 '90

O. C. D.  
ARTESIA, OFFICE

OIL WELL ☐ GAS WELL ☒ 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.  
See also space 17 below.)  
At surface

660' FNL & 990' FEL

14. PERMIT NO.

API #30-015-26404

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

3618.9' FR

16

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

17. 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.) \*

8/12/90 - Ran 5-1/2" casing as follows: 237 jts N-80, 17#, LT&C Used  
Casing set at 9473', cemented with 430 sxs Class "H" + .7 CF-14 +  
5# salt + 1/4# Celloseal. Overdisplaced 1 bbl without bumping plug.  
No back flow or vacuum.

8/27/90 - Ran 4" liner set at 10,140' with top of liner at 9055'. Pumped  
500 gallons Sure Bone, followed by 5 bbl fresh water. Spaced and  
cemented with 80 sacks Class "H" with 1% CF-14. Liner wiper plug  
down at 11:30 AM.

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

SIGNED

TITLE Engr. Oprns. Secretary

DATE 9/06/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-42410

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" 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. See also space 17 below.) At surface 660' FNL & 990' FEL	
14. PERMIT NO. API #30-015-26404		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3618.9' GR	
12. COUNTY OR PARISH Eddy		13. STATE N.M.	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input checked="" type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input checked="" type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. 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.)

9/14/90 - Perforated Morrow 10,008-014', 12 holes; 10,038-054', 36 holes. Total 48 holes 24'.

9/15/90 - Halliburton broke down perfs with 2000 gals 7½% Morflo B.C. acid containing 1000 SCF/Bbl N<sub>2</sub> carrying 96 ball sealers and flushed with 23 bbls 2% KCL water containing 1000 SCF/Bbl N<sub>2</sub>. Pressured casing to 1000#. Had good ball action. ISDP 5050#. In 5 mins., 4580#, In 10 mins, 4300#, In 15 mins, 4130#. Max 6000#. Max Rate 3.7 BPM. Avg 5850#. Avg Rate 3.4 BPM. 71 Bbls load to recover.

9/26/90 - Halliburton frac'd Morrow perfs with 8900 gals gelled 2% KCL water + 87 tons of CO<sub>2</sub> carrying 11,500# 20/40 Interprop. Pressured annulus to 2000#. ISDP 5340#. In 5 mins 5080#, in 10 mins 4950#, in 15 mins 4850#. Avg 9500#. Avg rate 6 BPM. Max 9800#. Max rate 6.7 BPM. 211 bbls load to recover.

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

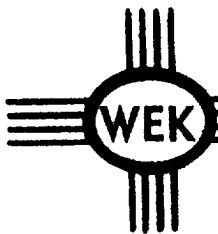
SIGNED [Signature] TITLE Engr. Oprns. Secretary DATE 10/02/90

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



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

JAN 31 1991

August 29, 1990

O. C. D.  
ARTESIA OFFICE

Mewbourne Oil Co., Inc.  
P.O. Box 5270  
Hobbs, NM 88241

Ref: Federal "T" #1

Gentlement:

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

472' - $\frac{1}{4}^{\circ}$	4062' - $\frac{1}{2}^{\circ}$	6841' - $3\frac{1}{4}^{\circ}$
840' - $1^{\circ}$	4560' - $\frac{1}{2}^{\circ}$	6934' - $3\frac{1}{2}^{\circ}$
1380' - $\frac{1}{2}^{\circ}$	5048' - $0^{\circ}$	7026' - $2\frac{3}{4}^{\circ}$
1759' - $\frac{1}{4}^{\circ}$	5546' - $3\frac{1}{4}^{\circ}$	7148' - $2\frac{3}{4}^{\circ}$
2253' - $3\frac{1}{4}^{\circ}$	5950' - $1\frac{1}{4}^{\circ}$	7272' - $2^{\circ}$
2589' - $\frac{1}{4}^{\circ}$	6479' - $3\frac{3}{4}^{\circ}$	8137' - $2^{\circ}$
3068' - $\frac{1}{2}^{\circ}$	6564' - $4\frac{1}{2}^{\circ}$	8815' - $2^{\circ}$
3567' - $\frac{1}{4}^{\circ}$	6626' - $4\frac{1}{4}^{\circ}$	9470' - $1\frac{3}{4}^{\circ}$
		10141' - TD

Sincerely,

Arnold Newkirk  
Vice-President

STATE OF NEW MEXICO)

COUNTY OF CHAVES )

The foregoing was acknowledged before me on this 29th day of August 1990 by Arnold Newkirk.

My Commission Expires:

10-07-1992

  
Notary Public

SHIPPED AUG 31 1990

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL  
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 <input type="checkbox"/>		
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. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>
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 FEDERAL "T"	
4. LOCATION OF WELL (Report location clearly and in accordance with State requirements)* At surface 660' FNL & 990' FEL At top prod. interval reported below At total depth Same						9. WELL NO. 1	
10. FIELD AND POOL, OR WILDCAT North Illinois Camp Morrow						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 12-18S-27E	
12. COUNTY OR PARISH Eddy						13. STATE N.M.	
15. DATE STUDDED 6/28/90		16. DATE T.D. REACHED 8/25/90		17. DATE COMPL. (Ready to prod.) 9/13/90		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 3634', DF 3632', GL 3618'	
20. TOTAL DEPTH, MD & TVD 10,141'		21. PLUG BACK T.D., MD & TVD 10,100'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS X	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 10,008-054' Morrow						25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN DLL-MGRD, SDL-DSN						27. WAS WELL CORED No	

CASING RECORD (Report all strings set in well)					
CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	68#	472'	17-1/2"	450 sacks - Circ	None
8-5/8"	32#	2589'	12-1/4"	900 sacks - Circ	None
5-1/2"	17#	9473'	7-7/8"	430 sacks - Circ	None

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4"	9055'	10,141'	80		2-3/8"	9842'	8888'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
10,008-014', 12 holes) 24'		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10,038-054', 36 holes)		10,008-054'	2000 gals 7½% acid. Frac'd w/ 8900 gals 2% KCL wtr + 87 tons CO <sub>2</sub> + 11,500# 20/40 Interprop.

33.* PRODUCTION							
DATE FIRST PRODUCTION 9/15/90		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Shut-in WOPL	
DATE OF TEST 10/03/90	HOURS TESTED 24 hrs.	CHOKE SIZE 34/64"	PROD'N. FOR TEST PERIOD →	OIL—BBL. 1 BC	GAS—MCF. 923	WATER—BBL. 2	GAS-OIL RATIO 923:1
FLOW. TUBING PRESS. 160#	CASINO PRESSURE 0#	CALCULATED 24-HOUR RATE →	OIL—BBL. 1 BC	GAS—MCF. 923	WATER—BBL. 2	OIL GRAVITY-API (CORR.) 58.0°	
34. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.) Vented						TEST WITNESSED BY Eric Nelson	

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. Oprns. Secretary DATE 10/25/90

\*(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.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Penrose	1522'	1556'	Sandstone	Yates	476'	
Atoka	9566'	9575'	Sandstone	Queen	1218'	
Middle Morrow	9902'	9928'	Sandstone	Grayburg	1572'	
Lower Morrow	10008'	10054'	Sandstone	San Andres	2072'	
DST #1 Drinkard	5749'	5850'	No cushion. Tool open 30 mins. IFP 88-45#, ISIP 296#. 62 mins. FFP 88-50#. FSIP 430#. 120 mins. Recovered 30' drilling fluid.	Tubb	4824'	
				Abo	6016'	
				Wolfcamp	6716'	
				Cisco	7682'	
				Strawn	8912'	
DST #2 Abo	6475'	6499'	No cushion. Tool open 30 mins. IFP 72-37#. ISIP 1953#. 60 mins. FFP 59-59# 60 mins. FSIP 1894#. 120 mins. Recovered 2' free oil, 122' drilling fluid.	Atoka	9513'	
				Morrow	9628'	
				Morrow Clastics	9828'	
				Lower Morrow	9965'	
				Barnett	10104'	

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 31 1991

O. C. D.  
ARTESIA OFFICE

REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

Operator Mewbourne Oil Company ✓		Well AP# 30-015-26404
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 FEDERAL "T"	Well No. 1	Pool Name, including Formation North Illinois Camp Morrow	Kind of Lease Federal or Leasing	Lease No. NM-42410
Location Unit Letter A : 660 Feet From The North Line and 990 Feet From The East Line Section 12 Township 18S Range 27E, NMPM, Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil or Condensate <input type="checkbox"/> or <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 A Sec. 12 Twp. 18S Rge. 27E	Is gas actually connected? No	When? February, 1991

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 6/28/90	Date Compl. Ready to Prod. 9/13/90	Total Depth 10,141'		P.B.T.D. 10,100'				
Elevations (DF, RKB, RT, GR, etc.) DF 3632', GL 3618'	Name of Producing Formation Morrow	Top Oil/Gas Pay 10,008'		Tubing Depth 9,842'				
Perforations 10,008-054'				Depth Casing Shoe ---				
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT				
17-1/2"	13-3/8"	472'		450				
12-1/4"	8-5/8"	2589'		900				
7-7/8"	5-1/2"	9473'		430				
5-1/2"	4" Liner	10140'		80				

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	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size 3-15-96 comp & BK
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 923	Length of Test 24 hours	Bbls. Condensate/MMCF 1	Gravity of Condensate 58°
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 2300#	Casing Pressure (Shut-in) ---	Choke Size 34/64"

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. Sec.  
Printed Name  
1/28/91 (903) 561-2900  
Date  
Telephone No.

OIL CONSERVATION DIVISION

Date Approved  
MAR 12 1991  
By  
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.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 10-11-90			
Company Mewbourne Oil Company				Connection Vented				Office	
Pool North Illinois Comp Morrow				Formation Morrow				Unit A	
Completion Date 09-13-90		Total Depth 10141		Plug Back TD 10100		Elevation 3634 KB		Farm or Lease Name Federal T	
Csg. Size 4"		Wt. 10.46		Set At 10141		Perforations: From 10008 To 10054		Well No. 1	
Thg. Size 2 3/8		Wt. 4.7		Set At 9842		Perforations: From OPEN To END		Unit Sec. Twp. Rys. A 12 18S 27E	
Type Well - Single - Drishead - G.C. or G.O. Multiple Single						Packer Set At 8888		County Eddy	
Producing Thru TBG		Reservoir Temp. °F 174 @ 10031		Mean Annual Temp. °F 60		Baro. Press. - P <sub>a</sub> 13.2		State New Mexico	
L 10031		H 10031		G <sub>g</sub> .656		% CO <sub>2</sub> 2.293		% N <sub>2</sub> .39	
						% H <sub>2</sub> S ---		Prover 2.067	
								Meter Run 2.067	
								Taps Flg.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2745		PKR		72 hrs
1.	2	X	1.250	67	12.96	56	2590		PKR		1 hr.
2.	2	X	1.250	167	14.44	50	2470		PKR		1 hr.
3.	2	X	1.250	179	65.61	47	2110		PKR		1 hr.
4.	2	X	1.250	299	94.09	54	1630		PKR		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Super Compress. Factor F <sub>pv</sub>	Rate of Flow Q, Mscf/d
1.	8.120	32.24	80.2	1.004	1.235	1.010	328
2.	8.120	51.01	180.2	1.010	1.235	1.020	527
3.	8.120	112.30	192.2	1.013	1.235	1.021	1165
4.	8.120	171.39	312.2	1.006	1.235	1.036	1791
5.							

NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.12	516	1.38	.981	61.2	
2.	.26	510	1.37	.962	58.0 @ 60°	
3.	.28	507	1.36	.959	A.P.I. Gravity of Liquid Hydrocarbons	58.0
4.	.46	514	1.38	.932	Specific Gravity Separator Gas	.656
5.					Specific Gravity Flowing Fluid	XXXXXX
					Critical Pressure	*678
					Critical Temperature	*372

NO.	P <sub>r</sub> <sup>2</sup>	P <sub>w</sub> <sup>2</sup>	P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1.	2696.2	7269.5	667.7	1.561	1.521
2.	2555.8	6532.1	1405.1		
3.	2173.1	4722.4	3214.8		
4.	1689.2	2853.4	5083.8		
5.					

Absolute Open Flow				2,724		Mscf @ 15.025		Angle of Slope θ		46.7		Slope, n		.942	
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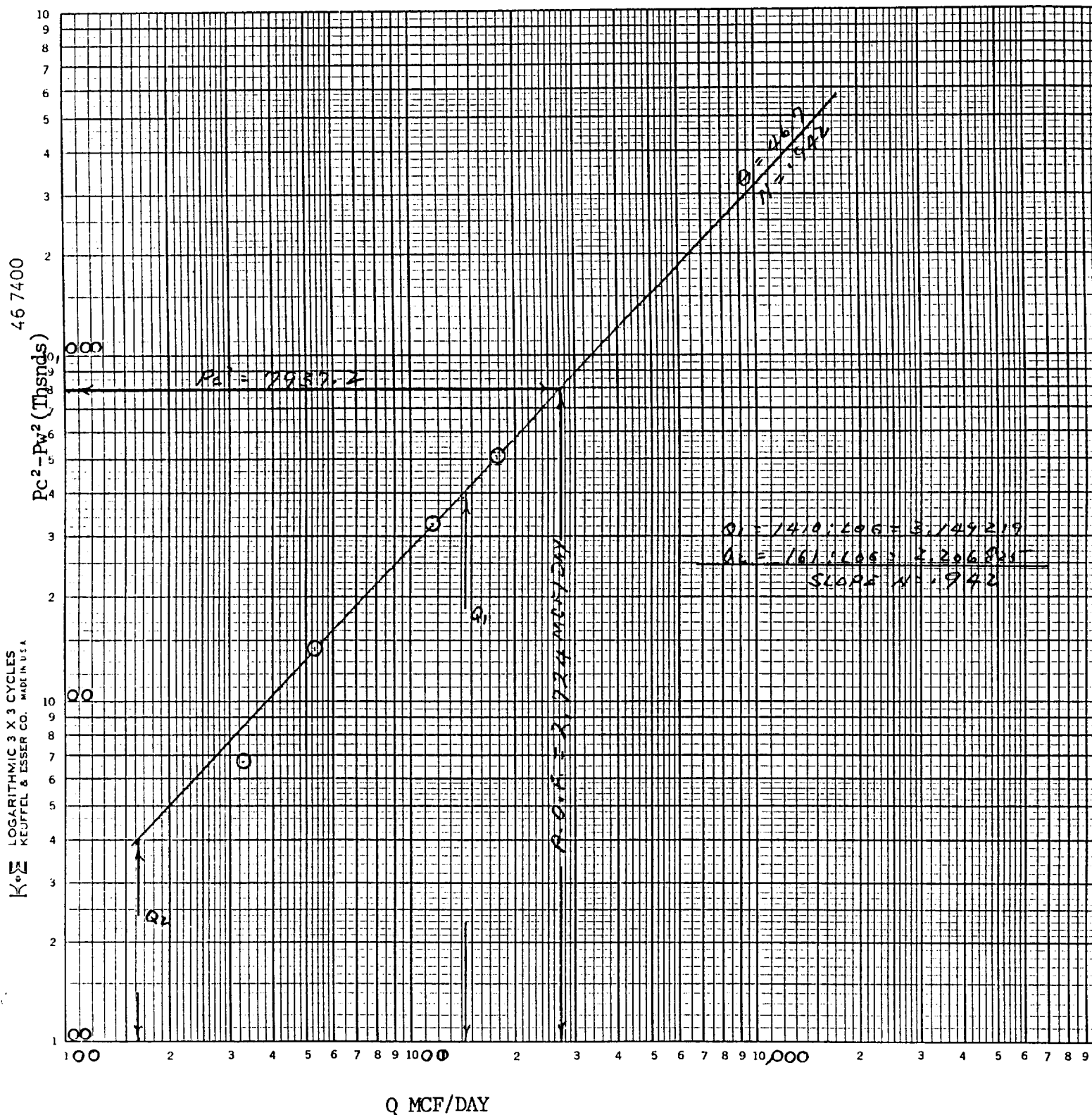
  

Remarks		*=corrected to 2.293% CO <sub>2</sub> & .39% N <sub>2</sub>	
		Well made 2.6 BBLS 58.0 API CONDENSATE during test & .5 BBL H <sub>2</sub> O	

Approved By Division	Conducted By:	Calculated By:	Checked By:
----------------------	---------------	----------------	-------------

Mewbourne Oil Company  
 Federal T, Well #1  
 Eddy County, New Mexico  
 12 - 18S - 27E  
 10-11-90



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. 30-015-26404
Address P.O. Box 5270 Hobbs, New Mexico		
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 Federal "T"	Well No. 1	Pool Name, Including Formation North Illinois Camp Morrow	Kind of Lease <del>State</del> , Federal <del>Oil</del>	Lease No. NM-42410
Location Unit Letter A : 660 Feet From The North Line and 990 Feet From The East Line Section 12 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"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Pipeline Inter-corporate Trucking	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)
Transwestern Pipeline Company	P.O. Box 1188 Houston, Texas 77251-1188
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When?
A 12 18S 27E	Yes 02/07/91

If this production is commingling 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
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

### 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	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

### 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 W.H. Cravey District Supt.  
Printed Name W.H. Cravey Title  
Date 02/18/91 Telephone No. (505) 393-5905

### OIL CONSERVATION DIVISION

Date Approved MAR 12 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 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.





BRUCE KING  
GOVERNOR

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
ARTESIA DISTRICT OFFICE

P.O. DRAWER 00  
ARTESIA, NEW MEXICO 88211  
(505) 748-1283

Date: August 9, 1991

*Newbourne Oil Co.*  
*P.O. Box 5270*  
*Hobbs, N.M. 88241*

Re: Wells placed in pool~~x~~

Gentlemen:

As the result of Division Order R-9545 the following described well (s) ~~has~~ have) been placed in the pool ~~to~~ 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.

North Illinois Camp- Morrow Gas Pool-78890

Federal T #1 A-12-18-27

Chalk Bluff Fed. Com. #1 N-1-18-27

Transporters are advised, by copy of this letter, to change their records to reflect the pool name as established by this order, effective July 1, 1991.

Sincerely,

*Darrell Moore*

Darrell Moore  
District Geologist

cc: Each Transporter Amoco Pipeline, Transwestern  
Santa Fe  
Mae  
Well File ✓  
Joe Chism  
BLM

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Bureau Form No. 1004-103  
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

RECEIVED

AUG - 2 1993

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)

660' FNL & 990' FEL  
Sec. 12-T18S-R27E

NM-42410

6. If Indian, Allotment or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal "T" No. 1

9. API Well No.

10. Field and Pool, or Exploratory Area

Canyon

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. Plug back existing perforations (10,008'-10,054') with a CIBP @ 9950' and 9040'.  
Cap both plugs with 50' cement.
2. Perforate the Cisco formation @ 7700'-8050'.
3. Stimulate if necessary.



Procedure per conversation with Adam S. on June 23, 1993.

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

Signed

Title District Supt.

Date July 14, 1993

(This space for Federal or State office use)

Approved by (ORIG. SGD.) DAVID R. GLASS

Title Petroleum Engineer

Date JUL 14 1993

Conditions of approval, if any:

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONS. COMMISSION

Drawer DD

Carlsbad, NM 88210

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

5. Lease Designation and Serial No.

NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal "T" #1

9. API Well No.

30-015-26404

10. Field and Pool, or Exploratory Area

North Illinois Camp Morrow

11. County or Parish, State

Eddy Co. New Mexico

## 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)

660' FNL &amp; 990' FEL

Sec. 12-T18S-R27E

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

## TYPE OF SUBMISSION

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

## TYPE OF ACTION

- ☐
- Abandonment
- 
- ☒
- Recompletion
- 
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- Plugging Back
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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.)\*

\* Verbal from Adam Salameh

08/14/93 Well pumping 1442 BW. 0 BO, 0 MCF from attempted completion in Cisco formation. MIRU well service rig.

08/15/93 Set CIBP @ 7595' over Cisco Perfs (7685'-7695'). Dump 4 sx. cmt. on plug. Perf. Wolfcamp formation (7330'-7360') (44 H)

08/16/93 Swabbed well down w/no entry.

08/17/93 Acidized Wolfcamp formation w/3000 gal 15% FE acid. Swabbed water w/no show of oil or gas.

08/18/93 Set CIBP @ 7300' over Wolfcamp formation (7330'-7360'). Dump 4 sx. cmt. on plug. Perf'd Wolfcamp formation (7092'-7146') (62H). Swabbed well down. No entry.

08/19/93 Acidized Wolfcamp formation (7092'-7146') w/3000 gal. 15% FE acid.

08/20/93 Swabbed well w/no show of oil or gas.

08/21/93 Set CIBP @ 7078' over Perfs (7092'-7146'). Perf'd Wolfcamp (6868'-7038') (80H)

08/22/93 Acidized Wolfcamp formation (6868'-7038') w/3000 gal. 15% FE acid.

08/24/93 Swabbing water w/trace of oil.

08/26/93 Acid frac'd Wolfcamp (6868'-7038') w/3000 gal. 20% FE acid & 15,000 gal. gel water. See attached page.

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

Signed



Title Production Engineer

Date 09/08/93

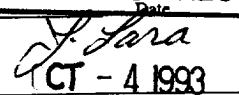
(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

ACCEPTED FOR RECORD

  
CT - 4 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 Instruction on Reverse Side

CARLSBAD, NEW MEXICO

08/27/93 RIH w/pump & started pumping well.  
08/28/93 0 B0 276 BW 8 MCF  
09/03/93 5 B0 30 BW 5 MCF  
09/05/93 2 B0 25 BW 4 MCF

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

AUG 24 11 03 AM '93

## 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

RECEIVED

SEP - 8 1993

O.C.D.

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

Newbourne 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)

660' FNL &amp; 990' FEL Sec. 12-T18S-R27E

## 5. Lease Designation and Serial No.

NM-42410

## 6. If Indian, Allottee or Tribe Name

## 7. If Unit or CA, Agreement Designation

## 8. Well Name and No.

Federal "T" #1

## 9. API Well No.

30-015-26404

## 10. Field and Pool, or Exploratory Area

North Illinois Camp

## 11. County or Parish, State

Morrow

Eddy Co. N.M.

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

## TYPE OF SUBMISSION

- ☐
- Notice of Intent
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- ☒
- Subsequent Report
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- ☐
- 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.)\*

Verball from Adam - BLM.

07/19/93 Set 4" CIBP @ 9950' over Morrow Perfs. (10,008'-10,054') Dump 2 sx. cmt.  
07/21/93 Set 5-1/2" CIBP @ 9040' @ top of liner. Dumped 4 sx. cmt.  
07/22/92 Perf. Cisco Formation (8034'-8042' w/2 SPF & 8055'-8060' w/2SPF. Swabbed tested all water.  
07/24/93 Set cmt. retainer @ 8000'. Pumped 100 sx. cmt. into perfs. (8034'-8060')  
07/25/93 Perf. Cisco Formation 7832'-7840' w/2 SPF. Swab tested all water.  
07/27/93 Set cmt. retainer @ 7820'. Pumped 100 sx. cmt. into perfs. (7832'-7840')  
07/28/93 Perf. Cisco Formation 7790'-7798' w/2 SPF. Swab tested all water.  
07/29/93 Set cmt. retainer @ 7780'. Pumped 100 sx. cmt. into perfs. (7790'-7798')  
07/30/93 Perf. Cisco Formation 7760'-7768' w/2 SPF. Swab tested all water.  
07/31/93 Set cmt. retainer @ 7745'. Pumped 100 sx. cmt. into perfs. (7760'-7768')  
08/01/93 Perf. Cisco Formation 7685'-7695' w/4 SPF. Swab tested water w/show of gas.  
08/03/93 Acidized Cisco Formation (7685'-7695') w/3000 gal 15% FE acid.  
08/04/93 RIH w/tbg. pump to 5033' & started pumping well.  
08/05/93 1100 BWPD No oil.  
08/06/93 1200 BWPD No oil.

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

Signed



Title Engineer

Date August 20, 1993

(This space for Federal or State office use)

Approved by

Title

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

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

OCT - 4 1993

REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

O. C. D.

I.

Operator <b>MEWBOURNE OIL COMPANY</b>	Well API No. <b>30-015-26404</b>
Address <b>P.O. BOX 5270, HOBBS, NM 88241</b>	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of: Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Recompletion <input type="checkbox"/>	Casinghead Gas <input checked="" type="checkbox"/> Condensate <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	

If change of operator give name and address of previous operator \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>FEDERAL "T"</b>	Well No. <b>1</b>	Pool Name, including Formation <b>NORTH ILLINOIS CAMP, WOLF CAMP</b>	Kind of Lease State, Federal or Fee	Lease No. <b>NM-42410</b>
Location Unit Letter <b>A</b> : <b>660'</b> Feet From The <b>FNL</b> Line and <b>990'</b> Feet From The <b>FEL</b> Line Section <b>12</b> Township <b>18S</b> Range <b>27E</b> , NMPM, <b>EDDY</b> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> <b>AMO</b>	Address (Give address to which approved copy of this form is to be sent)					
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> <b>GPM GAS CORPORATION</b>	Address (Give address to which approved copy of this form is to be sent) <b>BARTLESVILLE, OKLAHOMA 74004</b>					
If well produces oil or liquids, give location of tanks.	Unit <b>12</b>	Sec. <b>18S</b>	Twp. <b>27E</b>	Rge. <b>YES</b>	Is gas actually connected? <b>YES</b>	When? <b>8-1-93</b>

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
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Performations				Depth Casing Shoe				
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

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	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

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  
**JAY PRUDHOMME** PRODUCTION ENGINEER  
Printed Name  
**SEPT. 28, 1993** (505) 393-5905  
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved **OCT - 7 1993**

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

NM OIL GULF CO. 11111  
Drawer DD  
Artesia, NM 88210

FORM APPROVED  
Bureau Order No. 1004-0121  
Expires March 31, 1993

C/5P

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

RECEIVED

OCT 20 1993

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)

660' FNL & 990' FEL  
Sec. 12-T18S-R27F

NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal "T" #1

9. API Well No.

30-015-26404

10. Field and Pool, or Exploratory Area

North 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 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.)

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.)\*

Mewbourne Oil Company here by requests "shut-in" status pending further evaluation of the lease for the above well. The well was spudded 06/28/90. Attached is a copy of the stimulation report which charts the annulus pressure during a break down on the Wolfcamp recompletion.

CAUTION  
AREA

SEP 21 11 31 AM '93

RECEIVED

Approved For 12 Month Period

Ending 8/27/94

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

Signed

*Black Korman*

Title Production Engineer

Date 09/21/93

(This space for Federal or State office use)

Approved by

*Chas. L. ...*

Title

Petroleum Engineer

Date

10/18/93

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

# HALLIBURTON SERVICES

ACQUIRE Version 1.52

## CUSTOMER AND JOB INFORMATION

Customer	MEWBOURNE OIL	Date	21-Aug-1993
Contractor	X-PERT	County	EDDY
Lease	FED-T	Town	
Location	ARTESIA	Section	
Formation		Range	
Job Type	ACID	Permit No	
Country	USA	Well No	1
State	NH	Field Name	

Customer Representative BRENT THURMAP

Halliburton Operator TOMMY VAUGHN

Ticket No. 498331N0

## STAGE DESCRIPTIONS

ST ACID  
ST FLUSH

## WELL CONFIGURATION INFORMATION

Packer Type	COMP	Depth	6765 ft
Bottom Hole Temp.	120.0	Deg F	

## PIPE CONFIGURATION

Wellbore Segment Number	Measured Depth (ft)	TVD (ft)	Casing ID (inch)	Casing OD (inch)	Tubing ID (inch)	Tubing OD (inch)
1	6868	6868	4.950	5.500	2.441	2.875

## PERFORATIONS

Perforation Interval	Top (ft)	Bottom (ft)	Shots per (ft)
1	6868	7038	2

## REMARKS ABOUT JOB

TREAT AS INST

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NOTICE: THIS REPORT IS BASED ON SOUND ENGINEERING PRACTICES, BUT BECAUSE OF VARIABLE WELL CONDITIONS AND OTHER INFORMATION WHICH MUST BE RELIED UPON, HALLIBURTON MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OF THE DATA OR OF ANY CALCULATIONS OR OPINIONS EXPRESSED HEREIN. YOU AGREE THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE



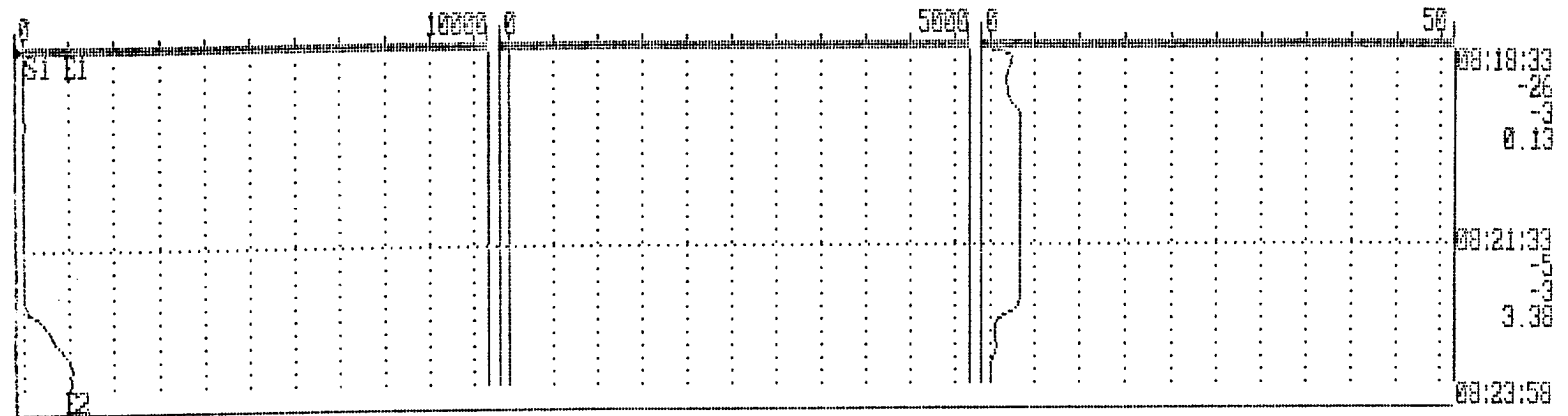
[illegible]

3. Clean Rate (bpm)

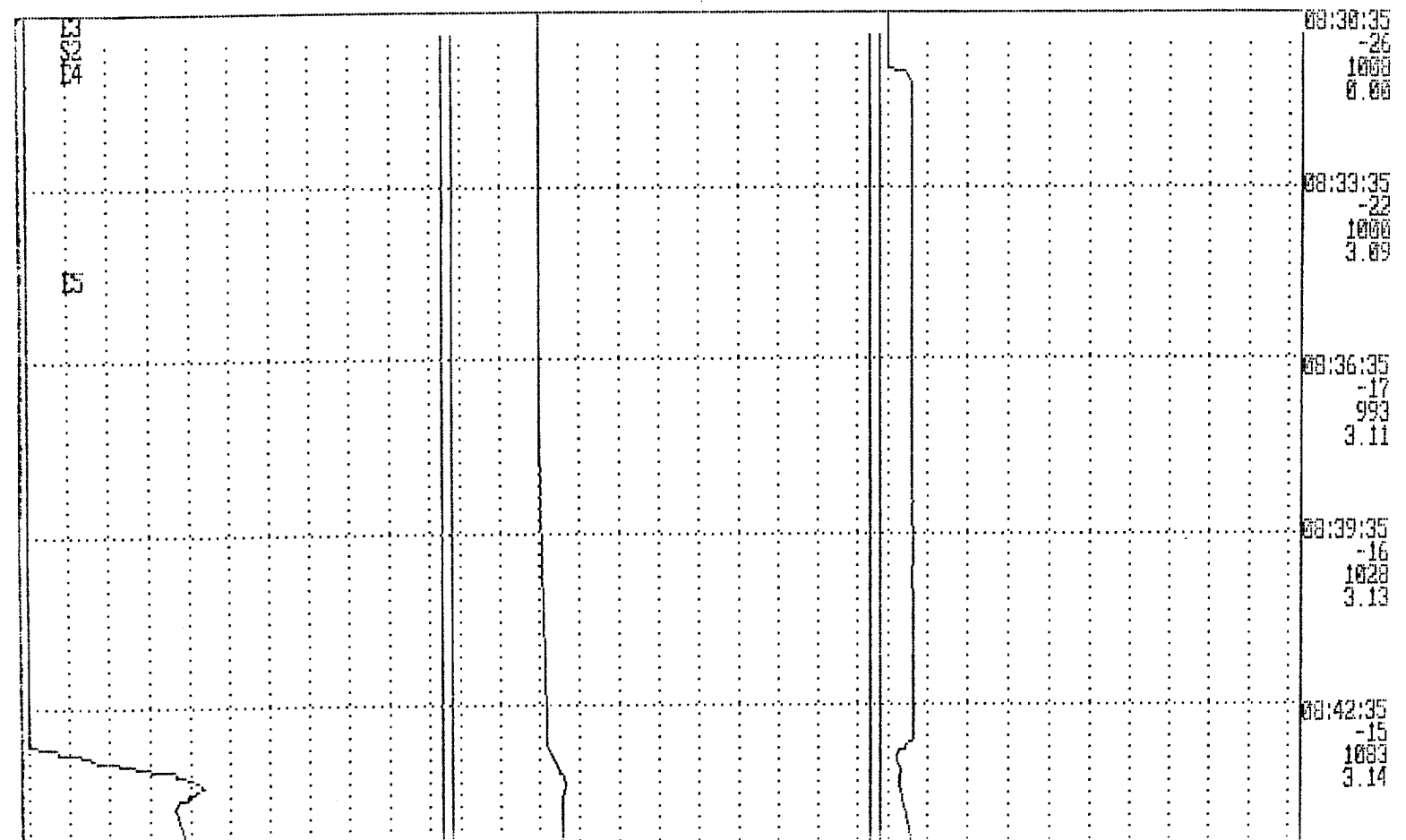
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pe i

SECRET



PAUSE



E7

08:48:35  
4135  
1226  
3.52

E8

08:51:35  
3839  
1225  
3.59

S3

E9

50 08:54:35  
3713  
1210  
3.62

E10

08:57:35  
3725  
1167  
4.05

E11

09:00:35  
3676  
1103  
4.05

E12

09:03:35  
3766  
1051  
4.03

E13

E14

09:06:35  
3037  
990  
0.00

E15

09:09:35  
2946  
978  
0.00

E16

09:12:35  
2879  
969  
0.00

09:15:35  
2822  
963  
0.00

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION  
Dr ar DP  
Artesia, NM 88203  
FORM APPROVED  
Budget Bureau No. 1004-0135  
March 31, 1993

CISF

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)

660' FNL & 990' FEL  
Sec. 12-T18S-R27E

Unit A

5. Lease Designation and Serial No.

NM 42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal T #1

9. API Well No.

30-015-26404

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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☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

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☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Casing Integrity Test

- ☐ 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.)

- Loaded casing with 80 bbls. water and tested to 1,000#. Lost 10# in 30 minutes.  
Casing integrity test witnessed and approved by BLM representative on 5/23/95.

- Had no pressure on 5-1/2" - 8-5/8" Annulus or 8-5/8" - 13-3/8" Annulus

RECEIVED

JUL 10 1995

ACCEPTED FOR RECORD OIL CON. DIV.  
J. Lara  
- 7 1995  
CARLSBAD, NEW MEXICO

RECEIVED

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

Signed

Title Engineer

Date 5/24/95

(This space for Federal or State office use)

Approved by  
Conditions of approval, if any

Title

Date

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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)

660' FNL & 990' FEL  
Sec. 12-T18S-R27E

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

5. Lease Designation and Serial No.

NM 42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal "T" #1

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30-015-26404

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N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co. N.M.

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(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.)\*

Mewbourne Oil requests temporary abandonment status for the above referenced well for the purpose of evaluating further behind pipe potential. This well passed the casing integrity test as noted on the attached sundry notice.

TH APPROVED FOR 12 MONTH PERIOD  
ENDING 5/23/96 RECEIVED  
AUG 30 1995

OIL CON. DIV.  
DIST. 2

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

Signed

Title Engineer

Date Aug. 3, 1995

(This space for Federal or State office use)

Approved by

Title

PETROLEUM ENGINEER

Date

Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT N.M. Oil Cons. Division

FORM APPROVED  
Budget Bureau No. 1004-0155  
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS  
811 S. 1st Street  
Artesia, NM 88210-2834

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

DEC 05 '96

O. C. D.  
ARTESIA, OFFICE

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)

660' FNL & 990' FEL  
Sec. 12-T18S-R27E

5 Lease Designation and Serial No.

NM 42410

6 If Indian Allottee or Tribe Name

7 If Unit or CA, Agreement Designation

8 Well Name and No.

Federal T #1

9 API Well No.

30-015-26404

10 Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11 County or Parish, State

Eddy Co., 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 Temporary Abandonment

- ☐ 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.)\*

Mewbourne Oil Company requests an extension of Temporary Abandonment Status for the above referenced well for the purpose of evaluating further behind pipe potential. This well passed the casing integrity test on 05/23/95 and indicates no additional tests should be needed.

NOV 27 9 50 AM '96  
RECEIVED

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

Signed

*Robert C. Jones*

Title

Engineer

Date 11/25/96

(This space for Federal or State official use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

CIS F

**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)

660' FNL & 990' FEL, Sec.12 T-18S R-27E

5. Lease Designation and Serial No.  
NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
Federal T #1

9. API Well No.  
30-015-26404

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

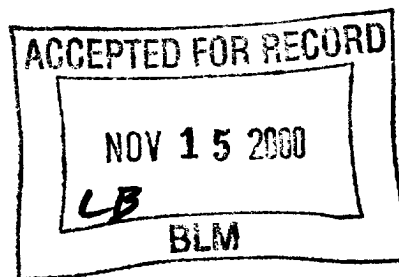
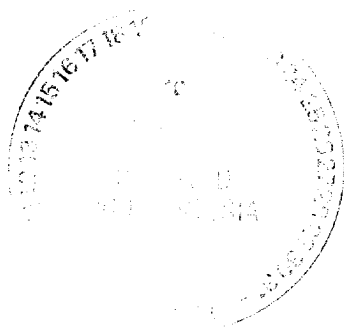
- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other MIT.

- ☐ 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. (520 psi for 30 mins.)  
The pressure chart is enclosed.  
If any question, please call.



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

Signed

*[Signature]*

Title N.M. Young

District Manager

Date 11/01/00

(This space for Federal or State office use)

Approved by

*Record Only*

Title

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.  
NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal T #1

9. API Well No.

30-015-26404

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy, NM

**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)

660' FNL & 990' FEL, Sec.12 T-18S R-27E

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 CIT & Extend T/A.  
☐ 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 is currently under T/A status. Mewbourne Oil Company would like to extend this status. The well has a 5 1/2" CIBP above all perfs @ 6800". 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-12-18S-27E 12 North 27E  
10/25/2000

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 Joe G. Lara

Title N.M. Young District Manager

Date 10/06/00

(This space for Federal or State office use)

Approved by **(Orig. Sgd.) JOE G. LARA**

Title Petroleum Engineer

Date 11/6/2000

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

CISF

OCD - Artesia

**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)

660' FNL & 990' FEL, Sec.12 T-18S R-27E

RECEIVED  
OCD - ARTESIA  
2000 OCT 10 10 11 12 13 14 15 16 17

5. Lease Designation and Serial No.

NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal T #1

9. API Well No.

30-015-26404

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  
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- ☐ Change of Plans  
☐ New Construction  
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(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 is currently under T/A status. Mewbourne Oil Company would like to extend this status. The well has a 5 1/2" CIBP above all perms @ 6800". 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

Note to Operator:

Please submit a copy of pressure test chart.

Rec'd a copy 07/11/2000

BUREAU OF LAND MGMT.  
OIL AND GAS RESOURCE AREA

2000 OCT 10 10 11 12 13 14 15 16 17

RECEIVED

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

Signed

N.M. Young

Title N.M. Young

District Manager

Date 10/06/00

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

J. L. Lara

Title

Patroleum Engineer

Date

11/6/2000

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.

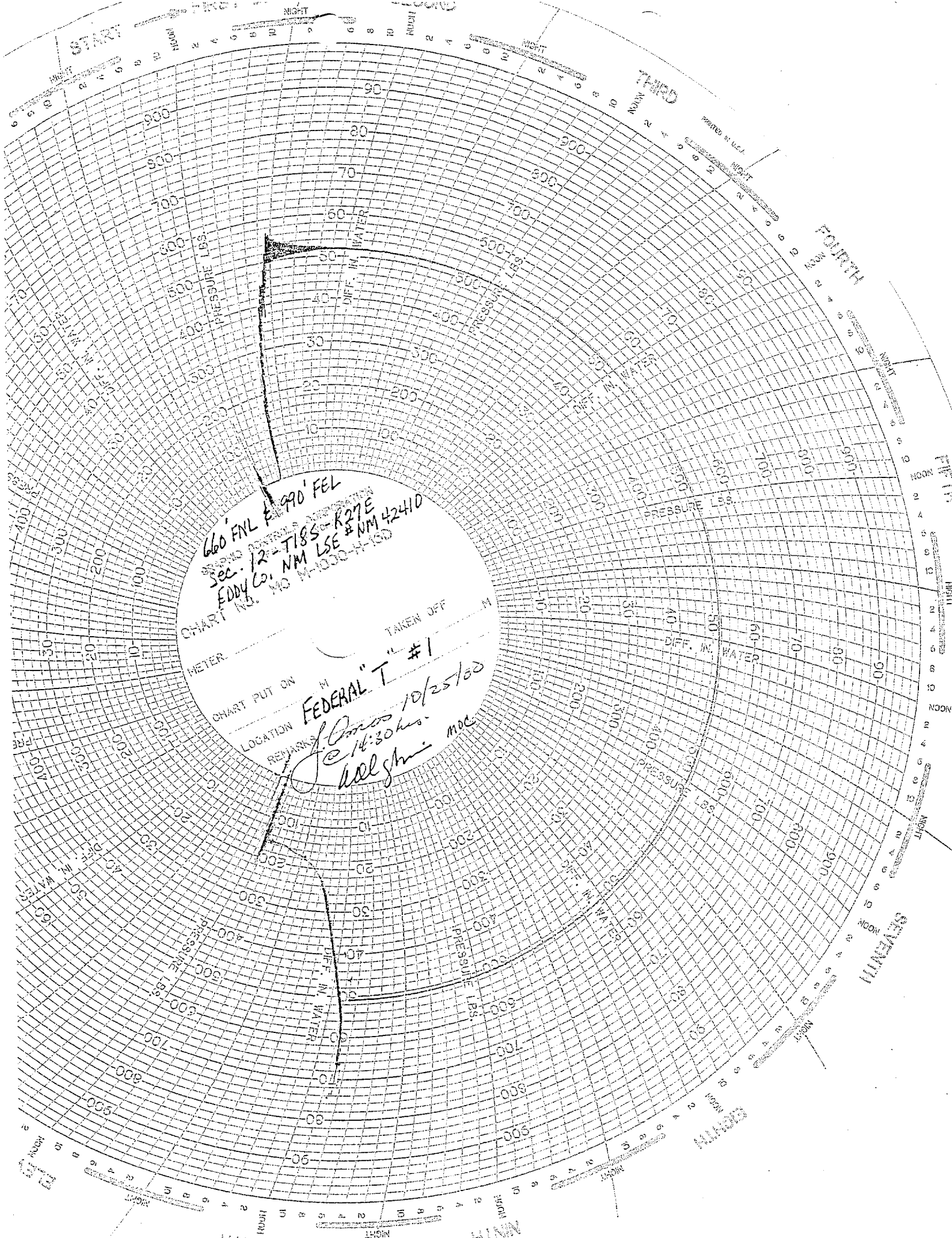
\*See Instruction on Reverse Side



RECEIVED

2000 NOV -9 P 2:16

RECEIVED AND LIGHT  
TO RESOURCE AREA



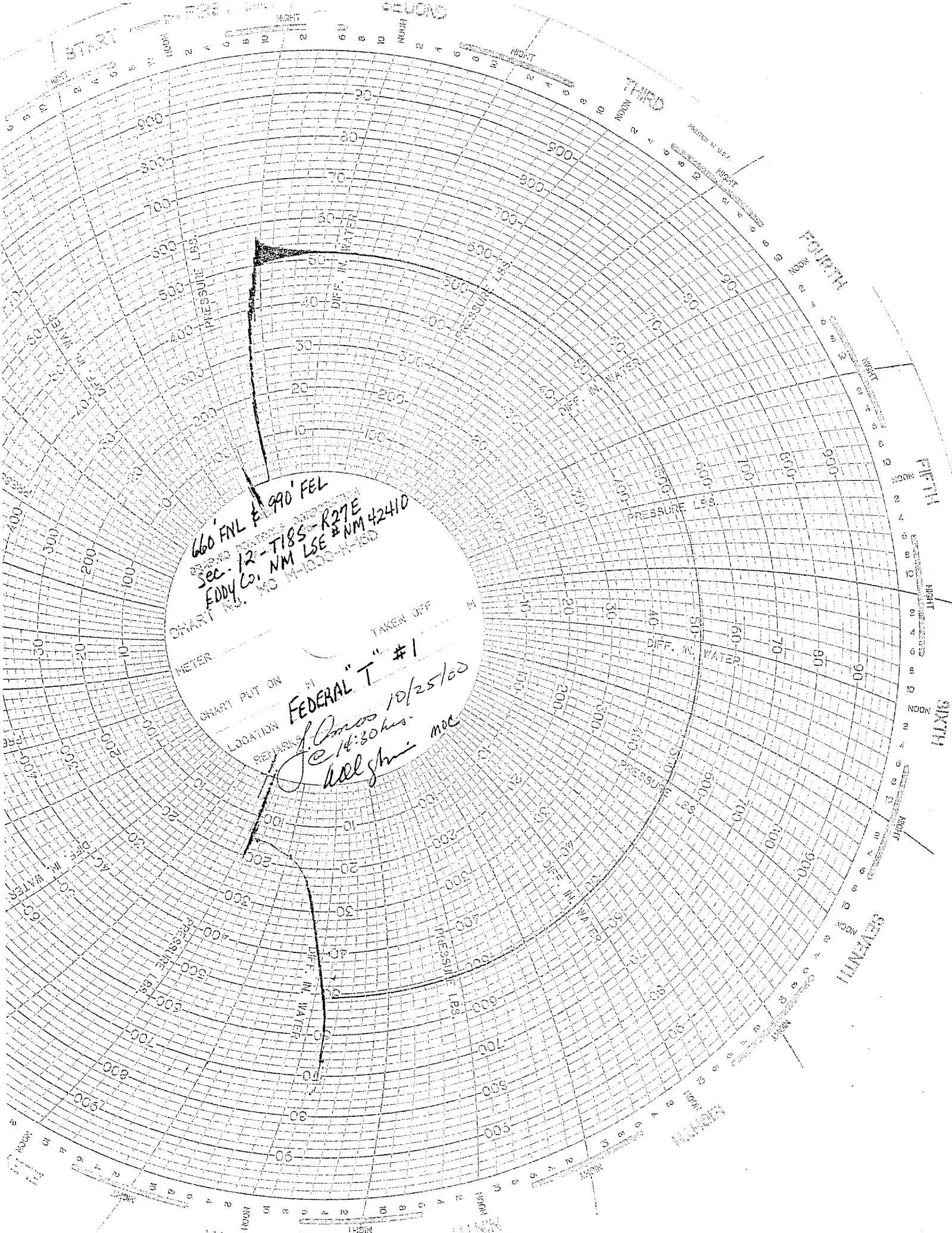
660' FNL & 990' FEL  
Sec. 12 - TISS - R27E  
EDDY CO. NM LSE & NM 42410

CHART NO. 10  
METER  
CHART PUT ON  
LOCATION  
REMARKS  
FEDERAL "T" #1  
10/25/60  
14:30 hrs.  
all gms. moc

RECEIVED

2003 NOV -9 1P 2:16

OFFICE AND MGMT.  
SPECIAL RESOURCE AREA



660' FNL & 990' FEL  
Sec. 12-T18S-R27E  
EDDY CO. NM LSE #NM 42410  
CHART NO. 1000-1-180

CHART PUT ON  
LOCATION  
REMARKS  
FEDERAL "T" #1  
J. Jones 10/25/00  
@ 14:30 hrs.  
adl shmi moc



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

*Field Inspection Program*

*"Preserving the Integrity of Our Environment"*

05-Dec-03

**MEWBOURNE OIL CO**

PO BOX 7698

TYLER, TX 75711-0000

## **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***

<b>FEDERAL T 001</b>	<b>A-12-18S-27E</b>	<b>30-015-26404-00-00</b>				
<b>Inspection Date</b>	<b>Type Inspection</b>	<b>Inspector</b>	<b>Violation?</b>	<b>*Significant Non-Compliance?</b>	<b>Corrective Action Due By:</b>	<b>Inspection No.</b>
12/05/2003	Routine/Periodic	Mike Bratcher	Yes	No	3/9/2004	iMLB0333931134
<b>Comments on Inspection:</b>	TA status for this well expired 10/25/01. Last production reported was 7/93. Well is in violation of Rule 201. (Idle Well)					

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.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

*Field Inspection Program*

*"Preserving the Integrity of Our Environment"*

05-Dec-03

**MEWBOURNE OIL CO**

PO BOX 7698

TYLER, TX 75711-0000

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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***

<b>FEDERAL T 001</b>		<b>A-12-18S-27E</b>		<b>30-015-26404-00-00</b>		
<b>Inspection Date</b>	<b>Type Inspection</b>	<b>Inspector</b>	<b>Violation?</b>	<b>*Significant Non-Compliance?</b>	<b>Corrective Action Due By:</b>	<b>Inspection No.</b>
12/04/2003	Routine/Periodic	Mike Bratcher	Yes	No	3/9/2004	iMLB0333840462
<b>Comments on Inspection:</b> Well sign is illegible and is not standing. Violation Rule 103.						

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.





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

9 January 2004

MEWBOURNE OIL CO

PO Box 7698

Tyler TX 75711

RE: Federal T 001      A-12-18s-27e      API 30-015-26404 Violation of Rule 103: Well sign violation

Dear Sirs:

This second directive is to notify you that these wells are still in violation of Rule 103

On December 4, 2003 a letter was sent notifying you on the violation of Rule 103. An inspection of the wells on January 6, 2004 found no action had been taken.

Rule 103 of the New Mexico Oil Conservation Division provides as follows:

## **103 SIGN ON WELLS**

All wells and related facilities by the Division shall be identified by a sign, which sign shall remain in place until the well is plugged and abandoned and the related facilities are closed. For drilling wells, the sign shall be posted on the derrick or not more than 20 feet from the well. The sign shall be of durable construction and the lettering shall be legible and large enough to be read under normal conditions at a distance of 50 feet. The wells on each lease or property shall be numbered in non-repetitive, logical and distinctive sequence. An operator will have 90 days from the effective date of an operator name change to change the operator name on the well sign unless an extension of time, for good cause shown along with a schedule for making the changes, is granted. Each sign shall show the:

1. number of well;
2. name of property;
3. name of operator;
4. location by footage, quarter-quarter section, township and range (or Unit Letter can be substituted for the quarter-quarter section), and
5. API number.

**In the event that a satisfactory response is not received to this letter of direction by February 6, 2004** 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,

Mike Bratcher, Compliance Officer

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT **OCD-ARTESIA**

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.**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

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

2. Name of Operator  
Mewbourne Oil Company 14744

3a. Address  
PO Box 5270 Hobbs, NM 88240

3b. Phone No. (include area code)  
505-393-5905

4. Location of Well (Footage, Sec., T, R., M., or Survey Description)  
660' FNL & 990' FEL, Sec 12-T18S-R27E

RECEIVED

APR 22 2004

OCD-ARTESIA

5. Lease Serial No.

NM-42410

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Federal T #1

9. API Well No.

30-015-26404

10. Field and Pool, or Exploratory Area

N Illinois Camp Morrow

11. County or Parish, State

Eddy Co NM

**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 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 MIT Test
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 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 above caption well was successfully MIT'ed on 01/26/04. (Pressured casing to 570#, held OK for 30 mins)  
The pressure chart is enclosed.

Requesting extension of temporary abandon status.  
5 1/2" CIBP set @ 6800'. No type of hardware in hole.

TA APPROVED FOR 12 MONTH PERIOD  
ENDING 1/26/05

Accepted for record - NMOCD

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

NM Young

Title Hobbs District Manager

Signature

Date 01/27/04

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (Signature) /s/ Joe G. Lara

Name (Printed/Typed) /s/ Joe G. Lara

Title Pet. Engr.

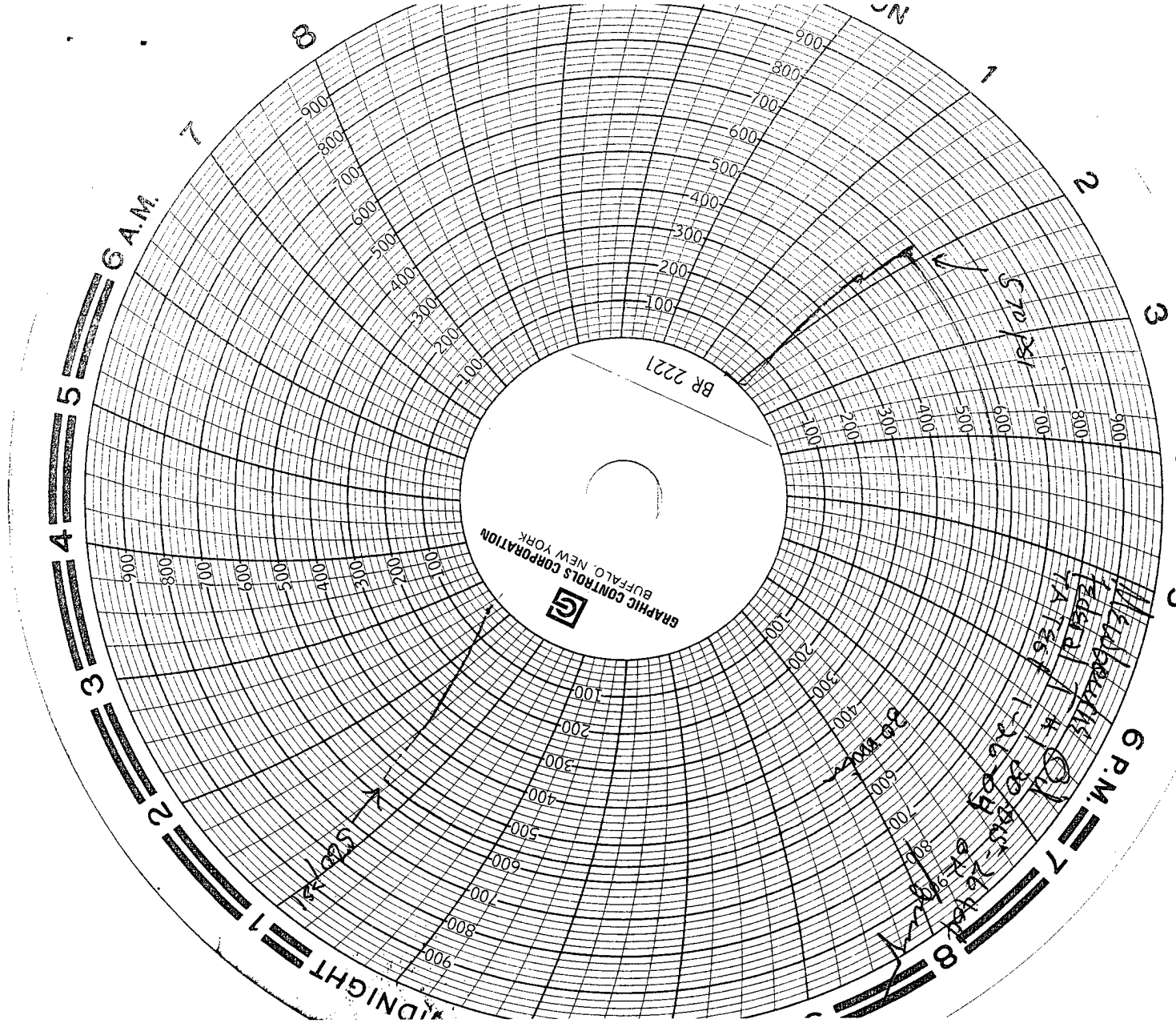
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD FIELD OFFICE

Date 4/20/04

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.

(Continued on next page)



RECEIVED  
APR 22 2004  
OEB-ARTESIA

C104AReport

Page 1 of 1

District II  
1301 W. Grand Ave., Artesia, NM 88210  
Phone:(505) 748-1283 Fax:(505) 748-9720

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

Form C-145  
Permit 72521

### Change of Operator

**Previous Operator Information**

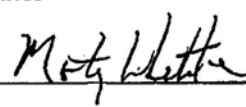
OGRID: 14744  
Name: MEWBOURNE OIL CO  
Address: PO BOX 5270  
Address:  
City, State, Zip: HOBBS, NM 88241

**New Operator Information**

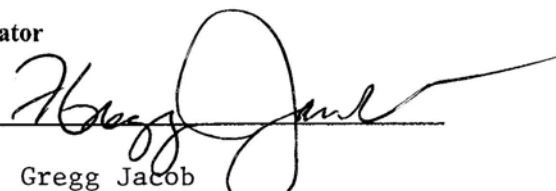
Effective Date: 4/1/2008  
OGRID: 6137  
Name: DEVON ENERGY PRODUCTION  
COMPANY, LP  
Address: 20 N Broadway  
Address:  
City, State, Zip: Oklahoma City, OK 73102

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

**Previous Operator**

Signature:   
Printed Name: Monty L. Whetstone  
Title: Vice-President Operations  
Date: 4/4/08 Phone: (903) 561-2900

**New Operator**

Signature:   
Printed Name: Gregg Jacob  
Title: Western Operations Manager  
Date: 4/07/08 Phone: (405) 552-4591

**NMOCD Approval**

Electronic Signature: Carmen Reno, District 2  
Date: April 07, 2008

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS

S

OCD-ARTESIA

FORM APPROVED  
OMB NO. 1004-0135  
EFFECTIVE DATE: NOVEMBER 30, 2000

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

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

JUL 21 2008

2. Name of Operator

DEVON ENERGY PRODUCTION COMPANY, LP

OCD-ARTESIA

3. Address and Telephone No.

20 North Broadway, Oklahoma City, OK 73102

405-552-8198

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

660' FNL & 990' FEL

Section 12 T18S R27E, Unit A

5. Lease Serial No.

NM-42410

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Well Name and No.

Federal T 1

9. API Well No

30-015-26404

10. Field and Pool, or Exploratory

Wolfcamp

12. County or Parish 13. State

Eddy

NM

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

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off  
☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity  
☐ Casing Repair ☐ New Construction ☐ Recomplete ☐ Other  
☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon  
☒ Convert to Injection ☐ Plug Back ☐ Water Disposal

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepens directionally or recompletes horizontally, give subsurface location 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 testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Devon Energy Production Company, LP is preparing Form C108, Application for Authorization to Inject that will be filed with the Oil Conservation Division, Santa Fe, New Mexico office. Devon is proposing to convert the Federal T #1 well to SWD in the Lower Wolfcamp and Cisco zones from 7400' to 8200'. The BLM has been sent a copy of C108 application filed with the OCD.

1. RIH and drill out CIBP's at 6,800', 7,078', & 7,265'.
2. Perform injection step rate test in the Lower Wolfcamp.
3. Drill out CIBP at 7,560' and cement retainers at 7,745', 7,780', & 7,820', & 8,000'.
4. Perforate / Reperforate Cisco with casing gun, 0.42" EHD, 2 spf from 7,893'-7,899'; 7,902'-7,907'; 7,910'-7,916'; 7,919'-7,927'; 7,932'-7,959'; 7,965'-7,967'; 7,971'-7,972'; 7,976'-7,978'; 8,034'-8,042'; 8,055'-8,060'; 8160'-8164'.
5. Frac as recommended.
6. RIH with RBP and set at +/- 7,865'.
7. Perforate / Reperforate Cisco with casing gun, 0.42" EHD, 2 spf at 7,758'-7,768'; 7,790'-7,798'; 7,800'-7,818'; 7,832'-7,840'.
8. Frac as per recommended.
9. POOH with RBP and RIH with tubing and packer. Set packer at 7,600'. Perform injection step rate test in Cisco.
10. Tie in disposal line routed from West Red Lake SWD Battery and establish injection.

\* Either, return the well to active status by 11-16-08 or submit plans for abandonment.

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

Signed

Name  
Title

Norvella Adams  
Sr. Staff Engineering Technician

Date

APPROVED  
8/13/2008

(This space for Federal or State Office use)

Approved by

Conditions of approval, if any:

Date

JUL 16 2008

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

\*See Instruction on Reverse Side

Accepted for record - NMOCD

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. <b>30-015-26404</b>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name <b>Federal T</b>
8. Well Number <b>1</b>
9. OGRID Number <b>6137</b>
10. Pool name or Wildcat <b>L. Wolfcamp and Cisco</b> 96136

**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 -Convert to SWD

2. Name of Operator  
**DEVON ENERGY PRODUCTION COMPANY, LP**

3. Address of Operator  
**20 North Broadway, Oklahoma City, OK 73102 405-552-8198**

4. Well Location  
Unit Letter A : 660' feet from the NORTH line and 990' feet from the EAST line  
Section 12 Township 18S Range 27E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
**3709' KB; 3697' GL**

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

<b>NOTICE OF INTENTION TO:</b> 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"/> OTHER: <input type="checkbox"/>	<b>SUBSEQUENT REPORT OF:</b> 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"/> OTHER <input checked="" type="checkbox"/> Convert to SWD, Admin. Order SWD-1135
--	---

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.

8/04/08 RU unit. ND wellhead and NU BOP. TIH with bit and drill collars.  
8/05/08 Drill CIBP at 6800' and 7078'.  
8/06/08 Drilled through cement at 7525', CIBP at 7300' and cement at 7560' and CIBP at 7595'.  
8/07/08 Ran step rate test; pumped 50 bbls at 1/2 bbl/min - 0# psi, pumped 50 bbls at 1 bbl/min - 20# psi, pumped 50 bbls at 2 bbls/min - 75# psi, pumped 50 bbls at 3 bbls/min - 170# psi, pumped 50 bbls at 4 bbls/min - 250 psi.  
8/08/08 Trucked in and established injection in the Wolfcamp at 150 BWPD at 170 psi.  
8/11/08 Drilled cement retainers at 7745', and 7780'.  
8/12/08 Drilled cement retainer at 7820' and 8000'. Circulate hole and TOH with tubing and bit.  
8/13/08 Perforate Cisco from 7893' - 8060'; total 140 holes. TIH and set packer at 7688'. Frac with 5,040 gals 15% HCl + 120,372 gals Spectra Star 2500 + 167,552 # 20/40 White sand.  
8/14/08 TIH with retrievable tool and latch onto packer. Release packer and TOO H with packer and tubing. RU wireline and perforate Cisco from 7758'-7840'; 228 total holes.  
8/15/08 TIH with packer and set at 7582'. NU frac valve.  
8/16/08 Frac 7758'-8060' with 4500 gals 15% Spearhead acid + 119,255 gals Spectra 2500 + 106,750 # 20/40 100% White sand. RD.  
8/18/08 Release packer. TOO H with packer and tubing.  
8/20/08 TIH with bailer and bailed sand. Bailed sand to 8460'. TOO H with tubing. ND BOP and NU flange. Waiting on tubing.  
9/15/08 TIH with packer and tubing. Set packer at 6789'. ND BOP and NU tree. Ran MIT test to 500 # for 30 minutes - ok, notified Mike Bratcher with OCD. TOO H with tubing. RIH with 3 1/2" IPC tubing and set at 6789'. Injection line installation in progress.

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 Norvella Adams TITLE Sr. Staff Engineering Technician DATE 9/17/08  
Type or print name Norvella Adams E-mail address: norvella.adams@dvn.com Telephone No. 405-552-8198

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE Accepted for record DATE \_\_\_\_\_  
Conditions of Approval (if any): NMOCD

**DEVON ENERGY PRODUCTION COMPANY LP**

Well Name: FEDERAL T #1		Field: NORTH ILLINOIS CAMP MORROW	
Location: 660' FNL & 990' FEL; SEC 12-T18S-R27E		County: EDDY	State: NM
Elevation: 3634' KB; 3618' GL		Spud Date: 6/28/90	Compl Date: 9/13/90
API#: 30-015-26404	Prepared by: Norvella Adams	Date: 9/17/08	Rev:

**Current Schematic  
L. Wolfcamp and Cisco SWD**

17-1/2" Hole  
13-3/8", 68#, LTC, @ 472'  
Cmt'd w/450 Sx. Circ to surface

12-1/4" Hole  
8-5/8", J55, 32#, STC, @ 2,589'  
Cmt'd w/900 Sx. Circ to surface

WOLFCAMP (8/21/93)  
6,868' - 7,038'

WOLFCAMP (8/18/93)  
7,092' - 7,097'; 7,120' - 7,146'

WOLFCAMP (8/16/93)  
7,330' - 7,340'; 7,350' - 7,360'

**SWD Perforations:**  
CISCO (8/1/93)  
7,685' - 7,695'

CISCO (7/30/93)  
7,760' - 7,768'

CISCO (7/28/93)  
7,790' - 7,798'

CISCO (7/25/93)  
7,932' - 7,940'

CISCO (7/22/93)  
8,034' - 8,042'  
8,055' - 8,060'

**4" Liner top @ 9,055'**

7-7/8" Hole  
5-1/2", N80, 17#, LTC, @ 9,473'  
Cmt'd w/430 Sx

MORROW (9/14/90)  
10,008' - 10,014'  
10,038' - 10,054'

4-3/4" Hole  
**4" 10.46#, L80 Liner @ 9,055' - 10,141'**  
Cmt'd w/80 Sx

**Formation Tops**

Morrow 9,600-10,250'  
Atoka 9,230' - 9,700'  
Upper Wolfcamp 6,400' - 7,200'  
Abo 5,600' - 6,200'  
Yeso 3,300' - 3,900'  
San Andres 2,000' - 2,800'  
Queen 1,450' - 1,650'

**3-1/2", 9.3 #, N80, Injection tubing @ 6789'**

**5-1/2" IPC Packer @ 6,789'**

Frac 7758'-7840' with 4500 gals 15% Spearhead acid and 119,255 gals Spectra Star 2500 + 106,750 # 100% 20/40 White sand.

Frac 7893'-8060' with 5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% 20/40 White sand.

**35' cement. 9,005' PBD**  
**CIBP @ 9,040' (7/21/93)**

**CIBP @ 9,950' (7/19/93)**

**10,100' PBD**

**10,141' TD**

# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

**Joanna Prukop**  
Cabinet Secretary  
**Reese Fullerton**  
Deputy Cabinet Secretary

OCT 07 2008

OCD-ARTESIA

OCT 07 2008

OCD-ARTESIA

**Mark Fesmire**  
Division Director  
Oil Conservation Division



**Administrative Order SWD-1135**  
**July 16, 2008**

## APPLICATION OF DEVON ENERGY PRODUCTION COMPANY, L.P. FOR PRODUCED WATER DISPOSAL, EDDY COUNTY, NEW MEXICO

### ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Devon Energy Production Company, L.P. (OGRID No. 6137) made application to the New Mexico Oil Conservation Division for permission to utilize for produced water disposal its Federal T Well No. 1 (API No. 30-015-26404) located 660 feet from the North line and 990 feet from the East line of Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico.

#### THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Rule 701(B) of the Division Rules. Satisfactory information has been provided that all offset operators and surface owners have been duly notified. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met and no objections have been received within the waiting period prescribed by said rule. The applicant is in compliance with Rule 40.

#### IT IS THEREFORE ORDERED THAT:

Devon Energy Production Company, L.P. ("operator") is hereby authorized to utilize its Federal T Well No. 1 (API No. 30-015-26404) located 660 feet from the North line and 990 feet from the East line of Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico, in such manner as to permit the injection of produced water for disposal purposes into the Lower Wolfcamp formation and the Cisco formation through perforations from 7,400 feet to 8,200 feet and through plastic-lined tubing set in a packer located within 100 feet of the top of the injection interval.

#### IT IS FURTHER ORDERED THAT:

Oil Conservation Division \* 1220 South St. Francis Drive  
\* Santa Fe, New Mexico 87505

\* Phone: (505) 476-3440 \* Fax (505) 476-3462\* <http://www.emnrd.state.nm.us>





The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

After installing injection tubing, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved *leak detection device* in order to determine leakage in the casing, tubing, or packer.

The injection well or system shall be equipped with a *pressure limiting device* in workable condition which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well. The wellhead injection pressure on the well shall be limited to **no more than 1480 psi**.

The Director of the Division may authorize an increase in the maximum injection pressure upon a proper showing by the operator that such higher pressure would not result in migration of the injected fluid from the injection formation. Such proper showing should be supported by a valid step rate test run in accordance with procedures acceptable to the Division.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

**PROVIDED FURTHER THAT,** jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, or without notice and hearing in event of an emergency subject to NMSA 1978 Section 70-2-23, terminate the injection authority granted herein.


The operator shall provide written notice of the date of commencement of injection and the initial reservoir pressure to the Artesia district office of the Division.

The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 706 and 1120.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator

mailed prior to the expiration date, may grant an extension thereof for good cause shown.

This order does not relieve the operator of responsibility should its operations cause any actual damage or threat of damage to protectable fresh water, human health or the environment; nor does it relieve the operator of responsibility for complying with applicable Division rules or other state, federal, or local laws or regulations.

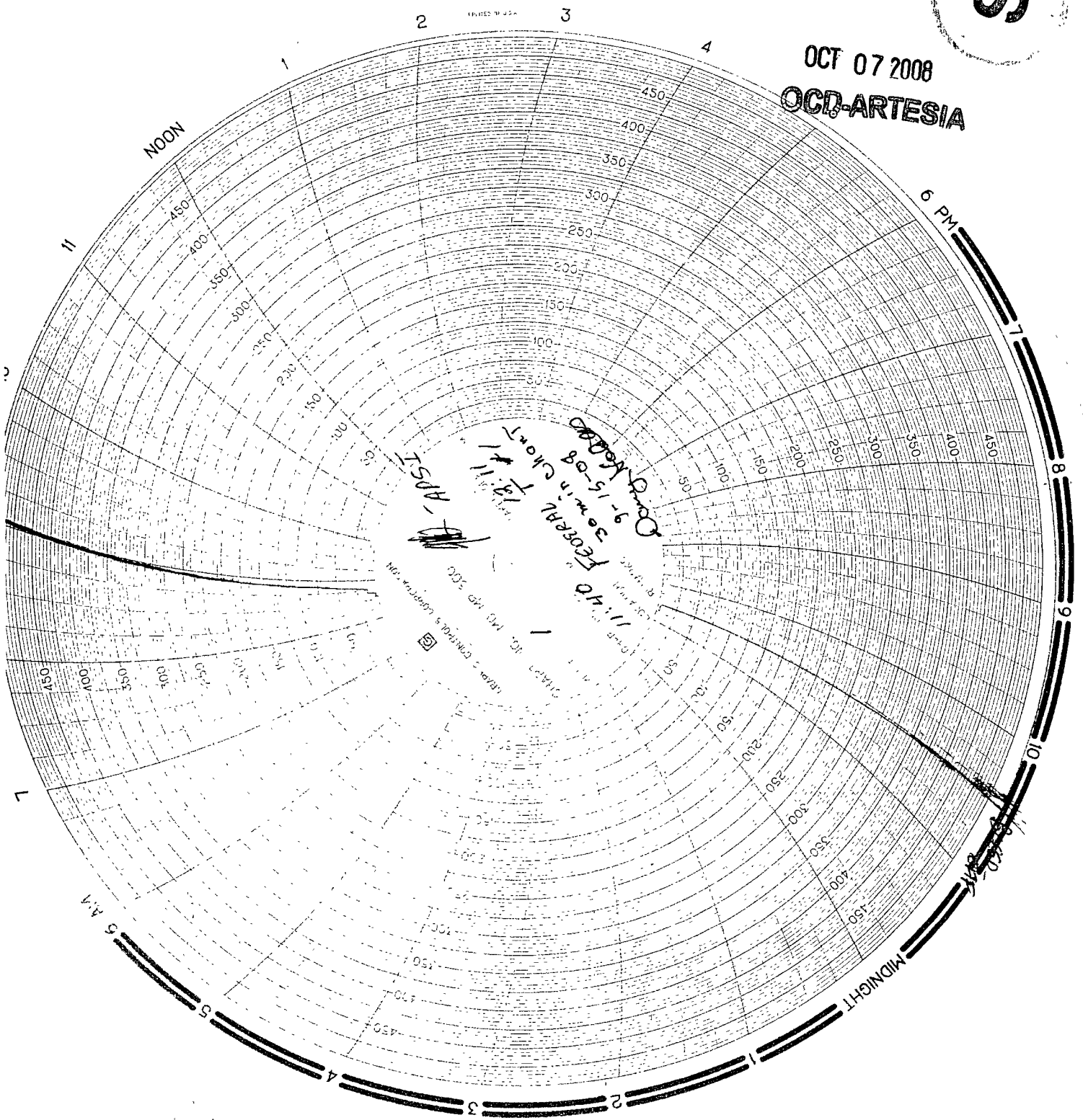
  
MARK E. FESMIRE, P.E.  
Director

MEF/wvjj

cc: Oil Conservation Division – Artesia  
Bureau of Land Management – Carlsbad



OCT 07 2008  
OCD-ARTESIA



SEP 19 2008

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  
 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

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

OCD-ARTESIA

Form C-105  
 Revised June 10, 2003

S

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Other <u>Convert to SWD; Admin Order SWD-1135</u>		7 Lease Name and Unit Agreement Name  <b>Federal T 1</b>	
b Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input checked="" type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., <input type="checkbox"/> Other			
2 Name of Operator <b>DEVON ENERGY PRODUCTION COMPANY, LP</b>		8. Well No.	
3 Address of Operator <b>20 North Broadway, Oklahoma City, OK 73102</b>		9 Pool name or Wildcat <b>L. Wolfcamp and Cisco</b> 96136	
4 Well Location Unit Letter <b>A</b> <b>660'</b> feet from the <b>NORTH</b> line and <b>990'</b> feet from the <b>EAST</b> line Section <b>12</b> Township <b>18S</b> Range <b>27E</b> NMPM County <b>Eddy</b>			
10. Date Spudded <b>6/28/1990</b>	11. Date T D Reached <b>8/25/1990</b>	12 Date Completed <b>Orig 9/13/90 SWD 9/15/08</b>	13 Elevations (DR, RKB, RT, GL)* <b>3634' KB; 3618' GL</b>
14 Elev Casinghead			
15. Total Depth MD <b>10,141</b>	16 Plug Back T.D <b>9005'</b>	17 If Multiple Compl How Many Zones <b>No</b>	18. Intervals Drilled BY <b>X</b>
19 Producing Intervals(s), of this completion - Top, Bottom, Name <b>L. Wolfcamp; 6,868' - 7,360' and Cisco; 7,758' - 8,060' (Salt Water Disposal Only)</b>		20 Was Directional Survey Made <b>No</b>	
21. Type Electric and Other Logs Run <b>DLL-MGRD, SDL-DSN (original logs)</b>		22 Was Well Cored <b>No</b>	

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"	68#	472'	17-1/2"	450 sx	
8-5/8"	32#	2589'	12 1/4"	900 sx	
5-1/2"	17#	9473'	7-7/8"	430 sx	


24 Liner Record				25 Tubing Record		
Size	top	Bottom	Sacks Cement	Screen	Size	Depth Set
4"	9055'	10141'	80 sx		3-1/2" (IPC)	6789'

26 Perforation record (interval, size, and number)		27. Acid, Shot, Fracture, Cement, Squeeze, ETC.	
Depth Interval		Amount and Kind Material Used	
7893'-8060'		Frac--5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% White 20/40 Sand.	
7758'-7840'		Frac--4500 gals 15% Spearhead acid and 119,255 gals Spectra Star 2500 + 106,750 # 100% White 20/40 Sand.	

28 PRODUCTION							
Date First Production <b>NA</b>		Production Method (Flowing, Gas lift, pumping - Size and type pump)				Well Status (Prod Or Shut-In) <b>9/16/08-Converted to SWD</b>	
Date of Test	Hours Tested	Choke Size	Prod'n For Test	Oil - Bbl	Gas - MCF	Water - Bbl	Gas - Oil Ratio
	<b>24</b>		Perod				<b>#DIV/0!</b>
Flowing Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl	Gas - MCF	Water - Bbl	Oil Gravity - API (Corr)	
29. Disposition of Gas (Sold, used for fuel, vented, etc)						Test Witnessed By	
<b>NA--Converted to SWD 9/16/08</b>							
30. List Attachments							

## Wellbore schematic

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

Printed  
 SIGNATURE  Name **Norvella Adams** Title **Sr Staff Engineering Technician** DATE **9/17/2008**  
 E-mail Address. **norvella.adams@dvn.com**

Accepted for record  
 NMOCD

From	To	Thicknes In Feet	Lithology	From	To	Thickness in Feet	Lithology

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTOCT 06 2008  
OCD-ARTESIAFORM APPROVED  
OMB NO. 1004-0137  
EXPIRES: March 31, 2007

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Other <b>SWD- Order 1135</b>		5. Lease Serial No <b>NM-42410</b>							
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input checked="" type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name							
2. Name of Operator <b>DEVON ENERGY PRODUCTION COMPANY, LP</b>		7. Unit or CA Agreement Name and No							
3. Address <b>20 North Broadway Oklahoma City, OK 73102-8260</b>		8. Lease Name and Well No <b>Federal T 1</b>							
3a. Phone No (include area code) <b>405-552-8198</b>		9. API Well No. <b>30-015-26404 0052</b>							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At Surface <b>660 FNL 990 FEL</b> At top prod. Interval reported below At total Depth		10. Field and Pool, or Exploratory <b>L. Wolfcamp and Cisco</b> 11. Sec. T, R, M, on Block and Survey or Area <b>12 18S 27E</b> 12. County or Parish <b>Eddy</b> 13. State <b>NM</b>							
14. Date Spudded <b>6/28/1990</b>	15. Date T D Reached <b>8/25/1990</b>	16. Date Completed <b>9/15/08 - SWD</b> <b>9/13/90 orig cmpl</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.							
17. Elevations (DR, RKB, RT, GL)* <b>3634' KB; 3618' GL</b>									
18. Total Depth: MD <b>7600'</b> TVD		19. Plug Back T D. MD <b>6142'</b> TVI							
20. Depth Bridge Plug Set: MD <b>6177'</b> TVI									
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>DLL-MGRD, SDL_DSN (original logs)</b>		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> 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 Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8"/LT&C	68		472'		450 Sx		Surf	
12 1/4"	8-5/8"/J55	32		2589'		900 Sx		Surf	
7-7/8"	5-1/2"/LT&C	17		9473'		430 Sx		Surf	
4 3/4"	4" / L80	10.46		10,141'		80 Sx		9055'	
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
3 1/2" IPC	6789'	6789'							
25. Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf Status	
Wolfcamp		6868'	7360'	6868'-7360'			140	Open for SWD	
Cisco		7893'	7840'	7893-7840'			228	Open for SWD	
Morrow		10,008'	10,054'	10,008-10,054'				Abandoned	
D.									
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval		Amount and Type of Material							
7893-8060'		Frac - 5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% White 20/40 sand.							
7758-7840'		Frac - 4500 gals 15% Spearhead acid and 119,255 gals Spectra Star 2500 + 106,750 # 100% White 20/40 sand.							
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
NA		24	→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→				#DIV/0!		
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
DAVID R. GLASS PETROLEUM ENGINEER									

Choke Size	Ibg. Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status
------------	--------------------	-----------	------------	---------	---------	-----------	-----------------	-------------

(See instructions and spaces for additional data on reverse side)

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	Ibg. 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	Ibg. Press. Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

(See instructions and spaces for additional data on reverse side)

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

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
				Yates	476'	
				Queen	1218'	
				Grayburg	1572'	
				San Andres	2072'	
				Tubb	4824'	
				Abo	6016'	
				Wolfcamp	7682'	
				Cisco	8912'	
				Strawn	9513'	
				Atoka	9628'	
				Morrow	9828'	
				Morrow Clastics	9965'	
				Lower Morrow	10104'	

32. Additional remarks (include plugging procedure).

33 Indicate which items have been attached by placing a check in the appropriate box

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

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) Norvella Adams Title Sr. Staff Engineering Technician

Signature [Signature] Date 9/17/2008

Title 18 U.S.C. Section 1001 and Title 48 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 MANAGEMENTFORM 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 page 2

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other SWD conversion. Admin Order SWD-1135		5. Lease Serial No NM-42410
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP		6. If Indian, Allottee or Tribe Name
3a. Address 20 North Broadway, Oklahoma City, OK 73102	3b. Phone No. (include area code) 405-552-8198	7. Unit or CA Agreement Name and No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660 FNL 990 FEL A 12 18S 27E		8. Well Name and No Federal T 1
		9. API Well No 30-015-26404
		10. Field and Pool, or Exploratory Area L. Wolfcamp and Cisco
		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 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 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 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	

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepens directionally or recompletes horizontally, give subsurface location 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 testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Converted to SWD. Administrative Order SWD-1135  
8/04/08 RU unit. ND wellhead and NU BOP. TIH with bit and drill collars.  
8/05/08 Drill CIBP at 6800' and 7078'.  
8/06/08 Drilled through cement at 7525', CIBP at 7300' and cement at 7560' and CIBP at 7595'.  
8/07/08 Ran step rate test; pumped 50 bbls at 1/2 bbl/min - 0# psi, pumped 50 bbls at 1 bbl/min -20# psi, pumped 50 bbls at 2 bbls/min - 75# psi, pumped 50 bbls at 3 bbls/min - 170# psi, pumped 50 bbls at 4 bbls/min - 250 psi.  
8/08/08 Trucked in and established injection in the Wolfcamp at 150 BWPD at 170 psi.  
8/11/08 Drilled cement retainers at 7745', and 7780'.  
8/12/08 Drilled cement retainer at 7820' and 8000'. Circulate hole and TOH with tubing and bit.  
8/13/08 Perforate Cisco from 7893' - 8060', total 140 holes. TIH and set packer at 7688'. Frac with 5,040 gals 15% HCl + 120,372 gals Spectra Star 2500 + 167,552 # 20/40 White sand.  
8/14/08 TIH with retrievable tool and latch onto packer. Release packer and TOOH with packer and tubing. RU wireline and perforate Cisco from 7758'-7840'; 228 total holes  
8/15/08 TIH with packer and set at 7582'. NU frac valve.  
8/16/08 Frac 7758'-8060' with 4500 gals 15% Spearhead acid + 119,255 gals Spectra 2500 + 106,750 # 20/40 100% White sand. RD.  
8/18/08 Release packer. TOOH with packer and tubing  
8/20/08 TIH with bailer and bailed sand. Bailed sand to 8460'. TOOH with tubing. ND BOP and NU flange. Waiting on tubing.  
9/15/08 TIH with packer and tubing. Set packer at 6789'. ND BOP and NU tree. Ran MIT test to 500 # for 30 minutes - ok, notified Mike Bratcher with OCD  
TOOH with tubing. RIH with 3 1/2" IPC tubing and set at 6789'. Injection line installation in progress.

14. I hereby certify that the foregoing is true and correct  
Name: Norvella Adams Title: Sr. Staff Engineering Technician  
Signature: [Signature] Date: 9/17/2008

APPROVED FOR RECORD THIS SPACE FOR FEDERAL OR STATE OFFICE USE  
Approved by: /S/ DAVID R. GLASS  
SEP 29 2008  
Title: Accepted for record NMOC  
Office: [Signature]  
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.



**DEVON ENERGY PRODUCTION COMPANY LP**

Well Name: FEDERAL T #1		Field: NORTH ILLINOIS CAMP MORROW	
Location: 660' FNL & 990' FEL; SEC 12-T18S-R27E		County: EDDY	State: NM
Elevation: 3634' KB; 3618' GL		Spud Date: 6/28/90	Compl Date: 9/13/90
API#: 30-015-26404	Prepared by: Norvella Adams	Date: 9/17/08	Rev:

**Current Schematic  
L. Wolfcamp and Cisco SWD**

17-1/2" Hole  
13-3/8", 68#, LTC, @ 472'  
Cmt'd w/450 Sx. Circ to surface

12-1/4" Hole  
8-5/8", J55, 32#, STC, @ 2,589'  
Cmt'd w/900 Sx. Circ to surface

WOLFCAMP (8/21/93)  
6,868' - 7,038'

WOLFCAMP (8/18/93)  
7,092' - 7,097'; 7,120' - 7,146'

WOLFCAMP (8/16/93)  
7,330' - 7,340'; 7,350' - 7,360'

SWD Perforations:  
CISCO (8/1/93)  
7,685' - 7,695'

CISCO (7/30/93)  
7,760' - 7,768'

CISCO (7/28/93)  
7,790' - 7,798'

CISCO (7/25/93)  
7,932' - 7,940'

CISCO (7/22/93)  
8,034' - 8,042'  
8,055' - 8,060'

4" Liner top @ 9,055'

7-7/8" Hole  
5-1/2", N80, 17#, LTC, @ 9,473'  
Cmt'd w/430 Sx

MORROW (9/14/90)  
10,008' - 10,014'  
10,038' - 10,054'

4-3/4" Hole  
4" 10.46#, L80 Liner @ 9,055' - 10,141'  
Cmt'd w/80 Sx

**Formation Tops**

Morrow 9,600-10,250'  
Atoka 9,230' - 9,700'  
Upper Wolfcamp 6,400' - 7,200'  
Abo 5,600' - 6,200'  
Yeso 3,300' - 3,900'  
San Andres 2,000' - 2,800'  
Queen 1,450' - 1,650'

3-1/2", 9.3 #, N80, Injection tubing @ 6789'

5-1/2" IPC Packer @ 6,789'

Frac 7758'-7840' with 4500 gals 15% Spearhead acid and 119,255 gals Spectra Star 2500 + 106,750 # 100% 20/40 White sand.

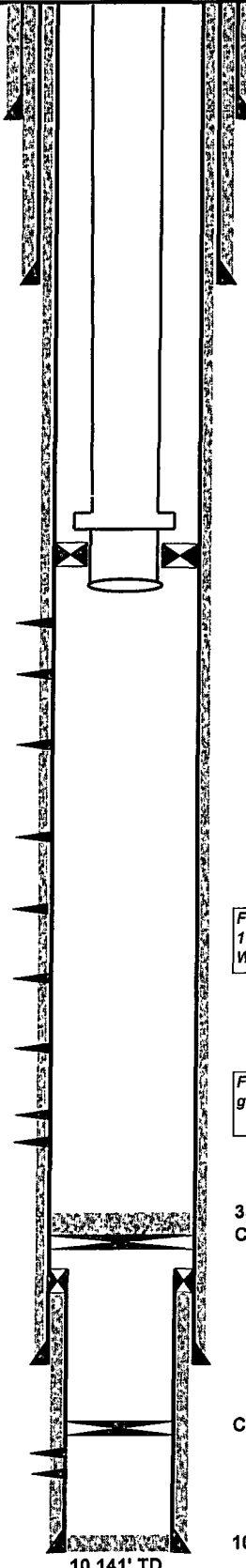
Frac 7893'-8060' with 5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% 20/40 White sand.

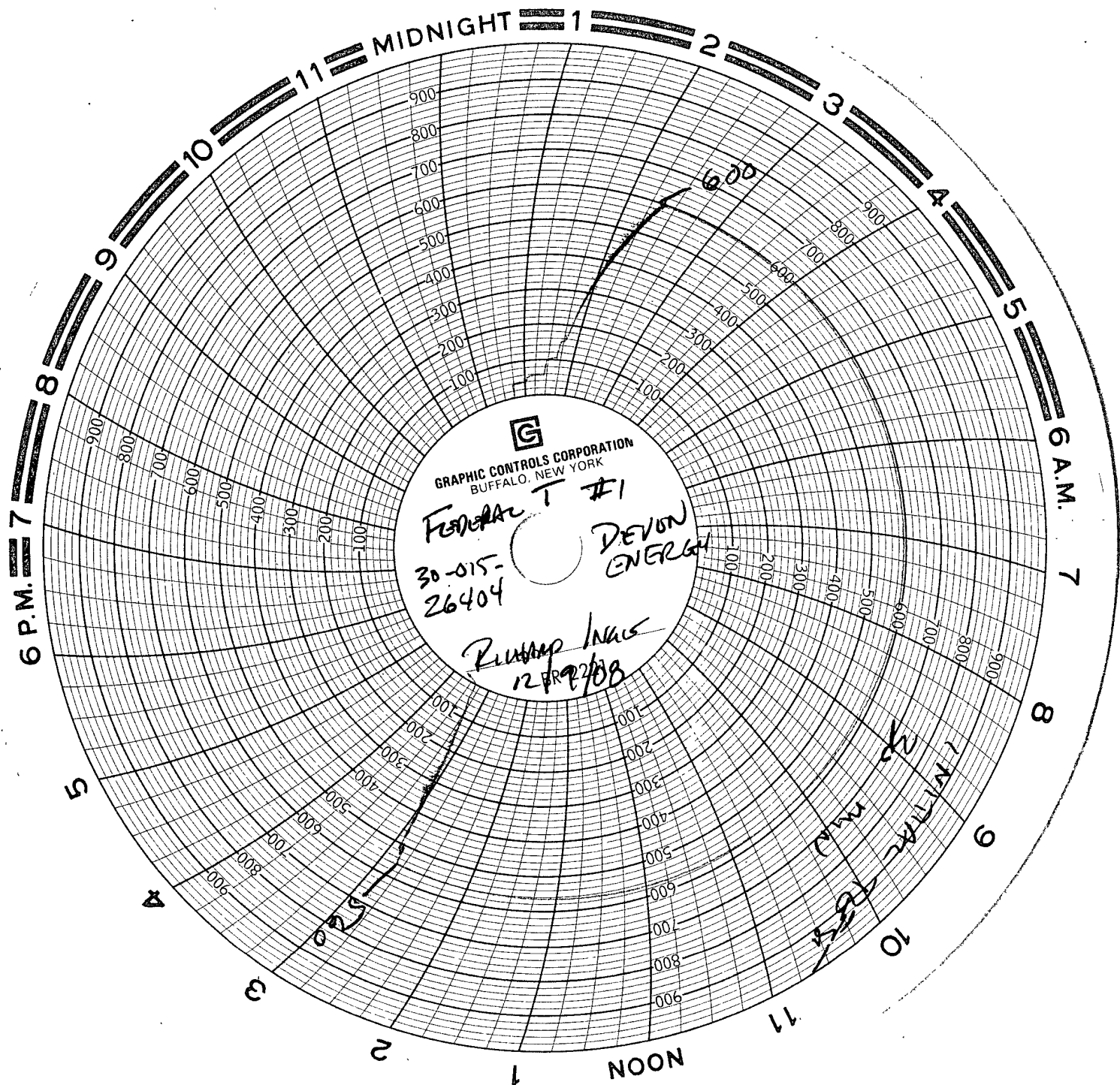
35' cement. 9,005' PBD  
CIBP @ 9,040' (7/21/93)

CIBP @ 9,950' (7/19/93)

10,100' PBD

10,141' TD





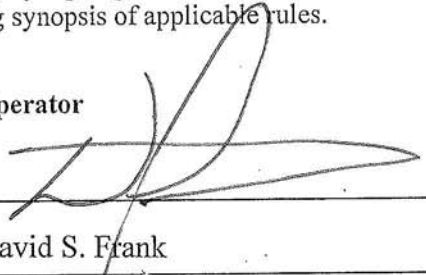

**District II**1301 W. Grand Ave., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720**State of New Mexico  
Energy, Minerals and Natural  
Resources**Form C-145  
Permit 124456**Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505****Change of Operator****Previous Operator Information**OGRID: 6137  
Name: DEVON ENERGY PRODUCTION  
COMPANY, LP  
Address: 20 N Broadway  
City, State, Zip: Oklahoma City, OK 73102**New Operator Information**

Effective Date: Effective on the date of approval by the OCD

OGRID: 277558  
Name: LIME ROCK RESOURCES II-A, L.P.  
Address: 1111 Bagby Street  
Suite 4600  
City, State, Zip: Houston, TX 77002

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

Additionally, by signing below, LIME ROCK RESOURCES II-A, L.P. certifies that it has read and understands the following synopsis of applicable rules.

**Previous Operator**Signature:   
Printed Name: David S. Frank  
Title: David S. Frank – Attorney-in-Fact  
Date: 12/09/2010 Phone: (405)-552-7881**New Operator**Signature:   
Printed Name: C. Tim Miller  
Title: Chief Operating Officer  
Date: 12/17/10 Phone: 713 292 9514**NMOCD Approval**

Lime Rock Resources II-A, L.P. assumes operations of the attached list effective 12/09/2010.  
Electronic Signature: Randy Dade, District 2  
Date: December 27, 2010

LIME ROCK RESOURCES II-A, L.P. certifies that all below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells are in compliance with 19.15.17 NMAC, have been closed pursuant to 19.15.17.13 NMAC, or have been retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.

**LIME ROCK RESOURCES II-A, L.P. understands that the OCD's approval of this operator change:**

1. constitutes approval of the transfer of the permit for any permitted pit, below-grade tank or closed-loop system associated with the selected wells; and
2. constitutes approval of the transfer of any below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells, regardless of whether the transferor has disclosed the existence of those below-grade tanks to the transferee or to the OCD, and regardless of whether the below-grade tanks are in compliance with 19.15.17 NMAC.

**As the operator of record of wells in New Mexico, LIME ROCK RESOURCES II-A, L.P. agrees to the following statements:**

1. I am responsible for ensuring that the wells and related facilities comply with applicable statutes and rules, and am responsible for all regulatory filings with the OCD. I am responsible for knowing all applicable statutes and rules, not just the rules referenced in this list. I understand that the OCD's rules are available on the OCD website under "Rules," and that the Water Quality Control Commission rules are available on the OCD website on the "Publications" page.
2. I understand that if I acquire wells from another operator, the OCD must approve the operator change before I begin operating those wells. See 19.15.9.9.B NMAC. I understand that if I acquire wells or facilities subject to a compliance order addressing inactive wells or environmental cleanup, before the OCD will approve the operator change it may require me to enter into an enforceable agreement to return those wells to compliance. See 19.15.9.9.C(2) NMAC.
3. I must file a monthly C-115 report showing production for each non-plugged well completion for which the OCD has approved an allowable and authorization to transport, and injection for each injection well. See 19.15.7.24 NMAC. I understand that the OCD may cancel my authority to transport from or inject into all the wells I operate if I fail to file C-115 reports. See 19.15.7.24.C NMAC.
4. I understand that New Mexico requires wells that have been inactive for certain time periods to be plugged or placed on approved temporary abandonment. See 19.15.25.8 NMAC. I understand the requirements for plugging and approved temporary abandonment in 19.15.25 NMAC. I understand that I can check my compliance with the basic requirements of 19.15.25.8 NMAC by using the "Inactive Well List" on OCD's website.
5. I must keep current with financial assurances for well plugging. I understand that New Mexico requires each state or fee well that has been inactive for more than two years and has not been plugged and released to be covered by a single-well financial assurance, even if the well is also covered by a blanket financial assurance and even if the well is on approved temporary abandonment status. See 19.15.8.9.C NMAC. I understand that I can check my compliance with the single-well financial assurance requirement by using the "Inactive Well Additional Financial Assurance Report" on the OCD's website.
6. I am responsible for reporting releases as defined by 19.15.29 NMAC. I understand the OCD will look to me as the operator of record to take corrective action for releases at my wells and related facilities, including releases that occurred before I became operator of record.
7. I have read 19.15.5.9 NMAC, commonly known as "Part 5.9," and understand that to be in compliance with its requirements I must have the appropriate financial assurances in place, comply with orders requiring corrective action, pay penalties assessed by the courts or agreed to by me in a settlement agreement, and not have too many wells out of compliance with the inactive well rule (19.15.25.8 NMAC). If I am in violation of Part 5.9, I may not be allowed to drill, acquire or produce any additional wells, and will not be able to obtain any new injection permits. See 19.15.16.19 NMAC, 19.15.26.8 NMAC, 19.15.9.9 NMAC and 19.15.14.10 NMAC. If I am in violation of Part 5.9 the OCD may, after notice and hearing, revoke my existing injection permits. See 19.15.26.8 NMAC.
8. For injection wells, I understand that I must report injection on my monthly C-115 report and must operate my wells in compliance with 19.15.26 NMAC and the terms of my injection permit. I understand that I must conduct mechanical integrity tests on my injection wells at least once every five years. See

19.15.26.11 NMAC. I understand that when there is a continuous one-year period of non-injection into all wells in an injection or storage project or into a saltwater disposal well or special purpose injection well, authority for that injection automatically terminates. See 19.15.26.12 NMAC. I understand that if I transfer operation of an injection well to another operator, the OCD must approve the transfer of authority to inject, and the OCD may require me to demonstrate the well's mechanical integrity prior to approving that transfer. See 19.15.26.15 NMAC.

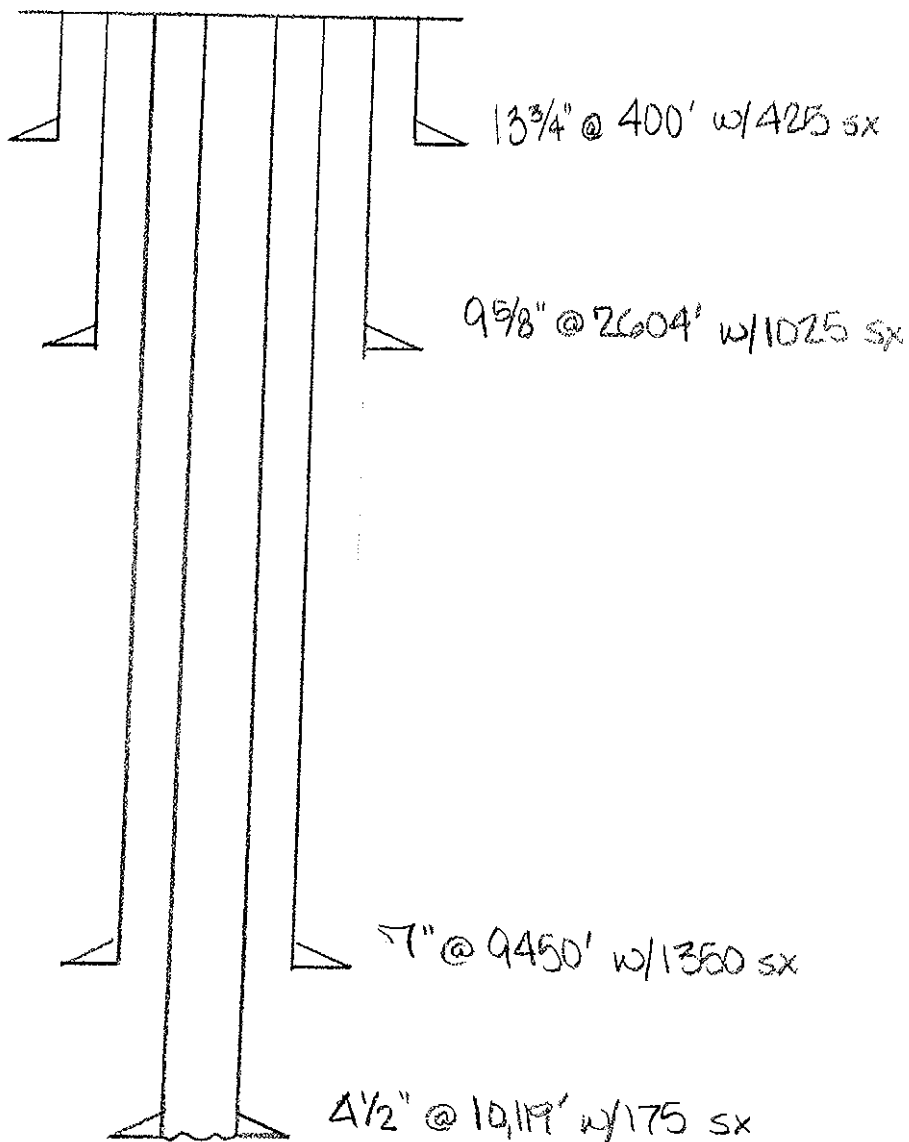
9. I am responsible for providing the OCD with my current address of record and emergency contact information, and I am responsible for updating that information when it changes. See 19.15.9.8.C NMAC. I understand that I can update that information on the OCD's website under "Electronic Permitting."
10. If I transfer well operations to another operator, the OCD must approve the change before the new operator can begin operations. See 19.15.9.9.B NMAC. I remain responsible for the wells and related facilities and all related regulatory filings until the OCD approves the operator change. I understand that the transfer will not relieve me of responsibility or liability for any act or omission which occurred while I operated the wells and related facilities.

**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

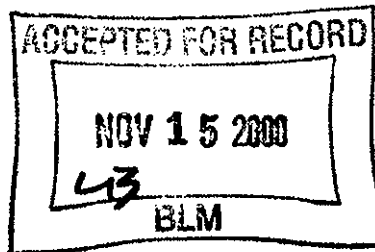
TYPE OF ACTION

- ☐ 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.

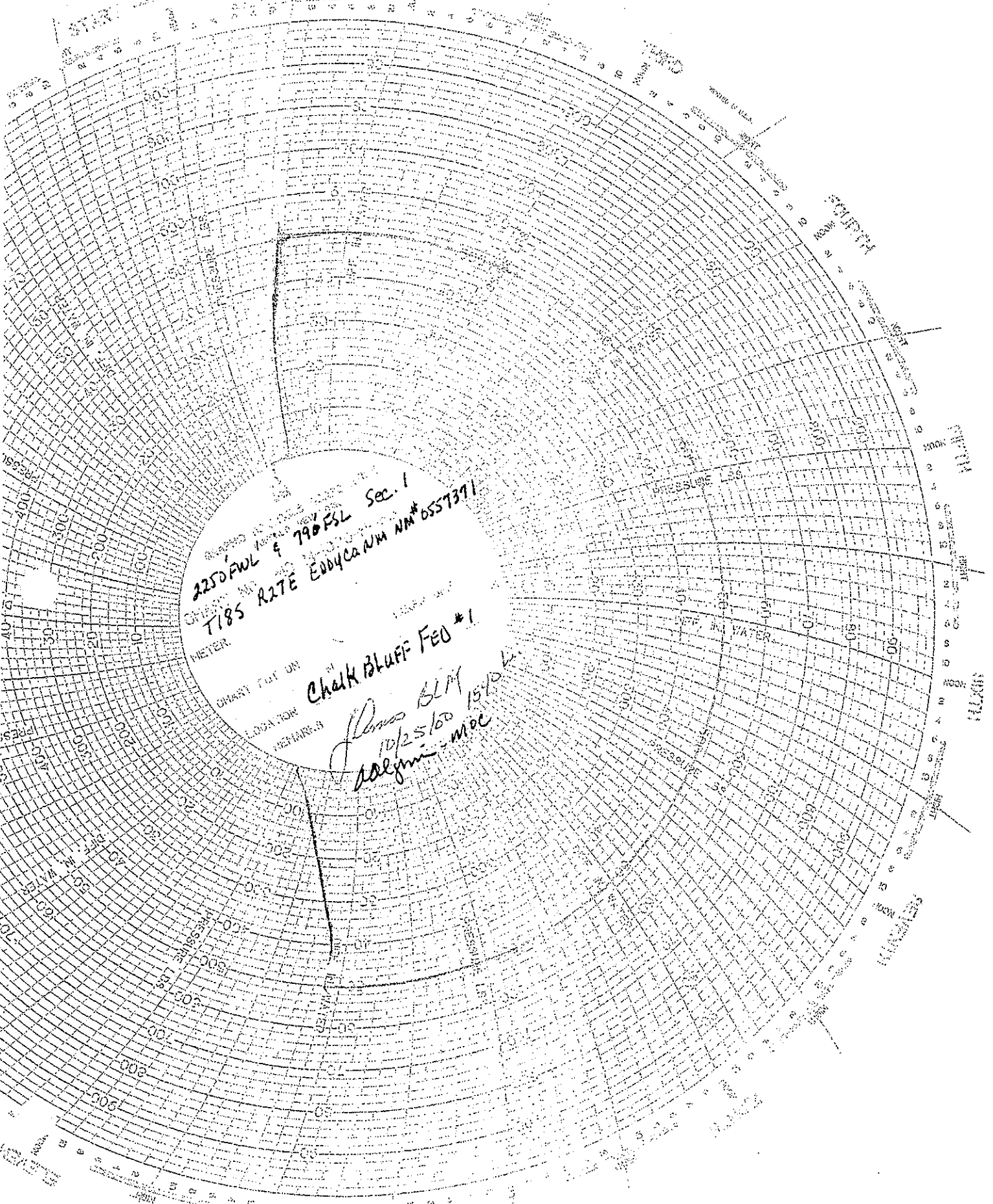
\*See Instruction on Reverse Side



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

CHALK BLUFF FEO #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

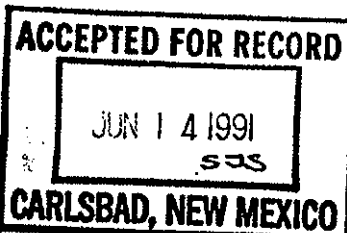
☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

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 CO<sub>2</sub>/N<sub>2</sub> 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

Title Engr. Oprns. Secretary

Date 5/21/91

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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.)

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.)\*

Mewbourne Oil Company hereby 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

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

Form 3160-3  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NEW MEXICO OIL & GAS COMMISSION  
Drawer DD  
Alamosa, NM

PERMIT 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

NOV 17 1993

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(es) 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.)\*

\* 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 READING 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**

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 48 AM '93  
CART  
AREA 1

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:

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 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

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

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

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 perms, acidize & frac  
☐ 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.)

- 8/13/92 - 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 perms 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 [Signature] Title Engr. Oprns. Secretary

Date 9/11/92

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title AS

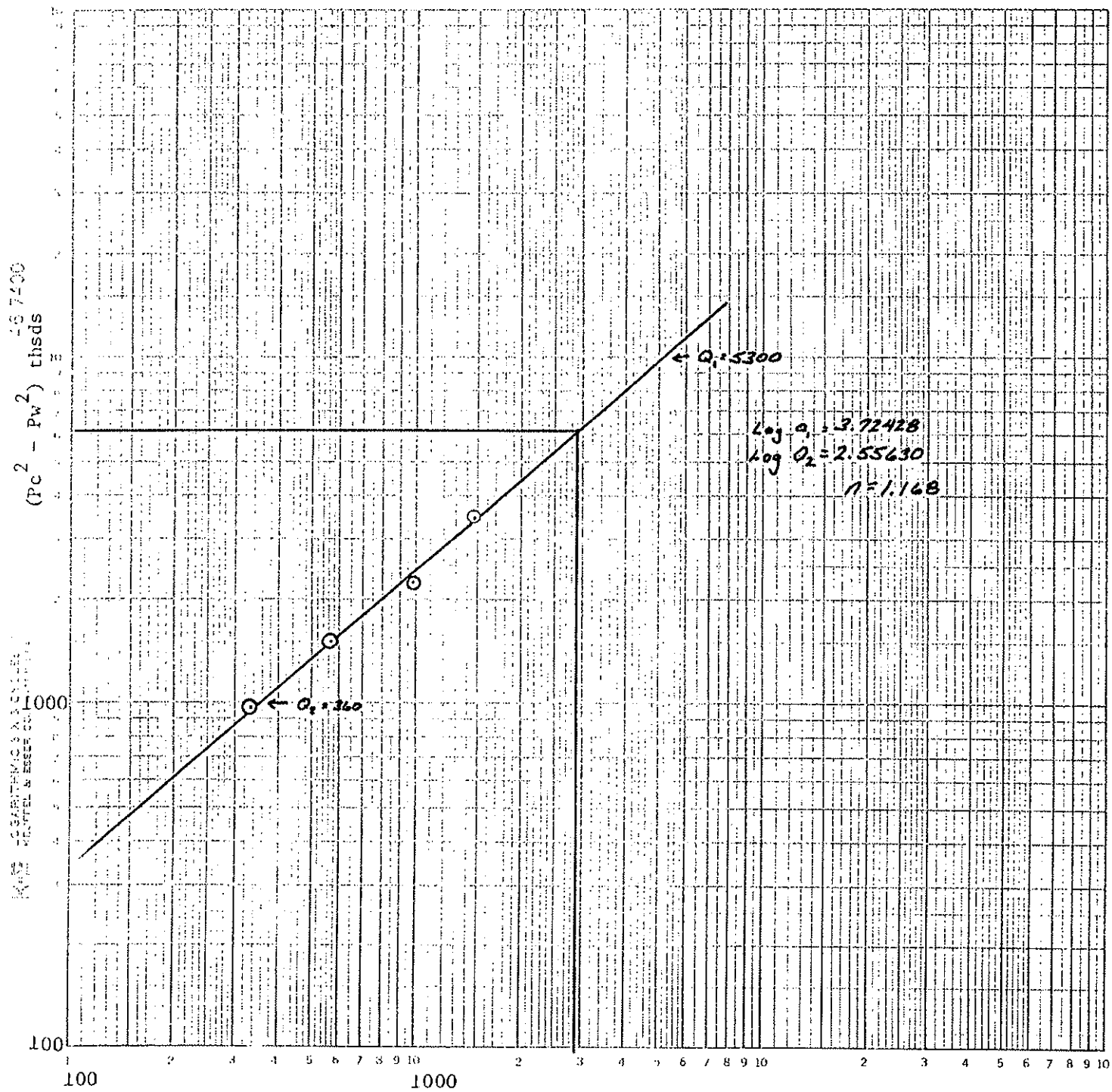
Date \_\_\_\_\_

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

RECEIVED

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







## 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 % CO<sub>2</sub> .43 % N<sub>2</sub> .42 % H<sub>2</sub>S ---  
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 <del><math>P_{cf}</math></del>	3249						
9	$P_f^2$ or <del><math>P_{cf}^2</math></del>	10556						
10	$P_c^2 = P_f^2 / e^S$ or <del><math>P_{cf}^2 / e^S</math></del>	6151.7						
11	$P_c$ or <del><math>P_{cf}</math></del>	2480.3						
12	$P_c = \frac{P_w + P_s}{2}$ 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<sub>w</sub>)

FROM KNOWN BOTTOM HOLE PRESSURE ~~or~~ P<sub>s</sub>

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

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

L 9949 H 9949 L/H 1.00 G .660 % CO<sub>2</sub> .43 % N<sub>2</sub> .42 % H<sub>2</sub>S —

GH 6566 P<sub>cr</sub> 673 T<sub>cr</sub> 374

TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1 T <sub>w</sub> (W.H. °R)	532	532	532	532	532	532	532	532
2 T <sub>s</sub> (B.H. °R)	608	608	608	608	608	608	608	608
3 T <sub>r</sub> = (T <sub>w</sub> + T <sub>s</sub> ) / 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 <sup>s</sup> (Table XIV)	1.678	1.736	1.736	1.739	1.739	1.739	1.740	1.725
8 <del>P<sub>w</sub></del> or P <sub>s</sub>	2983	2983	2831	2831	2593	2593	2152	2152
9 <del>P<sub>w</sub></del> or P <sub>s</sub> <sup>2</sup>	88983	8898.3	8014.6	8014.6	6723.6	6723.6	4631.1	4631.1
10 <del>P<sub>w</sub></del> = P <sub>i</sub> <sup>2</sup> /e <sup>s</sup> or P <sub>w</sub> <sup>2</sup> = P <sub>s</sub> <sup>2</sup> /e <sup>s</sup>	5304.3	5126.6	4616.2	4609.0	3867.2	3865.5	2661.7	2684.9
11 <del>P<sub>w</sub></del> or P <sub>w</sub>	2303.1	2264.2	2148.5	2146.9	1966.5	1966.1	1631.5	1638.6
12 P <sub>r</sub> = (P <sub>w</sub> + P <sub>s</sub> ) / 2 or (P <sub>cr</sub> + P <sub>i</sub> ) / 2	2643.1	2623.6	2489.8	2488.9	2279.8	2279.5	1891.7	1895.3
13 P <sub>r</sub> = (P/P <sub>cr</sub> )	3.93	3.90	3.70	3.70	3.39	3.39	2.81	2.82
14 T <sub>r</sub> = (T/T <sub>cr</sub> )	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

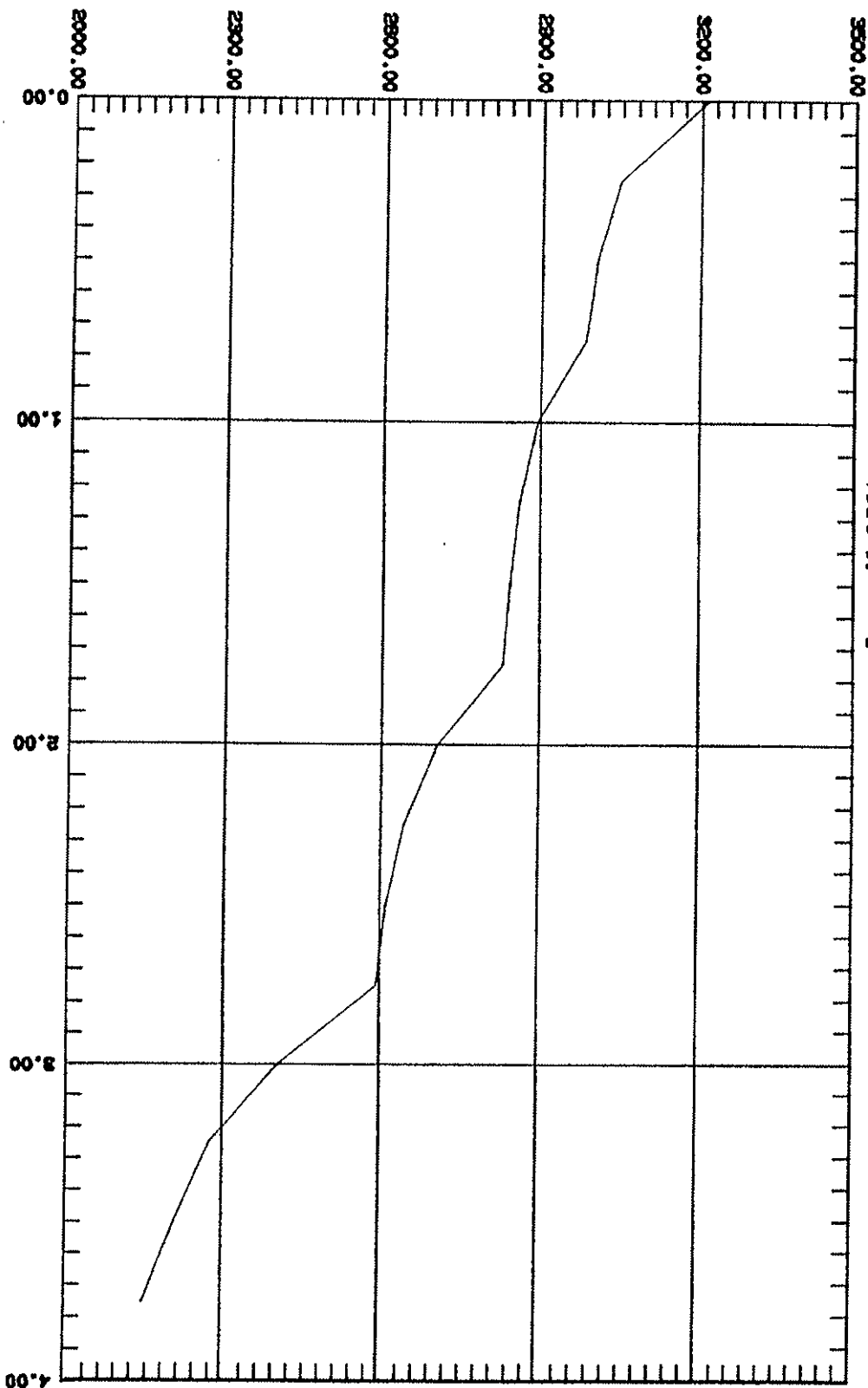
REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
9:45: 0	0.0000	3213.00		START RATE 1
10: 0: 0	0.2500	3046.00		
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00		START RATE 2
10:45: 0	1.0000	2894.00		
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00		START RATE 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: 8:45: 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 In-  
structions 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 ☐ GAS WELL ☒ DRY ☐ Other \_\_\_\_\_  
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RENVR. ☐ 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

CONFIDENTIAL  
JUL 23 1992  
O. C. D.

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.

1

10. FIELD AND POOL, OR WILDCAT

N. Illinois Camp Morrow

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA

Sec. 1-T18S-R27

14. PERMIT NO. DATE ISSUED  
API #30-015-26575

12. COUNTY OR PARISH  
Eddy

13. STATE  
N.M.

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'  
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. INTERVAL DRILLED BY X 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 CHOKER SIZE 8/64" PROD'N. FOR TEST PERIOD → OIL—BBL. 1 GAS—MCF. 886 WATER—BBL. 0 GASEL 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

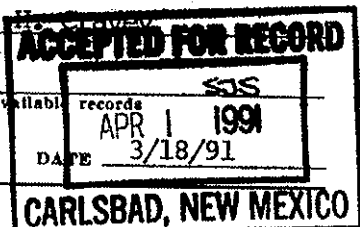
Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *Raymond Thompson* TITLE Engr. Opms. 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

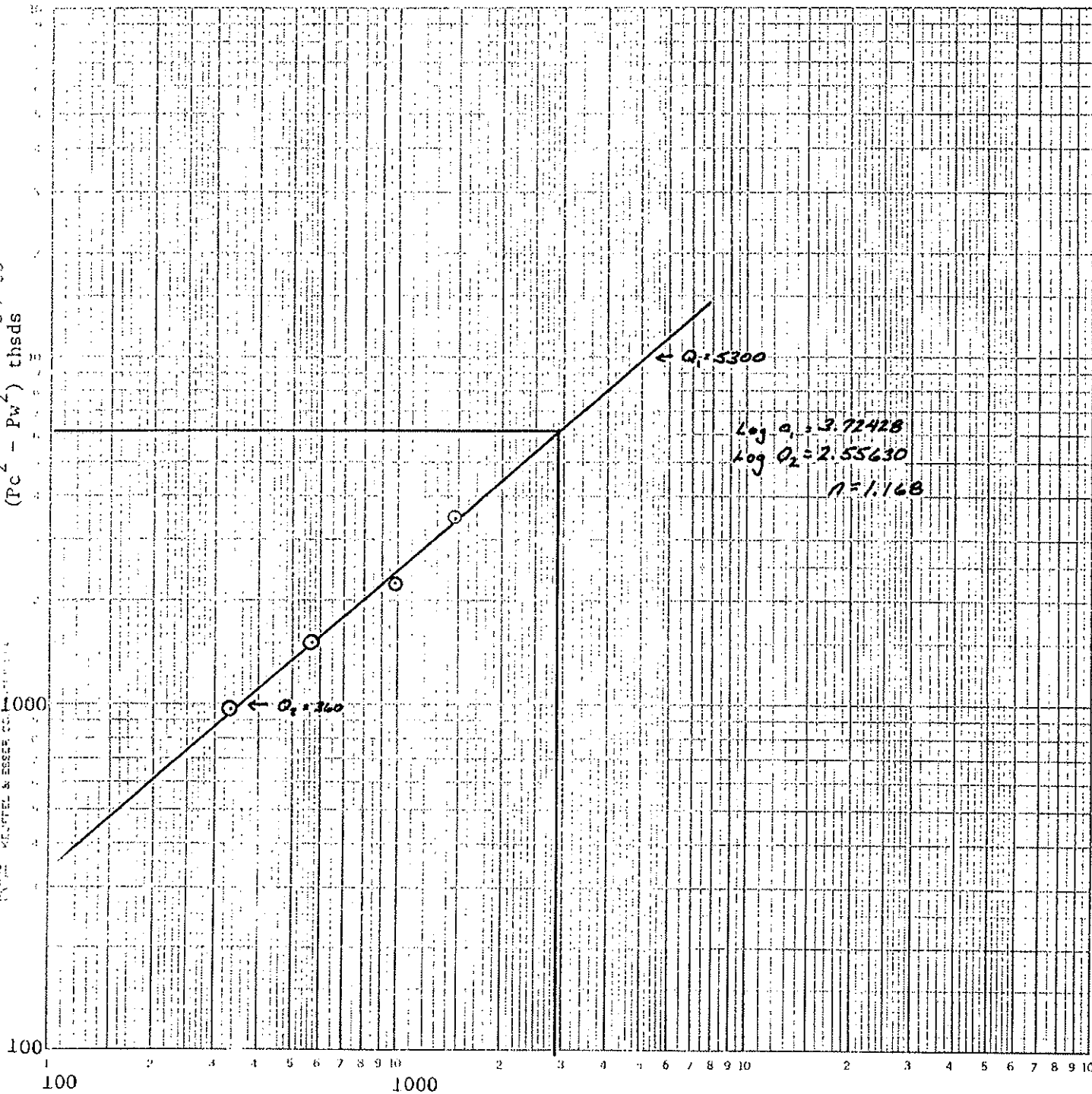
NOTARY PUBLIC

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								
Pool Undesignated		Formation Morrow								
Completion Date 03/05/91		Plug Back TD 10,075'								
Total Depth 10,120'		Perforations: From 9936' To 9967'								
Casing Size 4 1/2"    5 1/2"    2 7/8"		Well No. 1								
Weight 11.6#    6.5		Unit Sec. Twp. Rge. N 1 18S 27E								
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single Gas		Packer Set At 9805'								
Producing Thru Tbg. 148 @ 10,120		Baro. Press. - P <sub>a</sub> 13.2								
Mean Annual Temp. °F 72		State New Mexico								
L 9949    H 9949    Gg .660		Prover Motor Run Taps 3.068    Fig.								
% CO <sub>2</sub> .43    % N <sub>2</sub> .42    % H <sub>2</sub> S ---										
FLOW DATA    TUBING DATA    CASING DATA    Duration of Flow										
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	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 <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, 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 <sub>1</sub>	Temp. °R	T <sub>r</sub>	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    XXXXXXXXX					
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) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.784$ (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.967$										
NO.	P <sub>1</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.844$					
1		2264	5125	985.7						
2		2147	4609	1501.7						
3		1966	3865	2245.7						
4		1639	2686	3424.7						
5										
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				

157400  
(Pc<sup>2</sup> - Pw<sup>2</sup>) thsds

LOG PERMEABILITY INDEX  
LOG PERMEABILITY INDEX



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 BOTTOM HOLE PRESSURE (P<sub>b</sub> or P<sub>wh</sub>)

Form C-122P  
Adopted 9-1-65

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

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

H 9949 L/H 1.000 G .660 % CO<sub>2</sub> .43 % N<sub>2</sub> .42 % H<sub>2</sub>S ---

GH 6566 P<sub>CT</sub> 673 T<sub>CT</sub> 374

TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1 T <sub>w</sub> (W.H. °R)	532	532						
2 T <sub>s</sub> (B.H. °R)	608	608						
3 T <sub>f</sub> ( $\frac{T_w + T_s}{2}$ )	570	570						
4 Z (Est.)	.800	.790						
5 T <sub>Z</sub>	456.0	450.4						
6 GH/TZ	14.399	14.578						
7 e <sup>S</sup> (Table XIV)	1.716	1.727						
8 P <sub>f</sub> or <del>P<sub>wh</sub></del>	3249	3249						
9 P <sub>f</sub> <sup>2</sup> or <del>P<sub>wh</sub><sup>2</sup></del>	10556	10556						
10 P <sub>c</sub> <sup>2</sup> = P <sub>f</sub> <sup>2</sup> /e <sup>S</sup> or <del>P<sub>wh</sub><sup>2</sup>/e<sup>S</sup></del>	6151.7	6110.6						
11 P <sub>c</sub> or <del>P<sub>wh</sub></del>	2480.3	2472.0	= P <sub>c</sub>					
12 P <sub>r</sub> = ( $\frac{P_w + P_s}{2}$ ) or ( $\frac{P_c + P_f}{2}$ )	2864.6	2860.5						
13 P <sub>r</sub> = (P/P <sub>CT</sub> )	4.26	4.25						
14 T <sub>r</sub> = (T/T <sub>CT</sub> )	1.52	1.52						
15 Z (Table XI)	.790	.790						

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

# WORK SHEET FOR CALCULATION OF WELL HEAD PRESSURES (or P<sub>w</sub>)

Form C-1221  
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (or P<sub>s</sub>)

COMPANY Newbourn 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 % CO<sub>2</sub> .43 % N<sub>2</sub> .42 % H<sub>2</sub>S —

GH 6566 P<sub>CT</sub> 673 T<sub>CT</sub> 374

TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1 T <sub>w</sub> (W.H. °R)	532	532	532	532	532	532	532	532
2 T <sub>s</sub> (B.H. °R)	608	608	608	608	608	608	608	608
3 T = ( $\frac{T_w + T_s}{2}$ )	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 <sup>s</sup> (Table XIV)	1.678	1.736	1.736	1.739	1.739	1.739	1.740	1.725
8 <del>P<sub>s</sub></del> or P <sub>s</sub>	2983	2983	2831	2831	2593	2593	2152	2152
9 <del>P<sub>s</sub></del> or P <sub>s</sub> <sup>2</sup>	88983	8898.3	8014.6	8014.6	6723.6	6723.6	4631.1	4631.1
10 <del>P<sub>s</sub></del> = P <sub>i</sub> <sup>2</sup> /e <sup>s</sup> or P <sub>w</sub> <sup>2</sup> = P <sub>s</sub> <sup>2</sup> /e <sup>s</sup>	5304.3	5126.6	4616.2	4609.0	3867.2	3865.5	2661.7	2684.9
11 <del>P<sub>w</sub></del> or P <sub>w</sub>	2303.1	2264.2	2148.5	2146.9	1966.5	1966.1	1631.5	1638.6
12 P = ( $\frac{P_w + P_s}{2}$ ) or ( $\frac{P_s + P_i}{2}$ )	2643.1	2623.6	2489.8	2488.9	2279.8	2279.5	1891.7	1895.3
13 P <sub>r</sub> = (P/P <sub>CT</sub> )	3.93	3.90	3.70	3.70	3.39	3.39	2.81	2.82
14 T <sub>r</sub> = (T/T <sub>CT</sub> )	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

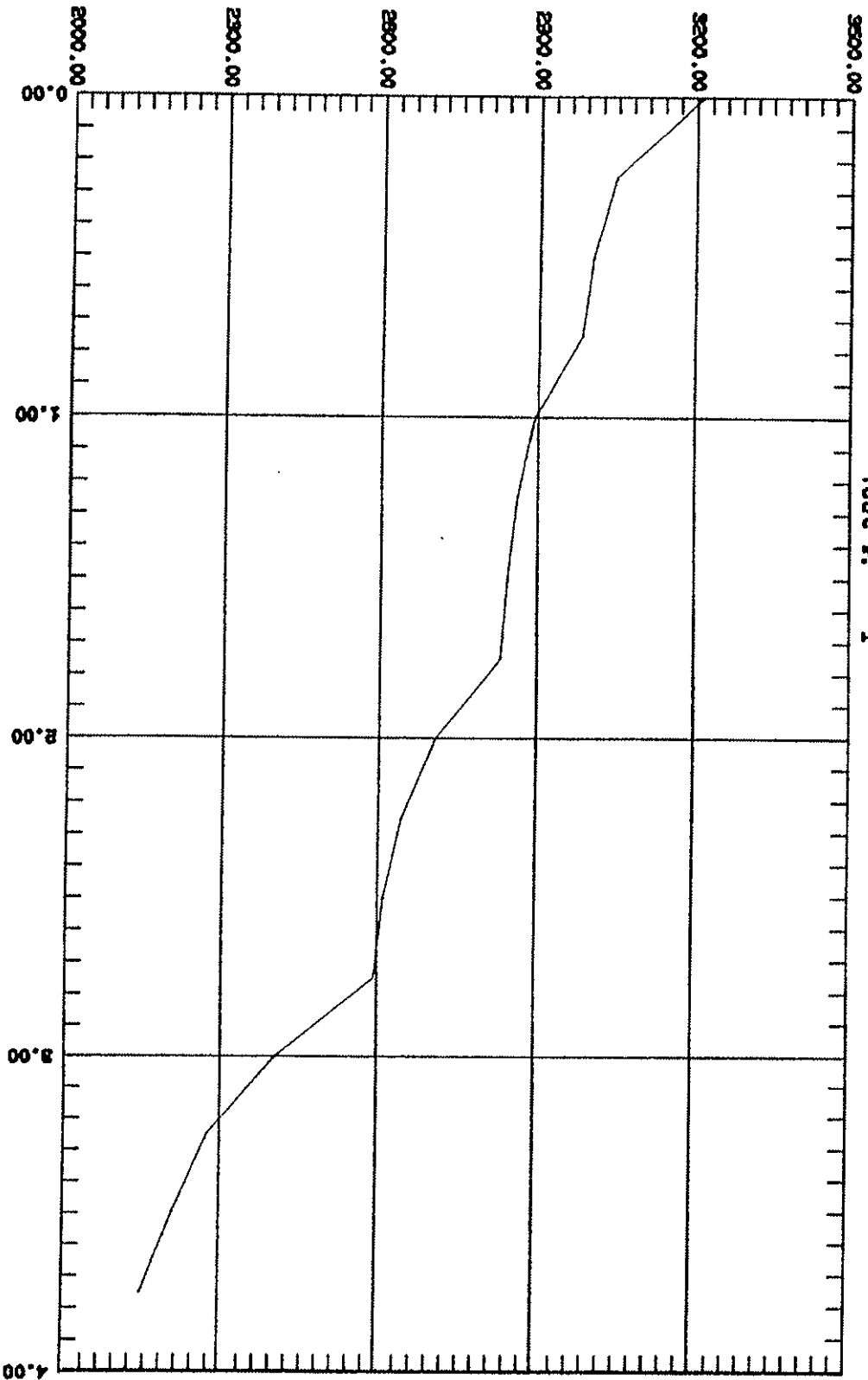


Plot starting date: 3/15/91  
time: 9:45: 0  
Gauge S/N

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 COMMISSION  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*  
(See other In-  
structions 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 ☐ GAS ☒ DRY ☐ Other \_\_\_\_\_  
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ 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

CONFIDENTIAL  
JUL 23 1992  
O.C.D.

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.  
1  
10. FIELD AND POOL, OR WILDCAT  
N. Illinois Camp Morrow  
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 1-T18S-R27

12. COUNTY OR PARISH  
Eddy  
13. STATE  
N.M.  
14. PERMIT NO. DATE ISSUED  
API #30-015-216575  
15. DATE SPUDDED 12/22/90 16. DATE T.D. REACHED 1/29/91 17. DATE COMPL. (Ready to prod.) 3/07/91 18. ELEVATIONS (DV, RKB, HT, 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 X 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

29.

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"	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

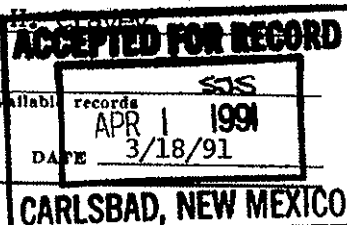
LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	9051'	10119'	175		2-3/8"	9805'	9805'

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) AMOUNT AND KIND OF MATERIAL USED  
9936-67' 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 CHOKER SIZE 8/64" PROD'N. FOR TEST PERIOD OIL—BBL. 1 GAS—MCF. 886 WATER—BBL. 0 OIL GRAVITY 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.) 58.05

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) 'Sold TEST WITNESSED BY W. H. ...

35. LIST OF ATTACHMENTS  
Logs  
I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED [Signature] TITLE Engr. Opns. Secretary  
DATE 3/18/91



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

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

I.

Operator MEWBOURNE OIL COMPANY ✓	Well APN 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: <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Recompletion <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
Change in Operator <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 or Private	Lease No. NM-0557371
Location Unit Letter N : 2250 Feet From The West Line and 790. Feet From The South Line Section 1 Township 18 South Range 27 East, NMPM, Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil or Condensate <input type="checkbox"/> or <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 or Dry Gas <input type="checkbox"/> or <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 N Sec. 1 Twp. 18S Rge. 27E	Is gas actually connected? Yes	When? March, 1991

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
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 Post 10-2					
12-1/4"	9-5/8"	2604'	1025 5-12-91					
8-3/3"	7"	9450'	1350 comp. F.B.R.					
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 Title

March 11, 1991 (903) 561-2900

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 recompleted wells.

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

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



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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  
OIL CON. DIV.

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 Orig. Signed 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

OCD - Artesia

0151

**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.

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

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 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

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TYPE OF SUBMISSION

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

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Extend T/A & CIT.  
☐ 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.)

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 [Signature]

Title N.M. Young District Manager

Date 10/06/00

(This space for Federal or State office use)

Approved by (ORIG. 502) MEG. LARA  
Conditions of approval, if any:

Title Deputy District Manager

Date 11/6/2000

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

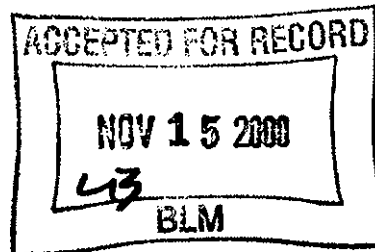
TYPE OF ACTION

- ☐ 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 R27E EDDYCA NM# 6557371

CHALK BLUFF FEO #1

Donna BLM  
10/25/00  
adgim-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

25F

**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

FEB 21 1994

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 1994  
RECEIVED  
BUREAU OF LAND MANAGEMENT  
U.S. DEPARTMENT OF THE INTERIOR

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

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

NEW MEXICO OIL & GAS COMMISSION  
Drawer 85  
Alamosa, 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.

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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.)\*

\* 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

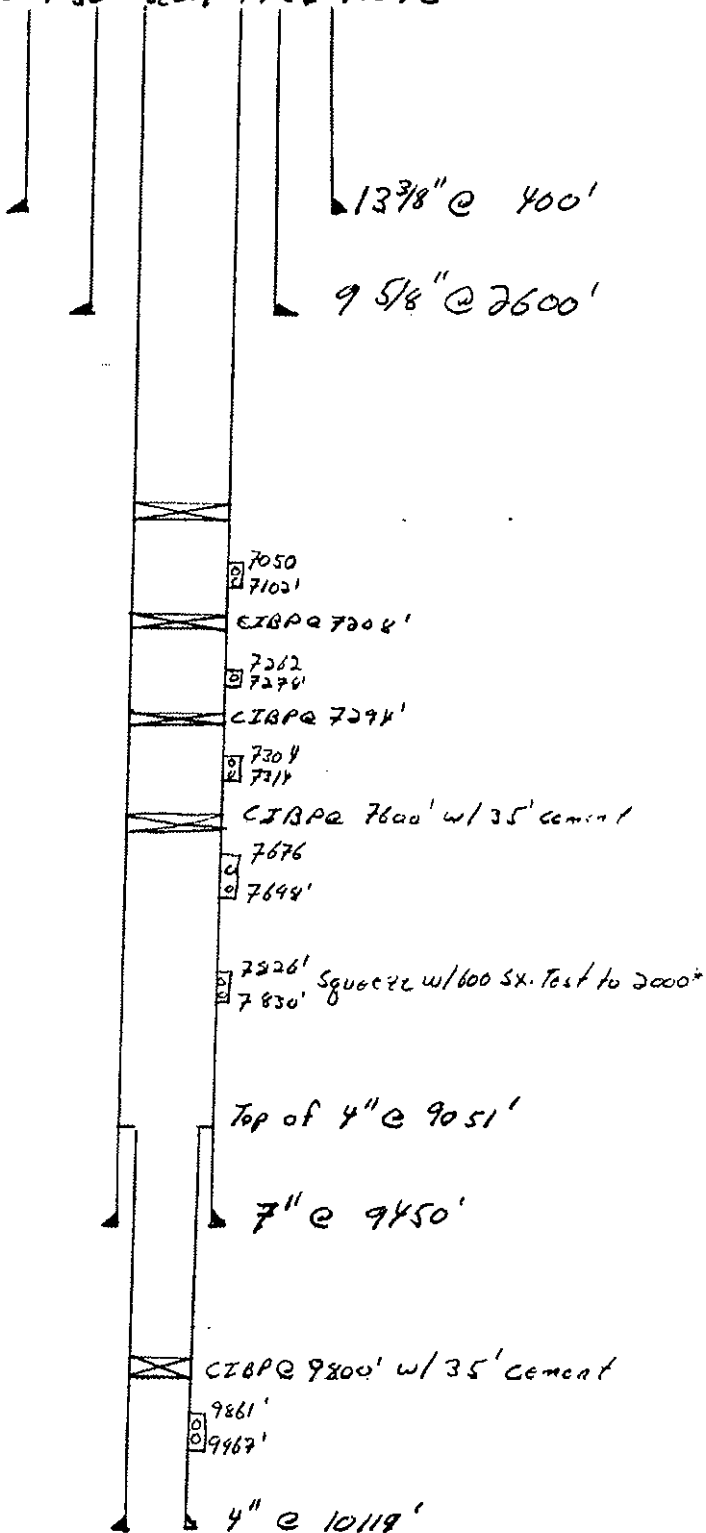
ACCEPTED FOR RECORD

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 READING NEW MEXICO

Mewbourne Oil Company  
 Chuck Bluff Federal #1  
 2250' FWT 740' FSL Sec. 1-T186-R27E



CO. NO. 24-01 7 Mar  
 03402028

3160-5  
(1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**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

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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

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

11. County or Parish, State

Eddy Co., N.M.

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☐ Final Abandonment Notice

TYPE OF ACTION

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☐ Altering Casing  
☐ Other \_\_\_\_\_
- ☐ Change of Plans  
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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 43 AM '93  
CARL 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

Approved by

Conditions of approval, if any:

Title

PETROLEUM ENGINEER

Date

10/15/93

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

30-015-810575

Agid- 14744

Property- 7876

Pool- 78890

3-19-91

DUAL LAT.

2575-9446

4330-1012

DUAL SPACED

NEUTRON

Long- 9417

8500-10121

3-19-91

DUAL LAT.

2575-9446

4330-1012

DUAL SPACED

NEUTRON

Long- 9417

8500-10121

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.

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)

505-748-3313

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

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

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

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 type="checkbox"/> Other RECOMPLETE AS
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	CLASS I INJECTION
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	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 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 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 drilling 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

change well name per Darrell Moore

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

**10 Surface Location**

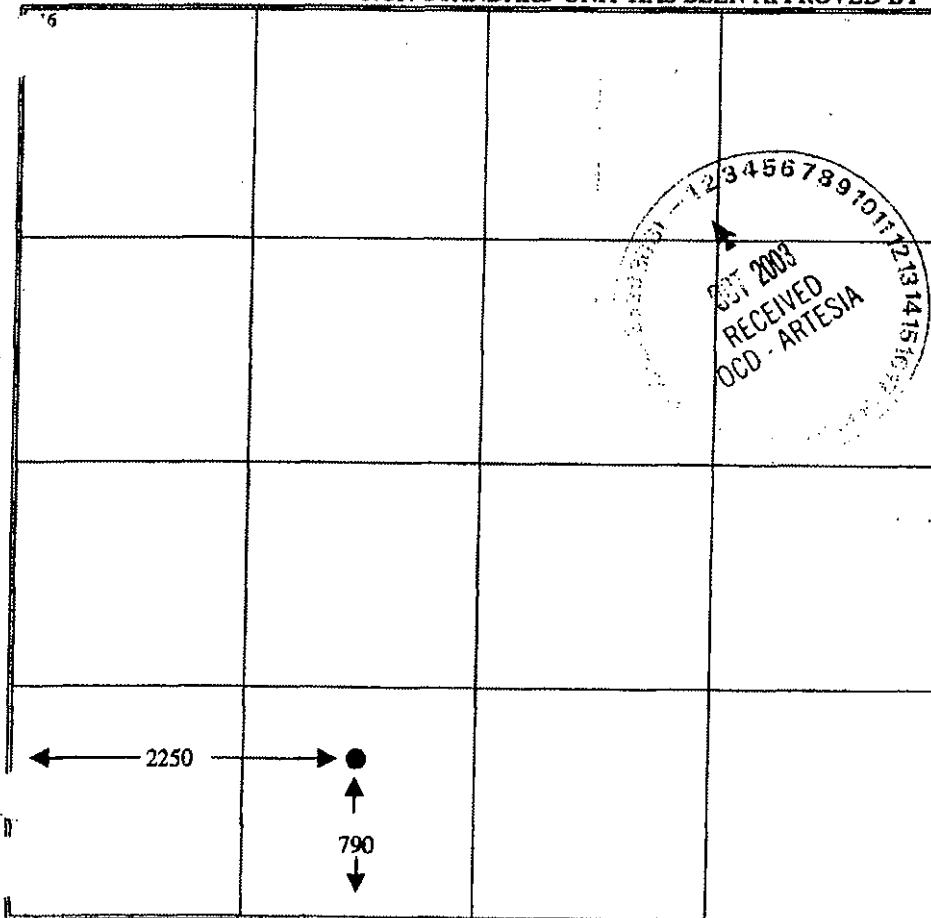
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	1	18S	27E		790	South	2250	West	Eddy

**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

				<b>17 OPERATOR CERTIFICATION</b> 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: <b>Darrell Marc</b> Title and E-mail Address: <b>Env. Mgr. for Water Waste</b> <b>darrell@navajo-refining.com</b> Date: <b>9/17/03</b>	
				<b>18 SURVEYOR CERTIFICATION</b> 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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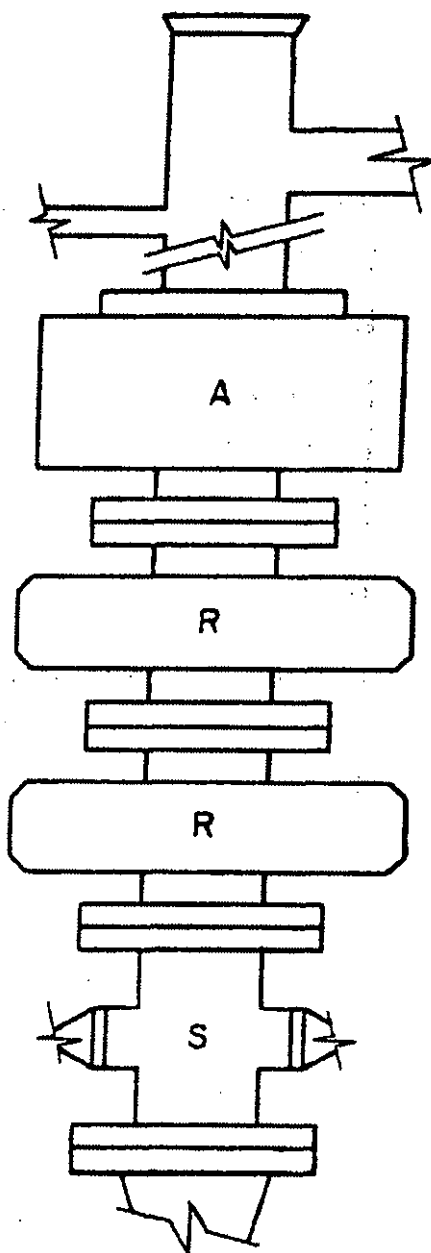


5. Pull the bit and run a retrievable squeeze packer on the work string. Set the packer at 7150 feet and test for communication between the perforations. Squeeze the perforations from 7262 feet to 7278 feet and 7304 feet to 7314 feet with approximately 100 sacks of neat cement (actual squeeze cement 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

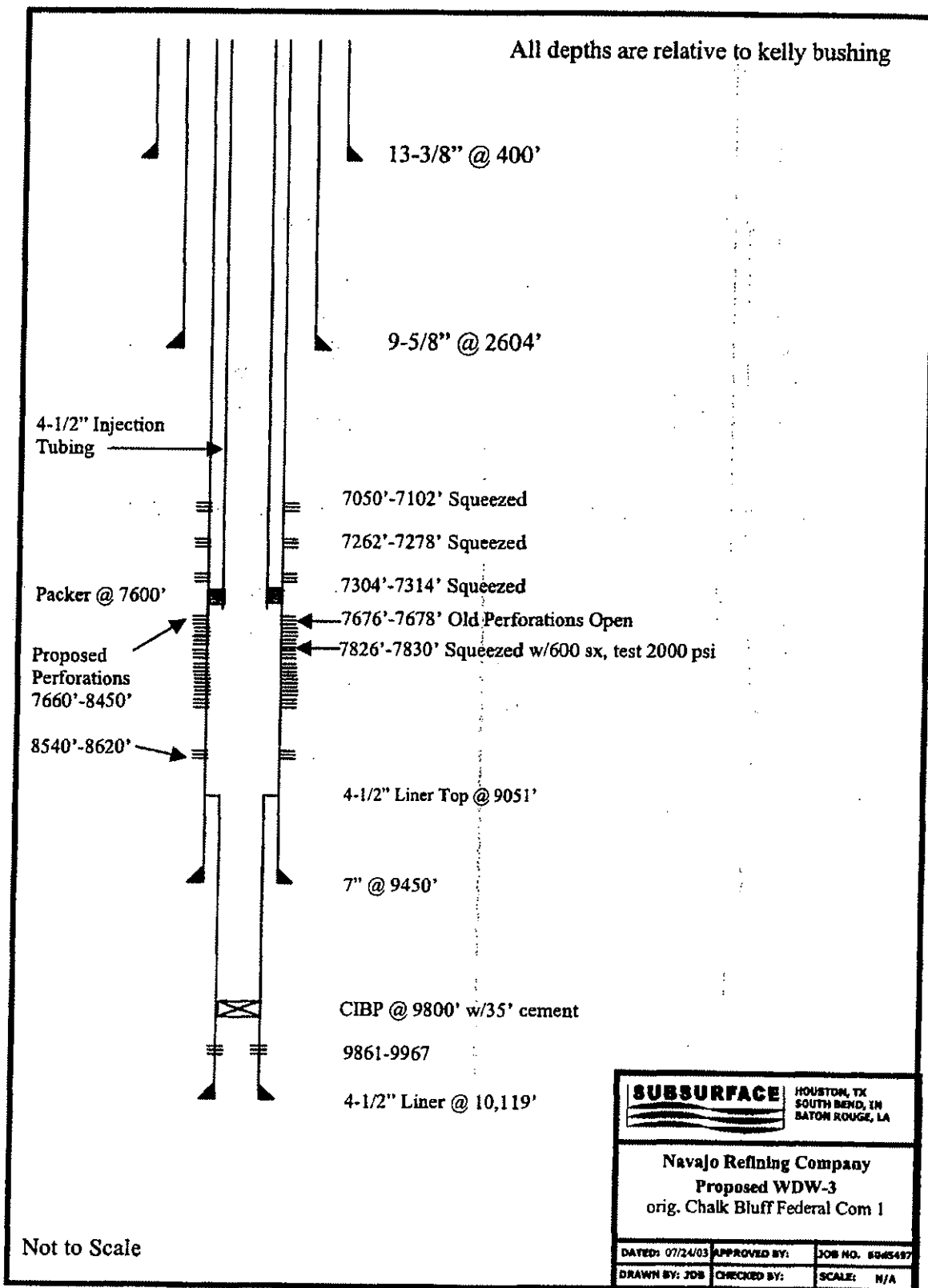
S = DRILLING SPOOL WITH SIDE OUTLETS  
7-1/16", 3000 psi working pressure

Manual Choke Manifold 2", 3000 psi working pressure

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

<b>SUBSURFACE</b>		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Exhibit A Blowout Preventer Minimum Requirements		
DATED: 07/24/03	APPROVED BY:	JOB NO. 6825497
DRAWN BY: JDS	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.

Accepted for record - NMOCD

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

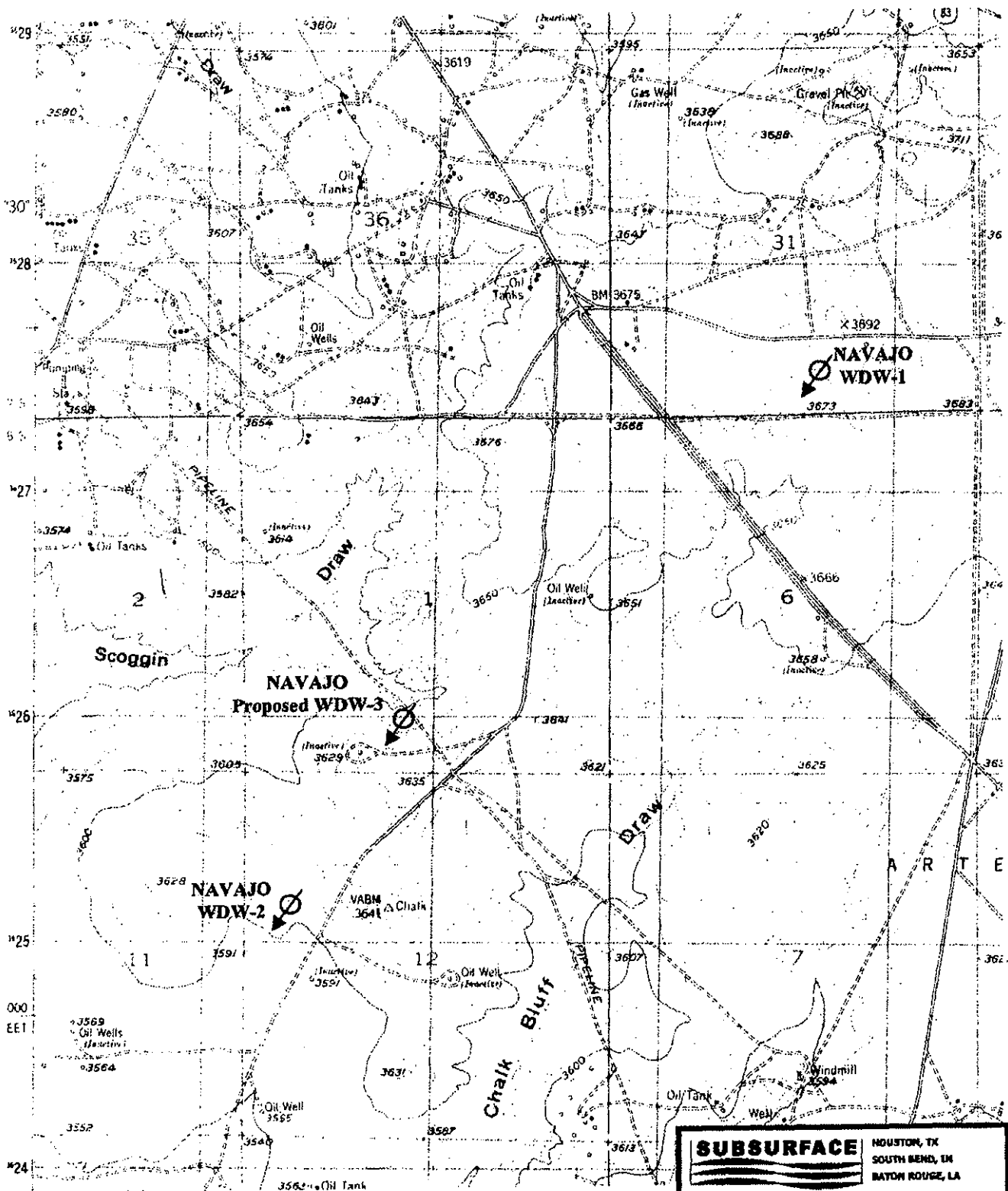
Title

Env. Mgr. for Water-Waste

Navajo Refining Company

Company

Accepted for record - NMOCD



USGS Topographic Map  
Red Lake Quadrangle, Eddy County, NM

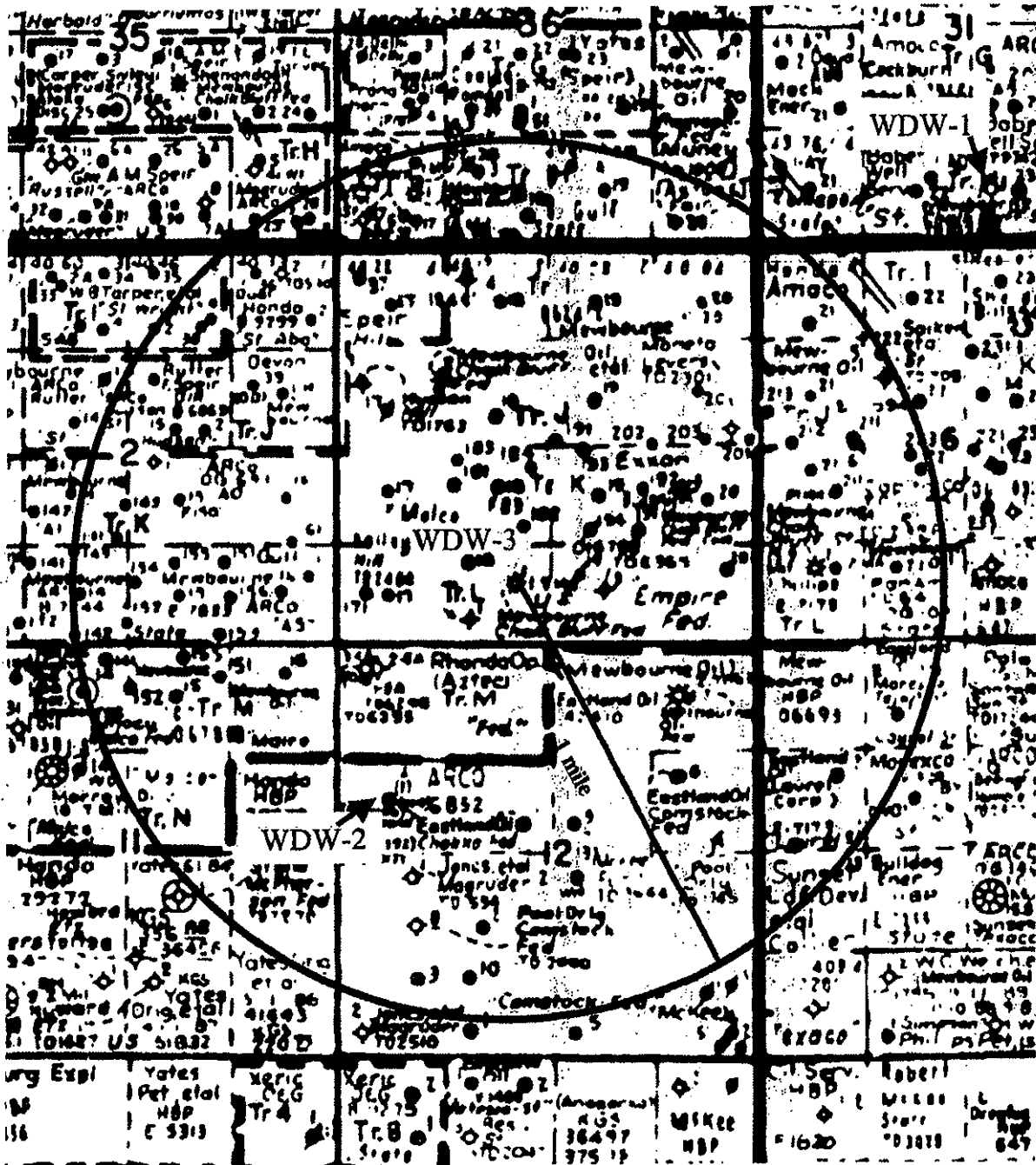
Section corners marked with +

Accepted for record - NMOCD

<b>SUBSURFACE</b>		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 - R28E**




	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: MHN	JOB NO. 6005407
DRAWN BY:	CHECKED BY:	SCALE: N/A

Map courtesy of Midland Map Company

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 <b>RECOMPLETE AS CLASS 1</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>INJECTION WELL</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

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 CALIPER FROM 9051' TO SURFACE;  
PERFORATE 8340'-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).

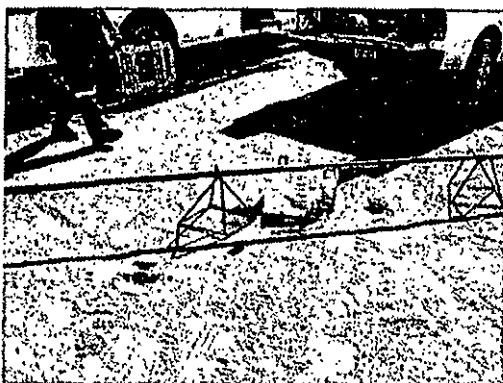


Image 2: Radioactive tool set up. Tracer, Iodine 131 (half-life ~ 8 days).



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

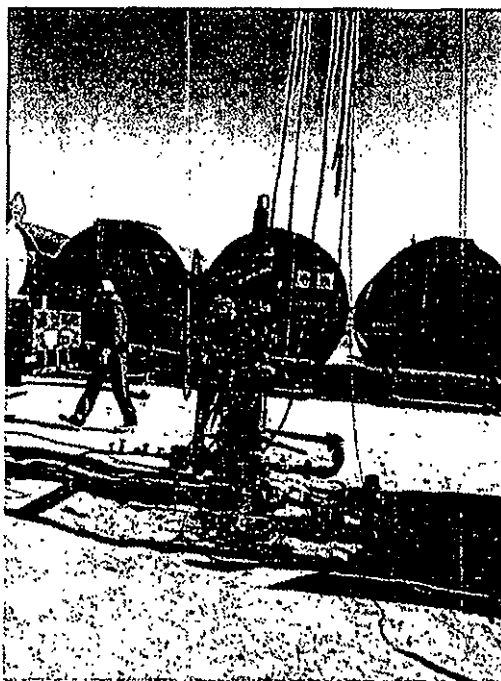


Image 4: Petroplex workers prepping wellhead for wire line tool entry.



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

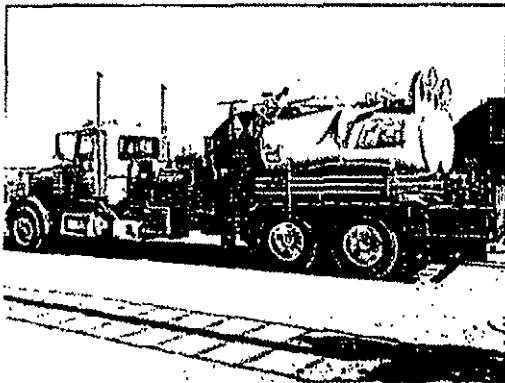


Image 6: Pump truck, Petroplex, for Brine water pumping only. No HCL used throughout process.

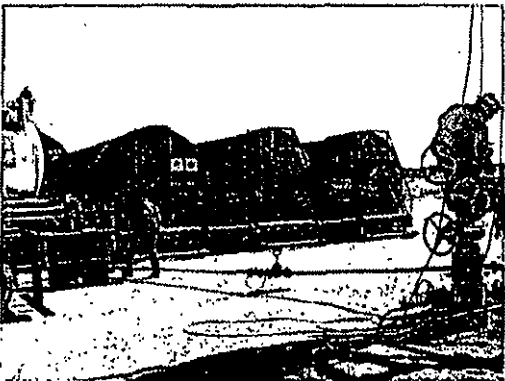


Image 7: Securing of the wire line to the wellhead.

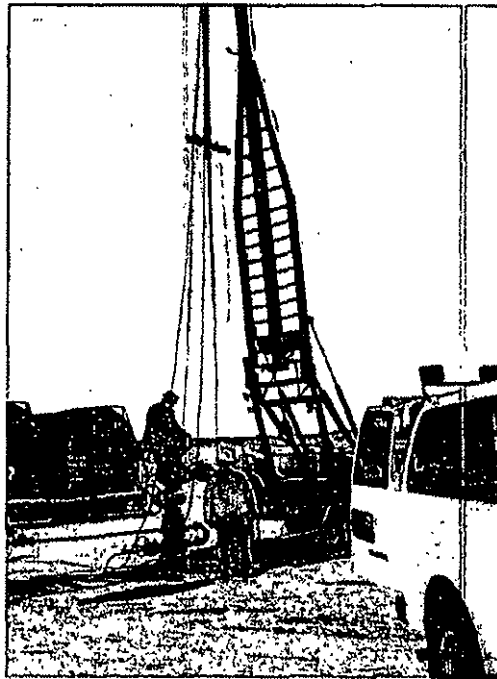


Image 8: Wood Group employee securing wellhead for tool entry.

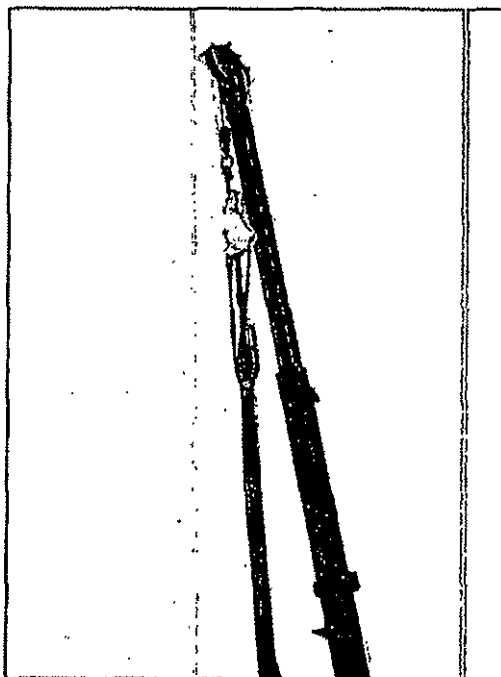


Image 9: Configuration at the top end of the boom.

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

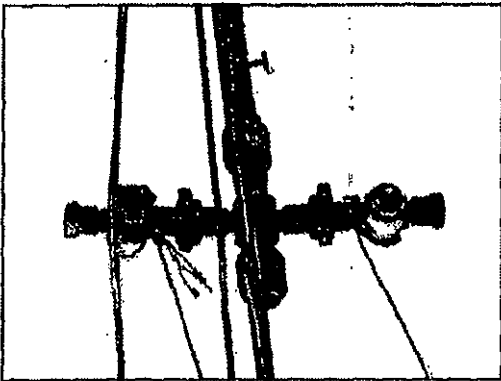


Image 10:

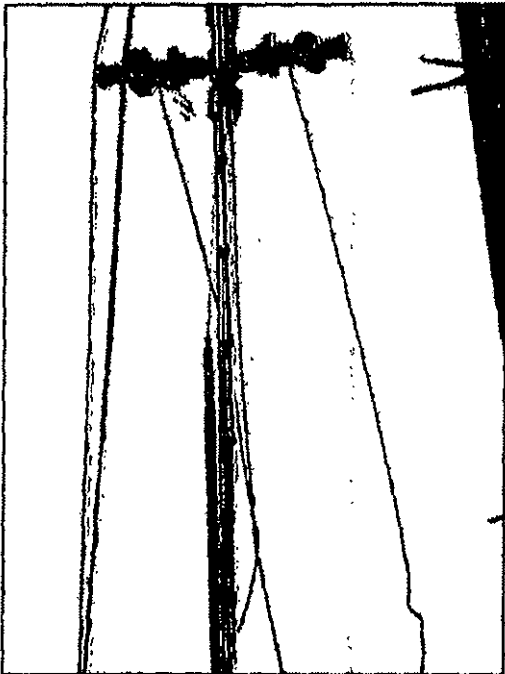


Image 11:

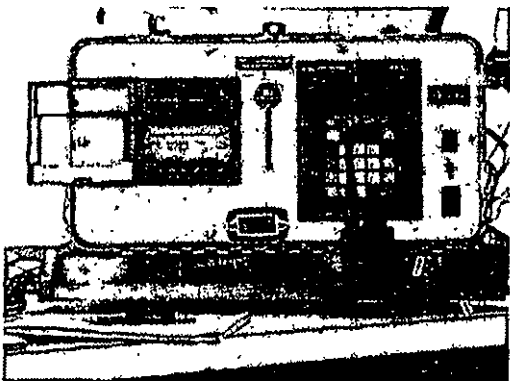


Image 12:

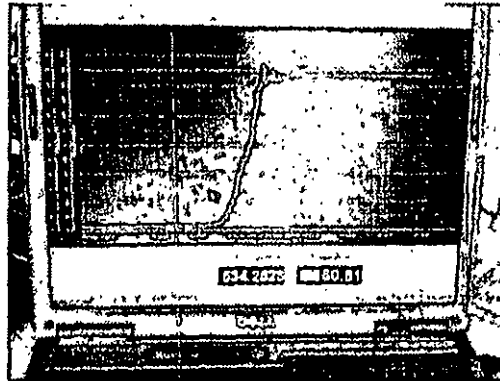


Image 13:

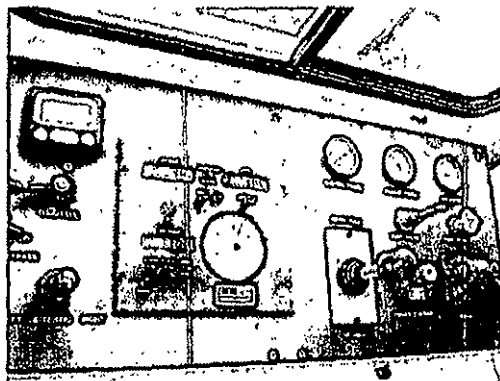


Image 14:

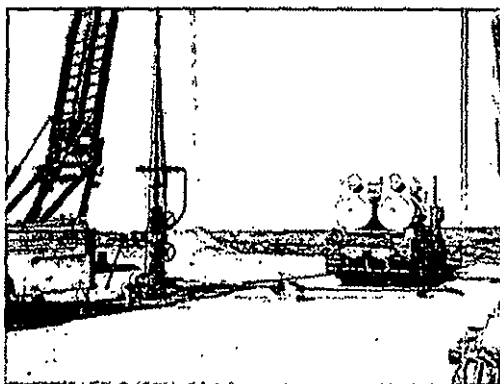


Image 15:

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

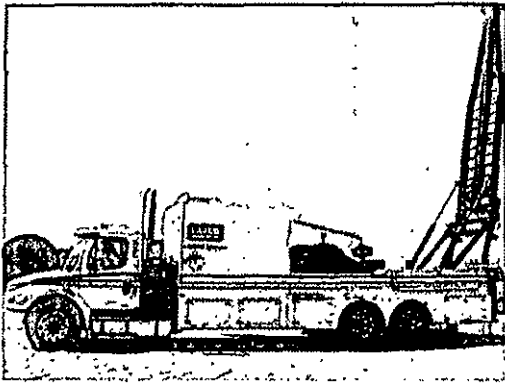


Image 16:

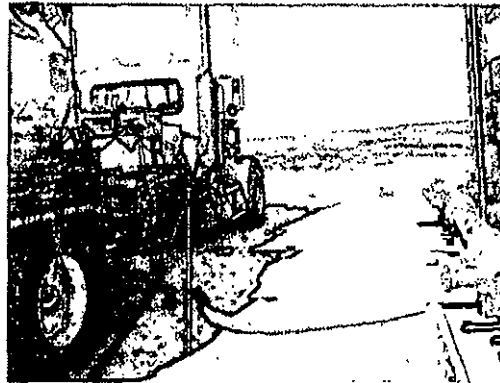


Image 19:

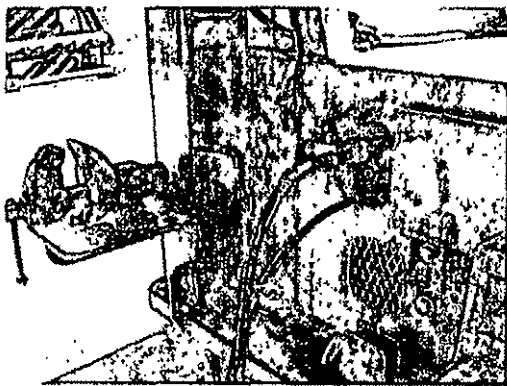


Image 17:

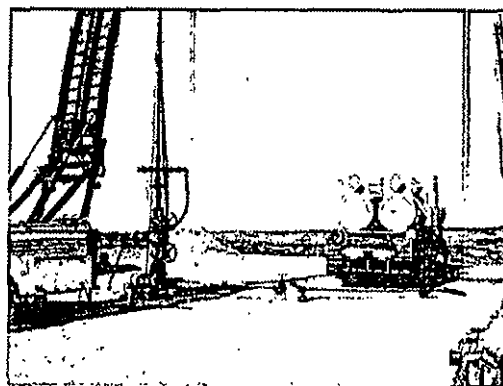


Image 20:

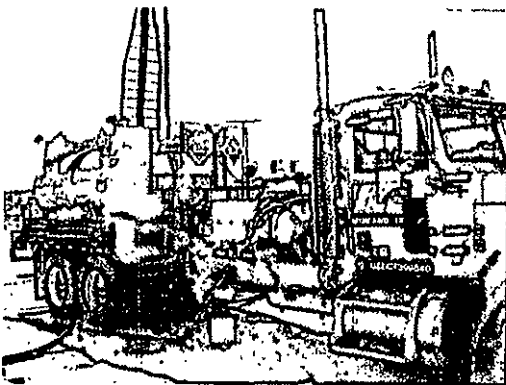
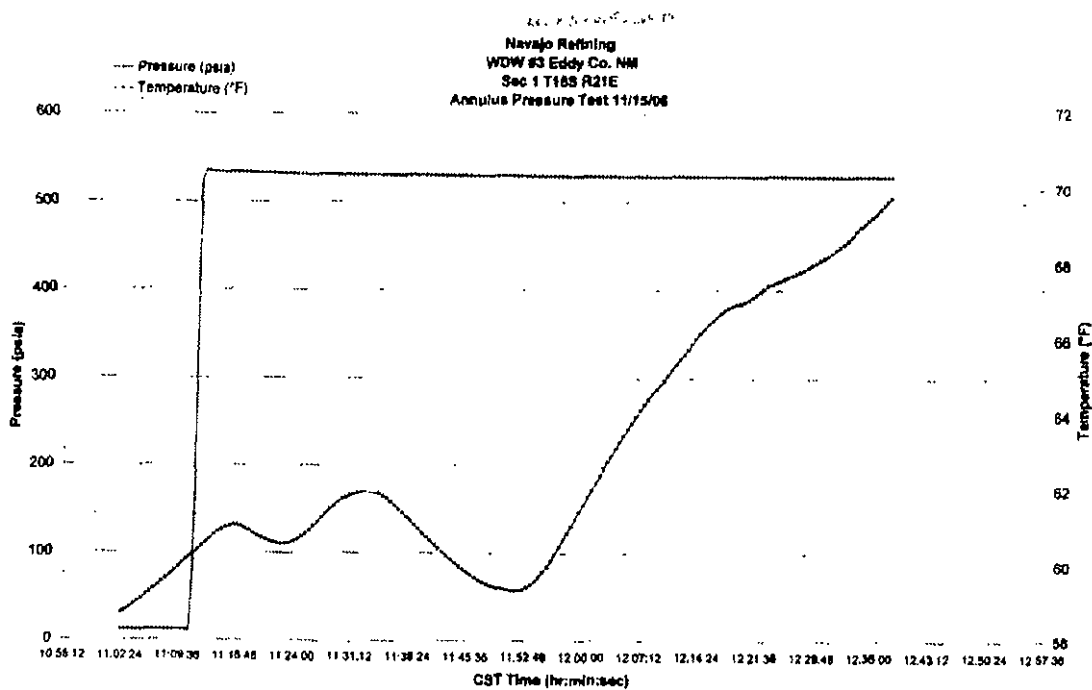
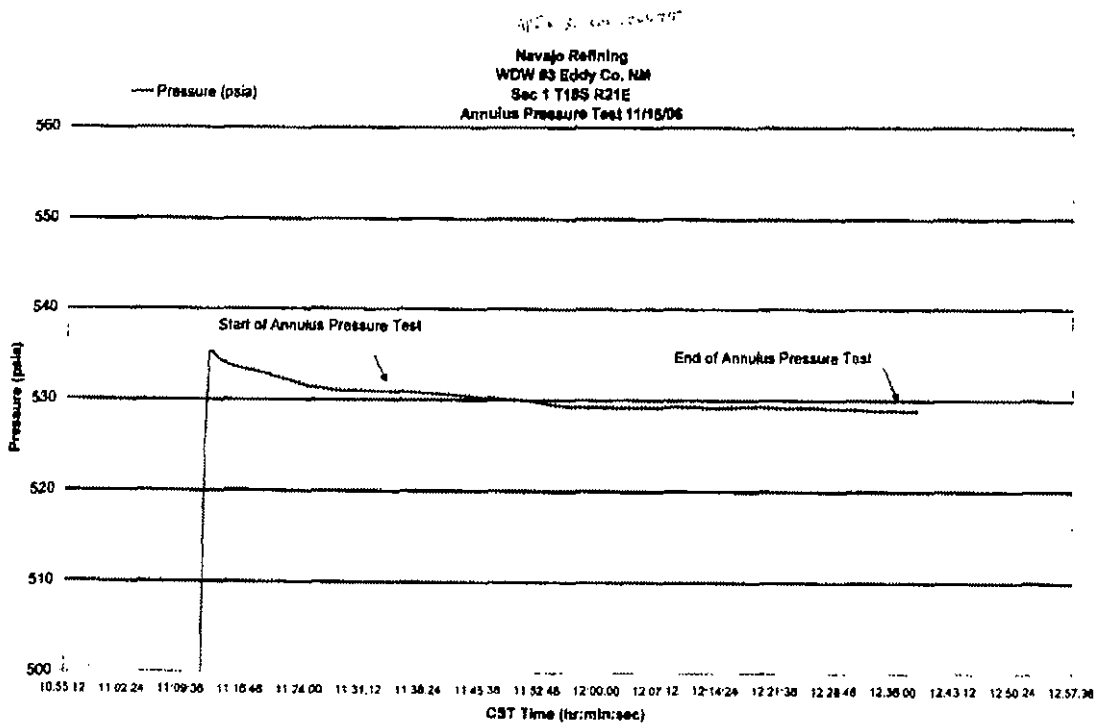


Image 18:



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 API Number 30-015-26575
Property Code	Property Name WDW	Well No. 3
Proposed Pool 1 NAVAJO INJECTION; PERMO-PENN		Proposed Pool 2

Surface Location

UL or lot no.	Section	Township	Range	Lot 1st	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 1st	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

11 Work Type Code E	12 Well Type Code I	13 Cable/Rotary R	14 Lease Type Code	15 Ground Level Elevation 3609
16 Multiple NO	17 Proposed Depth 9051'	18 Formation CANYON	19 Contractor	20 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"/> mls 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	

22 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.

23 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

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

<sup>10</sup> Surface Location

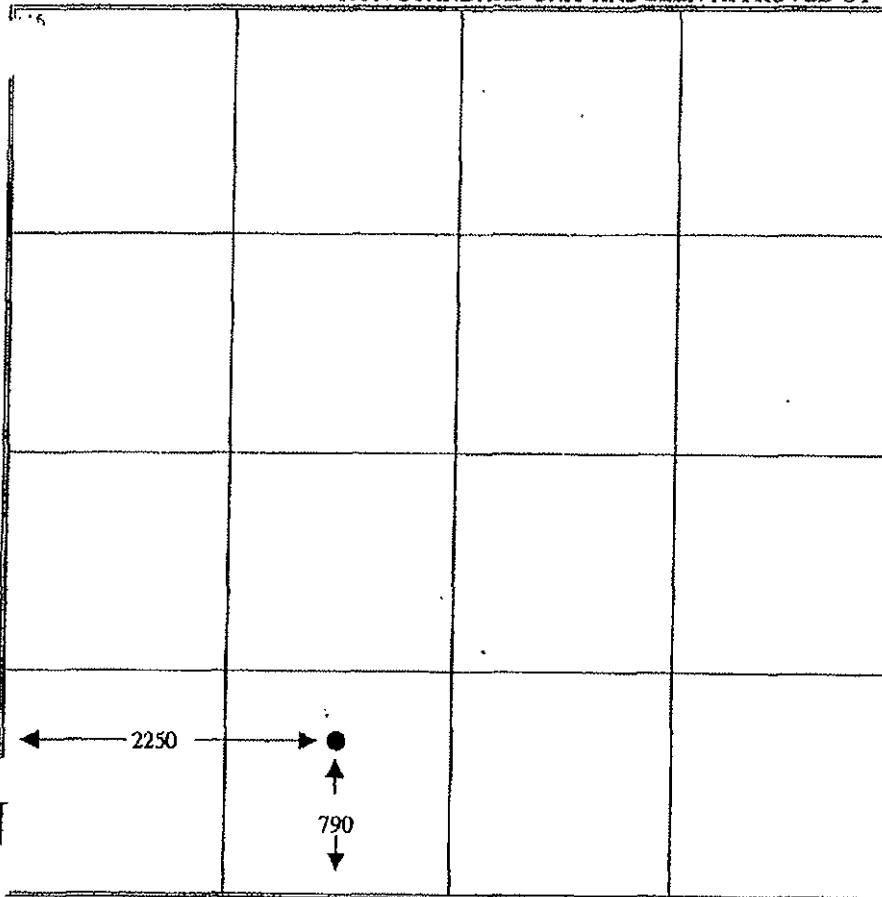
UL or lot no. N	Section 1	Township 18S	Range 27E	Lot Idn	Feet from the 790	North/South line South	Feet from the 2250	East/West line West	County Eddy
--------------------	--------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------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

<sup>11</sup> 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
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

	<sup>17</sup> 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: <i>Darrell Moore</i> Title and E-mail Address: <i>Env. Mgr. for water waste darrell@navajo-refining.com</i> Date: <i>9/17/03</i>	
	<sup>18</sup> 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:

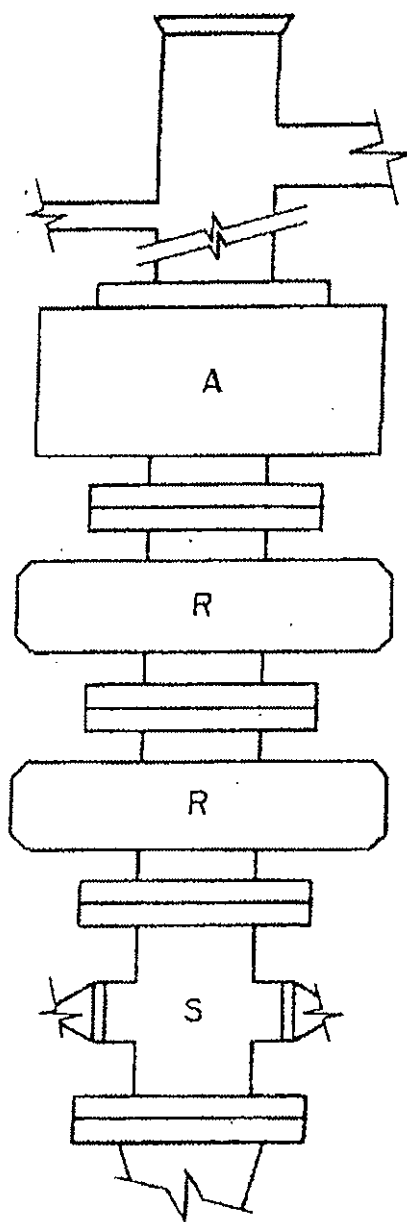
$$\begin{aligned}\text{BHP (9000 feet)} &= 2813 \text{ psia} + (9000 \text{ feet} - 7570 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.025 \\ &= 3448 \text{ psia}\end{aligned}$$

#### 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

**SUBSURFACE**

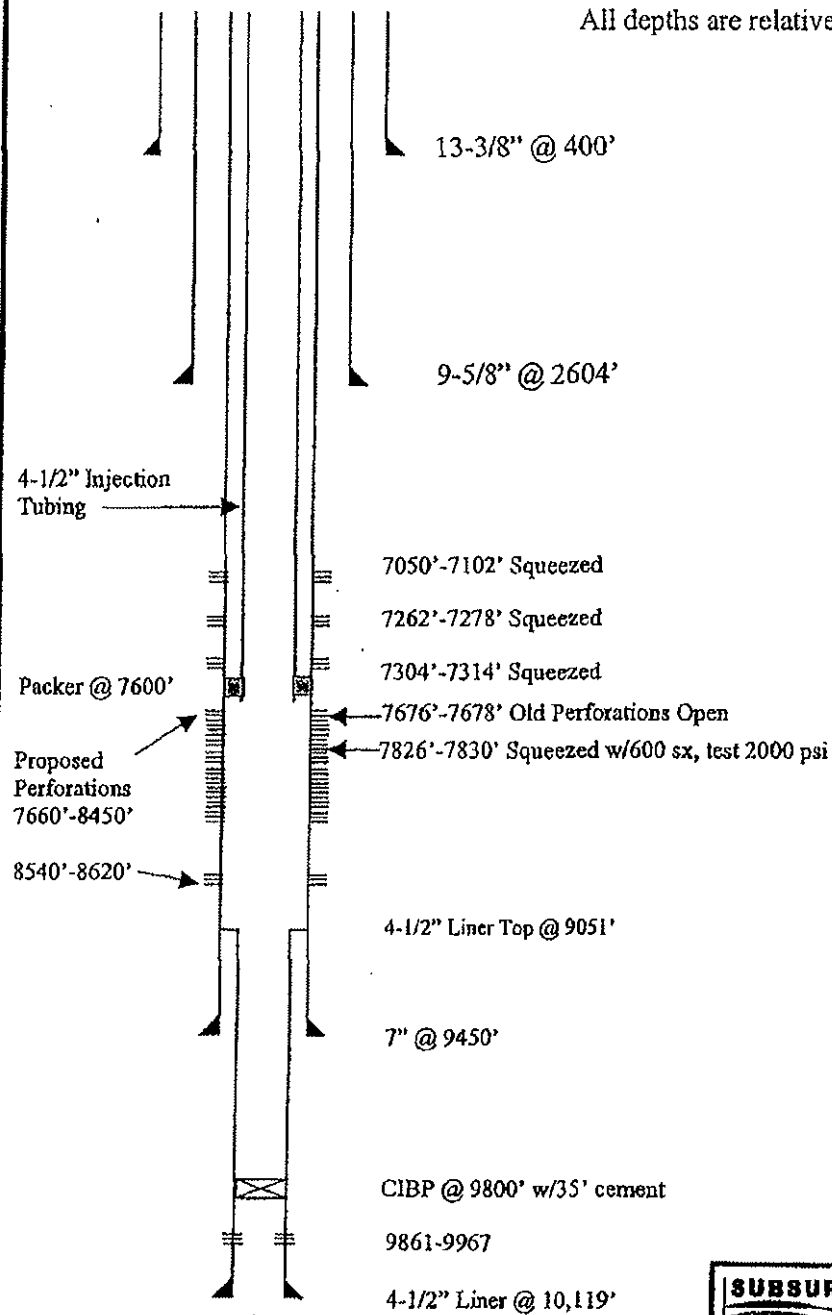
HOUSTON, TX  
SOUTH BEND, IN  
BATON ROUGE, LA

Exhibit A  
Blowout Preventer Minimum  
Requirements

DATE: 07/24/03	APPROVED BY:	JOB NO. 6805497
DRAWN BY: JDB	CHECKED BY:	SCALE: N/A

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

All depths are relative to kelly bushing



Not to Scale

<b>SUBSURFACE</b>		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Navajo Refining Company Proposed WDW-3 orig. Chalk Bluff Federal Com 1		
DATED: 07/24/83	APPROVED BY:	JOB NO. 6048497
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

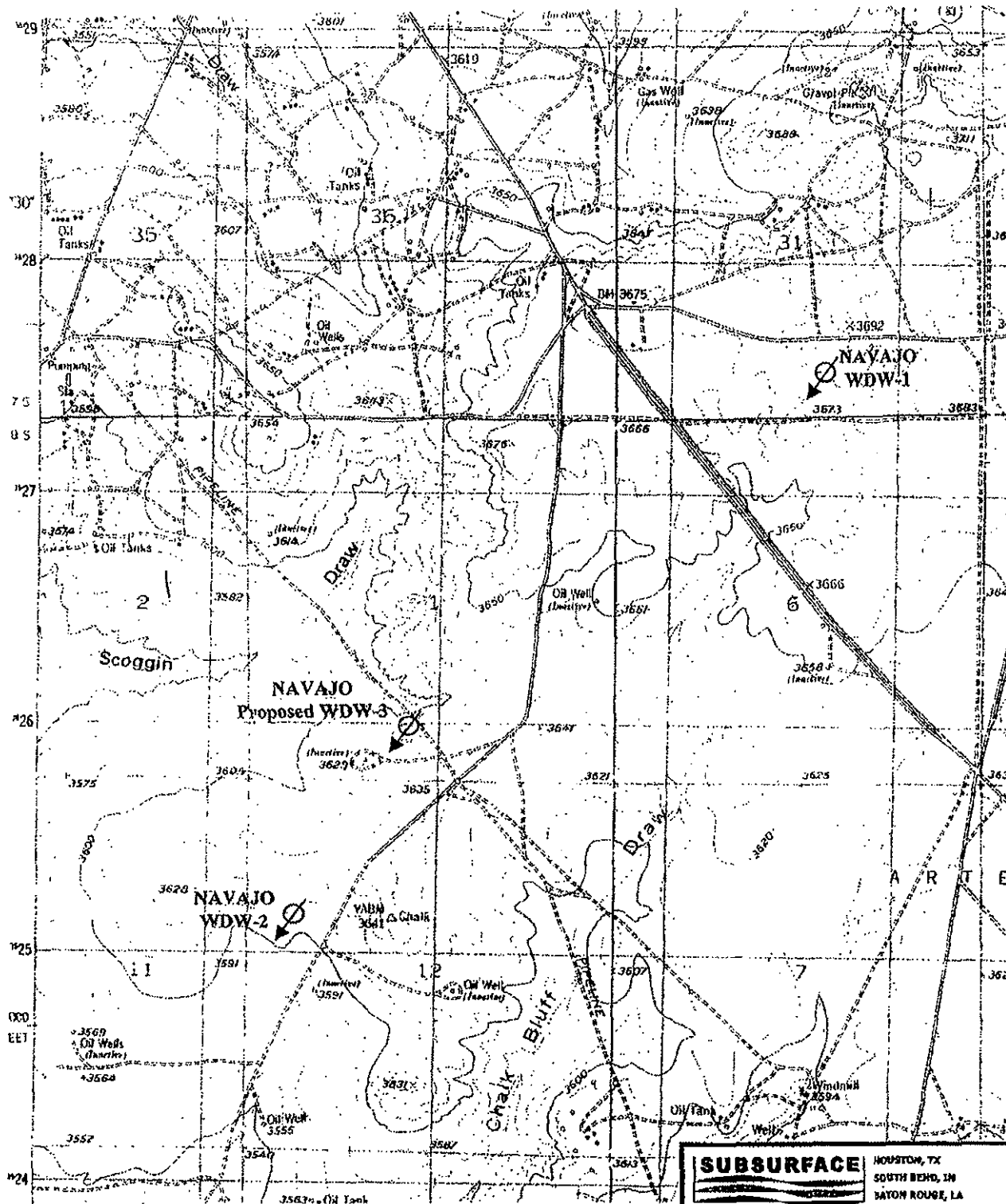
- A. Topographic Map
- B. Oil and Gas Map

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



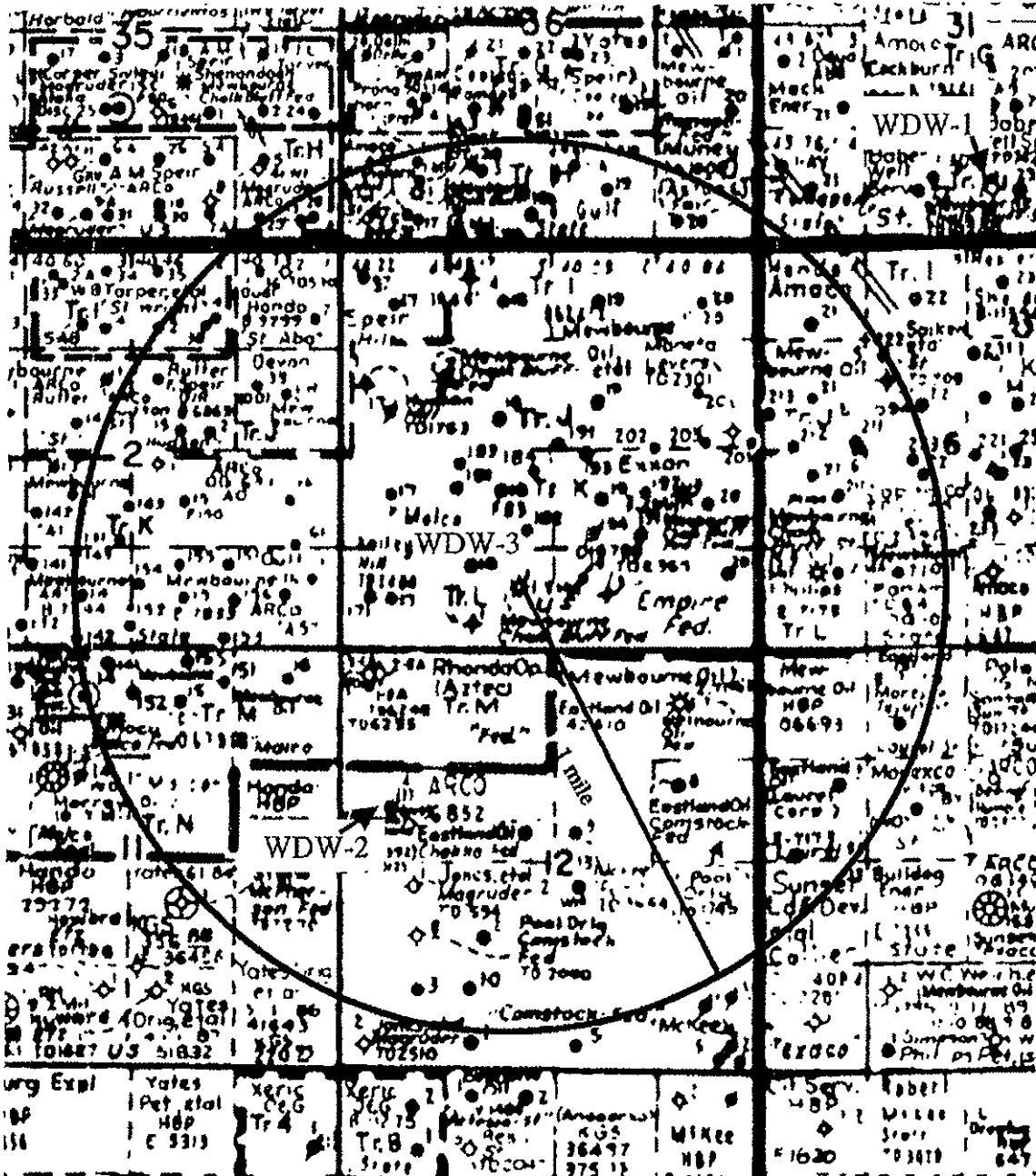
USGS Topographic Map  
Red Lake Quadrangle, Eddy County, NM

Section corners marked with +

<b>SUBSURFACE</b>		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: M.W.	JOB NO: 6003497
DRAWN BY:	CHECKED BY:	SCALE: 1"=2000'

T17S - R27E

T17S - R28E



T18S - R27E  
EDDY COUNTY, NM

<b>SUBSURFACE</b>		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. 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 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  
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 M. Moore TITLE Env. Mgr. for Water & Waste DATE 1/18/07

Type or print name  
r State Use Only

E-mail address:

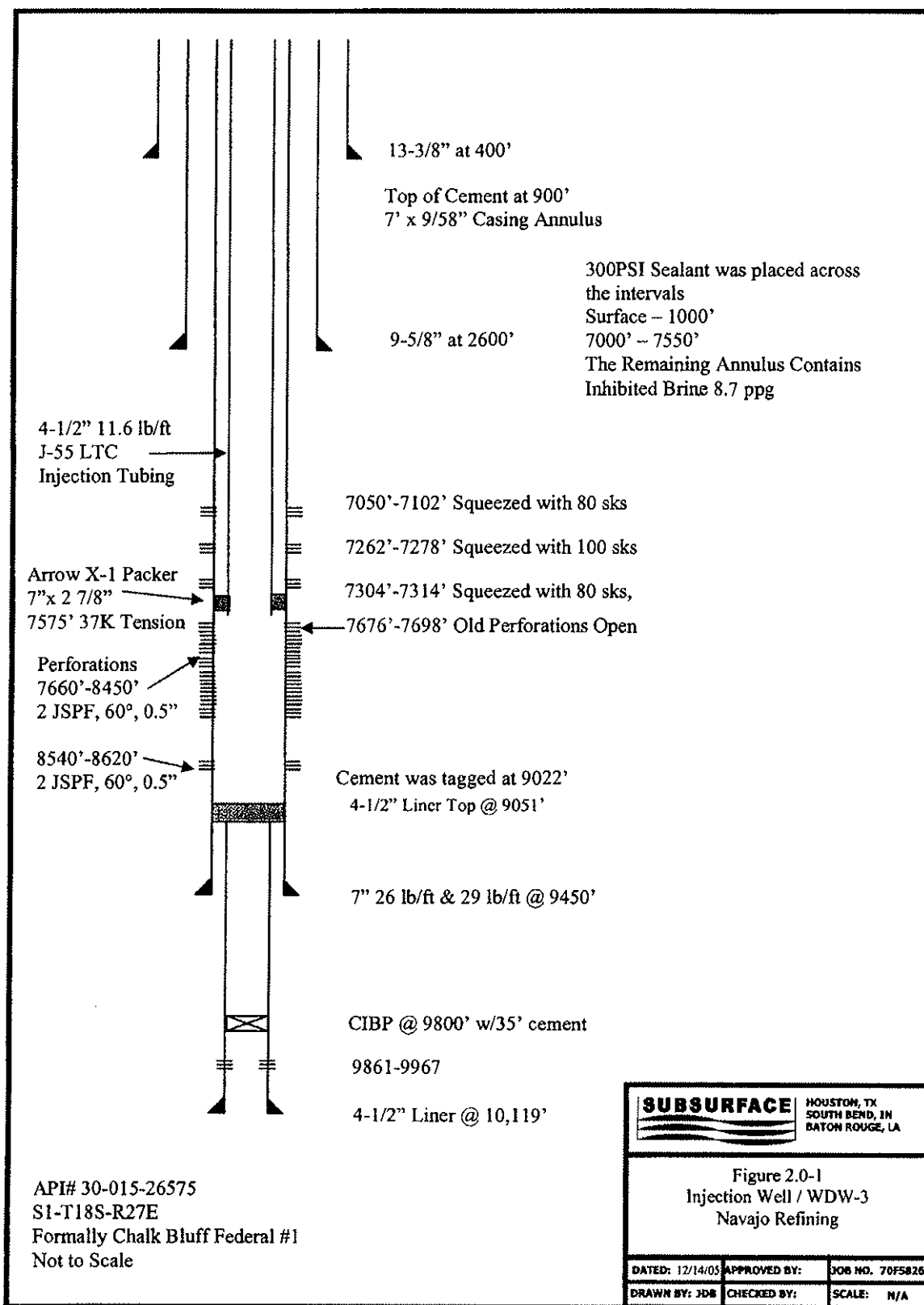
Telephone No.

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	<b>State of New Mexico</b> <b>Energy, Minerals and Natural Resources</b>  <b>Oil Conservation Division</b> <b>1220 South St. Francis Dr.</b> <b>Santa Fe, NM 87505</b>	<b>Form C-105</b> Revised June 10, 2003
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>		WELL API NO. 30 - 015 - 26575
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		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
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		State Oil & Gas Lease No.
2. Name of Operator  NAVAJO REFINING COMPANY		7. Lease Name or Unit Agreement Name  Waste Disposal Well / WDW - 3
3. Address of Operator  P.O. BOX 159, ARTESIA, NM 88211		8. Well No. 3
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		9. Pool name or Wildcat
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
<b>23. CASING RECORD (Report all strings set in well)</b>		
CASING SIZE	WEIGHT LB./FT.	DEPTH SET
13 3/8"	54.50	400'
9 5/8"	36	2604'
7"	29 & 26	9450'
<b>24. LINER RECORD</b>		
SIZE	TOP	BOTTOM
4 1/2"	9051'	10,119'
<b>25. TUBING RECORD</b>		
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. 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		
<b>28. PRODUCTION</b>		
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
10/19/06	4 HOURS	NO CHOKE INJECT TEST
Prod'n For Test Period	Oil - Bbl	Gas - MCF
N/A	N/A	N/A
Water - Bbl.	Gas - Oil Ratio	
N/A	N/A	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate
MAX INJECT 1450 PSI	750 PSI	8 BPM
Oil - Bbl.	Gas - MCF	Water - Bbl.
N/A	N/A	N/A
Oil Gravity - API - (Corr.)		
N/A		
29. Disposition of Gas (Sold, used for fuel, vented, etc.)		Test Witnessed By
NO GAS		
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> Date <i>1/8/07</i>		
E-mail Address <i>darrell.moore@navajo-refining.com</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 Mulligan/Agent

Signature: Chris Mulligan

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.

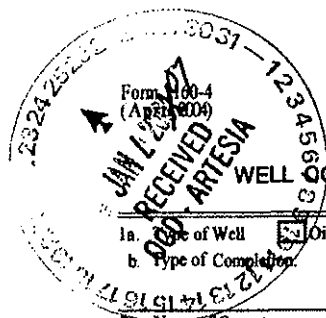
Approval:

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. Resv.,  
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  
**12/22/1996**

15. Date T.D. Reached  
**01/29/1997**

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 JSPPF / 60°
B) CANYON	8540'	8620'	8540' - 8620'	0.5"	160	2 JSPPF / 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 7054' 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)

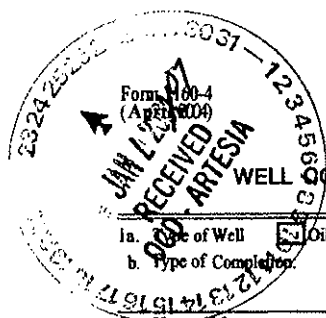
## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ 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. Resv.,  
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"	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	Thg. Press. Flwg. SI	Csg. 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	Csg. 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 MooreTitle Env. Mgr for Water & WasteSignature Darrell MooreDate 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, 2007Amth - 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 7050' 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 &amp; 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, 20075. Lease Serial No.  
NM - 05573716. If Indian, Allottee or Tribe Name  
N/A

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.  
WDW - 39. AFI Well No.  
30 - 015 - 26575

10. Field and Pool, or Exploratory

11. Sec., T., R., M., on Block and  
Survey or Area S1 - T18S - R27E12. County or Parish B. State  
EDDY NM17. Elevations (DF, RKB, RT, GL)\*  
3689'a. Type of Well ☐ Oil Well ☐ Gas Well ☐ Dry ☐ Otherb. 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 &amp; 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 1 WELL
Choke Size	Tbg. Press. Flwg. SI	Cog. Press. SI	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-HAZARDOUS CLASS I WELL
Choke Size	Tbg. Press. Flwg. SI	Cog. Press. SI	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 &amp; 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 run 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.

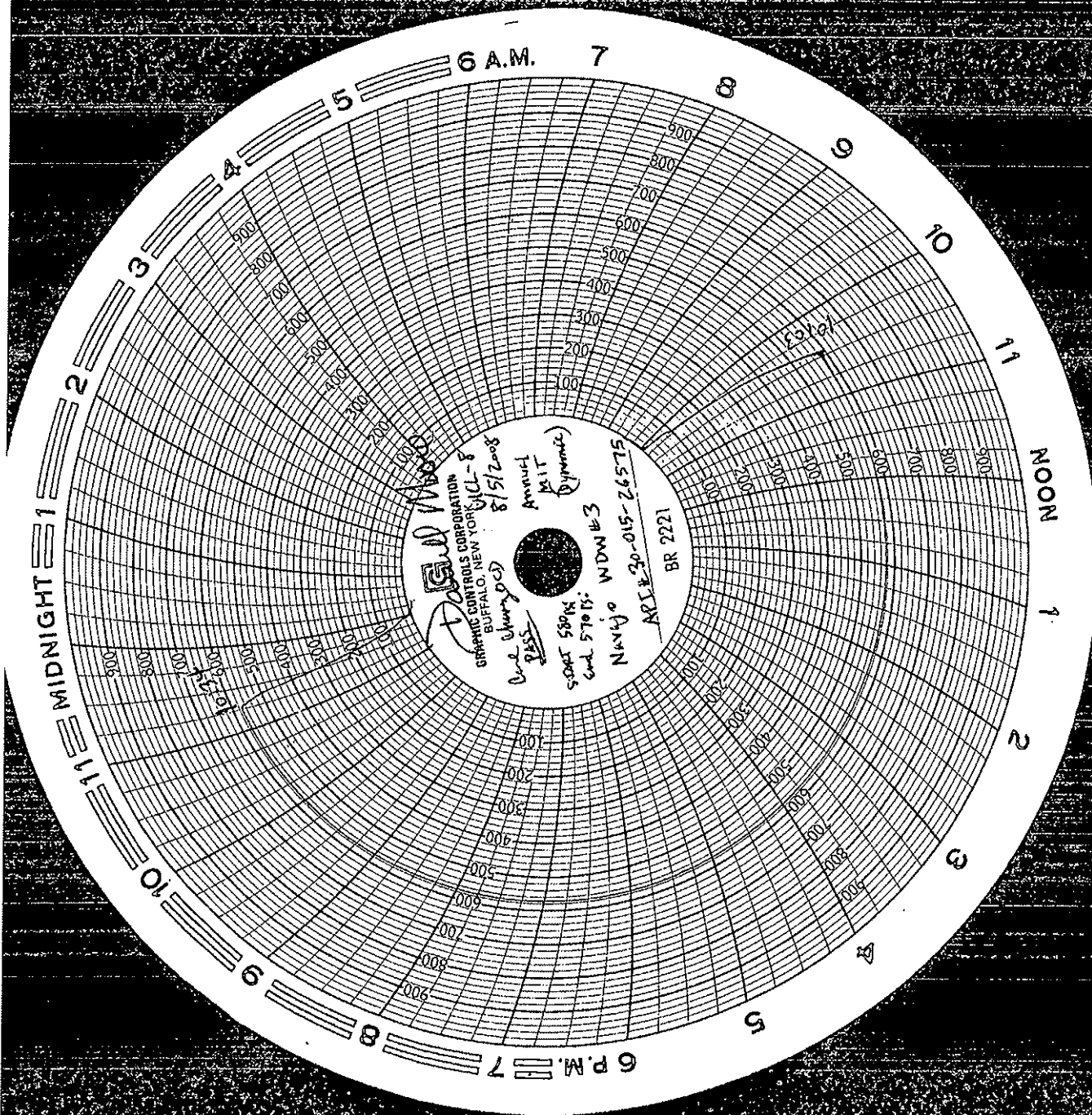
The flow profile log was then repeated and this survey also showed R/A material going out into the permitted interval.

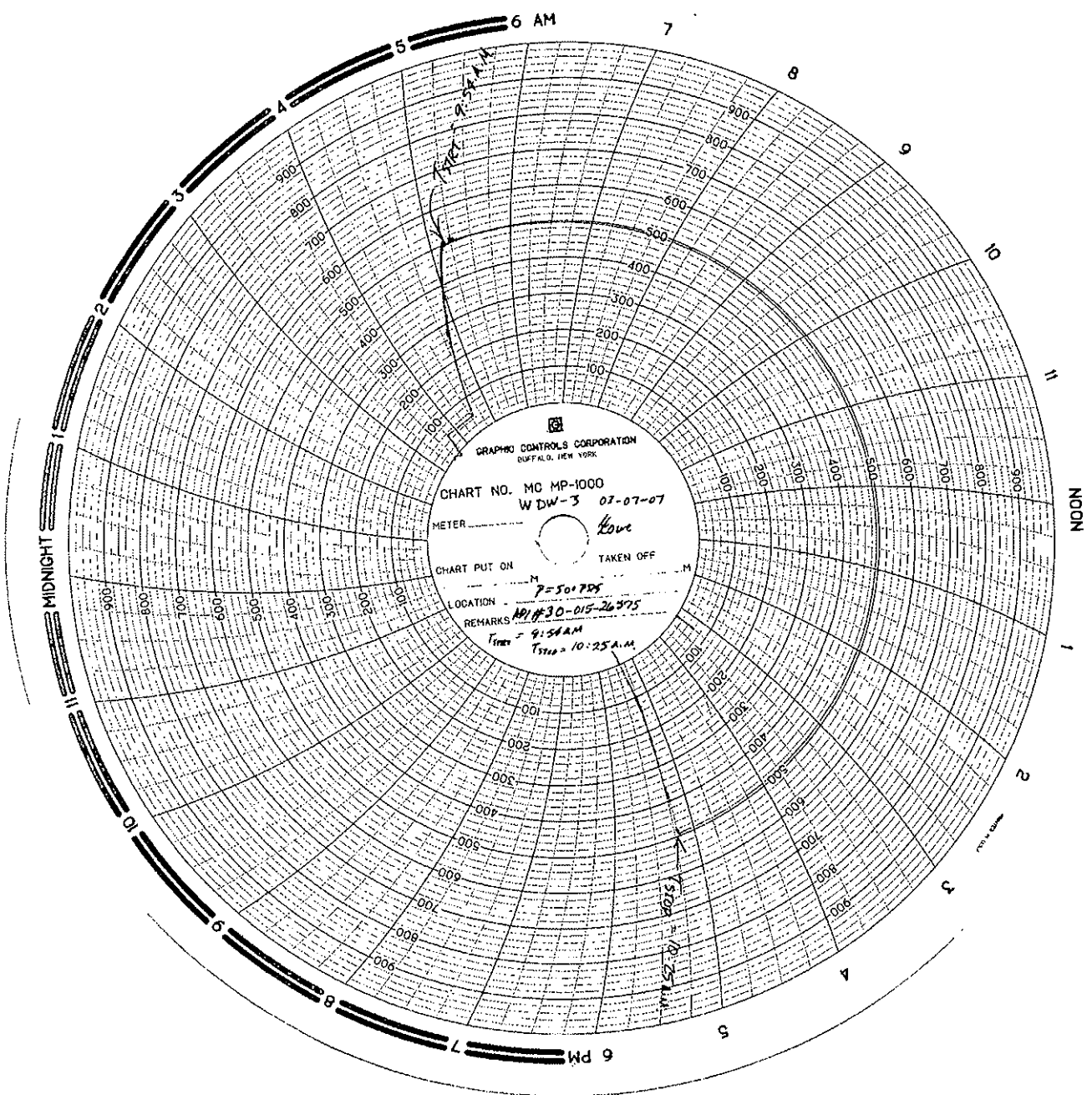
Two Stationary Time Drive surveys were run with the tool at 7640'. No indications of upward migration were recorded.

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.

A handwritten signature in cursive script, reading 'John Croce'.

John Croce





GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK  
CHART NO. MC MP-1000  
W DW-3 07-07-07  
METER \_\_\_\_\_  
CHART PUT ON \_\_\_\_\_  
LOCATION \_\_\_\_\_  
REMARKS \_\_\_\_\_  
T<sub>max</sub> = 9:54 A.M.  
T<sub>min</sub> = 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

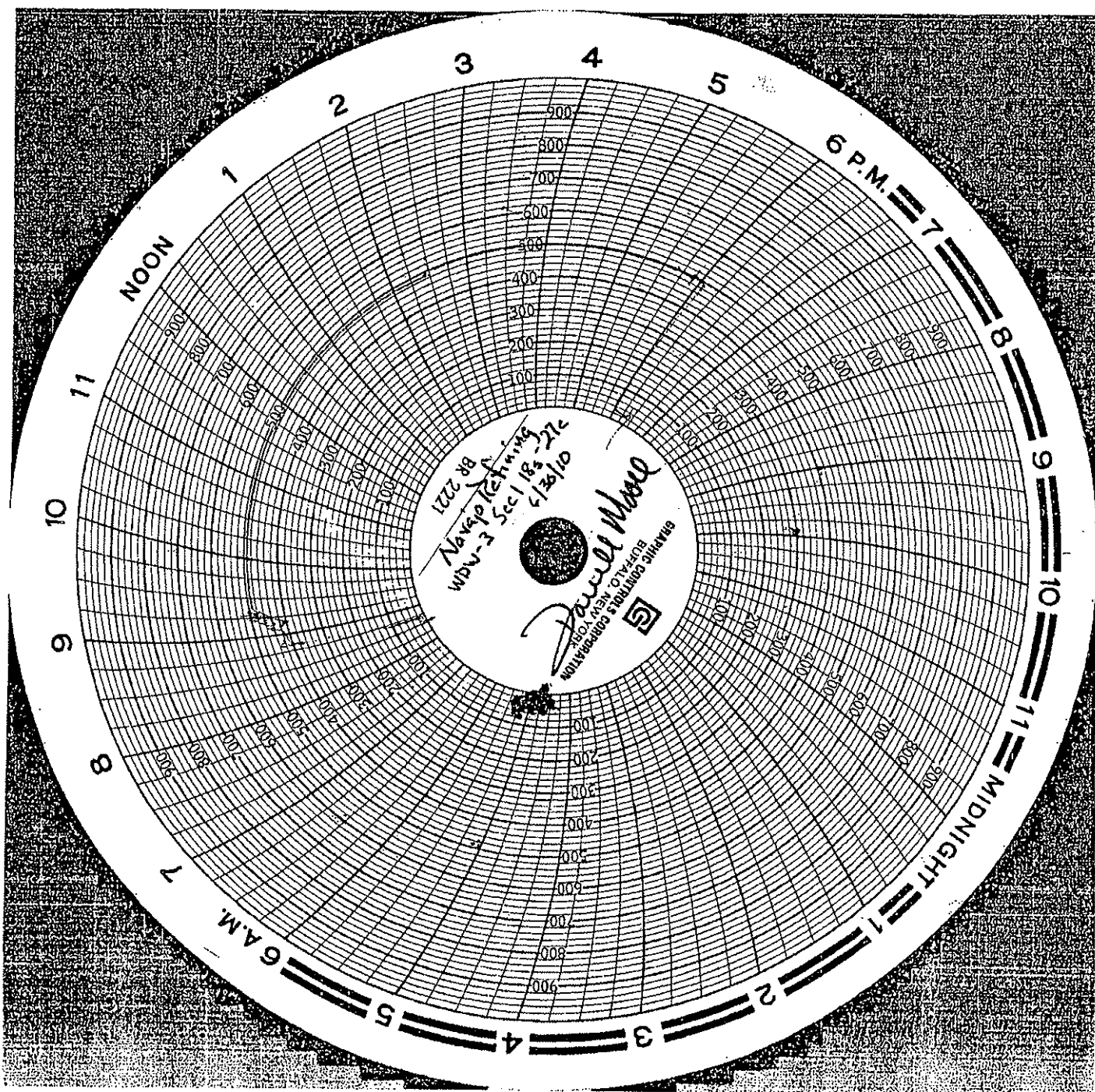
REMARKS:

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  Witness                     

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

E-mail address darrell.moore@hollycorp.com



## Chavez, Carl J, EMNRD

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**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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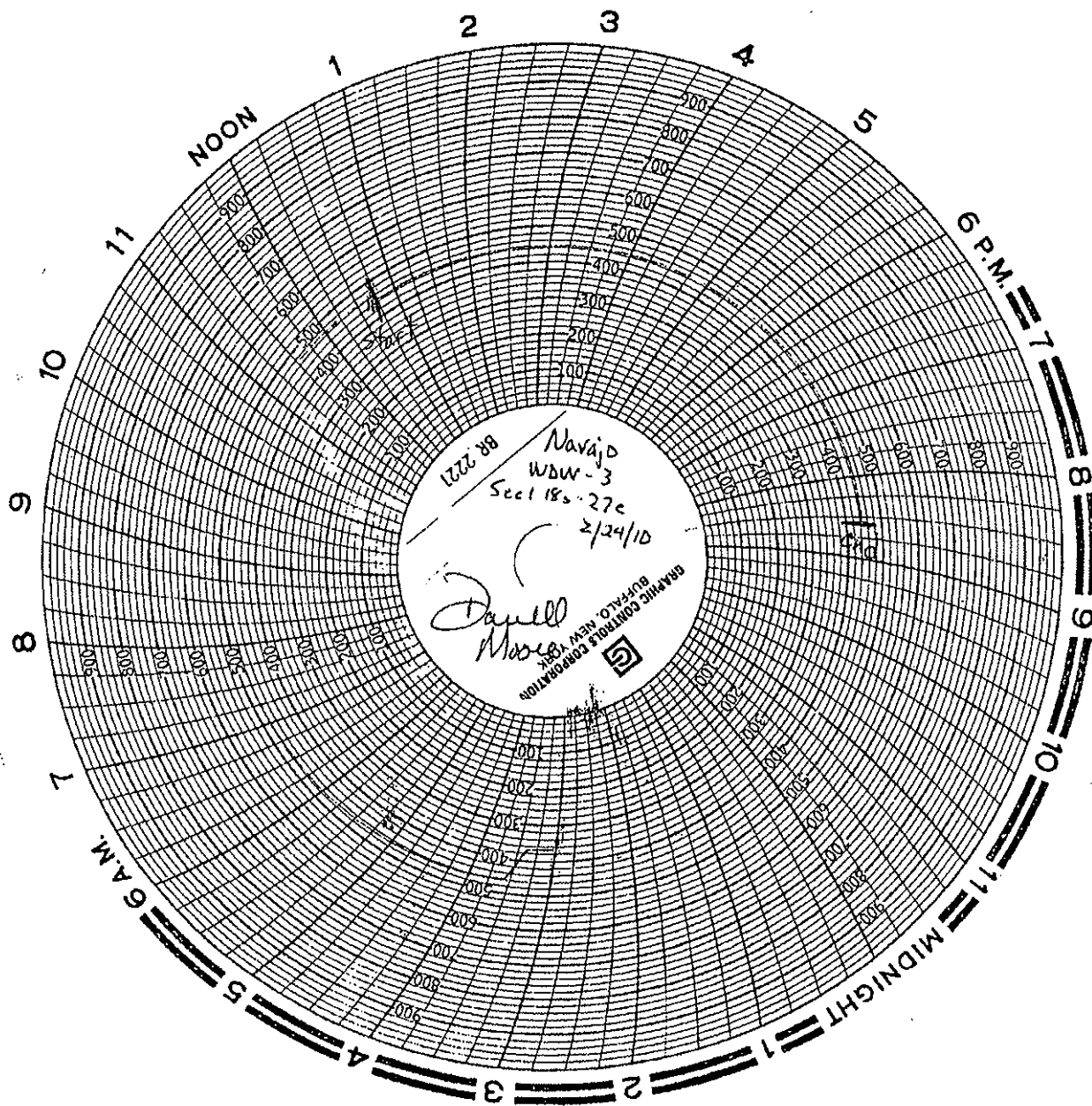


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## **Chavez, Carl J, EMNRD**

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**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](mailto: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](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 *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.

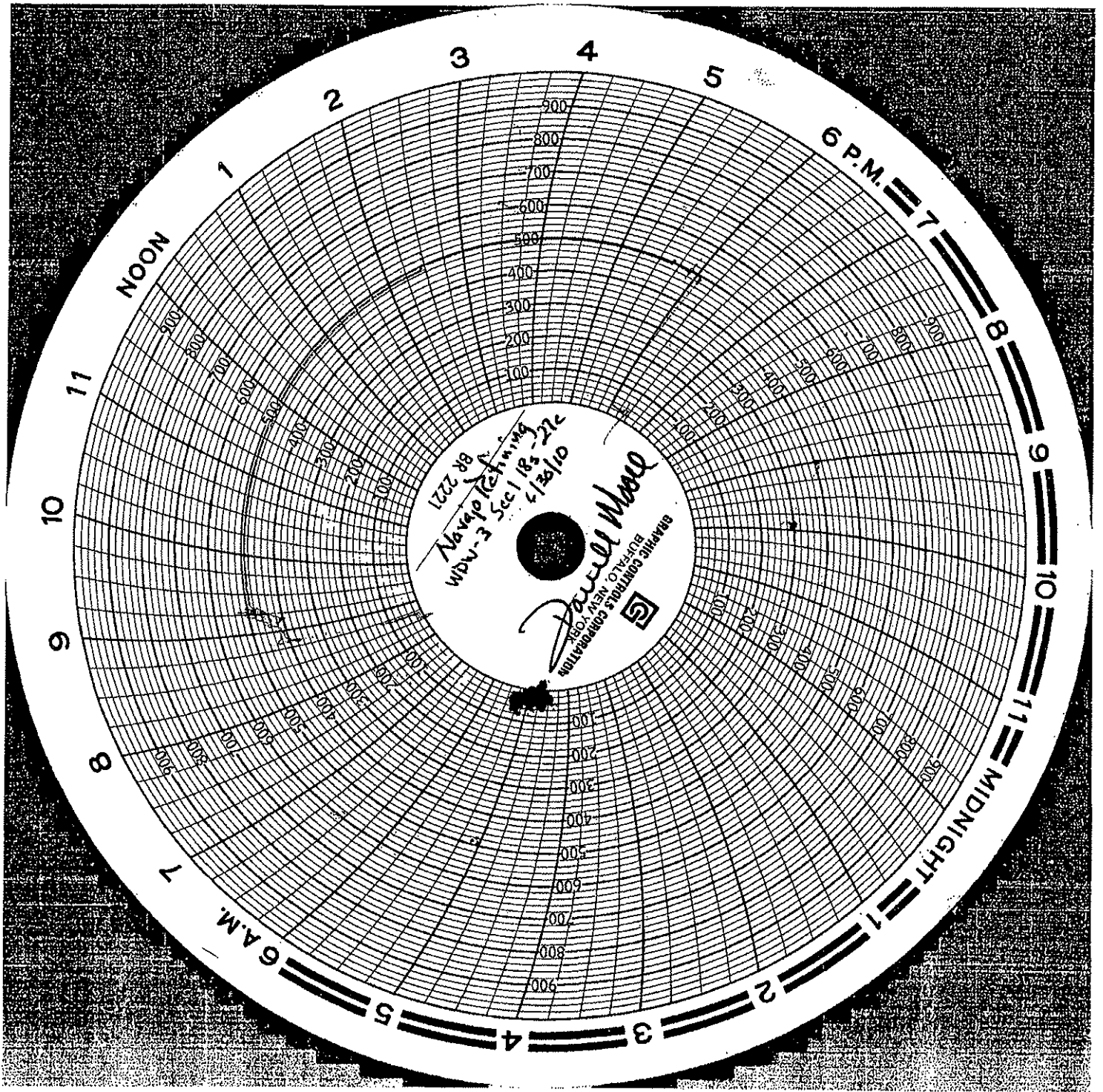
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**From:** Hernandez, Carrie  
**Sent:** Wednesday, June 30, 2010 1:44 PM  
**To:** Moore, Darrell  
**Subject:**

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

Form C-103

Revised August 1, 2011

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		WELL API NO. <b>30-015-26575</b>
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection Well <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator <b>Navajo Refining Company</b>		6. State Oil & Gas Lease No. <b>NM-0557371</b>
3. Address of Operator <b>Post Office Box 159, Artesia, New Mexico 88211</b>		7. Lease Name or Unit Agreement Name <b>Gaines WDW-3</b>
4. Well Location Unit Letter <u>N</u> : <u>790</u> feet from the <u>South</u> line and <u>2250</u> feet from the <u>West</u> line Section <u>01</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		8. Well Number <b>WDW-3</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3609' GL, RKB</b>		9. OGRID Number
		10. Pool name or Wildcat: <b>Navajo Permo-Penn</b>

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"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: PERFORM PRESSURE FALLOFF TEST <input checked="" type="checkbox"/>		OTHER: <input 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 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](mailto: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><b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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. <b>30-015-26575</b></p>
<p>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <b>Injection Well</b></p>		<p>5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/></p>
<p>2. Name of Operator <b>Navajo Refining Company</b></p>		<p>6. State Oil &amp; Gas Lease No. <b>NM-0557371</b></p>
<p>3. Address of Operator <b>Post Office Box 159, Artesia, New Mexico 88211</b></p>		<p>7. Lease Name or Unit Agreement Name <b>Gaines WDW-3</b></p>
<p>4. Well Location Unit Letter <b>N</b> : <b>790</b> feet from the <b>South</b> line and <b>2250</b> feet from the <b>West</b> line Section <b>01</b> Township <b>18S</b> Range <b>27E</b> NMPM County <b>Eddy</b></p>		<p>8. Well Number <b>WDW-3</b></p>
<p>11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3609' GL, ' RKB</b></p>		<p>9. OGRID Number</p>
<p>10. Pool name or Wildcat: <b>Navajo Permo-Penn</b></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.

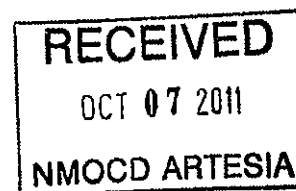
**December 14, 2011** - At 12:15pm, the offset wells WDW-1 and WDW-2 will be shut-in. A constant injection rate will be established for WDW-3 and continue for a 30 hour injection period. Do not exceed 1000 psig wellhead pressure.

**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.

*R. Dade 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

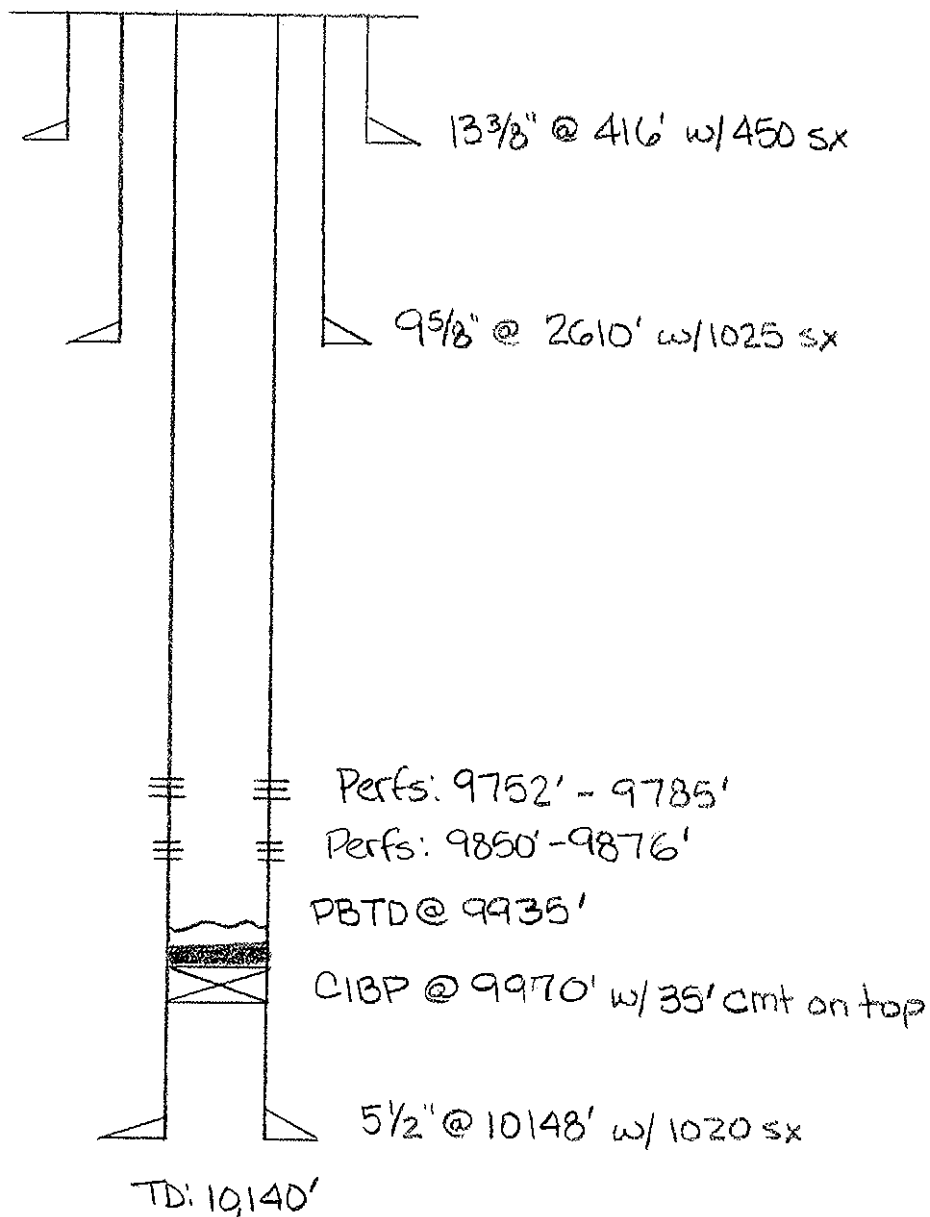
LOCATION Sec. 1 -T18S-R27E

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**

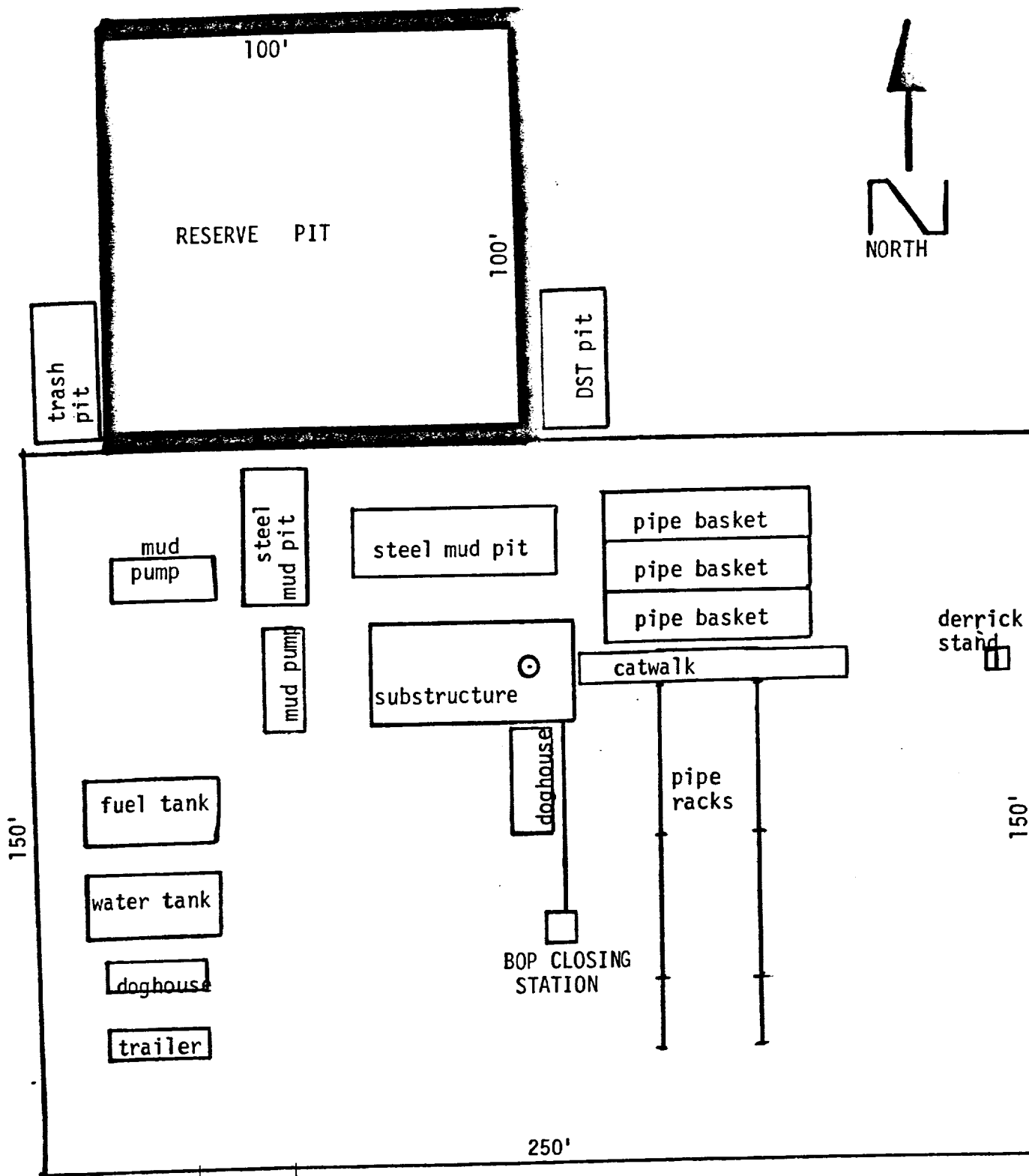


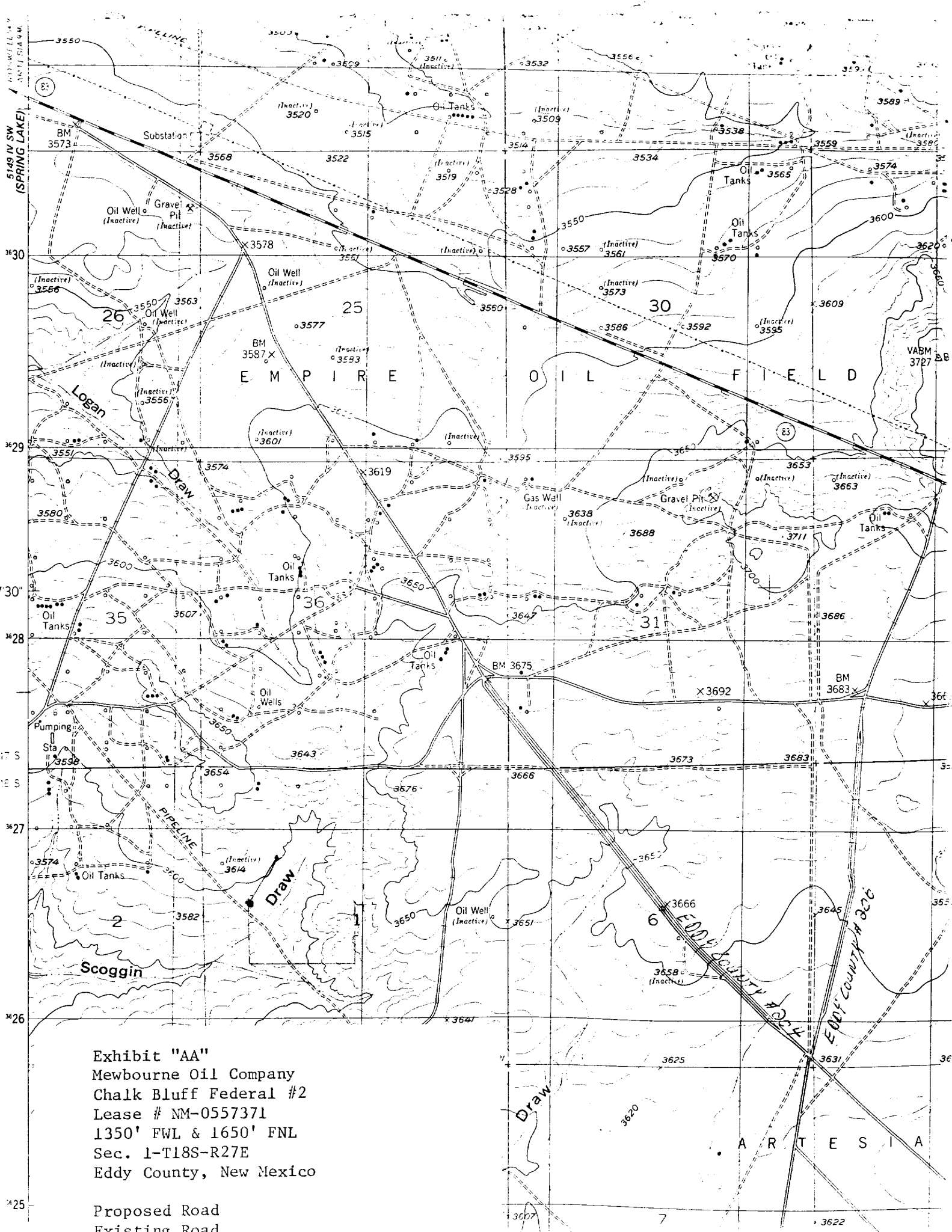
Exhibit "C"

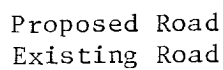
Mewbourne Oil Company  
 Chalk Bluff Federal #2  
 Lease # NM-0557371  
 1350' FWL & 1650' FNL  
 Sec. 1-T18S-R27E  
 Eddy County, New Mexico



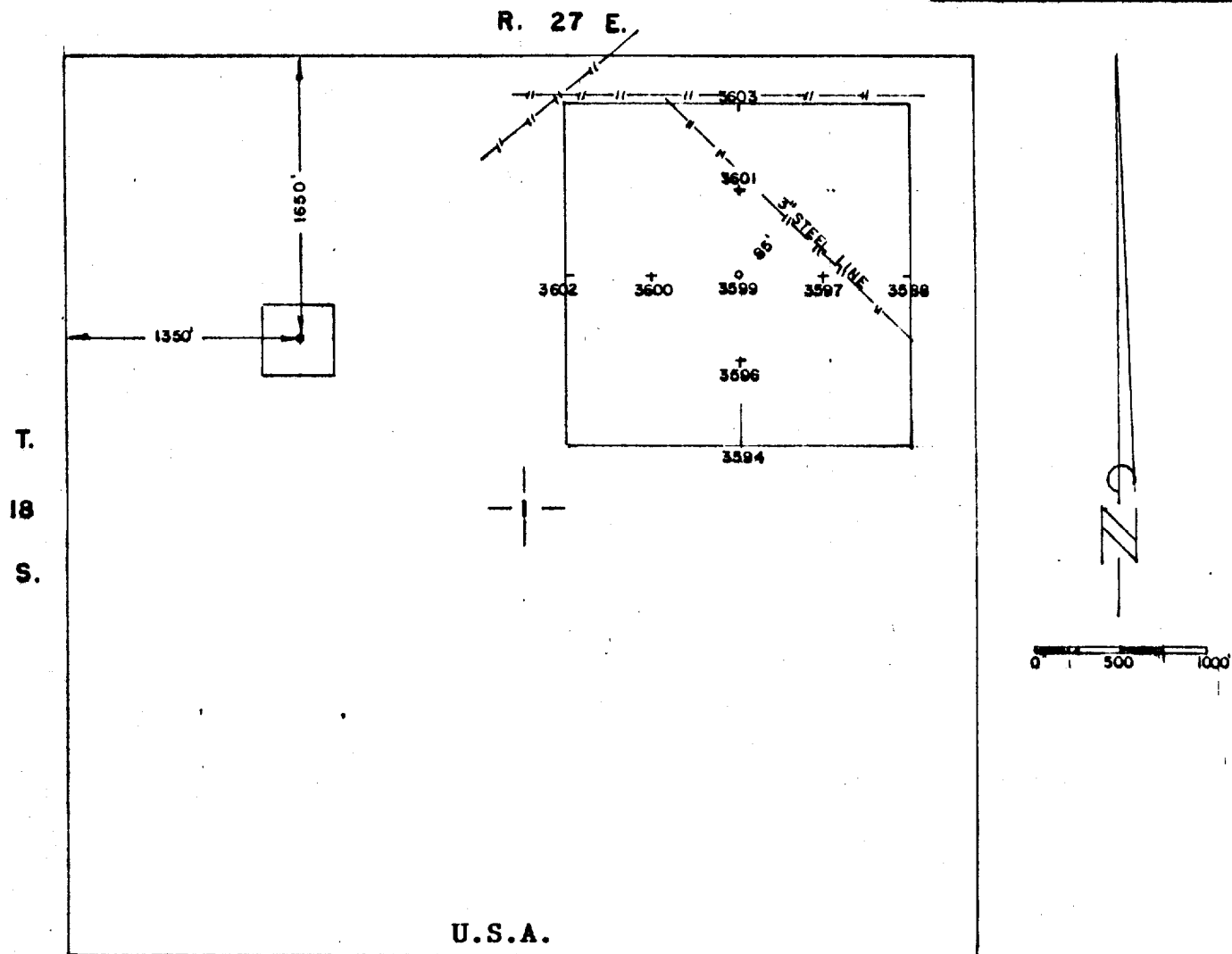
Exhibit "AA"  
 Mewbourne Oil Company  
 Chalk Bluff Federal #2  
 Lease # NM-0557371  
 1350' FWL & 1650' FNL  
 Sec. 1-T18S-R27E  
 Eddy County, New Mexico

Proposed Road  
 Existing Road







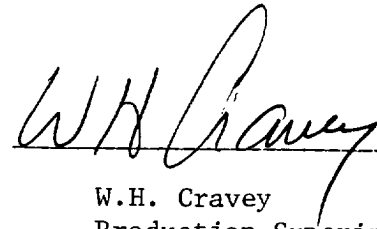
**JOB No.**

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 dark ink, appearing to read 'W.H. Cravey', is 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".

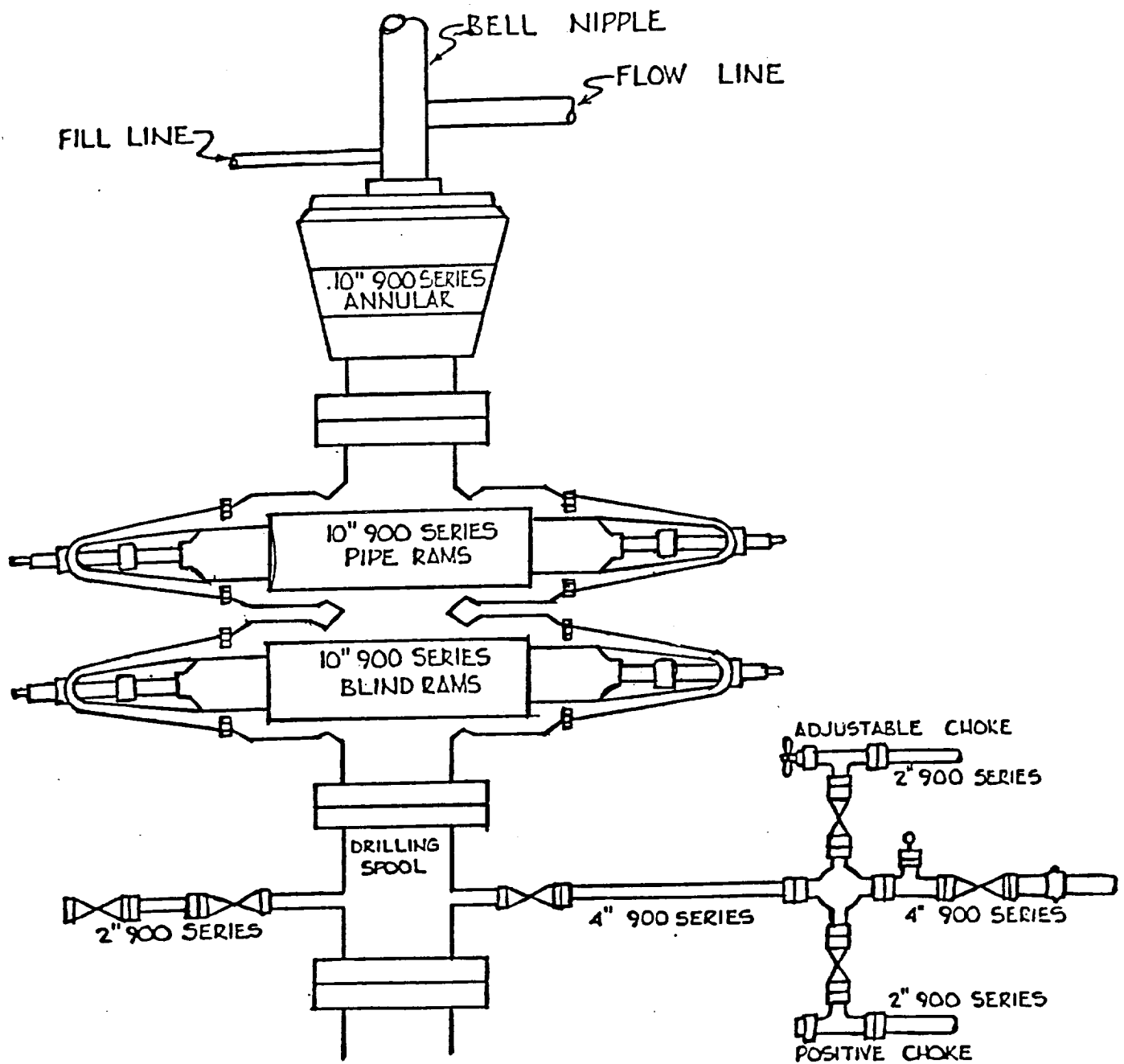


Exhibit "D"

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

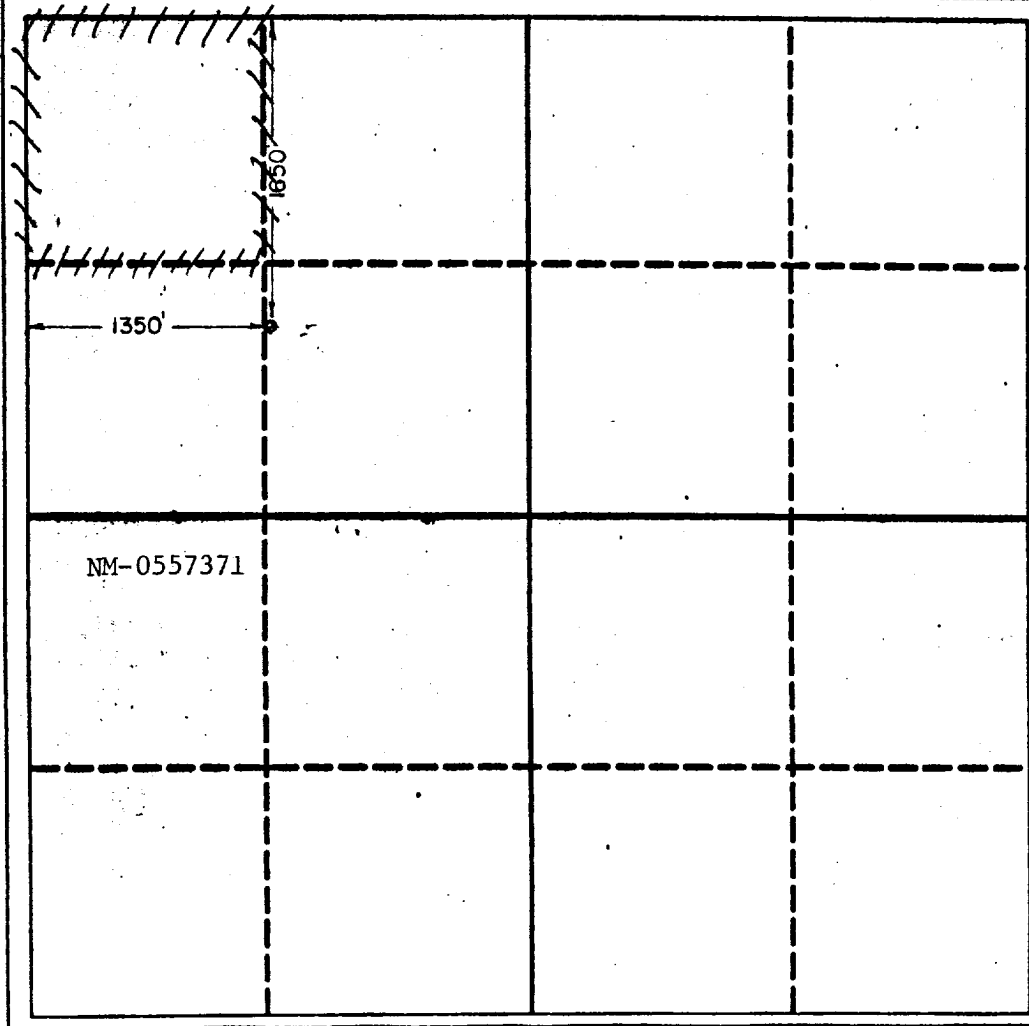
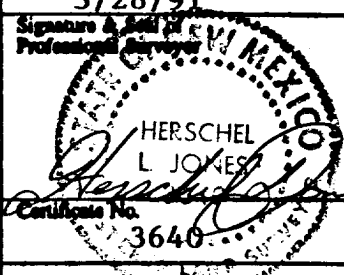
DISTRICT II  
P.O. Box 100, Artesia, NM 88210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

535

Operator <b>MEWBOURNE OIL COMPANY</b>			Lease <b>CHALK BLUFF FEDERAL Com.</b>		Well No. <b>2</b>
Unit Letter <b>F</b>	Section <b>1</b>	Township <b>18 SOUTH</b>	Range <b>27 EAST</b>	County <b>EDDY</b>	
Actual Postage Location of Well: <b>1350</b> feet from the <b>WEST</b> line and <b>1650</b> feet from the <b>NORTH</b> line					
Ground level Elev. <b>3599</b>	Producing Formation <b>Morrow</b>		Pool <b>North Illinois Camp Morrow</b>		Dedicated Acreage: <b>320</b> Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or ink 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 <u>communication, unitization, forced-pooling, etc.?</u></p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</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 communication, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>					
			<b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.		
			Signature <i>W.H. Cravey</i> Printed Name <b>W.H. Cravey</b> Position <b>District Supt.</b> Company <b>Mewbourne Oil Co.</b> Date <b>April 2, 1991</b>		
			<b>SURVEYOR CERTIFICATION</b> 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 <b>3/28/91</b> Signature & Seal of 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

10. 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 document or information in its jurisdiction.



2-1-1950-1951

1950-1951

1-1-1950-1951  
1-1-1950-1951  
1-1-1950-1951

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

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 Raymond Thompson Title Engr. Oprns. Secretary Date 5/20/91

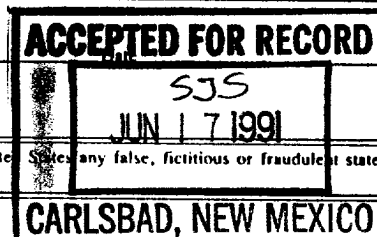
(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

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

JUN 25 1991

O. C. D.  
ARTESIA, OFFICE

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 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

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

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 17606'. Circulated 30 mins. Cemented 1st stage with 260 sacks Hal-Lite Class "H" w/5# Gilsonite, + 1/4# Flocele + 3/10% CFR-3. Tailed in with 300 sacks Premium containing 5/10% Halad-22A + 3/10% CFR-3 + 3# Gilsonite + 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# Gilsonite + 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 Rayson Thompson

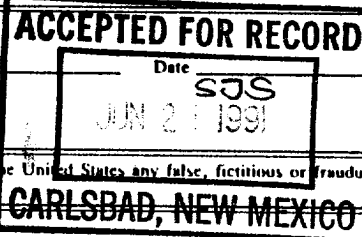
Title Engr. Oprns. Secretary

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

c/57

Form 3160-5  
(June 1990)

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	7. If Unit or CA, Agreement Designation
2. Name of Operator Mewbourne Oil Company	8. Well Name and No. Chalk Bluff Federal Com #2
3. Address and Telephone No. P. O. Box 7698, Tyler, Texas 75711	9. API Well No. 30-015-26741
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1350' FWL & 1650' FNL of Sec. 1, T18S-R27E	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 &amp; 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

(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.)

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 SJS

7 3 1991

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\*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

2. Name of Operator  
Mewbourne Oil Company

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5. Lease Designation and Serial No.  
NM-0557371

6. If Indian, Allottee or Tribe Name

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- ☐ Notice of Intent  
☒ Subsequent Report  
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TYPE OF ACTION

- ☐ Abandonment  
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☐ 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.)

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8/17/91 - Rigged up Western to acidize perfs 9999-10,243' using 10,000 gals gelled 15% HCL with 10,000 gals CO<sub>2</sub> 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/CO<sub>2</sub> 6 BPM - total rate @ 9200#. Spotting 5 Ball Sealers; 6 Bbls Foam.

60 Bbls 2% KCL water/CO<sub>2</sub> 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  
Date SJS

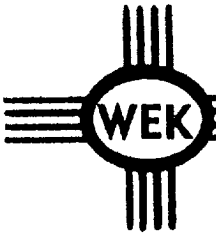
SEP 11 1991

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RECEIVED

SEP - 5 1991

O. C. P.  
KEN REYNOLDS—PRESIDENT  
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