

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

**WDWs-1, 2 & 3**

**PERMITS,**

**RENEWALS,**

**& MODS (14 of 18)**

**2017**

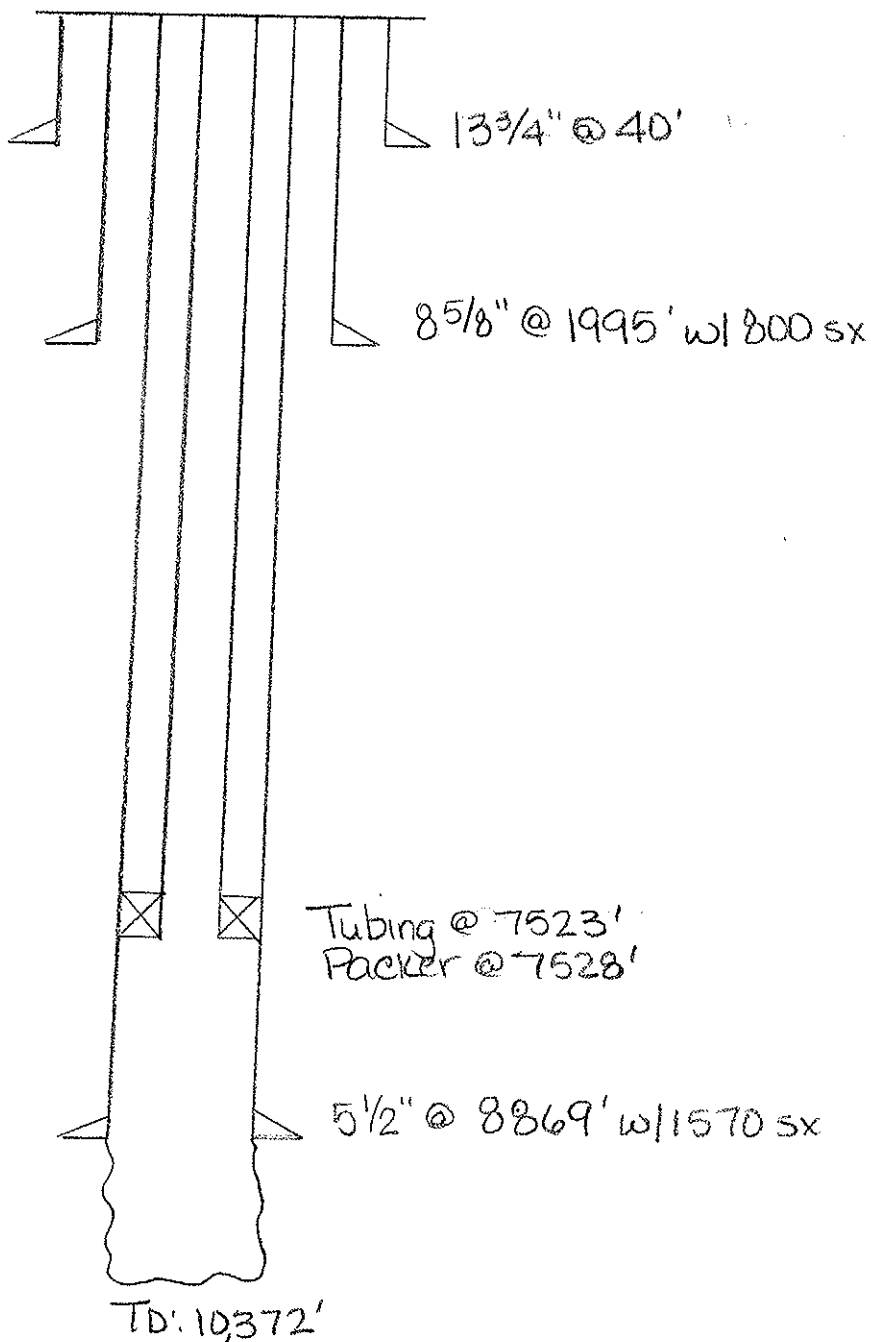
# SUBSURFACE

NAVAJO REFINING COMPANY, L.L.C.  
Map ID No. 50  
Artificial Penetration Review

OPERATOR Navajo Refining Co.  
LEASE WDW  
WELL NUMBER #2  
DRILLED 7/18/73  
PLUGGED NA

STATUS Active  
LOCATION Sec. 12 -T18S-R27E  
MUD FILLED BOREHOLE \_\_\_\_\_  
TOP INJECTION ZONE -3663'  
API NO. 30-015-20894

## REMARKS:



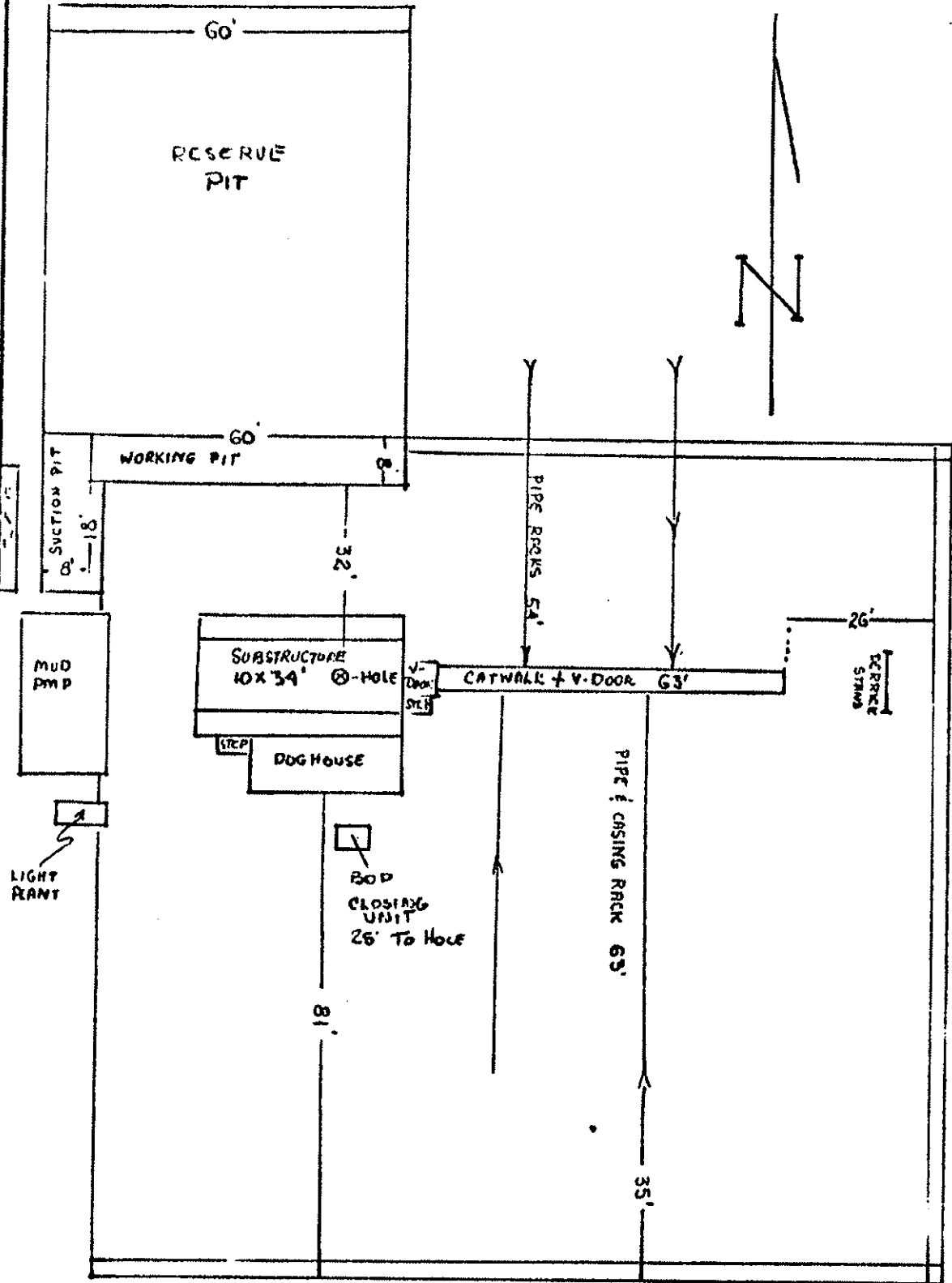
**MAP ID NO. 50**

**NAVAJOR FEFINING COMPANY  
WASTE DISPOSAL WELL NO. 2**

**API NO. 30-015-20894**

0127

WATER TANK  
12' X 21'



Amoco Production Company

SCALE:

GENERAL RIG LAYOUT

DRG.  
NO.

- 1. Location of this - This Plat
- 2. Planned Access Roads - This plat
- 3. Location of Wells - This Plat
- 4. Internal Roads to well Location - This Plat
- 5. Location of Tank Battery & Flow Lines - To be at well loc.
- 6. Location & Types of Water - To be trucked
- 7. Methods for Handling Waste Disposal - In suitable containers and pits on location.
- 8. Camps - None
- 9. Air Strips - None
- 10. Pig layout - See Attached
- 11. Make location cleanup in accordance with good operating practice and if P&A clean & level location around well.
- 12. None
- 13. There are no houses, buildings, and windmills within 1/4 mile of the location

NM 9 MI

POWER STATION

ST HWAY 8

1.7

2.2

TAIGG-1

CM-1

EB-1

BE-2

BE-1

F-10

F-8

F-6

F-11

EA-1

EB

F-2

F-4

F-7

F-9

BB-1

F-1

F-5

BB-10

BB

H-9

H-8

H-7

H-2

AT-3

AT-1

AT-10

AT-1

AT-1

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MIRCO 2

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HANN FBO

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WINDPOM

G-11

G-3

G-2

G-1

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RECEIVED  
JUN 22 1973  
SURVEY  
MEXICO

Amoco Production Company

DIAMOND FEDERAL GAS COM No. 1  
SCOGGIN DRAW- MORROW  
UNIT E, SEC 12, T-18-S, R-27-E  
EDDY CO. N.M.

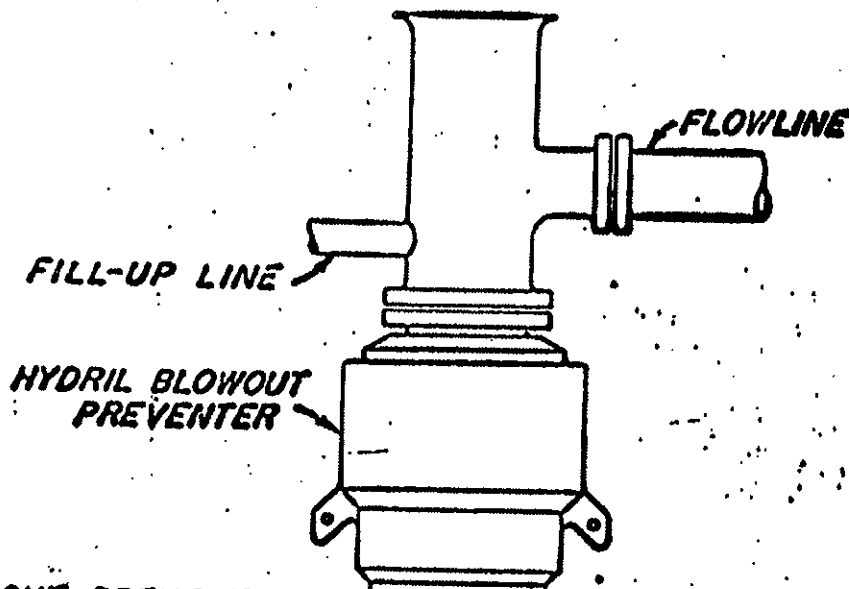
\* WATERED & COMPACTED CALICHE

\* PAD 290x190

\* 3/10 MILE ROAD 10' WIDE

BLOWOUT PREVENTER HOOK-UP FOR DRILLING BELOW INTERMEDIATE CASING

1. BLOWOUT PREVENTERS AND MASTER VALVE TO BE FLUID OPERATED AND ALL FITTINGS MUST BE IN GOOD CONDITION (MINIMUM: WP - 3000 PSI, TEST - 6000 PSI).
2. EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS THE INSIDE DIAMETER OF CASING THAT IS BEING DRILLED THROUGH.
3. KELLY COCK REQUIRED (MINIMUM: 3000 PSI WP, 6000 PSI TEST)
4. OMSCO OR COMPARABLE SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUB. (MINIMUM: 3000 PSI WP, 6000 PSI TEST)



BLOWOUT PREVENTER

AMOCO PRODUCTION COMPANY

DIAMOND *Federal Gas Com*

1

12 18 SOUTH

27 EAST

EDDY

1980

NORTH

660

WEST

36° 6, 9'

*MORROW*

*SCOGGIN DRAW MORROW (Edd)*

*320*

1. The area the a large dedicated to the subject well by colored pencil or hatchure marks on the plat below.

2. If the area is dedicated to the well, outline each and identify the ownership thereof by name and acreage.

3. If the area is divided into different ownerships dedicated to the well, have the interests of all owners listed for the consolidation, unitization, lease pooling, etc.

4. If the area is divided into different ownerships dedicated to the well, have the interests of all owners listed for the consolidation, unitization, lease pooling, etc.

5. If the area is divided into different ownerships dedicated to the well, have the interests of all owners listed for the consolidation, unitization, lease pooling, etc.

6. The area will be utilized for the well until all interests have been consolidated, the consolidation, unitization, lease pooling, etc. has been approved by the state.

NM-6852

Amoco 100%

160 Acres

660' 1

NM-6853

Amoco 100%

160 Acres



*J. E. York*  
AREA ENGINEER

Amoco Production Company

JUN 21 1973

I hereby certify that the information shown on this plat is true and correct under my supervision and knowledge and belief.

JUNE 20, 1973

*John W. West*

drilling into the Wolfcamp formation  
and used until production casing is run and cemented. Monitoring  
equipment shall consist of the following:

- (1) A recording pit level indicator to determine pit volume gains and losses.
  - (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
  - (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
6. When coming out of the hole with drill pipe, the annulus shall be filled with mud before the mud level drops below 150 feet. The volume of mud required to fill the hole shall be watched, and any time there is an indication of swabbing, or influx of formation fluids, proper blowout prevention precautions must be taken. The mud shall not be circulated and conditioned except on or near bottom, unless well conditions prevent running the pipe to bottom.
7. A copy of these requirements shall be posted on the rig floor or in the dog house during the drilling of the well.

  
James A. Knauf  
District Engineer

Lease No. NM-6852  
Well Amoco Production Co. 1-Diamond Federal Gas Com.  
Drillsite 1980/N 660/W 12-18S-27E  
Depth 10,000' Morrow  
Approved July 6, 1973



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-015-20894  
6. LEASE DESIGNATION AND SERIAL NO.  
NM-6852

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 ☐  
RECEIVED SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
Amoco Production Company JUL 9 1973

3. ADDRESS OF OPERATOR  
BOX 68, HOBBS, N. M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface ARTEZIA, OFFICE  
1980' FNL x 660' FNL Sec. 12 (Unit E, SE 1/4 NW 1/4)

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

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
3607' GL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	32.24"	1000'	Disc.
7 7/8"	4 1/2"	9.5-11.6"	10000'	SUFFICIENT TO FILL 500' ABOVE UPPERMOST PAY.

After drilling well logs will be run and evaluations made,  
perforating and/or stimulating as necessary in attempting  
commercial production.

BOP program attached.

Mud Program:

0-1000' Native mud & water

1000-5000'

9000-10000' Min. quality low solids gel for satisfactory  
operations & samples.

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 J. E. York TITLE AREA ENGINEER DATE JUN 21 1973

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE JUL 6 1973

APPROVED BY [Signature] TITLE DISTRICT ENGINEER DATE JUL 6 1973

CONDITIONS OF APPROVAL, IF ANY:

USGS-Per Subject to attached  
"Notice" dated 6-22-73

See Instructions On Reverse Side

1- DIV  
1- SUSP  
1- RRY  
1- ARCO

Copy 6.5 F

RECEIVED

JUL 10 1973

P. O. Drawer U  
Artesia, New Mexico 88210

O. C. C.  
ARTESIA, OFFICE

July 9, 1973

Mr. Jim York  
Amoco Production Company  
Post Office Box 68  
Hobbs, New Mexico 88240

Dear Mr. York:

This is to confirm my telephone conversation with you today whereby we requested that the 8-5/8-inch casing string be set in the top of the San Andres formation (approximately 2,000 feet below the surface) in your No. 1 Diamond Federal Gas Com. well on lease M-6852 in the SW 1/4 sec. 12, T. 18 S., R. 27 E., N.M.P.M., Eddy County, New Mexico.

Sincerely yours,

~~CONFIDENTIAL~~ JAMES A. KNAUF

James A. Knauf  
District Engineer

cc:  
Roswell  
N.M.O.C.C. (2) ✓

RECEIVED

JUL 10 1973

O. C. C.  
ARTESIA, OFFICE

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N. M. O. C. C. COPY  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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. NAME OF OPERATOR **DRILLING RECEIVED**

2. ADDRESS OF OPERATOR **Amoco Production Company**

3. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

JUL 25 1973

B. E. C.  
ARTESIA, OFFICE

**1980' FNL x 660' FWL SEC. 12 (UNIT E, SE 1/4 NW 1/4)**

14. PERMIT NO.

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

**3607' GL 3623' R.D.B**

7. UNIT AGREEMENT NAME

**DIAMOND FEL. GAS COM**

8. FARM OR LEASE NAME

9. WELL NO.

**SCOGGIN DRAW MORROW**

11. SEC., T., R., M., OR BEK. AND SURVEY OR AREA

**12-18-27-NM PM**

12. COUNTY OR PARISH 13. STATE

**EDDY 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 ☐

PULL OR ALTER CASING ☐

WATER SHUT-OFF ☒

REPAIRING WELL ☐

FRACTURE TREAT ☐

MULTIPLE COMPLETION ☐

FRACTURE TREATMENT ☐

ALTERING CASING ☐

SHOOT OR ACIDIZE ☐

ABANDON\* ☐

SHOOTING OR ACIDIZING ☐

ABANDONMENT\* ☐

REPAIR WELL ☐

CHANGE PLANS ☐

(Other) **Spudding** ☒

(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.)\*

**Delta Drilling Co. Spudded 11" hole 3: PM 7-18-73.**

**On 7-22-73, 8 7/8" OD 32" BR K-55 Casing was set**

**@ 1955 w/ 7005x Incon 2% Gel + 100 psi meat. Circ. 200 Sx.**

**After WO2 18 hours, tested casing w/ 500 psi for 30 min. Test O.K.**

**Reduced hole to 7 7/8" @ 1955 and resumed drilling.**

**RECEIVED**  
**JUL 24 1973**  
**U. S. GEOLOGICAL SURVEY**  
**ARTESIA, NEW MEXICO**

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

SIGNED

TITLE **ADMINISTRATIVE ASSISTANT**

DATE **JUL 23 1973**

(This space for Federal or State office use)

APPROVED

TITLE

DATE

CONDITIONS OF APPROVAL ANY:

**JUL 24 1973**

**H. L. BEEKMAN**

**ACTING DISTRICT ENGINEER** \*See Instructions on Reverse Side

1- DIV  
1- SUS P  
1- RRY  
1- ARCO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved,  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. <b>NM-6852</b>	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. REVR. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <b>Amoco Production Company</b>		7. UNIT AGREEMENT NAME <b>DIAMOND FED. GAS COM</b>	
3. ADDRESS OF OPERATOR <b>BOX 68, HOBBS, N. M. 88240</b>		8. FARM OR LEASE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface: <b>1980' ENL X 660' FWL Sec 12. (Unit F, SE 1/4 NW 1/4)</b> At top prod. interval reported below At total depth		9. WELL NO. <b>1</b>	
14. PERMIT NO.		DATE ISSUED <b>SEP 24 1973</b>	
15. DATE SPUDDED <b>7-18-73</b>	16. DATE T.D. REACHED <b>8-27-73</b>	17. DATE COMPL. (Ready to prod.) <b>P&amp;A</b>	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* <b>3623' RDB</b>
20. TOTAL DEPTH, MD & TVD <b>10,372</b>	21. PLUG BACK T.D., MD & TVD <b>P&amp;A</b>	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY <b>0-TD</b>
24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* <b>NONE</b>			25. WAS DIRECTIONAL SURVEY MADE <b>NO</b>
26. TYPE ELECTRIC AND OTHER LOGS RUN <b>GR-N - DUAL IND LL</b>			27. WAS WELL CORED <b>NO</b>
28. CASING RECORD (Report all strings set in well)			
CASING SIZE <b>8 7/8</b>	WEIGHT, LB./FT. <b>32#</b>	DEPTH SET (MD) <b>1955</b>	HOLE SIZE <b>11"</b>
CEMENTING RECORD <b>800 SX</b>		AMOUNT PULLED <b>NONE</b>	
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)		PACKER SET (MD)
31. PERFORATION RECORD (Interval, size and number)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		AMOUNT AND KIND OF MATERIAL USED	
DEPTH INTERVAL (MD)			
33.* PRODUCTION			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	
WELL STATUS (Producing or shut-in)			
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD
OIL—BSL.		GAS—MCF.	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.
GAS—MCF.		WATER—BSL.	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
35. LIST OF ATTACHMENTS			
I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <b>Rex L. Pratum</b>		TITLE <b>ADMINISTRATIVE ASSISTANT</b>	
DATE <b>9-10-73</b>			

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

03- USGS-ART  
1- W7  
1- DIV  
1- RRY

# INSTR IONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**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 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 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, CURSION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION		TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS	
					NAME	MEAS. DEPTH
					ABO	5506
					WOLF CAMP	6728
					CISCO	7483
					STRAWN	8820
					ATOKA	9460
					MORROW	9725
					CHESTER	10158
					Miss Lm	10338

**N. M. O. C. C. COPY**  
**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN TRIP  
 (Other instructions  
 on reverse side)

Form approved  
 by the Bureau of Reclamation  
 5. LEASE IDENTIFICATION NUMBER  
**NM-0002**  
 6. IF INDIAN, ALLOY, OR TRUST STATE

**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. NAME OF OPERATOR **AMOCO PRODUCTION COMPANY**  
 2. ADDRESS OF OPERATOR **BOX 68, HOBBS, N. M. 88240**  
 3. NAME OF WELL ☒ **DRILLING- DRY HOLE**  
 4. DATE OF NOTICE **SEP 12 1973**

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
 See also space 17 below.)  
**1980' FNLX 660' FWL Sec. 12 (Unit E, SE 1/4 NW 1/4)**

14. PERMIT NO. **3623 R.D.B.**  
 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

7. UNIT AND NAME OF FIELD  
**DIAMOND FIELD, N.M.**

8. FARM OR TRACT NO.  
 9. WELL NO.  
 10. FIELD AND PROD. OR FIELD CAT  
**SCOGGIN DRY MUDROW**  
 11. SEC., T., R., M., OR L. AND SURVEY OR AREA

12. COUNTY OR PARISH 13. STATE  
**12-18-27 NMPM**  
**EDDY N.M.**

**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 COMPLETION ☒  
 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.)

*Drilled to a TD of 10,372' without encountering oil or gas. Logs and evaluations confirmed Dry Hole.  
 \* Propose to P+ A as follows: Cement Plugs - Class 14  
 INTERVAL LENGTH FORMATION EX CEMENT*

9775-9675	100'	MORROW	45
7535-7435	100'	BISCO	50
5556-5456	100'	ABO	40
3720-3620	100'	YESO	50
2045-1945	100'	8 3/4" CSA 1995	40
Surface	10-20'	Fract P+ A Marker	105x

*all intervals to be filled w/ Arly mud.  
 Location to be cleaned & levelled.*

**RECEIVED**  
**SEP-4 1973**  
**U. S. GEOLOGICAL SURVEY**  
**ARTESIA, NEW MEXICO**

\* Pursuant to Mr. Leon Buckman's verbal approval 8-28-73.

I hereby certify that the foregoing is true and correct

SIGNED \_\_\_\_\_ TITLE **AREA ENGINEER** DATE **AUG 31 1973**

(This space for Federal or State office use)

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

4 USGS-Aet  
 1- DWR  
 1- JSP  
 1- RRV  
 1- ARCO

**APPROVED**  
**SEP 11 1973**  
**H. L. BEEKMAN**  
**ACTING DISTRICT ENGINEER**

\* See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYN. M. O. C. C. Co.  
SUBMIT IN TRIPL  
(Other instructions  
verse side)Form approved  
Bureau No. 42 R1424  
5. LEASE DESIGNATION AND SERIAL NO.

NM-6852

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 ☐ GAS WELL ☐ OTHER **DRY HOLE** **RECEIVED**2. NAME OF OPERATOR **Amoco Production Company** **SEP - 6 1974**

3. ADDRESS OF OPERATOR

BOX 68, HOBBS, N. M. 88240

O. C. C.

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations.  
See also space 17 below.)  
At surface

1980' FNLY 660' FWL Sec. 12 (UNIT E, SE 1/4 NW 1/4)

7. UNIT AGREEMENT NAME

DIAMOND FED. GAS CO.

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND TOWN, OR WILDCAT

SCOGGIN DRAW-MORROW

11. SEC., T., R., N., OR S.W., AND  
SURVEY OR AREA

12-18-27 NMPM

14. PERMIT NO.

15. ELEVATIONS (Show whether DP, ST, ON, etc.)

3623' R.D. B.

12. COUNTY OR PARISH

EDDY

NM

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

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(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 perti-  
nent to this work.)

Physical abandonment of well concluded 8-31-73.  
Plugged and abandoned as follows:

SX CEMENT	INTERVAL	LENGTH	FORMATION
45	9775-9765	100'	MORROW
50	7535-7435	100'	CISCO
40	5556-5456	100'	ABO
50	3720-3620	100'	YESO
40	2045-1945	876' CSA 1995' - circ.	
10	Surface & erected P.A. marker.		

all intervals filled w mud.  
Location to be cleaned & leveled.

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

SIGNED

*Ray L. Yorkum*

TITLE ADMINISTRATIVE ASSISTANT

DATE SEP 5 1973

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

1- USGS  
1- Div  
1- SusP  
1- RRV  
1- ARCO

SEP 6 1974  
A. L. BEEKMAN  
ACTING DISTRICT ENGINEER

\*See Instructions on Reverse Side

RECEIVED  
SEP - 6 1973  
U.S. GEOLOGICAL SURVEY  
ALBUQUERQUE, N.M.



EXHIBIT "D"  
SKETCH OF WELL PAD

FRED POOL DRILLING, INC.  
Well #2 Chukka Federal  
SW $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 12: T-18-S, R-27-E

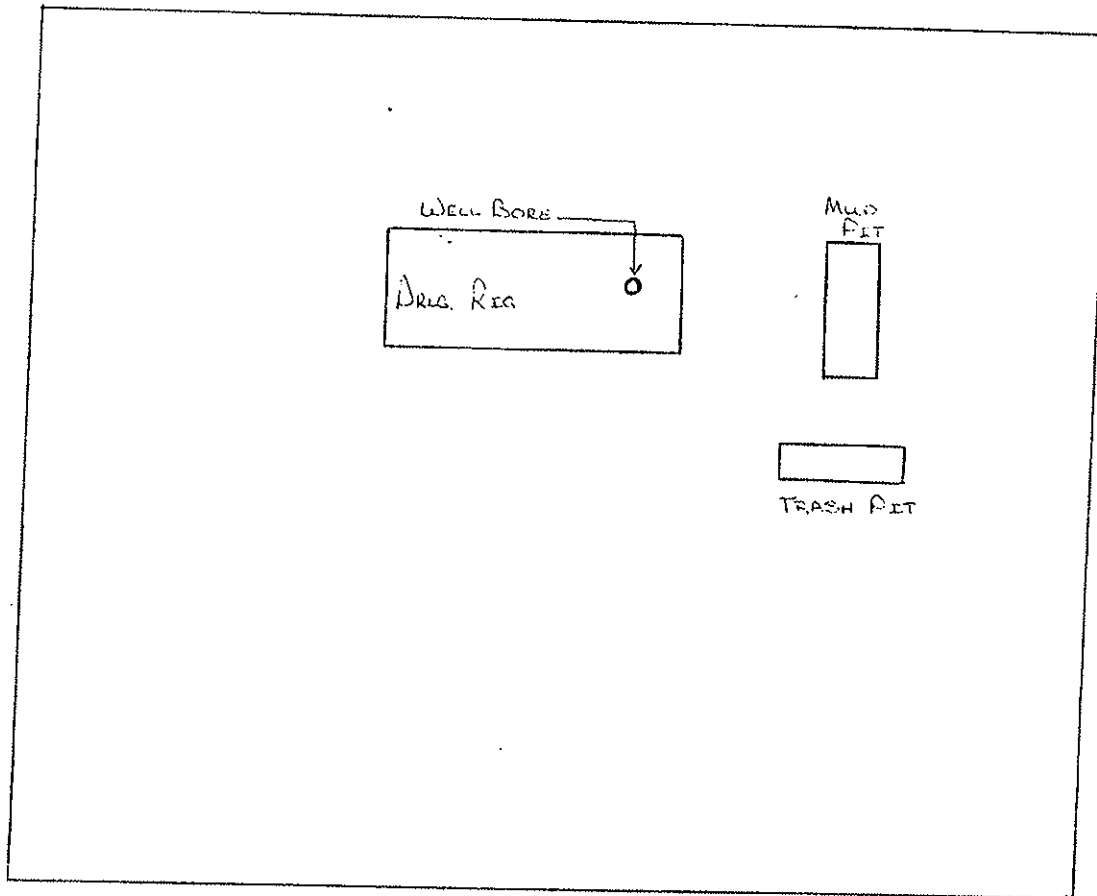
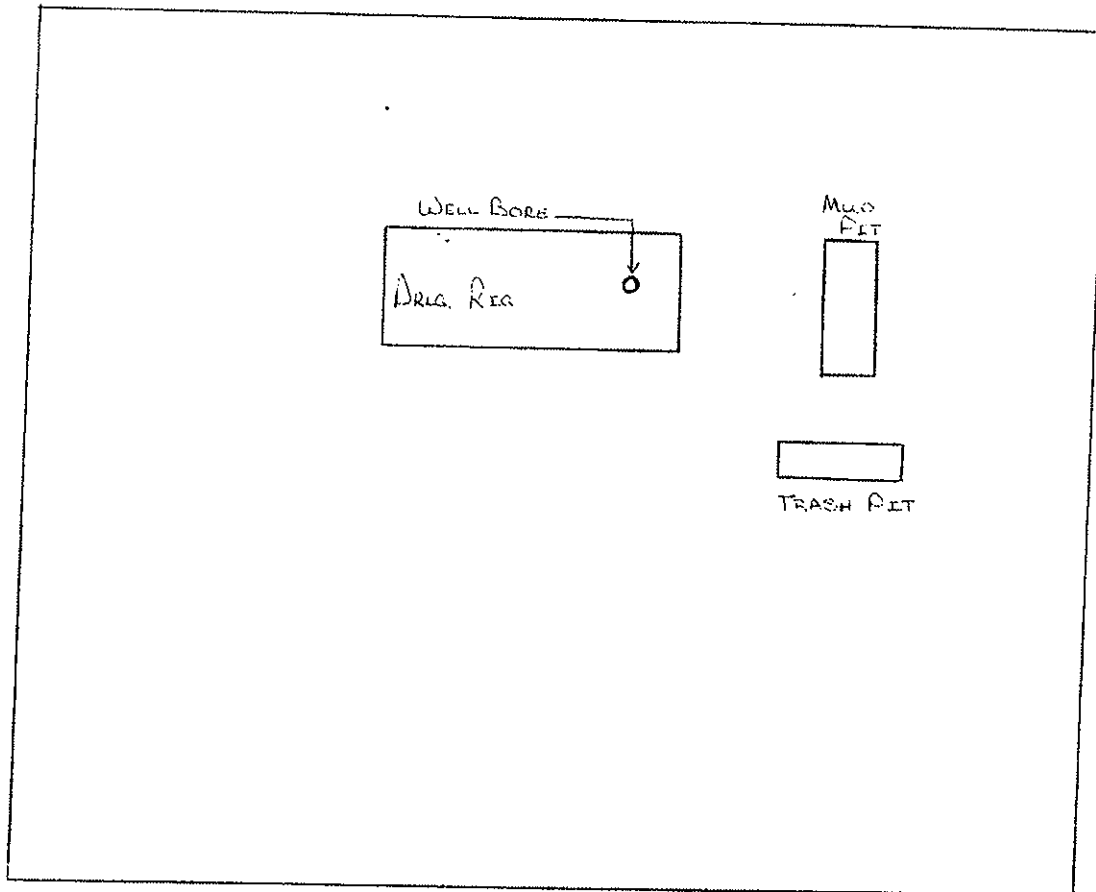


EXHIBIT "D"  
SKETCH OF WELL PAD

FRED POOL DRILLING, INC.  
Well #2 Chukka Federal  
SW $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 12: T-18-S, R-27-E



All distances must be from the outer boundaries of the Section.

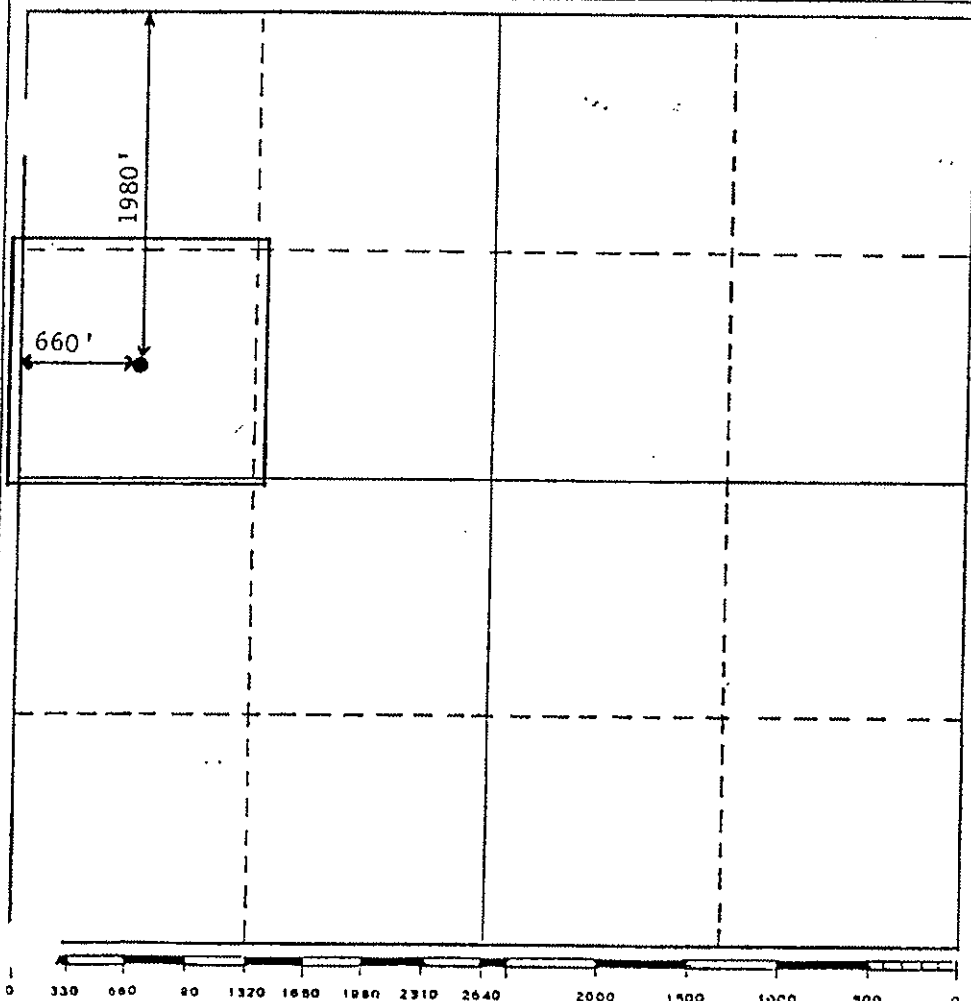
Driller <b>Fred Pool Drilling, Inc.</b>			Lease <b>Chukka Federal</b>			Well No. <b>2</b>
Unit Letter <b>E</b>	Section <b>12</b>	Township <b>18-S</b>	Range <b>27-E</b>	County <b>Eddy</b>		
Actual Footage Location of Well:						
<b>1980</b>		feet from the <b>North</b>		<b>660</b>		feet from the <b>West</b>
Ground Level Elev. <b>3607</b>	Producing Formation		Pool <b>Artesia</b>	Dedicated Acreage <b>40</b>		Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests 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 interests, has been approved by the Division.



CERTIFICATION

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

Name *Fred Pool*  
Position President  
Company Fred Pool Drilling, Inc.  
Date 8-16-85

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 \_\_\_\_\_  
Registered Professional Engineer and/or Land Surveyor \_\_\_\_\_

Certificate No. \_\_\_\_\_

RECEIVED BY

AUG 30 1985

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

ARTESIA, N.M. 88210  
ARTESIA, N.M. 88210

## D. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER *Re-entry*SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Fred Pool Drilling, Inc.

## 3. ADDRESS OF OPERATOR

P. O. Box 1393, Roswell, N.M. 88201

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

At surface

1980' FNL & 660' FWL  
At proposed prod. zone

(Unit E)

(SW $\frac{1}{4}$ NW $\frac{1}{4}$ )

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

11 air miles east-southeast of Artesia, N.M.

## 15. DISTANCE FROM PROPOSED\*

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

660'

## 16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1650'

## 19. PROPOSED DEPTH

1945'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3607 GR

## 22. APPROX. DATE WORK WILL START\*

8-31-85

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
4 1/4"	8 5/8"	32#	2000	Circ.
12 1/4" pipe				
Csg. in place				

This is a re-entry of Diamond Fed. Gas Com #1 plugged and abandoned 8-31-73.

OTO: 10,372

- Attached are:
- 1) Well location & acreage dedication plat
  - 2) Supplemental drilling data
  - 3) Surface use plan
  - 4) Designation of operator
  - 5) Original approved application by Amoco Production Co. for Diamond Federal Gas Com #1

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 President

DATE 8-16-85

(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  
ATTACHED

\*See Instructions On Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TR. LOCATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 6852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chukka Federal

9. WELL NO.

2

10. FIELD AND POOL OR WILDCAT  
B-6-8A  
Artesia Oil Pool

11. SEC., T., R., M., OR BLM. AND  
SURVEY OR AREA

Sec. 12-T 18S- R 27E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

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 ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

FRED POOL DRILLING, INC.

3. ADDRESS OF OPERATOR

P. O. Box 1393 Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1980 WNL 660 FWL  
Unit E SW 1/4 NW 1/4

14. PERMIT NO.

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

3607 GR

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.)\*

9-5-85: Drilled cement out of surface from 0-30 ft.  
Stringers of cement to 50 ft.  
Tagged No. 2 plug at 1912 ft. Pulled tubing  
back to 1804 ft.; circulated hole with fresh  
water.  
Preparing to log and perforate well.

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

SIGNED Santa Pool

TITLE Clerk

DATE 9-6-85

(This space for Federal or State office use)

APPROVED BY FOR RECORD

CONDITIONS OF APPROVAL, IF ANY None

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

SEP 10 1985

\*See Instructions on Reverse Side

CAPITOL, NEW MEXICO

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

NM OIL CONS. COM. PERMIT  
Artesia, NM 88210

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to other instructions. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED BY  
SEP 18 1985  
O. C. D.  
ARTESIA, OFFICE

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐ re-entry

2. NAME OF OPERATOR

Fred Pool Drilling, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 1393 Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

1980 FNL 660 FWL Unit E  
SW $\frac{1}{4}$  NW $\frac{1}{4}$

14. PERMIT NO.

3001520894

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

3607 GR

5. LEASE DESIGNATION AND SERIAL NO.

NM 6852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chukka Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Artesia Oil Pool

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

Sec, 12-T18S-R27E

12. COUNTY OR PARISH

Eddy

13. STATE

NM,

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.)\*

September 8, 1985

Perforations: 1446-56 ft. and 1459-62  
14 shots.

Acidized with 1000 gallons NE 15%; and 30,000 gallons Versagel; 30,000# 20/40 sand and 12,000 # 10/20 sand.

Pumping well back to test.

SEP 13 1985

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

SIGNED

*Fred Pool*

TITLE Vice - president

DATE 9-11-85

(This space for Federal or State office use)

APPROVED BY ACCEPTED FOR RECORD

CONDITIONS OF APPROVAL, IF ANY

TITLE

DATE

SEP 16 1985

\*See Instructions on Reverse Side

CARLSBAD, NEW MEXICO

SUPPLEMENTAL DRILLING DATA

FRED POOL DRILLING, INC.  
WELL #2 CHUKKA FEDERAL  
SW $\frac{1}{4}$  NW $\frac{1}{4}$ , SEC. 12, T-18-S, R-27-E  
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Artesia Group of Permian Age. (Elev. 3607')
2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Yates	275'	Grayberg	1650'
Seven Rivers	475'		
Queen	1225'		
3. ANTICIPATED POROSITY ZONES:

Water	-	Above 300'
Oil	-	1500-2500'
4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
8 5/8"	0 - 2000'	32#		
5. SURFACE CONTROL EQUIPMENT: Control head.
6. CIRCULATING MEDIUM: KCL water.
7. AUXILIARY EQUIPMENT: None considered necessary on this shallow development well.
8. TESTING, LOGGING AND CORING PROGRAM: No coring or DST's are planned. Electric logs will include an cement bond log and a Compensated Neutron Log with Gamma Ray.
9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.
10. ANTICIPATED STARTING DATE: It is planned that operations will commence about August 31, 1985. Duration of drilling, completion and testing operations should be one to five days.
11. RE-ENTRY DETAILS: Drill out cement plug at top of casing. Clean hole to plug at 1945' with tubing. Pressure test casing to be sure it does not leak. Run cement bond log from 1945' to surface. Perforate the Penrose section from 1450' to 1470' acidize and swab test.

RECEIVED BY

SEP 23 1985

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY(See other in-  
structions on  
reverse side)

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.

NM 6852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chukka Federal

9. WELL NO.

2

10. FIELD AND FOOT OR WILDCAT

Artesia Oil Pool

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

Sec. 12-T18S-R27E

12. COUNTY OR  
PARISH  
Eddy13. STATE  
NM15. DATE SPOOLED  
8-30-8516. DATE T.D. REACHED  
9-6-8517. DATE COMPL. (Ready to prod.)  
9-10-8518. ELEVATIONS (DF, REB, RT, OR, ETC.)\*  
3607 GR19. ELEV. CASINGHEAD  
3607 GR20. TOTAL DEPTH, MD & TVD  
1912 ft.21. PLUG, BACK T.D., MD & TVD  
1912 ft.22. IF MULTIPLE COMPL.,  
HOW MANY\*23. INTERVALS  
DRILLED BY  
→ROTARY TOOLS  
X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

1446-1462 ft.

Penrose

25. WAS DIRECTIONAL  
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Compensated Neutron

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 PULLED
8 5/8	32#	2000	11"	circulated	0

## 29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

## 30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8	1804 ft.	

## 31. PERFORATION RECORD (Interval, size and number)

1446-56 ft.  
1459-62 ft. 14 holes

## 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1446-56	1000 gal. NE 15%, 30,000
1459-62	gal. Versagel; 30,000 #
	20/40 sand; 12,000# 10/20
	sand.

## 33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
9-12-85		Pumping					Producing	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
9-12-85	24	none	→	31	TSTM	0		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
40#	40#	→	31	TSTM	0	35		

## 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

vented

TEST WITNESSED BY

SEP 19 1985 Fred Pool, Jr.

## 35. LIST OF ATTACHMENTS

Compensated Neutron log, mailed 9-10-85

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

SIGNED

TITLE Vice President

DATE 9-13-85

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



# INSTRUMENTS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formations and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**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 16:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:			38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Queen & Grayburg TD	0	65	Caliche and red bed Salt, red bed and anhydrite Dolomite and anhydrite Sand dolomite dolomite		
	65	1100			
	1100	1365			
	1365	1570			
	1570	1912			

OIL CONSERVATION DIVISION

NAME OF OPERATOR	
LOCATION	
FILE	
DATE	
LAND OFFICE	
TRANSPORTER	
OPERATOR	
PRODUCTION OFFICE	

RECEIVED BY  
SEP 18 1985  
O. C. D.  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

NEW MEXICO 87501  
REQUEST FOR ALLOWABLE  
AND  
TRANSPORT OIL AND NATURAL GAS

Operator: Fred Pool Drilling, Inc.  
Address: P.O. Box 1393, Roswell, N.M. 88201  
Reason(s) for filing (Check proper box):  
New Well ☒ Re-entry ☐ Change in Transporter oil: ☐ Oil ☐ Dry Gas ☐  
Recompletion ☐ Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐  
If change of ownership give name and address of previous owner: \_\_\_\_\_  
Casinghead Gas MUST NOT BE FLARED AFTER 10-24-85 UNLESS AN EXCEPTION FROM THE B. I. M. IS OBTAINED

I. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease
Chukka Federal	2	Artesia Oil Pool	State, Federal or Fee	Federal 6852
Location				
Unit Letter E : 1980 Feet From The North Line and 660 Feet From The West				
Line of Section 12- Township 18S Range 27E, N.M.P.M., Eddy Co.				

II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
Navajo Crude Oil Purchasing	Box 159 Artesia, N.M. 88210	
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
Phillips Petroleum	Bartlesville, Okla.	
If well produces oil or liquids, give location of tanks.	Unit	Sec.
	E 12	18S
	27E	
	Is gas actually connected? When	
	no	

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Hole	Drill H
	X			X				X
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
8-30-85	9-10-85	1912 ft.	1912 ft.					
Elevations (D.F., R.R., RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
GR 3607	Penrose	1446 ft.	1804					
Perforations			Depth Casing Shoe					
1446-56								
1459-62								

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
11"	8 5/8"	1514	

Post ID-2  
9-27-85

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 greater than 10% of total volume of load oil for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
9-12-85	9-12-85	pumping	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
24 hrs.	40#	40#	none
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF
31 bbls	31	0	TSTM

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
TSTM	24hrs.	TSTM	-
Testing Method (flow, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
			none

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.

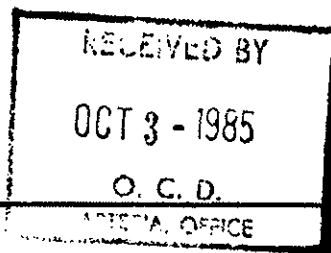
*Fred Pool*  
(Signature)  
Vice President  
(Title)  
9-16-85  
(Date)

OIL CONSERVATION DIVISION

APPROVED SEP 24 1985  
BY \_\_\_\_\_  
Original Signed By  
Les A. Clements  
TITLE \_\_\_\_\_  
Supervisor District II

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the device tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for all wells on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter, or other such change of condition.  
Separate Forms C-104 must be filled for each pool in multi-completed wells.

**FRED POOL, JR.**



September 25, 1985

P. O. Box 1393  
Roswell, NM 88201

New Mexico Energy and Resources Board  
P.O.Box 2088  
Santa Fe, N.M. 87501

RE: Chukka Federal No. 2  
Lease No. 6852  
SW/4 NW/4 Sec. 12-18S-27E  
Eddy County, N.M.

Gentlemen,

Please be advised that the above well was spudded on 8-3-85 and completed as a producing well on September 10, 1985. This well was potentialed at 31 barrels per day of oil and gas was TSTM.

All necessary records and logs have been filed with the appropriate offices.

Sincerely,

  
Penta Pool

OIL CONSERVATION DIVISION

Drawer DD Artesia, NM.

DISTRICT OFFICE #2

Sept. thru Dec. 1985

NO. 2058 N

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE September 24, 1985

PURPOSE ALLOWABLE ASSIGNMENT - NEW OIL

Effective September 12, 1985 an allowable of 31 barrels of oil per day  
is hereby assigned to Fred Pool Drilling, Incorporated, Chukka Federal  
#2-E-12-18-27 in the Artesia Queen Grayburg San Andres Pool.

L - F

MP - P

Sept. Total - 589 bbls.  
Oct. Total - 961 bbls.  
Nov. Total - 930 bbls.  
Dec. Total - 961 bbls.

Perm. - Penrose  
Perfs. - 1446' - 1462'  
Comp. - 9-10-85  
TD - 1912'

LAC:fc

Fred Pool Drig., Inc.

NEC  
PP

OIL CONSERVATION DIVISION



DISTRICT SUPERVISOR

THE UNIVERSITY OF CHICAGO

LIBRARY

AND TO THE OF PROPOSAL

THE UNIVERSITY OF CHICAGO

LIBRARY

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instruct. on reverse side)

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

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.)

RECEIVED

OCT 19 '90

O. C. D.  
ARTESIA, OFFICE

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR THE EASTLAND OIL COMPANY	8. FARM OR LEASE NAME CHUKKA FEDERAL
3. ADDRESS OF OPERATOR P. O. DRAWER 3488, MIDLAND, TX 79702	9. WELL NO. 2
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface UNIT LETTER E, 1980 FT. FNL AND 660 FWL, SECTION 12, TS 18S, RG. 27E, EDDY CO., NM	10. FIELD AND POOL, OR WILDCAT ARTESIA Q-G-SA
14. PERMIT NO. 30-015-20894	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 12, TWP 18S, RGE. 27E
15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH EDDY
	13. STATE NM

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other) CHANGE OF OPERATOR

(Other)

(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.)\*

LEASE PURCHASED FROM FRED POOL DRILLING, INC. 09/01/90.

RECEIVED  
OCT 17 11 09 AM '90  
CARI  
AREA

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

SIGNED Travis Reed

TITLE PRODUCTION SUPERINTENDENT

DATE 10/11/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions 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

RECEIVED

OCT 18 '90

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

C. C. O.  
ARTESIA, OFFICE

## REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator <b>THE EASTLAND OIL COMPANY</b>		Well API No. <b>30-015-20894</b>
Address <b>P. O. DRAWER 3488, MIDLAND, TEXAS 79702</b>		
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)		
New Well <input type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>	
Change in Operator <input checked="" type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	EFFECTIVE 09/01/90
If change of operator give name and address of previous operator <b>FRED POOL DRILLING, INC., P. O. DRAWER 1393, ROSWELL, NM 88201</b>		

### II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>CHUKKA FEDERAL</b>	Well No. <b>2</b>	Pool Name, including Formation <b>ARTESIA Q-G-SA</b>	Kind of Lease <b>State, Federal, NMBEX</b>	Lease No. <b>6852</b>
Location Unit Letter <b>E</b> : <b>1980</b> Feet From The <b>North</b> Line and <b>660</b> Feet From The <b>West</b> Line Section <b>12</b> Township <b>18S</b> Range <b>27E</b> , <b>NMPM</b> , <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>NAVAJO CRUDE OIL PURCHASING</b>	Address (Give address to which approved copy of this form is to be sent) <b>BOX 159, ARTESIA, NM 88210</b>	
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> <b>PHILLIPS PETROLEUM</b>	Address (Give address to which approved copy of this form is to be sent) <b>BARTLESVILLE, OK</b>	
If well produces oil or liquids, give location of tanks.	Unit <b>E</b>	Sec. <b>12</b>
	Twp. <b>18S</b>	Rge. <b>27E</b>
	Is gas actually connected? <b>NO</b>	When ?

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			
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 <b>posted ID-3 10-26-90</b>
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF <b>chg OP</b>

### 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.

*Travis Reed*  
Signature  
**TRAVIS REED** PRODUCTION SUPERINTENDENT  
Printed Name  
**10/08/90** **915/683-6293**  
Date Telephone No.

### OIL CONSERVATION DIVISION

Date Approved **OCT 23 1990**

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.

Act IV  
2040 South Pacheco, Santa Fe, NM 87505

Revised March 12, 1999

WILDERNESS CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505-8192

Submit to Appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

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

Navajo Refining Company Post Office Box 159 Artesia, New Mexico 88211		OGRID Number 15694
Property Code 23592		API Number 30-015-20894
Property Name <del>W.D.W.</del> WDW		Well No. 2

### Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	12	18S	27E		1980	North	660	West	Eddy

## Proposed Bottom Hole Location If Different From Surface

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

<sup>1</sup> Proposed Pool 1 <del>Lower Wolfcamp Cisco Canyon Injection Zone.</del>	<sup>2</sup> Proposed Pool 2 <i>Navajo Injection; Permo-Penn.</i>
--	--

<sup>11</sup> Work Type Code B-Reentry	<sup>12</sup> Well Type Code Class I Injection	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code Federal	<sup>15</sup> Ground Level Elevation 3607' GR, 3623' KB
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 9200'	<sup>18</sup> Formation Strawn	<sup>19</sup> Contractor	<sup>20</sup> Spud Date 5/15/99

<sup>21</sup> Proposed Casing and Cement Program

Hoik Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
11"	8-5/8"	32 lb/ft	1995 feet	800	Surface
7-7/8"	5-1/2"	17 lb/ft	9200 feet	Caliper vol. +20%	Surface

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.

Proposed Reentry of The Eastland Oil Company (originally Fred Pool Drilling, Inc.) Chukka Federal No. 2 (PSTD 1912 feet, September 10, 1985) formerly Amoco Production Company Diamond Federal Gas Com. No. 1 (OTD 10,372 feet, P&A August 31, 1973). The well currently produces oil and gas from perforations from 1446 feet to 1462 feet (Penrose.)

Navajo will squeeze the perforations from 1446 feet to 1462 feet, drill out cement plugs, and clean out the well to 9200 feet, set 5-1/2 inch casing at 9200 feet and cement to the surface, perforate porous intervals in the Lower Wolfcamp, Cisco, and Canyon Formations between 7270 feet and 9200 feet, and conducted injectivity tests.

Attached are the Well Location Plat and Drilling Program.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <u>Darrell Moore</u> Printed name: <u>Darrell Moore</u> Title: <u>Env. Mgr. for Water + Waste</u> Date: <u>4/21/99</u>		OIL CONSERVATION DIVISION Approved by: <u>Sign. W. G. B. B6X</u> Title: <u>District Supervisor</u> Approval Date: <u>5-3-99</u> Expiration Date: <u>5-3-00</u> Conditions of Approval: Attached <input type="checkbox"/>	
Phone: <u>605-748-3311</u>			



District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
South First, Artesia, NM 88210

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

District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised March 17, 1999

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-20894		Pool Code	Pool Name Lower Wolfcamp-Cisco-Canyon Injection Zone
Property Code	Property Name WDW-2		Well Number
OGRID No.	Operator Name Navajo Refining Company		Elevation 3607' GR

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
E	12	18S	27E		1980	North	660	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

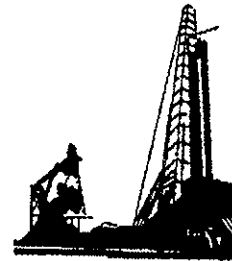
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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

<p>1980'</p> <p>← 660' →</p>				<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 <u>Darrell Moore</u>		
				Printed Name <u>Darrell Moore</u>		
				Title <u>Env. Mgr. for Water &amp; Waste</u>		
Date <u>4/21/99</u>					<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:						
Well is active. Location was not re-surveyed by Navajo.						
Certificate Number						

**OIL CONSERVATION DIVISION**

2040 South Pacheco  
Santa Fe, NM 87505  
(505) 827-7133  
Fax: (505) 827-8177

**(PLEASE DELIVER THIS FAX)**

To: TIM GUMM - ARTESIA OGD FAX 748-9720

From: WAYNE PRICE - OGD SF

Date: 4/30/99

Number of Pages (Includes Cover Sheet) 5/6

Message: APPROVED BOND FOR NAWMJO WDW#2

CLASS I INJECTION WELL (COPY)

If you have any trouble receiving this, please call:  
(505) 827-7133



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2844 South Pacheco Street  
Santa Fe, New Mexico 87605  
(505) 827-7131

April 19, 1999

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z 559 573 590**

J.S. Ward & Son, Inc.  
104 South Fourth Street  
Artesia, New Mexico 88210-2195

Attention: Mr. Gary Sims

Re: Navajo Refining Company Discharge Plan UIC-CLI-008-2  
Bond No. 58 96 12  
\$ 95,000.00 One-Well Plugging Bond  
to the State of New Mexico for Class I Injection Well WDW#2  
1980' FNL and 660' FWL - Sec 12-Ts18s-R27e N.M.P.M.  
Eddy, County, New Mexico  
J.S. Ward & Son, Inc., Principal

Gulf Insurance Company, Surety  
Bond 58 96 12

The New Mexico Oil Conservation Division hereby approves the above-captioned One-Well Plugging Bond.

Sincerely,

RAND CARROLL,  
Legal Counsel

RC/wp

cc: OCD Artesia Office  
Gulf Insurance Company

## PROJECT BILLING INFORMATION SHEET

Proposal No. 71Z5678

Project No. 70D6806

Original Proposal/Project

Submittal Date: 4/23/12

### CLIENT INFORMATION

Company Name: \*

Bio-Lab Inc.

Is this a revision: Yes ☐ No ☒

Attention Line: \*

Steve Marr

Revision Date:

"Billing" Address: \*

1400 East Michigan Street  
Adrian, Michigan 49221

Project Manager: \*

Joe Thatcher

"Main" Telephone No: \*

(517) 265-6138 Ext. 253 (Steve Marr)

Fax No.

Project Manager's Tele. No.\*

(517) 605-0908 (Joe Thatcher's Cell #)

Fax No.

Physical (Delivery) Address: \*

Salesperson (One Only):

Email Address

Taxable ☐ Nontaxable ☐

Client's PO/Contract No.

P.O. 4500349691

PO/Contract Date: 04/23/12

Description of Work (TO BE PRINTED ON INVOICE): \* Well No. 1 MIT and Falloff Survey

Subsurface Project Manager: RWS

State Work Performed (One Only): MI

BILLING METHOD: (You must complete only one of the following billing methods):

- (1) ☒ 2011 Price List Less \_\_\_\_\_%, \_\_\_\_\_% Handling Charge, or \_\_\_\_\_% Procurement Fee
- (2) \_\_\_\_\_ 2004 Price List Less \_\_\_\_\_%, \_\_\_\_\_% Handling Charge, or \_\_\_\_\_% Procurement Fee
- (2) \_\_\_\_\_ Lump-Sum (Project Manager to Notify Accounting When to Bill)
- (3) \_\_\_\_\_ Special Billing (Describe:)
- (4) \_\_\_\_\_ Standard Government Billing: \_\_\_\_\_% Overhead, \_\_\_\_\_% Fixed Fee (Attach Form OF-60)

### APPROVED PROJECT BUDGET:

Amount to be Billed: (A) \$ 11,670

Subsurface Project Cost: (B) \$

Gross Profit: (C=A-B) \$

Gross Profit: (D=C/A) %

### CRITICAL DEADLINES:

Proposal Due Date: 3/20/2012

Project Start-up Date:

Project Completion Date:

### PROJECT CODES (One Code Per Line): \*\*

Industry Sector Code:

Business Line Code:

Service Type Code:

Project Type Code:

### PREPARATION: \*\*\*

RFP Received: Yes ☐ No ☐

Written ☐ Verbal ☐

PBI Prepared By: RWS

\* Maximum of 30 characters. This description will appear on all client billing information. Be concise.

\*\* See back of Project Billing Information Sheet for Business Line/Service Type/Project Type codes.

\*\*\* A completed (i) RFP for a proposal or (ii) manpower summary and cost estimate for a project should be attached.

Revised 7-27-01



# *J. S. Ward & Son, Inc.*

101 South Fourth Street  
(505) 746-2796  
FAX (505) 746-4244  
Artesia, New Mexico  
88210-2195

Insurance  
Bonds

April 22, 1999

State of New Mexico  
Energy, Minerals & Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505-5472

Attention: Mr. Roger Anderson

Re: Navajo Refining Company  
Bond No. 58 96 12  
\$95,000 One-Well Plugging Bond  
to the State of New Mexico for  
Class I Injection Well  
Chukka Federal #2

Dear Mr. Anderson:

Enclosed please find the captioned bond through Gulf Insurance Company which we trust you find in order and acceptable for filing.

Very truly yours,

J. S. WARD & SON, INC.

By *J. Gary Sims*

SGS:emb

Enclosure

cc: Navajo Refining Company  
Post Office Box 159  
Artesia, New Mexico 88211-0159  
Attention: Mr. Joe Akins - Copy of Bond & Invoice

ENTERED 50 APR 23

Navajo Refining Company

PRINCIPAL

Post Office Box 159

Artesia, New Mexico

Address

By

Signature

President

Title

(Note: Principal, if corporation, affix corporate seal here.)

Gulf Insurance Company

SURETY

101 South Fourth Street

Artesia, New Mexico

Address

Signature

Attorney-In-Fact

(Note: Corporate surety affix corporate seal here.)

ACKNOWLEDGEMENT FORM FOR NATURAL PERSONS

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared \_\_\_\_\_, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Notary Public

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

ACKNOWLEDGEMENT FORM FOR CORPORATION

STATE OF New Mexico )  
COUNTY OF Eddy ) ss.

On this 22nd day of April, 1999, before me personally appeared Jack P. Reid, to me personally known who, being by me duly sworn, did say that he is President of Navajo Refining Company and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Notary Public

1-16-2001  
My Commission Expires



OFFICIAL SEAL  
Rita Bondle  
NOTARY PUBLIC-STATE OF NEW MEXICO  
My commission expires: 1-16-2001

ACKNOWLEDGEMENT FORM FOR CORPORATE SURETY

STATE OF New Mexico )  
COUNTY OF Eddy ) ss.

On this 22nd day of April, 1999, before me appeared S. Gary Sims, to me personally known, who, being by me duly sworn, did say that he is Attorney-in-Fact of Gulf Insurance Company and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Notary Public

7-10-01  
My Commission Expires



OFFICIAL SEAL  
EDWINA M. BRAMLETT  
NOTARY PUBLIC  
STATE OF NEW MEXICO  
My Commission Expires 7-10-01

(Note: Corporate surety attach power of attorney.)

APPROVED BY:

OIL CONSERVATION DIVISION OF NEW MEXICO

By: [Signature]

Date: 4/30/99



# POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That GULF INSURANCE COMPANY, a corporation of the State of Missouri, hereinafter called "Company," does hereby appoint

CHARLENE M. WARD or S. GARY SIMS or JOHN C. KNIGHT

ARTESIA, NEW MEXICO

its true and lawful Attorney-in-fact to make, execute, seal and deliver on its behalf, as surety, any and all bonds and undertakings of suretyship, not to exceed \$250,000.00 or any bond where the penalty is not stated in the bond form. No authority is granted where the attorney in fact is a party at interest in the bond.

The execution of such bonds or undertakings in pursuance of these presents shall be as binding upon the Company as if they had been executed and acknowledged by the regularly elected officers of the Company.

This Power of Attorney is issued pursuant to and by authority of the following resolution of the Board of Directors of the Company, adopted effective July 1, 1983, and now in full force and effect:

"Resolved that the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary may appoint Attorneys-in-fact in any state, territory or federal district to represent this Company and to act on its behalf within the scope of the authority granted to them, in writing, which authority may include the power to make, execute, seal and deliver on behalf of this Company, its surety, and on its act and deed, any and all bonds and undertakings of suretyship and other documents that the ordinary course of surety business may require, including authority to appoint agents for the service of process in any jurisdiction, state or federal, and authority to attest to the signature of the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary and to verify any affidavit or other statement relating to the foregoing, and to certify to a copy of any of the bylaws of the Company and to any resolutions adopted by its Board of Directors; and any such Attorney-in-fact may be removed and the authority granted him revoked by the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary, or by the Board of Directors."

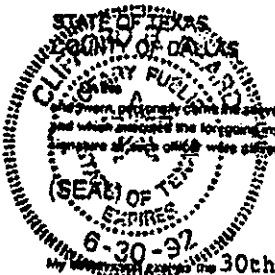
This Power of Attorney and Certificate are signed and sealed by facsimile under and by authority of the following resolution of the Board of Directors of the Company, adopted effective July 1, 1983, and now in full force and effect:

"Resolved that the signature of the President, or of any Senior Vice President, or of any Vice President, or of the Secretary, or of any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Attorneys-in-fact for purposes any of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, including any such power of attorney and certificate revoking the authority of the foregoing Attorneys-in-fact, as well as for the appointment of agents for the service of process in any jurisdiction, state or federal, including any such power of attorney and certificate revoking the authority of such agents; and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power of attorney or certificate so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company at the time of its execution and to the future with respect to any bond or undertaking to which they are attached."

Therefore, the Board of Directors of the Company has caused this Power of Attorney to be signed and its corporate seal to be affixed by its authorized officer this April 12, 1991.



By *[Signature]*  
Sr. Vice President



I, Cliff R. Beard, before me, a Notary Public of the State and County aforesaid, residing therein, duly commissioned and sworn, personally know the active named officer of GULF INSURANCE COMPANY, who being by me first duly sworn according to law, did depose and say that he is that officer of the company described in and which executed the foregoing instrument; that he knows the seal of said company; that the seal affixed to such instrument is the corporate seal of said company; and that the corporate seal and his signature of said officer were affixed and subscribed to the said instrument by the authority and direction of said company.

Witness my hand and seal this 30th day of June, 1992.

*[Signature]*  
Cliff R. Beard  
Notary Public  
1992

## CERTIFICATE

I, the undersigned, do hereby certify that the original Power of Attorney of which the foregoing is a true and correct copy is in full force and effect, and the foregoing resolutions are true and correct transcripts from the records of GULF INSURANCE COMPANY and that the above named officer was on the date of execution of the foregoing Power of Attorney authorized to execute this Power of Attorney.



I, *[Signature]*, have hereunto subscribed my name and affixed the corporate seal of Gulf Insurance Company this 22nd day of April, 1999.

*[Signature]*  
Vice President

STATE OF NEW MEXICO  
ONE-WELL PLUGGING BOND

FOR CHAVES, EDDY, LEA, MCKINLEY, RIO ARRIBA, ROOSEVELT,  
SANDOVAL, AND SAN JUAN COUNTIES ONLY

BOND NO. 58 96 12  
AMOUNT OF BOND \$95,000.00  
COUNTY Eddy

NOTE: For wells less than 5,000 feet deep, the minimum bond is \$5,000.00+  
For wells 5,000 to 10,000 feet deep, the minimum bond is \$7,500.00+  
For wells more than 10,000 feet deep, the minimum bond is \$10,000.00

\*Under certain conditions, a well being drilled under a \$5,000.00 or \$7,500 bond may be permitted to be drilled as much as 500 feet deeper than the normal maximum depth, i.e., a well being drilled under a \$5,000.00 bond may be permitted to go to 5,500 feet, and a well being drilled under a \$7,500.00 bond may be permitted to go to 10,500 feet. (See Rule 101)

File with Oil Conservation Division, P. O. Box 2088, Santa Fe 87501

KNOW ALL MEN BY THESE PRESENTS:

That Navajo Refining Company, ~~INCORPORATED IN THE STATE OF NEW MEXICO~~  
(a corporation organized in the State of New Mexico, with its principal office in the city  
of Artesia, State of New Mexico, and authorized to do business  
in the State of New Mexico), as PRINCIPAL, and Gulf Insurance Company,  
a corporation organized and existing under the laws of the State of  
Missouri, and authorized to do business in the State of New  
Mexico, as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil  
Conservation Division of New Mexico pursuant to Section 70-2-12, New Mexico Statutes Annotated, 1978  
Compilation, as amended, in the sum of Ninety-Five Thousand and no/100ths Dollars lawful money of the United  
States, for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind  
themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon  
dioxide (CO<sub>2</sub>) gas leases, or helium gas leases, or brine mineral leases with the State of New Mexico; and

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon  
dioxide (CO<sub>2</sub>) gas leases, or helium gas leases, or brine mineral leases on lands patented by the United  
States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has  
commenced or may commence the drilling of one well not to exceed a depth of 9200  
feet, to prospect for and produce oil or gas, or carbon dioxide (CO<sub>2</sub>) gas or helium gas, or does own or  
may acquire, own or operate such well, or such well started by others on land embraced in said State oil  
and gas leases, or carbon dioxide (CO<sub>2</sub>) leases, or helium gas leases, or brine minerals, and on land  
patented by the United States of America to private individuals, and on land otherwise owned by private  
individuals, the identification and location of said well being being  
1980' FNL and 660' FWL Section 12, Township 18, ~~Range~~ South

(Here state exact legal footage description)  
Range 27 (East) N.M.P.M., Eddy County, New Mexico.

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or  
assigns, or any of them, shall plug said well when dry or when abandoned in accordance with the rules,  
regulations, and orders of the Oil Conservation Division of New Mexico in such way as to confine the oil,  
gas, brine, and water in the strata in which they are found, and to prevent them from escaping into other  
strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete  
compliance with any and all of said obligations, the same shall remain in full force and effect.

Signed and sealed this 22nd day of April, 1999.



## ATTACHMENT A

Sunday, May 9, 1999

Pressure testing the 8-5/8 inch Surface Casing from 1922 feet (KB) to 30 feet (KB) using a fresh water fluid. Pressure testing was performed after the perforations between 1446 feet and 1462 feet were squeezed with cement.

### Pressure Test No. 1

Time	Cumulative Time	Pressure	Delta Pressure
(hrs.)	(minutes)	(psig)	(psi)
1303	0	660	----
1308	5	660	0
1313	10	660	0
1318	15	660	0
1323	20	660	0
1328	25	659	-1
1333	30	659	0

Total = -1 psi per 30 minutes

### Pressure Test No. 2

Time	Cumulative Time	Pressure	Delta Pressure
(hrs.)	(minutes)	(psig)	(psi)
1333	0	659	----
1338	5	659	0
1343	10	659	0
1348	15	658	-1
1353	20	658	0
1358	25	657	-1
1303	30	657	0

Total = -2 psi per 30 minutes



TELEPHONE  
5) 748-3311

EASYLINK  
62905278



## REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159

FAX  
(505) 746-6410 ACCTG  
(505) 746-6155 EXEC  
(505) 748-9077 ENGR  
(505) 746-4438 P / L

May 10, 1999

Mr. Tim Gumm  
State of New Mexico  
Energy, Minerals and Natural  
Resources Department  
Oil Conservation Division  
811 South First Street  
Artesia, New Mexico 88210



RE: Re-Entry for Navajo Refining Company's Waste Disposal Well No. 2

Dear Mr. Gumm:

Navajo Refining Company (Navajo) has contracted Subsurface Technology, Inc. to re-enter, test and complete Waste Disposal Well No. 2 (WDW-2), formerly the Chukka Federal No. 2 operated by The Eastland Oil Company. The United States Department of the Interior, Bureau of Land Management approved the Application for Permit to Drill or Deepen on April 27, 1999. Subsequent approval from the State of New Mexico Oil Conservation Commission (OCD) was granted on Tuesday, May 4, 1999.

Navajo initiated field operations on Wednesday, May 5, 1999. The existing pumping equipment, rods, and tubing were removed from the wellbore. The perforations from 1446 feet to 1462 feet were squeezed using 100 sacks of Class 'H' cement (approximately 50 sacks of cement were displaced into the perforated interval). The cement was allowed to cure and drilled out to a total depth of 1922 feet (KB)(1911 feet below ground level).

On Sunday, May 9, 1999, the 8-5/8 inch surface casing, set from 1955 feet (KB) to surface, was pressure tested for internal mechanical integrity between 1922 feet (KB) and 30 feet (KB) using a packer set at 30 feet. The 8-5/8 inch surface casing was pressure tested to 660 pounds per square inch and monitored at the surface for one hour (Attachment A). The fluid used for testing was a clean fresh water fluid. A pressure loss of 1 psi (0.15%) was observed during the first 30 minutes of the test. A pressure loss of 2 psi (0.30%) was observed during the last 30 minutes of the test. The results from the pressure test confirmed internal mechanical integrity of the 8-5/8 inch surface casing from 1922 feet (KB) to 30 feet (KB).

The 8-5/8 inch surface casing was originally set in an 11 inch open-hole to a depth of 1955 feet (KB) and cemented to surface using 700 sacks of Class 'H' cement with 2% gel and 100 sacks of Class 'H' neat. A total of 200 sacks of cement was recorded circulated to surface. The calculated volume between an 11 inch hole and 8-5/8 inch casing is (0.2407 cubic feet per foot X 1955 feet) 471 cubic feet. The volume of cement pumped is (1.18 cubic feet per sack X 800 sacks) 944 cubic feet for an excess of 473 cubic feet or 400 sacks circulated to surface. The calculated volume of cement and apparent volume of actual cement pumped indicated excess cement was circulated to surface.

On Sunday, May 9, 1999, Halliburton Logging Services completed a cement bond and microseismogram (same as a variable density log) logging survey within the 8-5/8 inch casing from a wireline total depth of 1919 feet (KB) to the surface (Attachment B). The results from the survey indicate a continuous column of cement from 1922 feet to surface with good bonding characteristics. The cement behind the 8-5/8 inch casing will provide an effective hydraulic seal to prevent the movement of groundwater fluids into the underground source of drinking water with a base at 473 feet.

Please review and approve the pressure testing and cement bond log results at your earliest convenience. Navajo will proceed with the mobilization of the drilling rig Wednesday, May 12, 1999 and begin re-entry of the WDW-2 wellbore according to the approved drilling program. Navajo will periodically contact the OCD, Artesia office with a status update of the re-entry operations. The Bureau of Land Management will be notified in sufficient time for a representative to witness the cementing of the 5-1/2 inch protection casing.

Should you have any questions or concerns, please call me at (505) 748-3311.

Sincerely yours,



Darrell Moore  
Environmental Manager for Water and Waste

c: Mr. David Glass  
Bureau of Land Management  
Roswell Field Office  
2909 West Second Street  
Roswell, New Mexico 88201

Mr. Brian Rogers  
Subsurface Technology, Inc.  
7020 Portwest, Suite 100  
Houston, Texas 77024

File: Injection Wells



March 30, 1999

Mr. Barry Hunt  
Bureau of Land Management  
Carlsbad Resource Area  
620 East Greene Street  
Carlsbad, New Mexico 88220-6292

RE: Navajo Refining Company Proposed WDW-2, Eddy County, New Mexico  
Request for On-Site Inspection of Wellsite  
Subsurface Project No. 60A4937

Dear Mr. Hunt:

Navajo Refining Company (Navajo) is purchasing an existing well in Eddy County, New Mexico for planned use as a Class I nonhazardous effluent disposal well, and plans to reenter and test the well in the next few months. The well is on federal land. Subsurface Technology, Inc. (Subsurface), formerly Envirocorp Services & Technology, Inc., on behalf of Navajo, requests your participation in an on-site inspection of the wellsite as soon as possible.

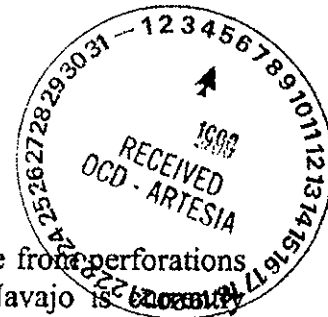
Pertinent information about the existing well is provided below:

Lease Number:	NM 6852
Current Operator:	The Eastland Oil Company (September 1990 to present)
Lease:	Chukka Federal No. 2
Former Operator:	Fred Pool Drilling Company (August 1985 to September 1990)
Former Operator:	Amoco Production Company (July 1973 to August 1985)
Former Lease:	Diamond Federal Gas Com. No. 1
Location:	1980' FNL, 660' FWL (SW/4 NW/4, Unit Letter E) 12-T18S-R27E

Topographic Map (Attachment A)

Original Total Depth: 10,372 feet  
Plugged-Back Total Depth: 1912 feet  
Well Schematic (Attachment B)

Status: The well is producing from the Penrose from perforations between 1446 feet and 1462 feet. Navajo is currently



Mr. Barry Hunt  
Bureau of Land Management

March 30, 1999  
Page 2


negotiating to purchase the well from Eastland Oil Company. The purchase should be completed by April 1, 1999.

Navajo proposes to reenter the well, squeeze the perforations from 1446 feet to 1462 feet, drill out the plugs and clean out the well to approximately 9200 feet, set 5-1/2 inch casing at 9200 feet and cement it to the surface, and conduct one or more injectivity tests. The proposed injection intervals are porous zones in the lower portion of the Wolfcamp Formation (7270 feet to 7645 feet), the Cisco Formation (7645 feet to 8390 feet), and the Canyon Formation (8390 feet to 8894 feet). Navajo's proposed reentry, testing, and recompletion procedure is included as Attachment C. A schematic of the well after recompletion is included as Attachment D.

Subsurface is currently preparing a discharge plan application for the Class I well for Navajo to submit to the New Mexico Oil Conservation Division and the BLM Roswell office near the end of April 1999. Subsurface is also preparing BLM Form 3160-3 (Application for Permit to Drill) for Navajo to submit to the BLM Roswell office.

Please contact me at (713) 880-4640 to schedule an on-site inspection of the wellsite. Do not hesitate to call me if you need additional information or if you have questions.

Sincerely,

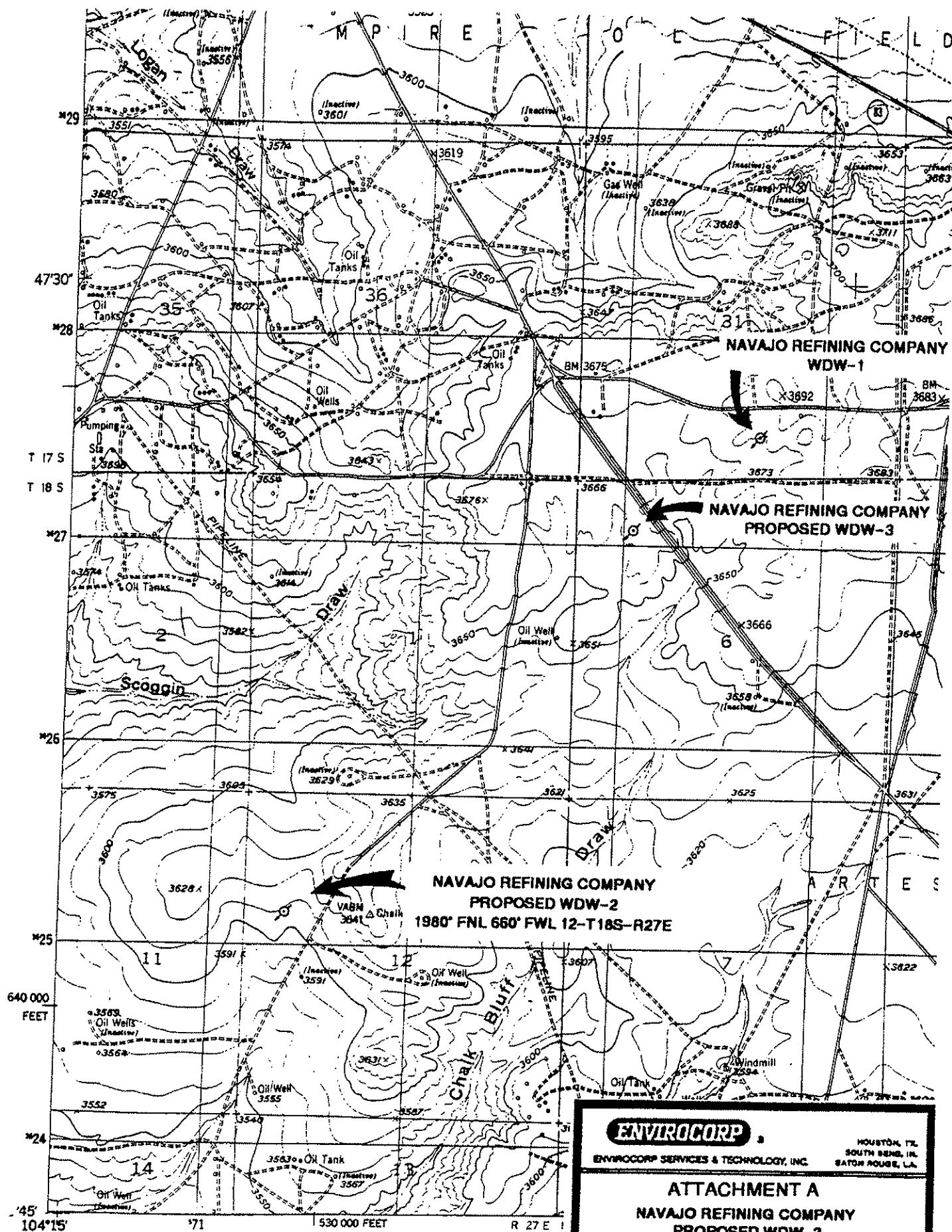


Nancy L. Niemann  
Senior Geologist

NLN/paf  
Attachments

c: Joe Lara – BLM, Carlsbad  
David Glass – BLM, Roswell  
Wayne Price – OCD, Santa Fe  
Tim Gum – OCD, Artesia  
Phil Youngblood – Navajo  
Darrell Moore – Navajo  
George Walbert – Holly Petroleum, Inc.

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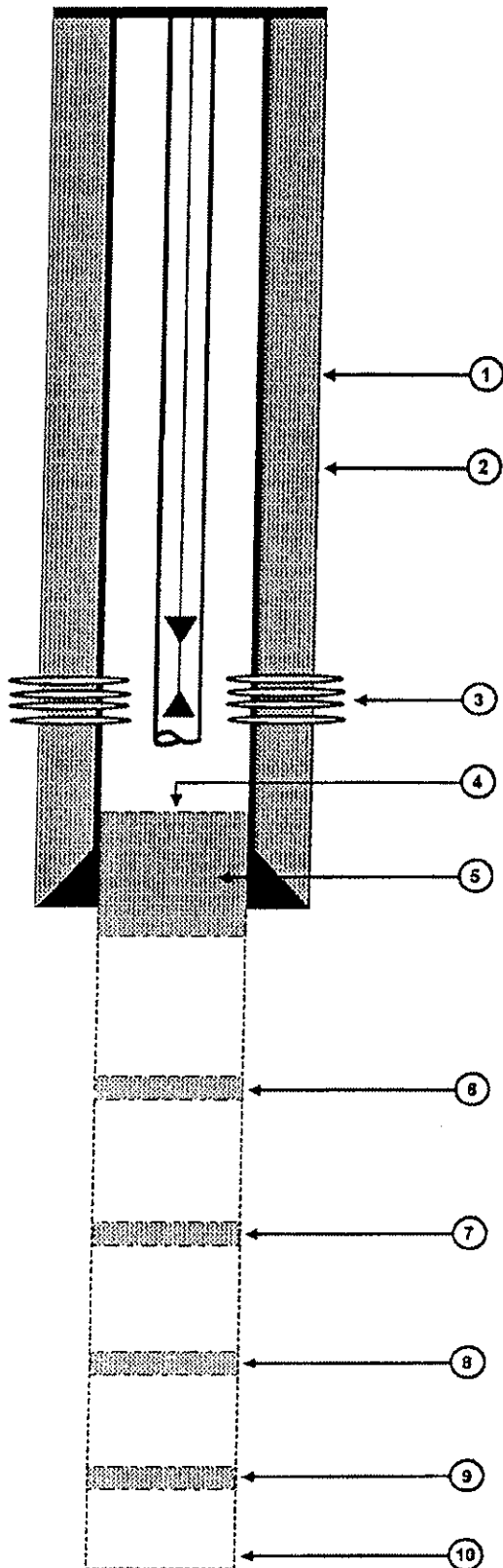


RED LAKE QUADRANGLE

<b>ENVIROCORP</b>		
ENVIROCORP SERVICES & TECHNOLOGY, INC.		
HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA		
<b>ATTACHMENT A</b>		
<b>NAVJO REFINING COMPANY</b>		
<b>PROPOSED WDW-2</b>		
<b>1980' FNL 660' FWL 12-T18S-R27E</b>		
<b>EDDY COUNTY, NM</b>		
DATE:	CHECKED BY:	JOB NO:
DRAWN BY:	APPROVED BY:	DWG. NO:

## BELOW GROUND DETAIL

All depths are referenced to the kelly bushing elevation of 13 feet. The surface elevation is 3610 feet.



Total Depth: 10,372'

1. Base of the USDW at 473'.

2. Casing: 8-5/8", 32 lb/ft, set at 1955' in an 11" hole. Cemented to surface with 700 sacks of cement.

3. Perforations: 1446' - 1462'.

4. PBTD: 1912'.

5. Cement Plug: 40 sacks from 1912' to 2045'.

6. Cement Plug: 50 sacks from 3620' to 3720'.

7. Cement Plug: 40 sacks from 5456' to 5556'.

8. Cement Plug: 50 sacks from 7435' to 7535'.

9. Cement Plug: 45 sacks from 9675' to 9775'.

10. Hole Size: 7-7/8".

**ENVIROCORP**

HOUSTON, TX.  
SOUTH BEND, IN.  
BATON ROUGE, LA.

ATTACHMENT III-2  
NAVAJO REFINING COMPANY  
CURRENT WELL CONFIGURATION  
CHUKKA FEDERAL No. 2

Date: 03/10/99 Checked By: NLN Job No.: 60A4937  
Drawn By: LKM Approved By: NLN File: WDW2A.DS4

## ATTACHMENT C

### DRILLING AND RECOMPLETION PROCEDURE FOR NAVAJO REFINING COMPANY'S PROPOSED WDW-2

1. Obtain all permits and approvals for the reentry, testing and completion of a currently existing well.
2. Move in and rig up a workover unit. Remove the pumping equipment and pull the tubing out of the well.
3. Go in the hole with a squeeze packer and squeeze the perforations from 1446 feet to 1462 feet with 100 sacks of Class "H" cement. Allow the cement to cure.
4. Drill out the cement, circulate the well clean and pressure test the squeezed perforations at 500 psig for 30 minutes. Pull the squeeze tools out of the hole.
5. Conduct a CBL/VDL survey from 1912 feet to the surface. Submit the results of the pressure test and CBL/VDL survey to the OCD and the BLM for their review and approval prior to mobilizing the drilling rig.
6. After receiving approval from the OCD and the BLM to continue the reentry, prepare the location for the selected drilling rig. Construct the lined reserve pits, dig out the cellar, and install a mousehole and rathole.
7. Move in and rig up the rotary drilling rig and install the blowout preventers.
8. Drill out the following cement plugs and conduct deviation surveys every 1000 feet or on trips:
  - a. 1912 feet to 2045 feet, 40 sacks
  - b. 3620 feet to 3720 feet, 50 sacks
  - c. 5456 feet to 5556 feet, 40 sacks
  - d. 7435 feet to 7535 feet, 50 sacks
9. Clean the well out to a depth of 9200 feet and circulate and condition the hole for logging. Make a wiper trip to the base of the 8-5/8 inch surface casing while strapping the drillpipe.
10. Conduct a formation microimager (FMI) survey with gamma ray from the well's total depth to 4000 feet. Continue the four-arm caliper survey to the 8-5/8 inch



## ATTACHMENT C (Continued)

casing shoe. Process the FMI for fracture identification over the lower 200 feet of the confining zone and zones of interest in the injection zone, if warranted.

11. Spot a gelled pill at 9200 feet and lay down the drillpipe.
12. Run the 5-1/2 inch casing with a packoff shoe and float collar to 9200 feet. Install a "DV" tool at 5500 feet. Run centralizers at approximately 120-foot intervals.
13. Cement the 5-1/2 inch casing in place. Use a minimum of 20% excess cement as calculated from the caliper log. Circulate cement to the surface and allow to cure.
14. Clean out the mud pits and release the drilling rig 12 hours after cementing the 5-1/2 inch casing in place.
15. Stabilize the 5-1/2 inch casing at the surface using ready-mix cement.
16. Move in and rig up the completion rig pump, tank, power swivel, and work string. Install the blowout preventer.
17. Run in the well with a 4-3/4 inch bit to the "DV" tool and test the casing to 1500 psig for 30 minutes.
18. Drill out the "DV" tool and clean out the wellbore to the float collar. Test the casing to 1500 psig for 30 minutes. Circulate the wellbore with clean brine, preceded by 15% HCL to clean the casing. Trip the work string out of the well.
19. Conduct the casing inspection, CBL/VDL, and differential temperature surveys.
20. Perforate the selected injection interval as determined from the open hole logs. (Zone 1).
21. Run in the well with a packer and tailpipe. Set the packer above the top perforation and swab test the perforated interval. Recover at minimum two tubing volumes of the reservoir fluid for analysis (Note: Set up H<sub>2</sub>S monitoring equipment prior to swabbing operations).
22. Acidize the zone using diverters. Pull the packer out of the well.
23. Perforate the next selected injection interval as determined from the open hole logs (Zone 2).

## ATTACHMENT C (Continued)

24. Run a retrievable bridge plug and packer into the well and isolate Zone 2.
25. Acidize Zone 2 using diverters. Pull the retrievable bridge plug and packer out of the well, laying down the work string.
26. Conduct an injection test down the 5-1/2 inch casing at 420 gpm for 12 hours followed by a pressure falloff test.
27. Conduct a differential temperature survey and radioactive tracer survey to determine the injection profile.
28. Run the injection tubing and packer. Fill the annulus with corrosion inhibited brine.
29. Wait for the well system to come to thermal stabilization (approximately 24 hours).
30. Conduct an annulus pressure test witnessed by the OCD.
31. Rig down and move out all equipment and close the reserve pit.
32. Install the annulus monitoring system and return the well to the client.

## BELOW GROUND DETAIL

All depths are referenced to the kelly bushing elevation of 13 feet. Surface elevation is 3810 feet.

1. Base of the USDW at 473'.

2. Casing: 8-5/8", 32 lb/ft, set at 1955' in an 11" hole. Cemented to surface with 700 sacks of cement.

3. Injection Tubing: 3-1/2".

4. DV Tool: at 5500'.

5. Annulus Fluid: Corrosion inhibited brine water.

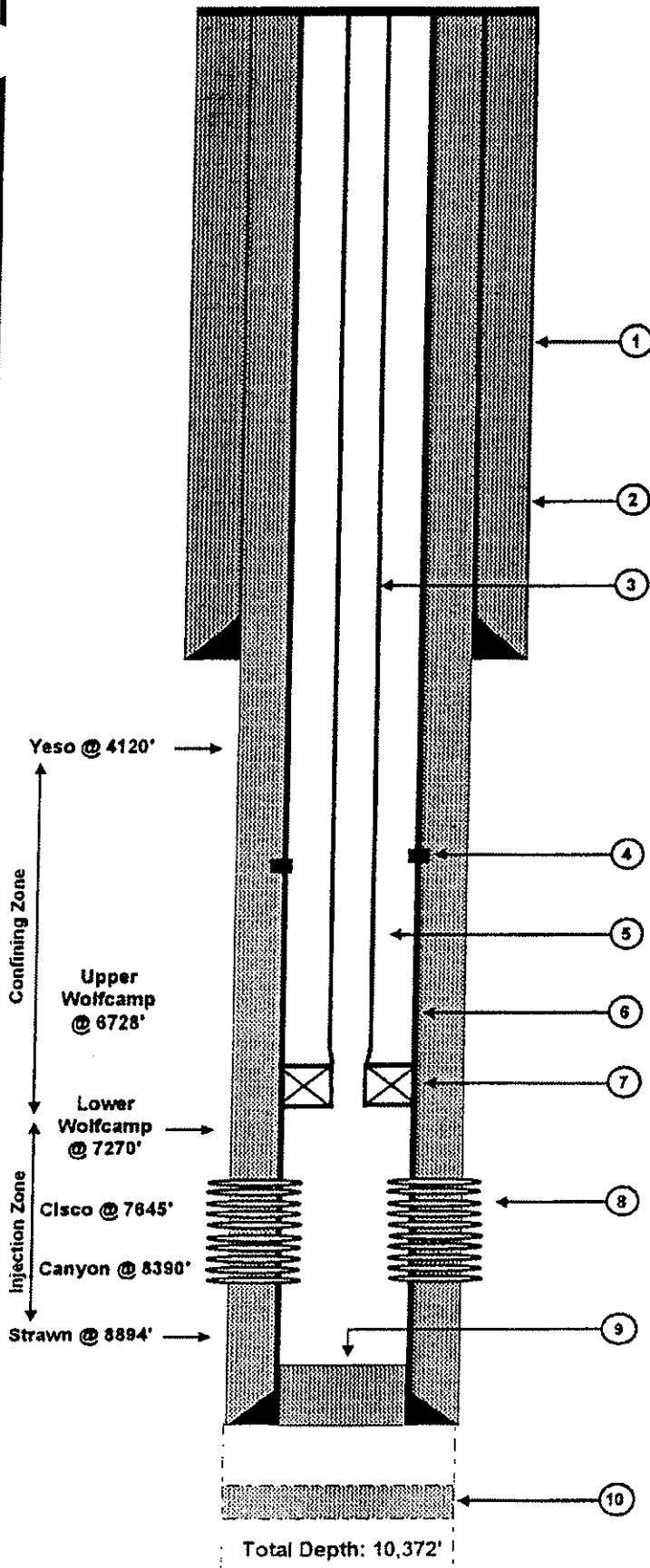
6. Protection Casing: 5-1/2" set in a 7-7/8" hole. Casing cemented to surface. Calipered hole volume plus 20% excess.

7. Packer: Fullbore retrievable packer set 100' above the top perforated injection interval.

8. Perforations:  
Perforated in two intervals between 7270' and 8894'.

9. PBTD: 9200'

10. Cement Plug: 45 sacks from 9675' to 9775'.



**ENVIROCORP**

HOUSTON, TX.  
SOUTH BEND, IN.  
BATON ROUGE, LA.

ATTACHMENT III-4  
NAVAJO REFINING COMPANY  
PROPOSED WDW-2  
ARTESIA, NEW MEXICO

Date: 03/11/99 | Checked By: NLN | Job No.: 60A4937  
Drawn By: LKM | Approved By: NLN | File: WDW2B.DS4

## CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Navajo Refining Company Well No. 2 - WDW

Location: 1980' FNL & 660' FWL sec. 12, T. 18 S., R. 27 E.

Lease: NM-6852

.....

### I. DRILLING OPERATIONS REQUIREMENTS: [Deepening]

1. The Bureau of Land Management (BLM) is to be notified at (505) 887-6544 in sufficient time for a representative to witness:

A. Cementing casing: 5-1/2 inch

2. Unless the injection casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

### II. CASING:

1. Minimum required fill of cement behind the 5-1/2 inch injection casing is sufficient to circulate to the surface.

### III. PRESSURE CONTROL:

1. Before drilling into the 100 foot 8-5/8 inch surface casing shoe cement plug at approximately 1912 feet, the blowout preventer assembly shall consist of a minimum of One Annular Preventer, Two Ram-Type Preventers, and a Kelly Cock/Stabbing Valve

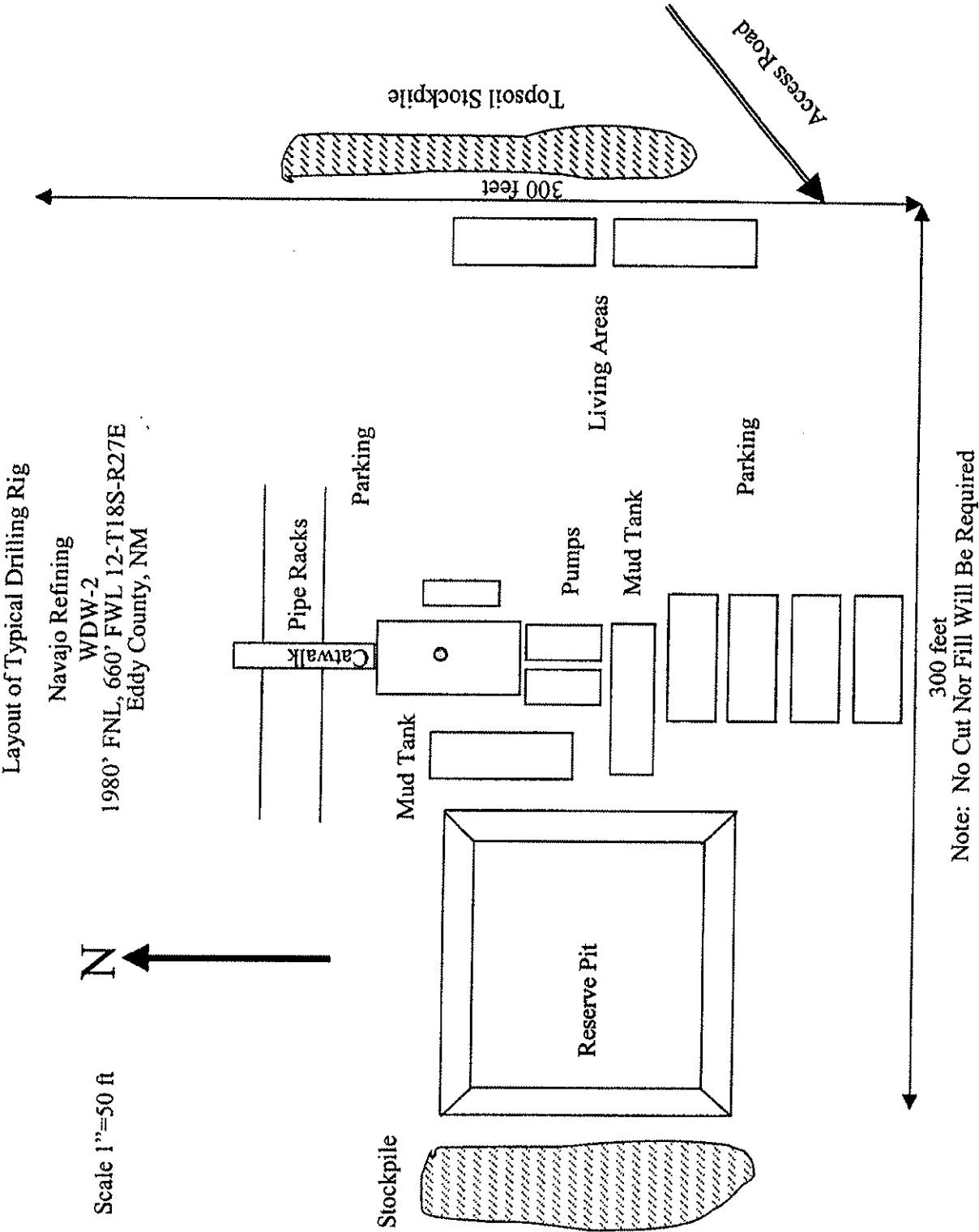
2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 3000 psi.

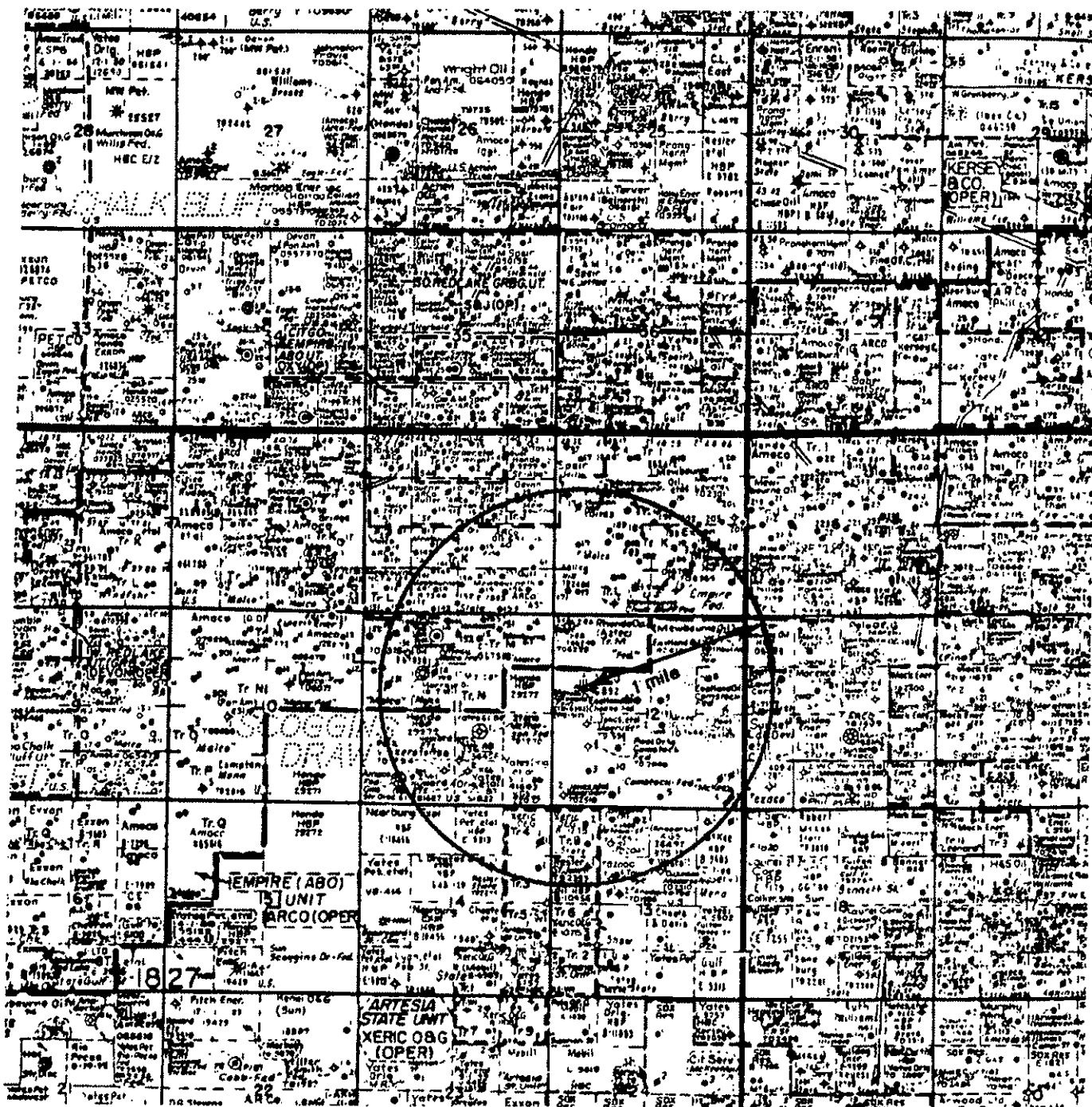
3. After drilling into the 100 foot 8-5/8 inch surface casing shoe cement plug at approximately 1912 feet and before drilling into the 100 foot Abo cement plug at approximately 5450 feet, the BOPE shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

A. The results of the test will be reported to the BLM Carlsbad Resource Area office at 620 East Greene Street, Carlsbad, New Mexico 88220-6292.

B. Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.

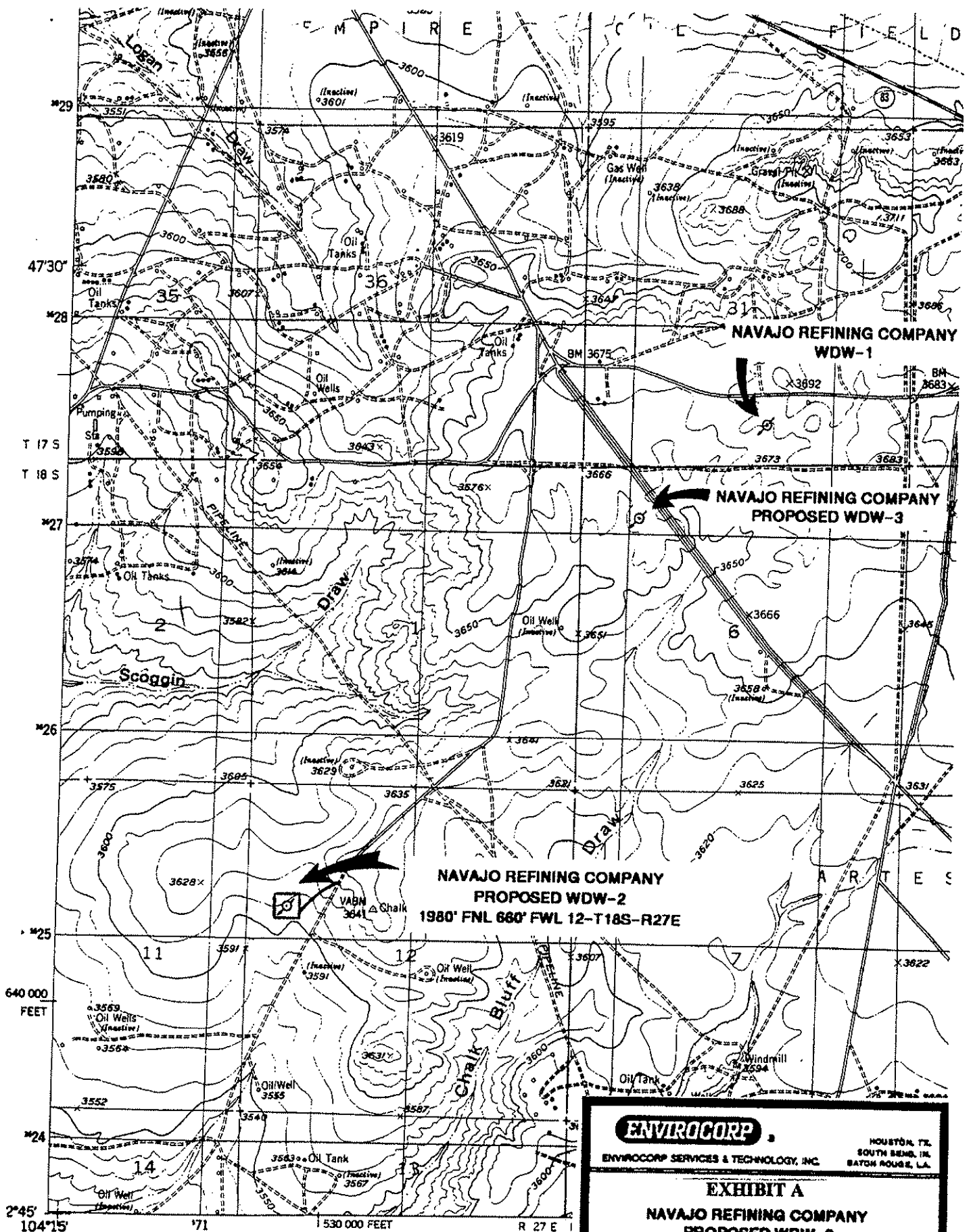
C. Testing must be done in a safe workman like manner. Hard line connections shall be required.





Map courtesy of Midland Map Company

<b>ENVIROCORP</b>		HOUSTON, TX. SOUTH BEND, IN. BATON ROUGE, LA.	
ENVIROCORP SERVICES & TECHNOLOGY, INC.			
<b>EXHIBIT B</b>			
<b>WELLS WITHIN 1 MILE OF</b>			
<b>NAVAJO REFINING COMPANY'S</b>			
<b>PROPOSED WDW-2</b>			
<b>1980' FNL, 660' FWL 12-T18S-R27E</b>			
DATE: 4/7/99	CHECKED BY:	JOB NO:	
DRAWN BY: NLN	APPROVED BY:	DWG. NO:	



RED LAKE QUADRANGLE

## **SURFACE USE PLAN**

**NAVAJO REFINING COMPANY  
PROPOSED WDW-2  
1980' FSL, 660' FWL of 12-T18S-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-2 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: Materials required for construction of the site will be taken from a state-owned pit.
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. Location of the trash pit is shown on Exhibit C.



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 wellsite will be surveyed, and a 400' x 400' area will be staked and flagged.
- B. The dimensions and relative location of the drill pad, mud pit, and trash pit, with respect to the wellbore, are shown on Exhibit C.
- C. Existing topsoil to a depth of 6 inches will be lifted and stockpiled at the northeastern (uphill) end of the well pad. The stockpiled topsoil will be located uphill to avoid mixing with subsurface materials.
- D. The well pad will be surfaced with material found in place.
- E. The pits for mud 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: An archaeological survey of the drill pad was submitted to the BLM on July 31, 1985, on behalf of Fred Pool Drilling Company. An archeological survey was conducted by Navajo Refining Company and 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
- C. Sketch of Well Pad

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

4/12/99

Signature

Darrell Moore

Name

Darrell Moore

Title

Env. Mgr. for Water & Waste

Navajo Refining Company

Company

### BOP Minimum Requirements

- a. 11-inch, 3000-psi working pressure double-hydraulic BOP.
- b. 11-inch, 3000-psi working pressure annular BOP.
- c. 3-inch, 3000-psi working pressure manual choke manifold.

A schematic of the BOP stack is included as Exhibit A.

8. Drill out the following cement plugs and conduct deviation surveys every 1000 feet or on trips:
  - a. 1912 feet to 2045 feet, 40 sacks
  - b. 3620 feet to 3720 feet, 50 sacks
  - c. 5456 feet to 5556 feet, 40 sacks
  - d. 7435 feet to 7535 feet, 50 sacks

### Estimated Tops of Geologic Formations

San Andres	2005'	Lower Wolfcamp	7270'
Yeso	4210'	Cisco	7645'
Abo	5506'	Canyon	8390'
Wolfcamp	6728'	Strawn	8894'

No fresh water or hydrocarbons are expected to be encountered.

### Expected Bottom-Hole Pressure and Hazards

The expected bottom-hole pressure is 3500 psia at the total depth of 9200 feet. The bottom-hole pressure was determined from the pressure measured in Navajo's WDW-1, or 2928 psia, at 7924 feet. Navajo's WDW-1 is completed in the same interval proposed for WDW-2 and is located 11,000 feet northeast of WDW-2 in 31-T17S-R28E. The average specific gravity of the fluid between 7924 feet and 9200 feet is expected to be 1.034, which is the specific gravity of the fluid swabbed from the interval between 8220 feet and 8476 feet in WDW-1. The expected bottom-hole pressure at 9200 feet in proposed WDW-2 is calculated below:

$$\begin{aligned}\text{BHP (9200 feet)} &= 2928 \text{ psia} + (9200 \text{ feet} - 7924 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.034 \\ &= 3500 \text{ psia}\end{aligned}$$

No abnormal pressures or temperatures or other hazards are expected while drilling or testing the well. Hydrogen sulfide monitoring equipment will be set up prior to swabbing operations.

9. Clean the well out to a depth of 9200 feet and circulate and condition the hole for logging. Make a wiper trip to the base of the 8-5/8 inch surface casing while strapping the drillpipe.
10. Conduct a formation microimager (FMI) survey with gamma ray from the well's total depth to 4000 feet. Continue the four-arm caliper survey to the 8-5/8 inch casing shoe. Process the FMI for fracture identification over the lower 200 feet of the confining zone and zones of interest in the injection zone, if warranted.
11. Spot a gelled pill at 9200 feet and lay down the drillpipe.
12. Run the 5-1/2 inch, 17-lb/ft, J-55, LT&C casing with a packoff shoe and float collar to 9200 feet. Install a "DV" tool at approximately 5800 feet. Run centralizers at approximately 120-foot intervals.
13. Cement the 5-1/2 inch casing in place. Use a minimum of 20% excess cement as calculated from the caliper log. Circulate cement to the surface and allow to cure.

#### Cement Program

- a. Stage 1 Cement (total depth to 5800 feet): Lightweight Class H with fly ash, gel, friction reducer, and salt mixed with fresh water.
  - b. Stage 2 Lead Cement (5200 feet to the surface): Lightweight Class C with gel and bridging agents mixed with fresh water.
  - c. Stage 2 Tail Cement (5800 feet to 5200 feet): Class C mixed with fresh water.
14. Clean out the mud pits and release the drilling rig 12 hours after cementing the 5-1/2 inch casing in place.
  15. Stabilize the 5-1/2 inch casing at the surface using ready-mix cement.

16. Move in and rig up the completion rig pump, tank, power swivel, and work string. Install the blowout preventer.
17. Run in the well with a 4-3/4 inch bit to the "DV" tool and test the casing to 1500 psig for 30 minutes.
18. Drill out the "DV" tool and clean out the wellbore to the float collar. Test the casing to 1500 psig for 30 minutes. Circulate the wellbore with clean brine, preceded by 15% HCL to clean the casing. Trip the work string out of the well.
19. Conduct the casing inspection, CBL/VDL, and differential temperature surveys.
20. Perforate the selected injection interval as determined from the open hole logs. Depending on the height of the perforated interval, the interval may be perforated in two stages, as Zone Nos. 1 and 2.
21. Run in the well with a packer and tailpipe. Set the packer above the top perforation and swab test the perforated interval. Recover at minimum two tubing volumes of the reservoir fluid for analysis (Note: Set up H<sub>2</sub>S monitoring equipment prior to swabbing operations).
22. Acidize the perforated zone (Zone 1) using diverters. Pull the packer out of the well.
23. Perforate the next selected injection interval (Zone 2) as determined from the open hole logs.
24. Run a retrievable bridge plug and packer into the well and isolate Zone 2.
25. Acidize Zone 2 using diverters. Pull the retrievable bridge plug and packer out of the well, laying down the work string.
26. Conduct an injection test down the 5-1/2 inch casing at 420 gpm for 12 hours, followed by a pressure falloff test.
27. Conduct a differential temperature survey and radioactive tracer survey to determine the injection profile.

28. Run the injection tubing and packer. Fill the annulus with corrosion inhibited brine.
29. Wait for the well system to come to thermal stabilization (approximately 24 hours).
30. Conduct an annulus pressure test witnessed by the OCD.
31. Rig down and move out all equipment and close the reserve pit.
32. Install the annulus monitoring system and return the well to the client.

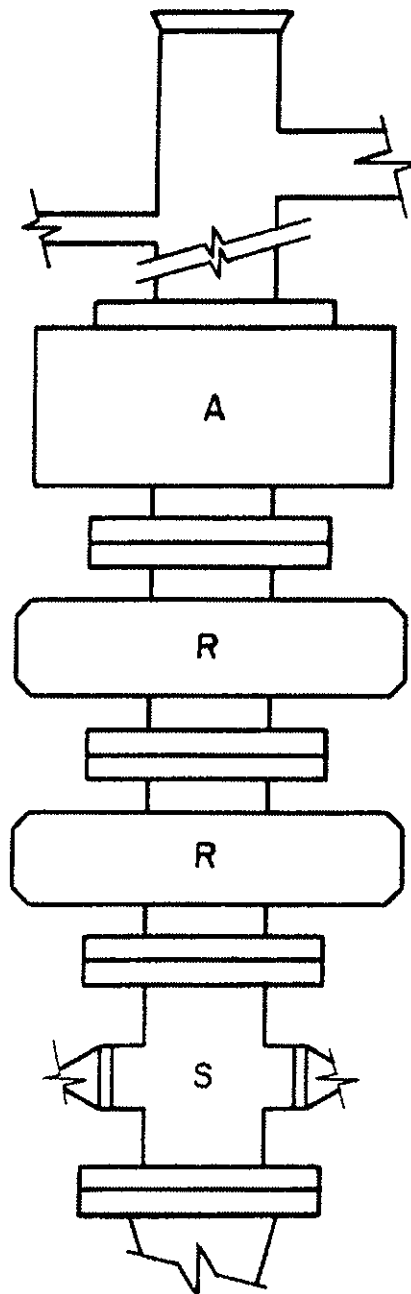
### **Logging, Testing, And Coring Program**

A formation fluid sample will be retrieved from the proposed injection zone in proposed WDW-2. Navajo will conduct injectivity testing in the injection zone of proposed WDW-2.

No coring is planned.

The proposed logging program is described below:

HOLE/CASING	OPEN-HOLE LOGS	CASED-HOLE LOGS
Proposed WDW-2		
11 inch Surface Borehole (8-5/8 inch Casing) 1995 feet		Logs Run in 1973: Gamma Ray  Logs Proposed on Reentry: Cement Bond/Variable Density Casing Inspection Log
7-7/8 inch Long-String Borehole (5-1/2 inch Casing) 9200 feet	Logs Run on August 27, 1973: Dual Induction-Laterolog/ Spontaneous Potential Compensated Neutron/ Formation Density Caliper Gamma Ray  Logs Proposed on Reentry: Fracture Identification Log 4-Arm Caliper	Logs Proposed on Reentry: Cement Bond/Variable Density Casing Inspection Log Differential Temperature Log Radioactive Tracer Survey



A = ANNULAR-TYPE BLOWOUT PREVENTER  
11-inch throughbore, 3000-psi working pressure

R = RAM-TYPE BLOWOUT PREVENTER  
11-inch throughbore, 3000-psi working pressure

S = DRILLING SPOOL WITH SIDE OUTLET CONNECTIONS  
FOR CHOKE AND KILL LINES

MANUAL CHOKE MANIFOLD  
3-inch throughbore, 3000-psi working pressure

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

<b>ENVIROCORP</b>		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
ENVIROCORP SERVICES & TECHNOLOGY, INC.		
<b>EXHIBIT A</b>		
<b>BLOWOUT PREVENTER STACK AND MINIMUM REQUIREMENTS</b>		
DATE: 4/7/98	CHECKED BY: JDB	JOB NO:
DRAWN BY: ALN	APPROVED BY:	DWG. NO:



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

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> Reenter		5. LEASE DESIGNATION AND SERIAL NO. NM 6852
B. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Class I Waste Disposal Well <input type="checkbox"/> SINGLE SOLE <input type="checkbox"/> MULTIPLE SOLE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Navajo Refining Company 15694		7. UNIT AGREEMENT NAME 23592
3. ADDRESS AND TELEPHONE NO. Post Office Box 159, Artesia, New Mexico 88210		8. FARMOR LEASE NAME, WELL NO. WDW-#2
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1980' FNL and 660' FWL Unit Letter At proposed prod. zone		9. ANY WELL NO. 30-015-20894
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 11 air miles east-southeast of Artesia		10. FIELD AND POOL, OR WILDCAT L. Wolfcamp-Cisco-Canyon Injection Zone
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any)		11. SEC., T., R., M., OR NE. AND SURVEY OR AREA 12-T18S-R27E
16. NO. OF ACRES ASSIGNED TO THIS WELL		12. COUNTY OR PARISH
17. NO. OF ACRES ASSIGNED TO THIS WELL		13. STATE Eddy NM
18. PROPOSED DEPTH 9200'		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3607' GR, 3623' KB		22. APPROX. DATE WORK WILL START* May 1, 1999

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	32 lb/ft	1995'	800 sx circulated
7-7/8"	5-1/2"	17 lb/ft	9200'	Caliper volume + 20% excess

Proposed reentry of the Eastland Oil Company (originally Fred Pool Drilling, Inc.) Chukka Federal No. 2 (PBD 1912 feet, September 10, 1985) formerly Amoco Production Company Diamond Federal Gas Com. No. 1 (OTD 10,372 feet, P&A August 31, 1973). The well currently produces oil and gas from perforations from 1446 feet to 1462 feet (Penrose).

Navajo will squeeze the perforations from 1446 feet to 1462 feet, drill out cement plugs and clean out the well to 9200 feet, set 5-1/2 inch casing at 9200 feet and cement to the surface, perforate porous intervals in the Lower Wolfcamp, Cisco, and Canyon Formations between 7270 feet and 9200 feet, and conduct injectivity tests.

Attached are the Well Location Plat, Drilling Program, and Surface Use Plan.

SUBJECT TO  
LIKE APPROVAL  
BY STATE AND RIGHT OF WAY

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS

\* ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed zone. If proposal is to drill or open directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give drilling program, if any.

SIGNED David M. Moore TITLE Env. Mgr. DATE 4/15/99  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
Application 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.  
CONDITIONS OF APPROVAL, IF ANY:

(ORIG. SGD.) DAVID R. GLASS

PETROLEUM ENGINEER

APR 27 1999

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

\*See Instructions On Reverse Side

District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
811 South First, Artesia, NM 88210

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

District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised March 17, 1999

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 30-015-20894		<sup>2</sup> Pool Code	<sup>3</sup> Pool Name Lower Wolfcamp-Cisco-Canyon Injection Zone
<sup>4</sup> Property Code	<sup>5</sup> Property Name WDW-2		<sup>6</sup> Well Number
<sup>7</sup> OGRID No.	<sup>8</sup> Operator Name Navajo Refining Company		<sup>9</sup> Elevation 3607' GR

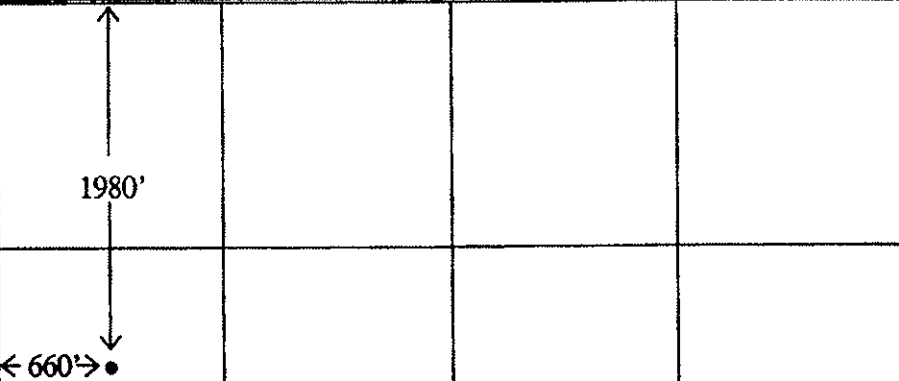
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	12	18S	27E		1980	North	660	West	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

	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Darrell Moore</i></p> <p>Signature <i>Darrell Moore</i></p> <p>Printed Name</p> <p>Title <i>Env. Mgr.</i></p> <p>Date <i>4/15/99</i></p>			
	<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>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.</p>			
	<p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>Well is active. Location was not re-surveyed by Navajo.</p>			
	<p>Certificate Number</p>			

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.

4/15/99  
Date

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

TELEPHONE  
(505) 748-3311

EASYLINK  
62905278



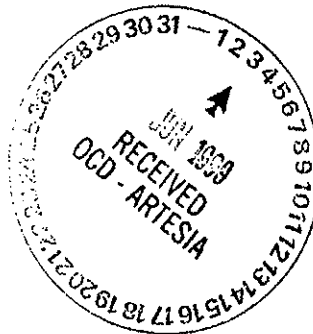
**N.M. Oil Cons. Division**  
**811 S. 1st Street**  
**ARTESIA, NEW MEXICO 88211-0159**  
**NAVJO REFINING COMPANY**

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159

FAX  
(505) 746-6410 ACCTG  
(505) 746-6155 EXEC  
(505) 748-9077 ENGR  
(505) 746-4438 P/L

May 10, 1999

Mr. Tim Gumm  
State of New Mexico  
Energy, Minerals and Natural  
Resources Department  
Oil Conservation Division  
811 South First Street  
Artesia, New Mexico 88210



RE: Re-Entry for Navajo Refining Company's Waste Disposal Well No. 2

Dear Mr. Gumm:

Navajo Refining Company (Navajo) has contracted Subsurface Technology, Inc. to re-enter, test and complete Waste Disposal Well No. 2 (WDW-2), formerly the Chukka Federal No. 2 operated by The Eastland Oil Company. The United States Department of the Interior, Bureau of Land Management approved the Application for Permit to Drill or Deepen on April 27, 1999. Subsequent approval from the State of New Mexico Oil Conservation Commission (OCD) was granted on Tuesday, May 4, 1999.

Navajo initiated field operations on Wednesday, May 5, 1999. The existing pumping equipment, rods, and tubing were removed from the wellbore. The perforations from 1446 feet to 1462 feet were squeezed using 100 sacks of Class 'H' cement (approximately 50 sacks of cement were displaced into the perforated interval). The cement was allowed to cure and drilled out to a total depth of 1922 feet (KB)(1911 feet below ground level).

On Sunday, May 9, 1999, the 8-5/8 inch surface casing, set from 1955 feet (KB) to surface, was pressure tested for internal mechanical integrity between 1922 feet (KB) and 30 feet (KB) using a packer set at 30 feet. The 8-5/8 inch surface casing was pressure tested to 660 pounds per square inch and monitored at the surface for one hour (Attachment A). The fluid used for testing was a clean fresh water fluid. A pressure loss of 1 psi (0.15%) was observed during the first 30 minutes of the test. A pressure loss of 2 psi (0.30%) was observed during the last 30 minutes of the test. The results from the pressure test confirmed internal mechanical integrity of the 8-5/8 inch surface casing from 1922 feet (KB) to 30 feet (KB).

The 8-5/8 inch surface casing was originally set in an 11 inch open-hole to a depth of 1955 feet (KB) and cemented to surface using 700 sacks of Class 'H' cement with 2% gel and 100 sacks of Class 'H' neat. A total of 200 sacks of cement was recorded circulated to surface. The calculated volume between an 11 inch hole and 8-5/8 inch casing is (0.2407 cubic feet per foot X 1955 feet) 471 cubic feet. The volume of cement pumped is (1.18 cubic feet per sack X 800 sacks) 944 cubic feet for an excess of 473 cubic feet or 400 sacks circulated to surface. The calculated volume of cement and apparent volume of actual cement pumped indicated excess cement was circulated to surface.

On Sunday, May 9, 1999, Halliburton Logging Services completed a cement bond and microseismogram (same as a variable density log) logging survey within the 8-5/8 inch casing from a wireline total depth of 1919 feet (KB) to the surface (Attachment B). The results from the survey indicate a continuous column of cement from 1922 feet to surface with good bonding characteristics. The cement behind the 8-5/8 inch casing will provide an effective hydraulic seal to prevent the movement of groundwater fluids into the underground source of drinking water with a base at 473 feet.

Please review and approve the pressure testing and cement bond log results at your earliest convenience. Navajo will proceed with the mobilization of the drilling rig Wednesday, May 12, 1999 and begin re-entry of the WDW-2 wellbore according to the approved drilling program. Navajo will periodically contact the OCD, Artesia office with a status update of the re-entry operations. The Bureau of Land Management will be notified in sufficient time for a representative to witness the cementing of the 5-1/2 inch protection casing.

Should you have any questions or concerns, please call me at (505) 748-3311.

Sincerely yours,



Darrell Moore  
Environmental Manager for Water and Waste

**APPROVED**

JUN 02 1999

c: Mr. David Glass  
Bureau of Land Management  
Roswell Field Office  
2909 West Second Street  
Roswell, New Mexico 88201

~~(ORIG. SGD.)~~ DAVID B. GLASS  
AUTHORIZED OFFICER, MINERALS  
BUREAU OF LAND MANAGEMENT

Mr. Brian Rogers  
Subsurface Technology, Inc.  
7020 Portwest, Suite 100  
Houston, Texas 77024

**SUBJECT TO  
LIKE APPROVAL  
BY STATE**

File: Injection Wells



# Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401  
Midland, Texas 79701

## RECEIVED

JUN 04 1999

June 2, 1999

SUBSURFACE TECHNOLOGY, INC.

Drilling Department  
Subsurface Construction Corporation  
7020 Port West, Ste 100  
Houston, TX 77024

RE: Inclination Report  
Navajo WDW-2  
Sec 12; T-18-S; R-27-E

Gentlemen:

The following is an inclination survey on the above referenced well located in Eddy County, New Mexico:

2898' - 0.25  
3838' - 0.25  
4783' - 0.50  
6106' - 0.75  
6633' - 0.50

Sincerely,

*Rebecca Edwards*

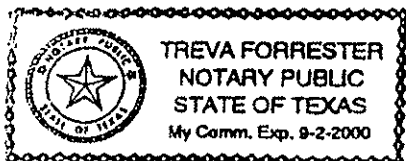
Rebecca A. Edwards  
Administrative Assistant

STATE OF TEXAS           )  
                                  )  
COUNTY OF MIDLAND    )

The foregoing was acknowledged before me this 2<sup>nd</sup> day of June, 1999 by Rebecca A. Edwards.

MY COMMISSION EXPIRES:

*Treva Forrester*  
\_\_\_\_\_  
NOTARY PUBLIC



# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or reamed well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

## Southeastern New Mexico

T. Anhy		T. Canyon	8390
T. Salt		T. Strawn	8894
B. Salt		T. Atoka	
T. Yates		T. Miss	
T. 7 Rivers		T. Devonian	
T. Queen		T. Silurian	
T. Grayburg		T. Montoya	
T. San Andres	2005	T. Simpson	
T. Glorieta		T. McKee	
T. Paddock		T. Ellenburger	
T. Blinebry		T. Gr. Wash	
T. Tubb		T. Delaware Sand	
T. Drinkard		T. Bone Springs	
T. Abo	5506	T.	
T. Wolfcamp	6728	T.	
T. Penn		T.	
T. Cisco (Bough C)	7645	T.	

## Northwestern New Mexico

T. Ojo Alamo	T. Penn. "B"
T. Kirtland-Fruitland	T. Penn. "C"
T. Pictured Cliffs	T. Penn. "D"
T. Cliff House	T. Leadville
T. Menefee	T. Madison
T. Point Lookout	T. Elbert
T. Mancos	T. McCracken
T. Gallup	T. Ignacio Otzte
Base Greenhorn	T. Granite
T. Dakota	T.
T. Morrison	T.
T. Todilto	T.
T. Entrada	T.
T. Wingate	T.
T. Chinle	T.
T. Permian	T.
T. Penn "A"	T.

## OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....  
' ' , from.....to.....

No. 3, from.....to.....  
No. 4, from.....to.....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....  
No. 2, from.....to.....feet.....  
No. 3, from.....to.....feet.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Submit To Appropriate District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
District I  
1625 N. French Dr., Hobbs, NM 87240  
District II  
833 South First, Artesia, NM 87210  
District III  
30 Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-105  
Revised March 25, 1999

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Federal Well

WELL API NO.

30-015-20894

5. Indicate Type of Lease

STATE ☐ FEE ☒ Federal

State Oil & Gas Lease No. NM 6852

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER ☐ Class I Waste Disposal Well

b. Type of Completion:

NEW ☐ WORK ☐ PLUG ☐ DIFF. ☐ RESVR. ☒ OTHER ☐ Re-completion

2. Name of Operator

Navajo Refining Company

3. Address of Operator

Post Office Box 159, Artesia, New Mexico 88211

4. Well Location

Unit Letter E 1980 Feet From The North Line and 660 Feet From The West Line

Section 12 Township 18 South Range 27 East NMPM Eddy County

10. Date Spudded

July 18, 1973

11. Date T.D. Reached

August 27, 1973

12. Date Compl. (Ready to Prod.)

June 8, 1999

13. Elevations (DF& R/B, RT, GR, etc.)

3607 feet GL, 3623 feet RKB

14. Elev. Casinghead

3609 feet GL

15. Total Depth

10,372 feet

16. Plug Back T.D.

8770 feet

17. If Multiple Compl. How Many

Zones? 1

18. Intervals

Drilled By

Rotary Tools

All

Cable Tools

N/A

19. Producing Interval(s), of this completion - Top, Bottom, Name

L. Wolfcamp-Cisco-Canyon

20. Was Directional Survey Made

Yes

21. Type Electric and Other Logs Run

Fracture Finder and Caliper Logs, Dual Induction Laterolog, Compensated Neutron Formation Density

22. Was Well Cored

No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	N/A	40'	N/A	N/A	None
8-5/8"	32	1995'	11"	800 sacks circulated	None
5-1/2"	17	8869'	7-7/8"	1570 sacks circulated	None

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
3-1/2"	7528'	7528'

26. Perforation record (interval, size, and number)

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7570' to 7620', 7676' to 7736', 7826' to 7834', 7858' to 7880', 7886' to 7904', 7916' to 7936', 7944' to 7964', 7990' to 8042', 8096' to 8116', 8191' to 8201', 8304' to 8319', 8395' to 8399' (2 jsf for total of 598 holes).	10,000 gallons of 15% HCl, plus 4600 pounds of rock salt as diverter

28. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
N/A		N/A				N/A	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
N/A	N/A	N/A		--	--	--	--
Flow 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.)

N/A

Test Witnessed By

30. List Attachments

Deviation Report

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 Darrell Moore

Printed Name

Darrell Moore Title Env Mgr.

Date 7/14/99



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division  
SUBMIT IN DUPLICATE  
811 S. 1st Street  
Artesia, NM 88210-2834  
(See other instructions for details)

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ DRY ☐ ☒ Other Class I Waste Disposal Well  
1b. TYPE OF COMPLETION: NEW WELL ☒ DEEPEN ☐ PLUG BACK ☐ DIFF-GENVR ☒ Other Reentry

2. NAME OF OPERATOR Navejo Refining Company  
3. ADDRESS AND TELEPHONE NO. Post Office Box 159, Artesia, New Mexico 88211

4. LOCATION OF WELL At surface 1980' FNL and 660' FWL Unit Letter E  
At top prod. interval reported below  
Same  
At total depth Same

14. PERMIT NO. WDW-2 15. DATE ISSUED April 27, 1999 12. COUNTY OR PARISH Eddy 13. STATE New Mexico

15. DATE SPUNDED 7-18-73 16. DATE T.D. REACHED 8-27-73 17. DATE COMP (Ready to prod.) 6-8-99 18. ELEVATIONS (OF, RKB, RT, GR, ETC.)\* 3607' GL; 3623' RKB 19. ELEV. CASING HEAD 3609' GL  
20. TOTAL DEPTH, MD & TVD 10,372' TVD 21. PLUG, BACK T.D., MD & TVD 8770' 22. IF MULTIPLE COMPL., HOW MANY\* 1 23. INTERVALS DRILLED BY All  
24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM NAME (MD AND TVD)\* L. Wolfcamp-Cisco-Canyon 25. WAS DIRECTIONAL SURVEY MADE? Yes  
26. TYPE ELECTRIC AND OTHER LOGS RUN Fracture Finder and Caliper Logs, Dual Induction Laterlog, Compensated Neutron, Formation Density 27. WAS WELL CORED? No

CASING RECORD (Report all strings set in well)					
PIPE SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8"	N/A	40'	N/A	Surface	None
8-5/8"	32	1995'	11	Surface, 800 sx C1H	None
5-1/2"	17	8869'	7-7/8"	Surface, 1570 sx C1H and C1C	None

LINER RECORD				TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
					3-1/2"	7528'
						7528'

PERFORATION RECORD (Interval, size and number)			ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7570'-7620', 7676'-7736', 7826'-7834'			7570' to 8399'	10,000 gallons 15% HCl, plus 4600 pounds of rock salt as diverter
7858'-7880', 7886'-7904', 7916'-7936'				
7944'-7964', 7990'-8042', 8096'-8116'				
8191'-8201', 8304'-8319', 8395'-8399'				
(2 ispf for total of 598 holes)				

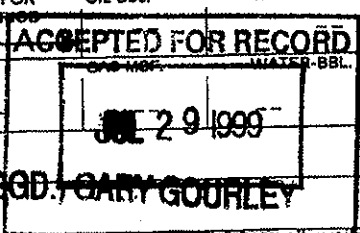
DATE FIRST PRODUCTION N/A PRODUCTION METHOD N/A (Flowing, gas lift, pumping-size and type of pump) WELL STATUS (Producing or shut-in) N/A

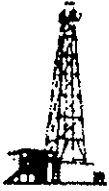
DATE OF TEST N/A HOURS TESTED N/A CHOKER SIZE N/A PRODN. FOR TEST PERIOD OIL-BBL. GAS-MCF. WATER-BBL. GAS-OIL RATIO  
FLOW, TUBING PRESS N/A CASING PRESSURE N/A 24-HOUR RATE CALCULATED OIL-BBL. GAS-MCF. WATER-BBL. OIL GRAVITY-API (CORE)  
TEST WITNESSED BY

34. DISPOSITION OF (Solid, used for fuel, vented, etc.) N/A  
35. LIST OF ATTACHMENTS Deviation Report  
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED David M. Mace TITLE Env. Mgr. DATE 7/19/99

(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





# Patterson Drilling Company

RECEIVED  
310 N. Loraine Street — (915) 682-9401  
Midland, Texas 79701

1999 JUL 21 A 10:23  
BUREAU OF LAND MGMT.  
WILDLAND RESOURCE AREA

RECEIVED

JUN 04 1999

June 2, 1999

SUBSURFACE TECHNOLOGY, INC.

Drilling Department  
Subsurface Construction Corporation  
7020 Port West, Ste 100  
Houston, TX 77024

RE: Inclination Report  
Navajo WDW-2  
Sec 12; T-18-S; R-27-E

Gentlemen:

The following is an inclination survey on the above referenced well located in Eddy County, New Mexico:

2898' - 0.25  
3838' - 0.25  
4783' - 0.50  
6106' - 0.75  
6633' - 0.50

Sincerely,

*Rebecca Edwards*

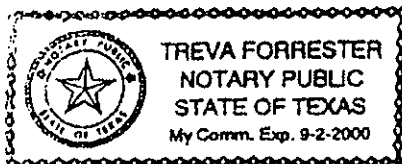
Rebecca A. Edwards  
Administrative Assistant

STATE OF TEXAS )  
COUNTY OF MIDLAND )

The foregoing was acknowledged before me this 2<sup>nd</sup> day of June, 1999 by Rebecca A. Edwards.

MY COMMISSION EXPIRES:

*Treva Forrester*  
NOTARY PUBLIC



TELEPHONE  
(505) 748-3311

EASYLINK  
62905278



## REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159  
ARTESIA, NEW MEXICO 88211-0159

FAX

(505) 746-6410 ACCTG  
(505) 746-6155 EXEC  
(505) 748-9077 ENGR  
(505) 746-4438 P / L

July 19, 1999

Mr. James Amos  
United States Department of the Interior  
Bureau of Land Management  
P.O. Box 1778  
Roswell, NM 88220

**RE: Well Completion Report for Navajo's WDW-2i in E-12-T18S, R27E**

Dear Mr. Amos,

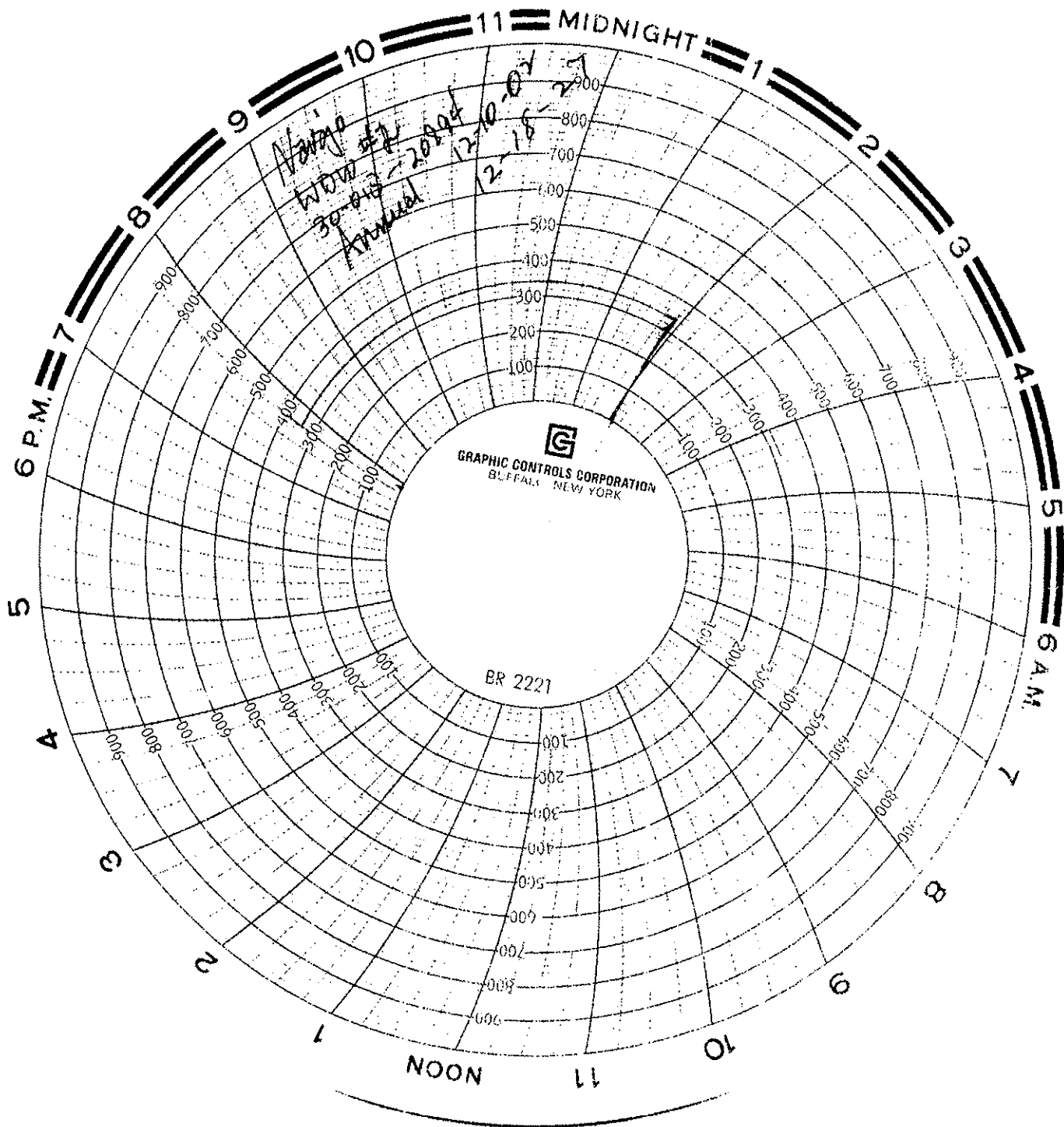
Enclosed, please find two (2) copies of form OMB Form 1004-0137 pertaining to our WDW-2 injection well. If there are any questions concerning this submission, please call me at 505-748-3311. Thank you for your time in this matter.

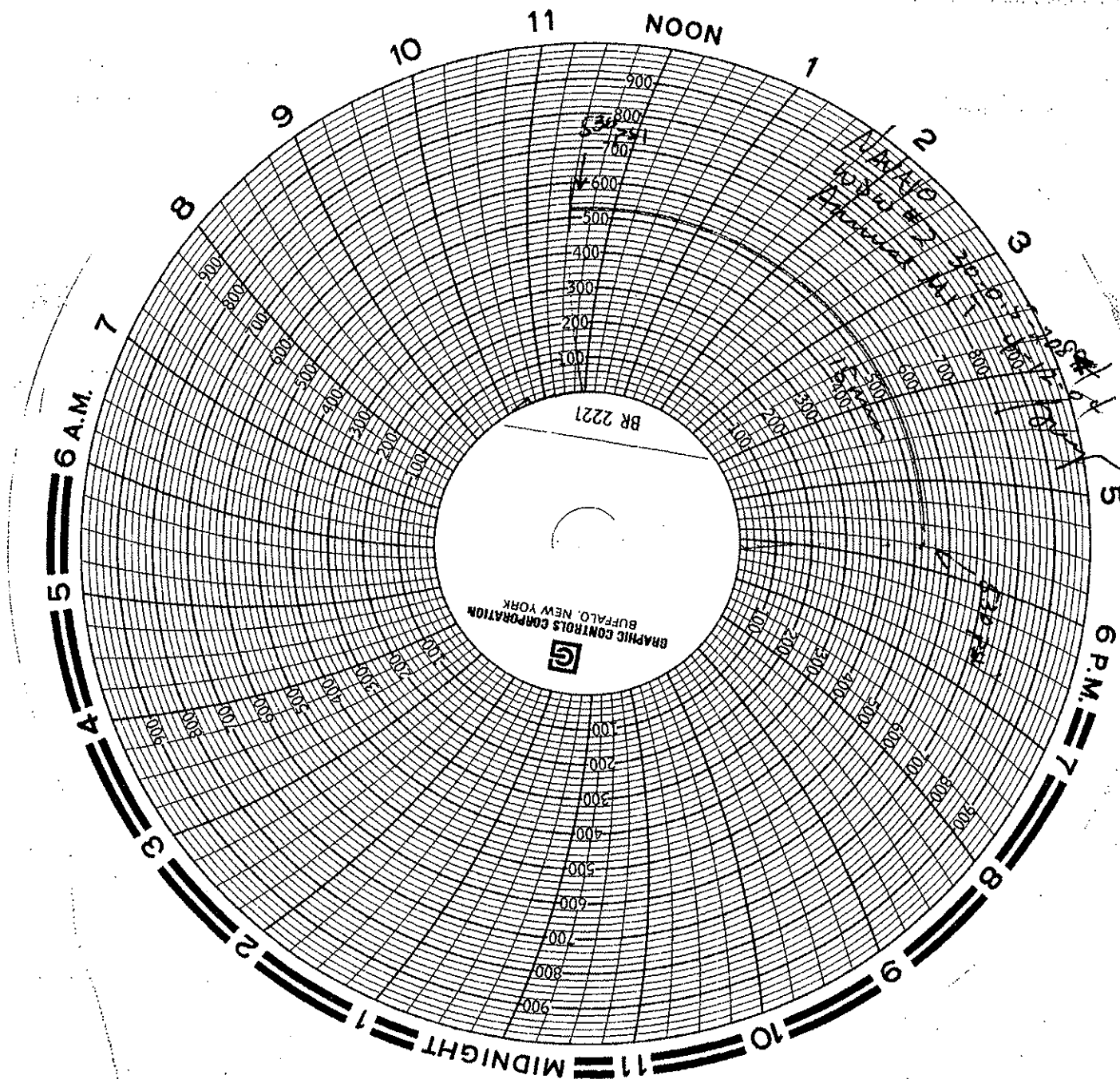
Sincerely,  
NAVAJO REFINING COMPANY

Darrell Moore  
Environmental Mgr. for Water and Waste

Encl.

RECEIVED  
1999 JUL 21 A 10:23  
BUREAU OF LAND MGMT  
LAND AND RESOURCE AREA

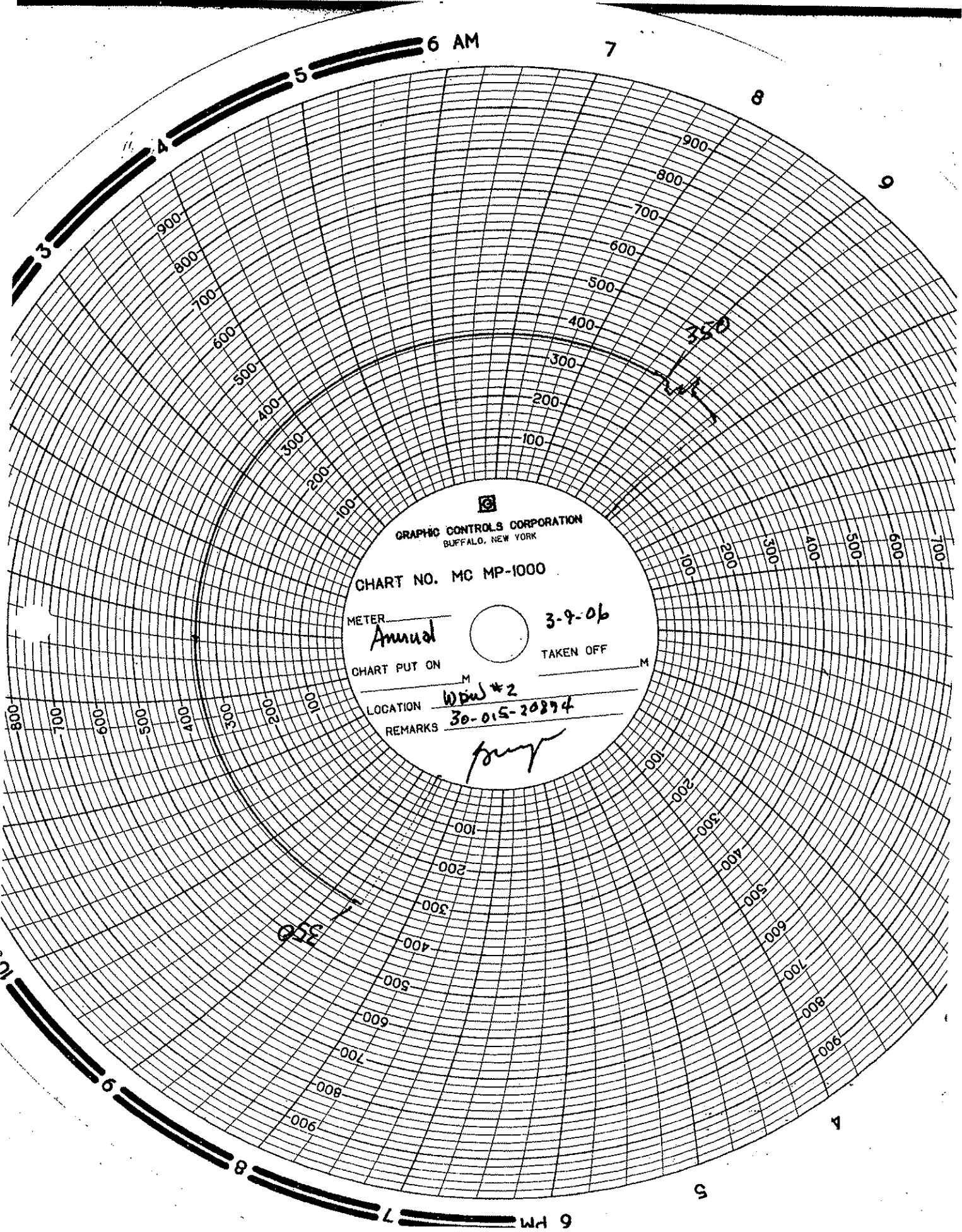




RECEIVED

APR 15 2004

00B-ARTESIA



GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO. MC MP-1000

METER

*Annual*

*3-9-06*

CHART PUT ON

TAKEN OFF

LOCATION

*W.D. #2*

REMARKS

*30-015-20874*

*Long*

## Chavez, Carl J, EMNRD

---

**From:** Chavez, Carl J, EMNRD  
**Sent:** Thursday, August 12, 2010 1:55 PM  
**To:** 'Moore, Darrell'; Dade, Randy, EMNRD  
**Cc:** Lackey, Johnny  
**Subject:** RE: Mechanical Integrity Tests

Darrell:

OCD confirms that the annual MITs performed on WDW-1 (UICI-8) and WDW-2 (UICI-8-1) passed.

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/oed/index.htm>  
(Pollution Prevention Guidance is under "Publications")

---

**From:** Moore, Darrell [<mailto:Darrell.Moore@hollycorp.com>]  
**Sent:** Thursday, August 12, 2010 10:39 AM  
**To:** Chavez, Carl J, EMNRD; Dade, Randy, EMNRD  
**Cc:** Lackey, Johnny  
**Subject:** MIT's

Carl

Attached, please find the charts for the MIT's that were performed on our Injection wells WDW-1 and WDW-2 today. Both wells passed the Mechanical Integrity Tests with no drop off in pressure. As you know, the MIT on WDW-3 was performed earlier in the year and was submitted to OCD. In addition, there was no pressure on either of the well's bradenhead. If there are any questions concerning this submission, please call me or email me. Thank you.

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

### CONFIDENTIAL

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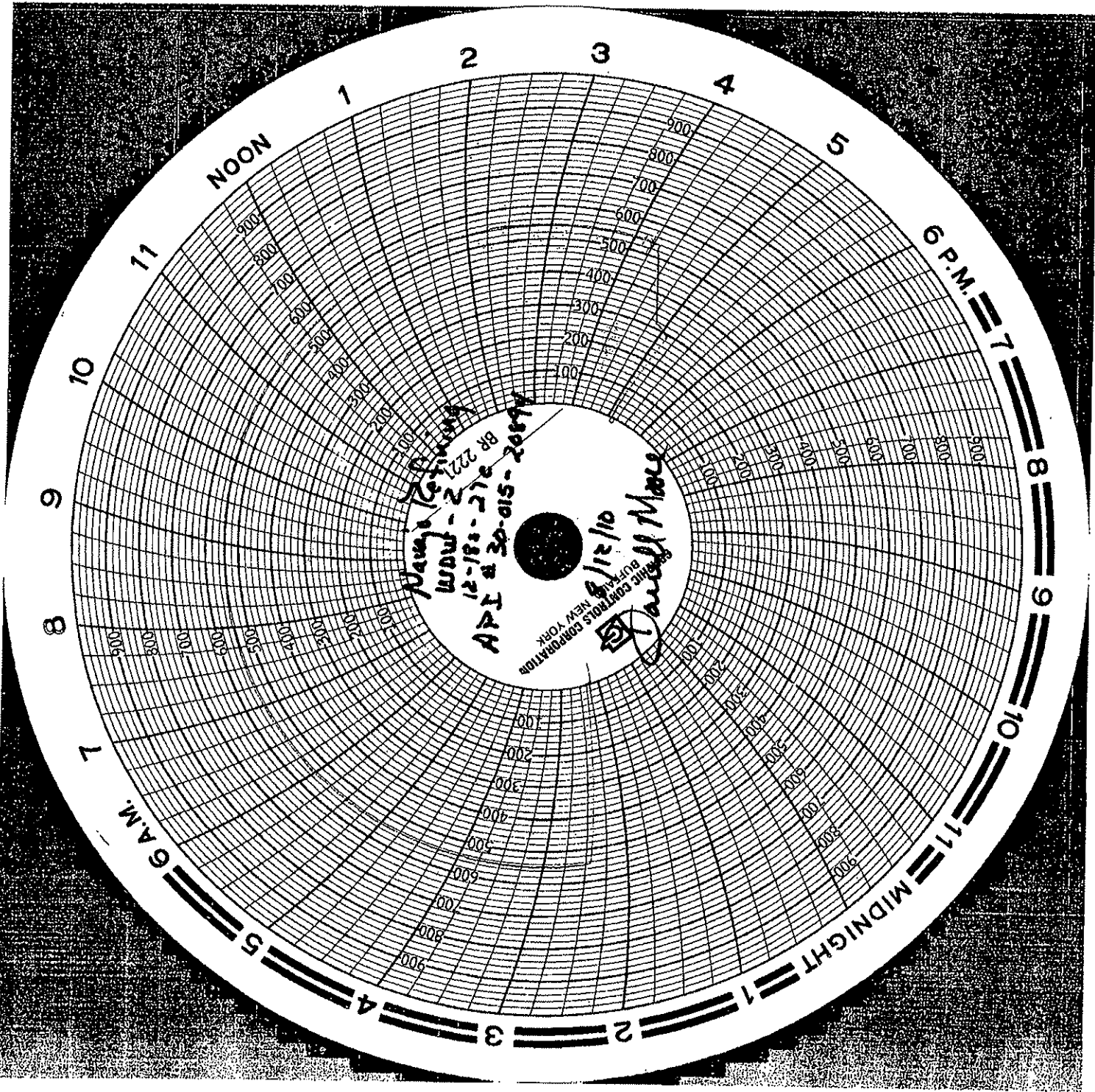
Please consider the environment before printing this e-mail.

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Submit 1 Copy To Appropriate District  
Office  
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>30-015-20894</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>6852</b>
3. Address of Operator <b>Post Office Box 159, Artesia, New Mexico 88211</b>		7. Lease Name or Unit Agreement Name <b>Chukka WDW-2</b>
4. Well Location Unit Letter <b>E</b> : <b>1980</b> feet from the <b>North</b> line and <b>660</b> feet from the <b>West</b> line Section <b>12</b> Township <b>18S</b> Range <b>27E</b> NMPM County <b>Eddy</b>		8. Well Number <b>WDW-2</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3607' GL, 3623' RKB</b>		9. OGRID Number
		10. Pool name or Wildcat: <b>Navajo Permo-Penn 96918</b>

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 ☐

OTHER: PERFORM PRESSURE FALLOFF TEST, ANNULUS  
PRESSURE TEST

☒

SUBSEQUENT REPORT OF:

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

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.

October 17, 2011 - Perform an annulus pressure test with an initial pressure of 600 psig and run the test for 30 minutes. Install bottomhole gauges into WDW-1, WDW-2, and WDW-3 by 11:45am. Continue injection into all three wells.

October 18, 2011 - Continue injection into all three wells.

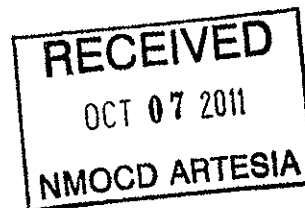
October 19, 2011 - At 12:15pm, the offset wells WDW-1 and WDW-3 will be shut-in. A constant injection rate will be established for WDW-2 and continue for a 30 hour injection period. Do not exceed 1000 psig wellhead pressure.

October 20, 2011 - At 7:00pm, WDW-2 will be shut in for a 30-hour falloff period. WDW-1 and WDW-3 will remain shut-in.

October 21, 2011 - All three wells will continue to be shut in while monitoring falloff pressure in all three wells.

October 22, 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 the WDW-2 every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Run in hole with a temperature tool and conduct temperature survey from the surface to the top of the fill. Turn the wells back to Navajo personnel.

*RDade 10/11/11*  
Accepted for record  
NMOCD



Spud Date:

Rig Release Date:

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

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

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

Submit 1 Copy To Appropriate District  
Office  
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811 S. First St., Artesia, NM 88210  
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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

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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>6852</b>
3. Address of Operator <b>Post Office Box 159, Artesia, New Mexico 88211</b>		7. Lease Name or Unit Agreement Name <b>Chukka WDW-2</b>
4. Well Location Unit Letter <b>E</b> : <b>1980</b> feet from the <b>North</b> line and <b>660</b> feet from the <b>West</b> line Section <b>12</b> Township <b>18S</b> Range <b>27E</b> NMPM County <b>Eddy</b>		8. Well Number <b>WDW-2</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3607' GL, 3623' RKB</b>		9. OGRID Number
		10. Pool name or Wildcat: <b>Navajo Permo-Penn 96918</b>

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 ☐

OTHER: PERFORM PRESSURE FALLOFF TEST, ANNULUS  
PRESSURE TEST

☒

SUBSEQUENT REPORT OF:

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

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.

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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. Chavez TITLE Environmental Engineer DATE 10/19/2011  
Conditions of Approval (if any): See E-mail conditions dated 10/19/2011 attached to WOW-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>)

**SUBSURFACE**

NAVAJO REFINING COMPANY, L.L.C.

Map ID No. 95

Artificial Penetration Review

OPERATOR Apache Corp.LEASE Federal TWELL NUMBER 001DRILLED 9/13/90PLUGGED NASTATUS ActiveLOCATION Sec. 12 -T18S-R27EMUD FILLED BOREHOLE NATOP INJECTION ZONE -3731'API NO. 30-015-26404

REMARKS:



**MAP ID NO. 95**

**APACHE CORPORATION  
FEDERAL T NO. 001**

**API NO. 30-015-26404**

NC Tops DCM 2/10/91

---

Queen	1219
Grayburg	1712
San Andres	2063
Glorieta	3680
Abo	
Wolfcamp	
Penn	8160
Strawn	1110
Atoka	9520
Morrow	9765

Ogrod 14744  
prop - 7895

pool - 78890 - N. Allinor Camp Macao

1920410-0  
1920430-6  
1920450-W

Confidential  
2-14-91

Cem Bond Log  
6006-8090

Dual Anal.  
2583-9170

Dual Lat  
9480-10126

Dual spaced section  
2015-2135

Dual spaced section  
8800-10141

NSL-2785  
5-3-90

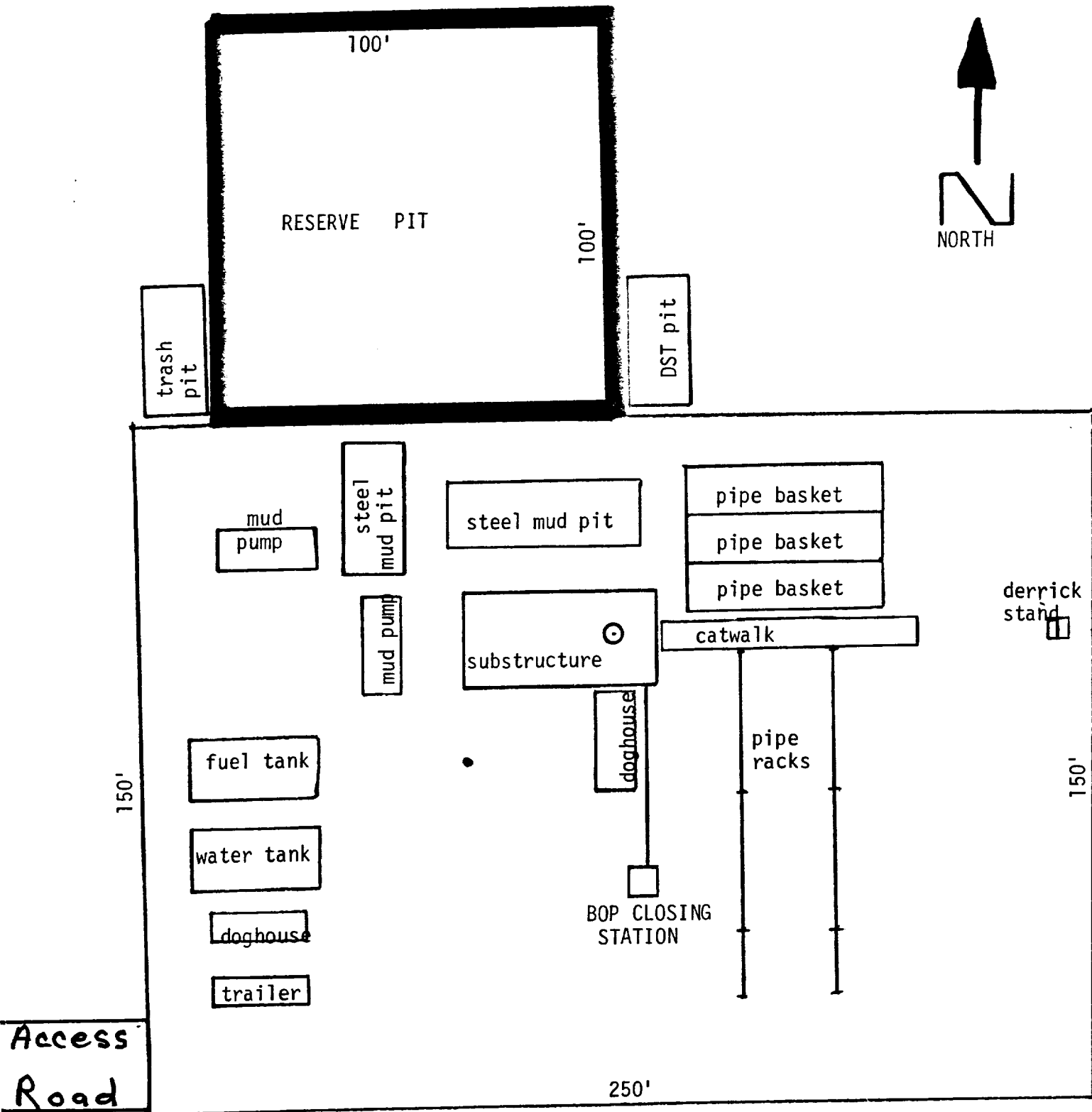


EXHIBIT "C"

MEWBOURNE OIL COMPANY  
 FEDERAL "T" # 1  
 LEASE # NM-42410  
 990' FEL & 660' FNL  
 SEC. 12-T18S-R27E  
 EDDY COUNTY, NEW MEXICO

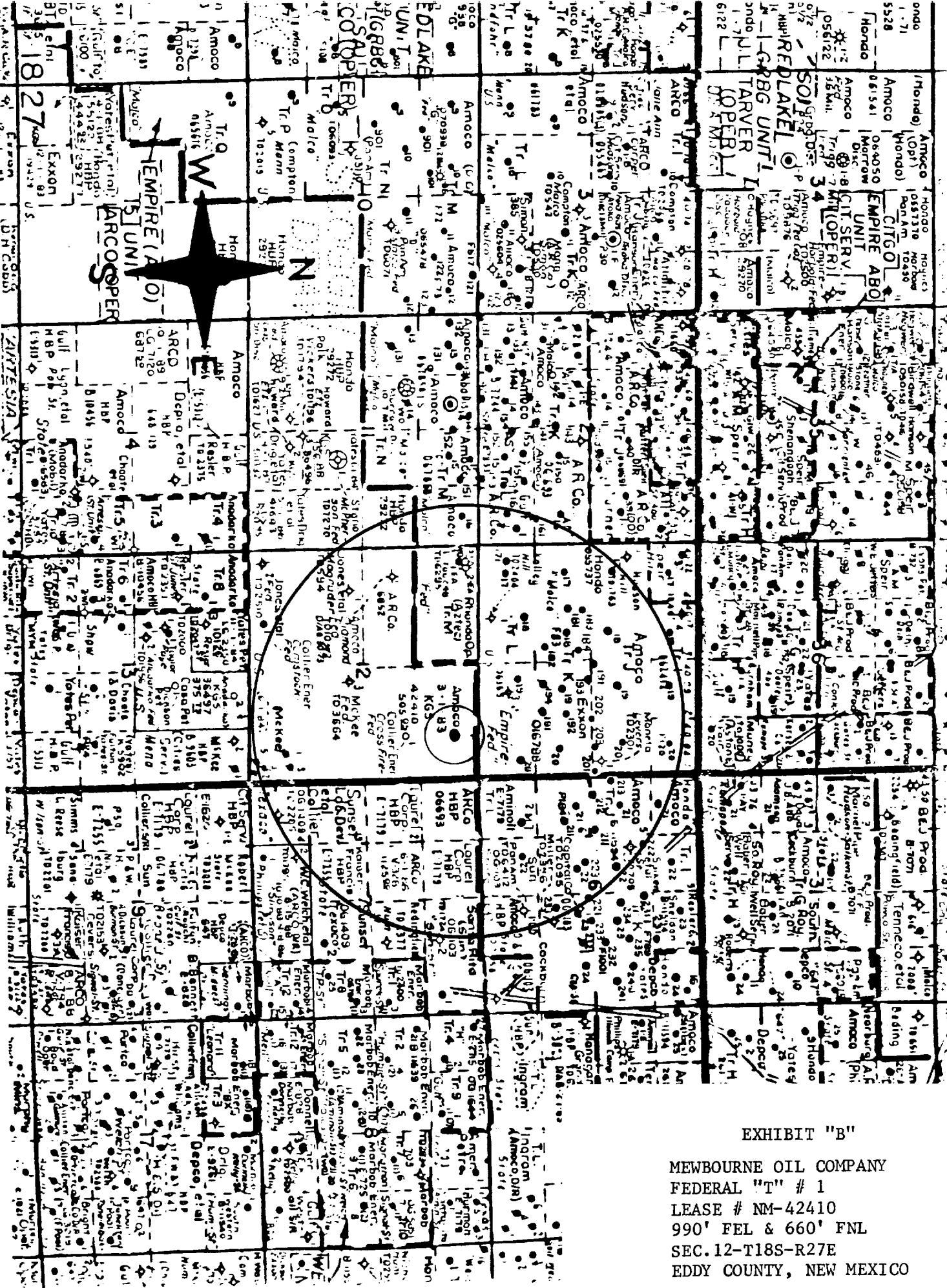


EXHIBIT "B"

MEWBOURNE OIL COMPANY  
FEDERAL "T" # 1  
LEASE # NM-42410  
990' FEL & 660' FNL  
SEC. 12-T18S-R27E  
EDDY COUNTY, NEW MEXICO

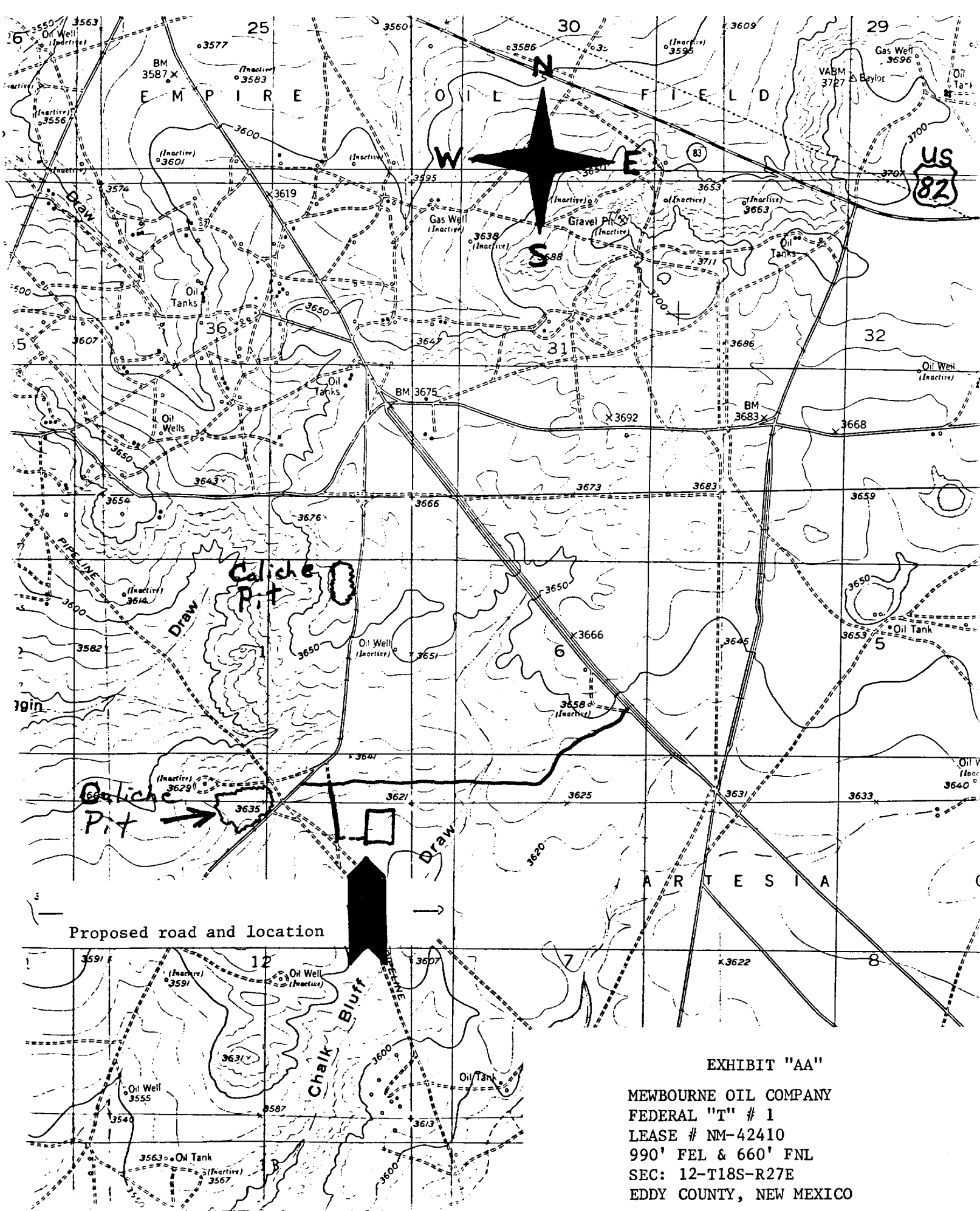


EXHIBIT "AA"

MEWBOURNE OIL COMPANY  
 FEDERAL "T" # 1  
 LEASE # NM-42410  
 990' FEL & 660' FNL  
 SEC: 12-T18S-R27E  
 EDDY COUNTY, NEW MEXICO

Existing Roads

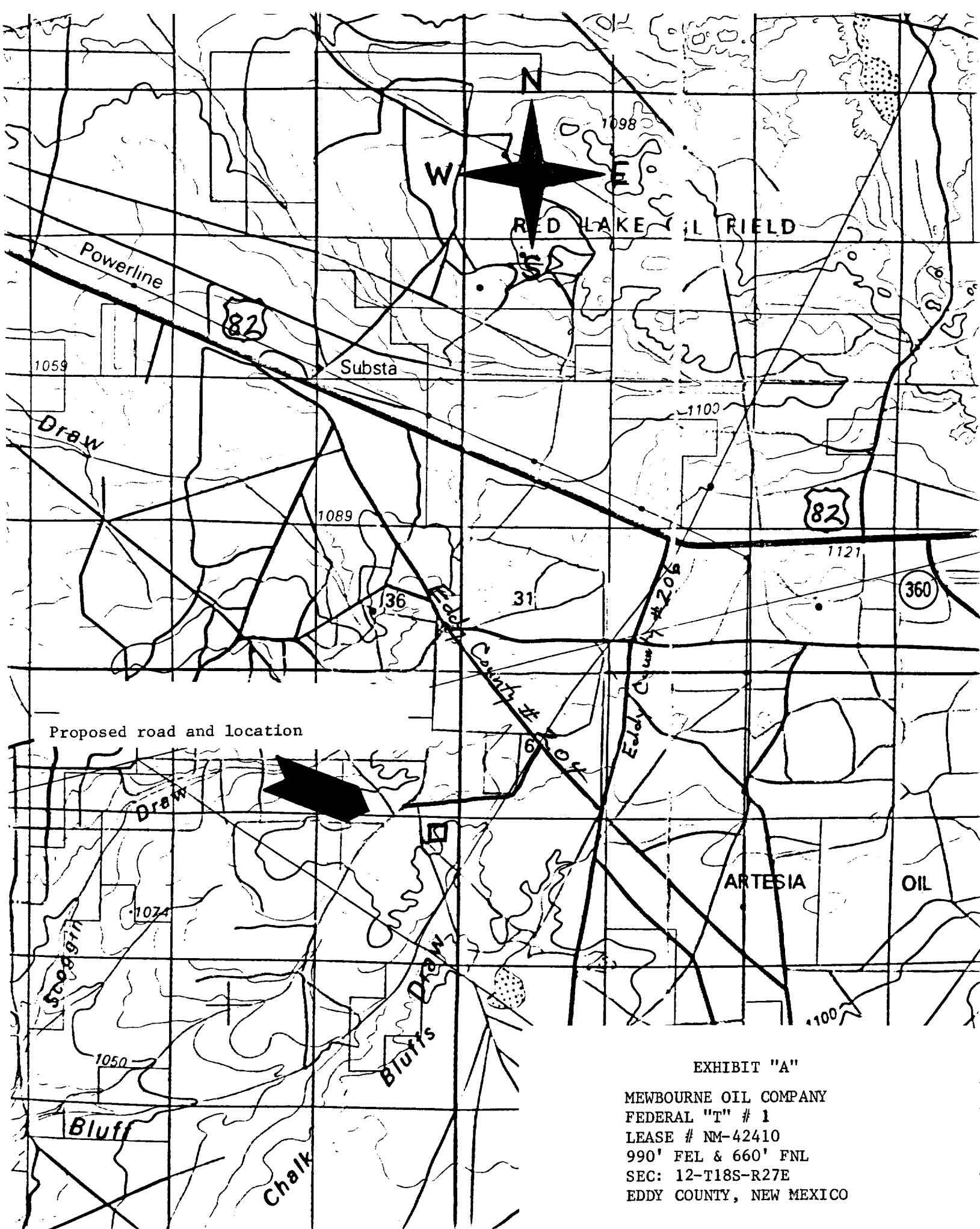


EXHIBIT "A"

MEWBOURNE OIL COMPANY  
FEDERAL "T" # 1  
LEASE # NM-42410  
990' FEL & 660' FNL  
SEC: 12-T18S-R27E  
EDDY COUNTY, NEW MEXICO



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

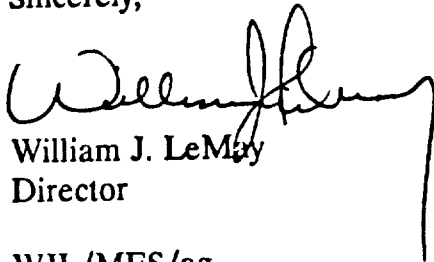
*Administrative Order NSL-2785*

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



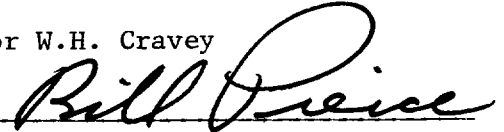
12. CERTIFICATION:

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:

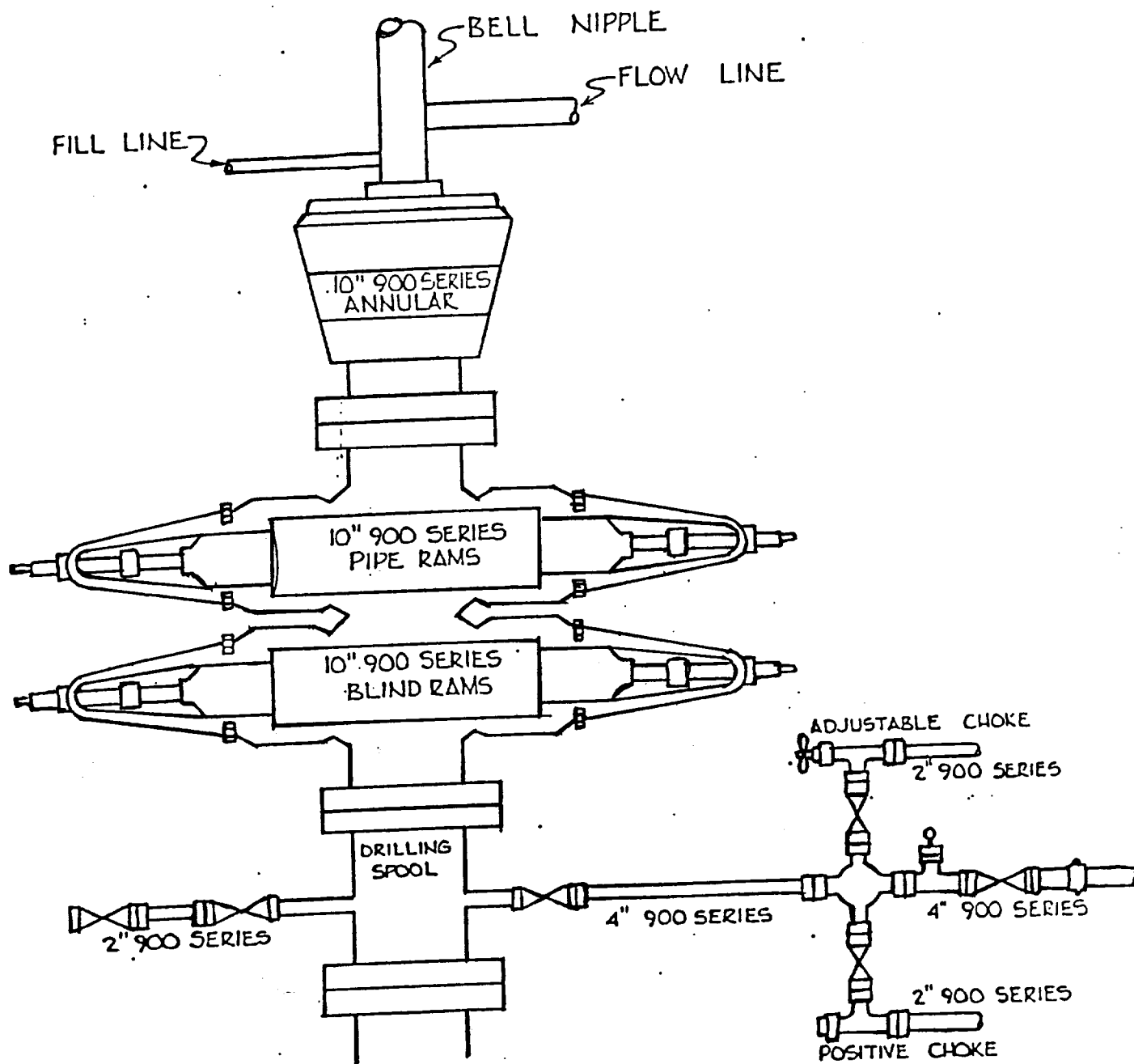
- A. Existing wells in a 1 mile radius are shown of Exhibit "B".

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

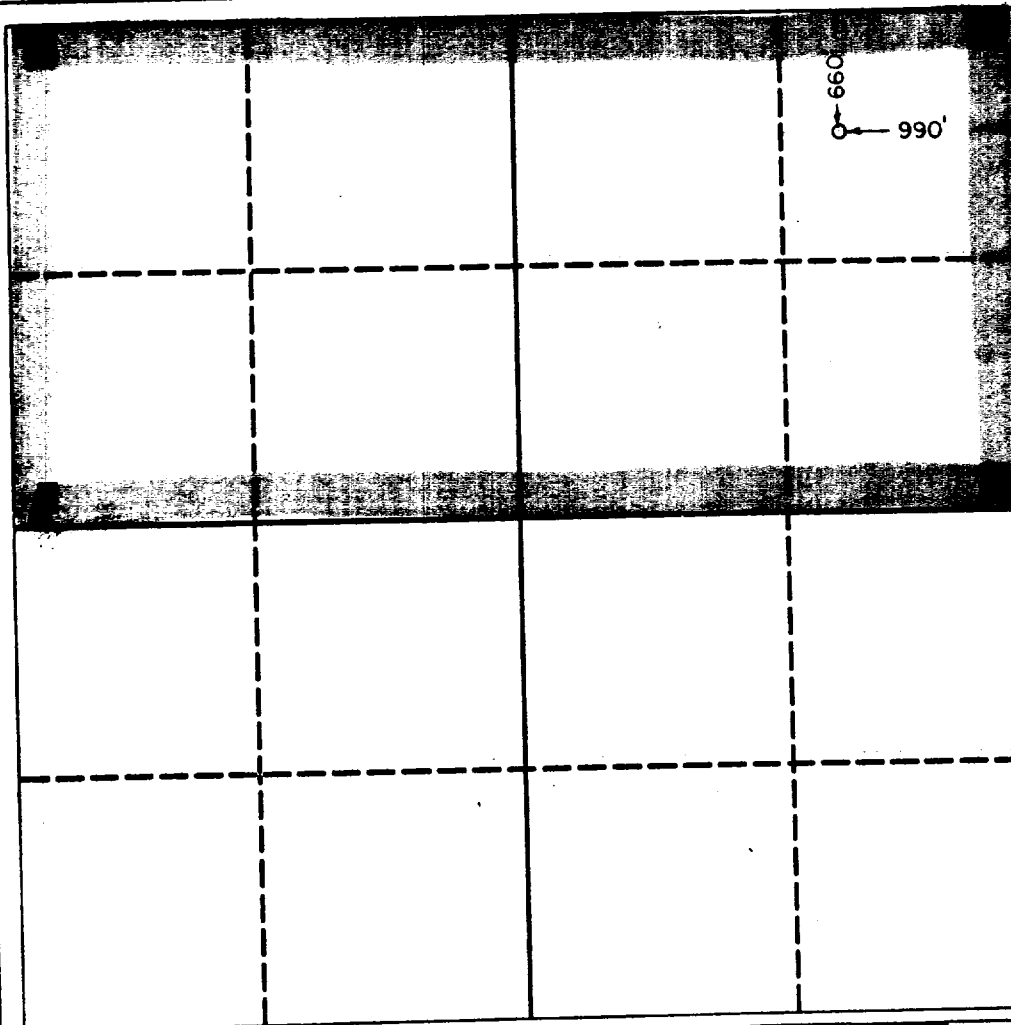
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

## 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

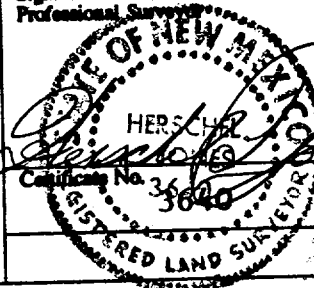
### SURVEYOR CERTIFICATION

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 - Plug 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

*Bill Pierce*

TITLE District Superintendent

DATE 5/18/90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Orig. Signed by Richard L. Adams

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

NSL-2785

Appr. 5-3-90

\*See Instructions On Reverse Side

## 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 plate, 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 reverse 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

*At*

JUL 1 1990

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

CARLSBAD, NEW MEXICO

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 reverse 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 AREA

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 ☐ 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' GR

UNIT AGREEMENT NAME

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 AREA

12-18S-27E

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:

TEST WATER SHUT-OFF

FRAC TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRAC 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.)

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

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



**DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS**

KEN REYNOLDS—PRESIDENT  
ARNIE NEWKIRK—VICE-PRESIDENT

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 SPUDDED 6/28/90		16. DATE T.D. REACHED 8/25/90		17. DATE COMPL. (Ready to prod.) 9/13/90		18. ELEVATIONS (DF, HKB, 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									
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									
28. CASING RECORD (Report all strings set in well)															
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		ROLE 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					
29. LINER RECORD								30. 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) 10,038-054', 36 holes) 24'								DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
								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#		CASING 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 (Sold, 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 <i>Raymond Thompson</i>				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	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'	
				Tubb	4824'	
DST #1				Abo	6016'	
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.	Wolfcamp	6716'	
				Cisco	7682'	
				Strawn	8912'	
DST #2	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'	
Abo				Morrow	9628'	
				Morrow	9828'	
				Clastics		
				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 APARTESIA 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 State, Federal or <del>Lease</del> <input checked="" type="checkbox"/>	Lease No. NM-42410
Location Unit Letter <u>A</u> : <u>660</u> Feet From The <u>North</u> Line and <u>990</u> Feet From The <u>East</u> Line Section <u>12</u> Township <u>18S</u> Range <u>27E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> 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: <u>No</u>						

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.) <u>Post ID-2</u>	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size <u>3-15-96</u>
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF <u>comp &amp; RKB</u>

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  
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 M. H. Walker  
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.

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

RECEIVED

Form C-122  
Revised 10-1-78

## 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	
Pool North Illinois Comp Morrow		Formation Morrow	
Completion Date 09-13-90		Total Depth 10141	Plug Back TD 10100
Elevation 3634 KB		Farm or Lease Name Federal T	
Cas. Size 4"	Wt. 10.46	Set At 10141	Perforations: From 10008 To 10054
Thq. Size 2 3/8	Wt. 4.7	Set At 9842	Perforations: From OPEN To END
Type Well - Single - Brownhead - 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
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>g</sub>	Z	Gas Liquid Hydrocarbon Ratio 61.2 Mcf/bbl.
1.	.12	516	1.38	.981	A.P.I. Gravity of Liquid Hydrocarbons 58.0 @ 60° Deg.
2.	.26	510	1.37	.962	Specific Gravity Separator Gas .656
3.	.28	507	1.36	.959	Specific Gravity Flowing Fluid XXXXX
4.	.46	514	1.38	.932	Critical Pressure *678 P.S.I.A.
5.					Critical Temperature *372 °R

P <sub>c</sub> 2817.3	P <sub>c</sub> <sup>2</sup> 7937.2	(1) $\frac{P_c^2}{P_r^2 - R_r^2} = 1.561$	(2) $\left[ \frac{P_c^2}{P_r^2 - R_r^2} \right]^n = 1.521$
NO	P <sub>r</sub> <sup>2</sup>	P <sub>w</sub> <sup>2</sup>	R <sub>r</sub> <sup>2</sup>
1	2696.2	7269.5	667.7
2	2555.8	6532.1	1405.1
3	2173.1	4722.4	3214.8
4	1689.2	2853.4	5083.8
5			

AOF = Q  $\left[ \frac{P_c^2}{P_r^2 - R_r^2} \right]^n = 2.724$

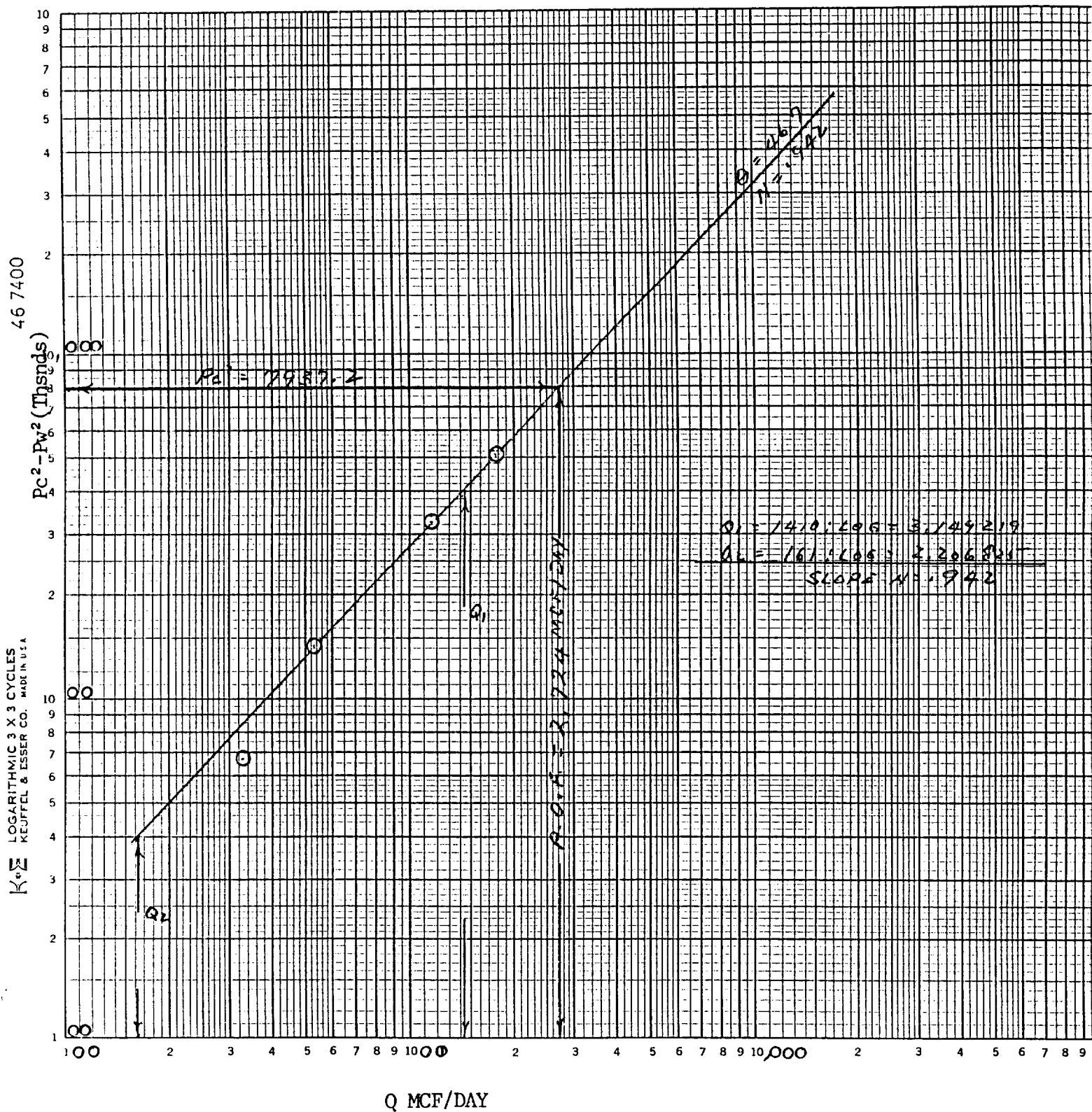
Absolute Open Flow 2,724	Mscf @ 15.025	Angle of Slope 46.7	Slope, n .942
-----------------------------	---------------	------------------------	------------------

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



## OIL CONSERVATION DIVISION

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

### REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

#### I.

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, Federal or</del> <input checked="" type="checkbox"/>	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"/> 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? Yes	When? 02/07/91
If this production is commingled with that from any other lease or pool, give commingling order number: No						

#### IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
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

- Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- All sections of this form must be filled out for allowable on new and recompleted wells.
- Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 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

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

Re: Wells placed in pool

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 No. 1004-010  
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

C.T.D.

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.

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

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

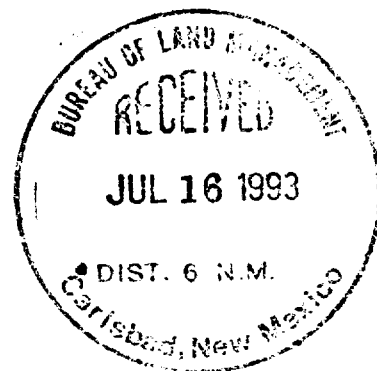
TYPE OF ACTION

- ☐ 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

Conditions of approval, if any:

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

\*See Instruction on Reverse Side

RECEIVED

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, 1993SEP 10 1993  
SUNDRY NOTICES AND REPORTS ON WELLSDo 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 - 6 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

## 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 Morrow

## 11. County or Parish, State

Eddy Co. New Mexico

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

## TYPE OF SUBMISSION

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

## TYPE OF ACTION

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

Title

Conditions of approval, if any:

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

## 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

## 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
- 
- ☒
- 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.)\*

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

*Blair Thurman*

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

Operator MEWBOURNE OIL COMPANY		Well API No. 30-015-26404
Address P.O. BOX 5270, HOBBS, NM 88241		
Reason(s) for Filing (Check proper box) New Well <input 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 checked="" 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, MONAR, WOLF CAMP	Kind of Lease State, Federal or Fee	Lease No. NM-42410
Location Unit Letter <u>A</u> : 660' Feet From The <u>FNL</u> Line and 990' Feet From The <u>FEL</u> 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 <u>AMO</u>	<input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)				
Name of Authorized Transporter of Casinghead Gas GPM GAS CORPORATION	<input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) BARTLESVILLE, OKLAHOMA 74004				
If well produces oil or liquids, give location of tanks.	Unit 12	Sec. 18S	Twp. 27E	Rge. YES	Is gas actually connected? YES	When? 8-1-93

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
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  
JAY PRUDHOMME  
Printed Name  
SEPT. 28, 1993  
Date  
PRODUCTION ENGINEER  
Title  
(505) 393-5905  
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. 100-0131  
Drawer DD  
Artesia, NM 88210

FORM APPROVED  
Exempt From No. 100-0131  
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

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 & 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.

SEP 21 11 39 AM '93

RECEIVED

Approved For 12 Month Period

Ending 8/27/94

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

Signed

*Frank Korman*

Title Production Engineer

Date 09/21/93

(This space for Federal or State office use)

Approved by

*Gregory J. [Signature]*

Title

Petroleum Engineer

Date

10/18/93

Conditions of approval, if any:

# 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. 498331NO

## 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

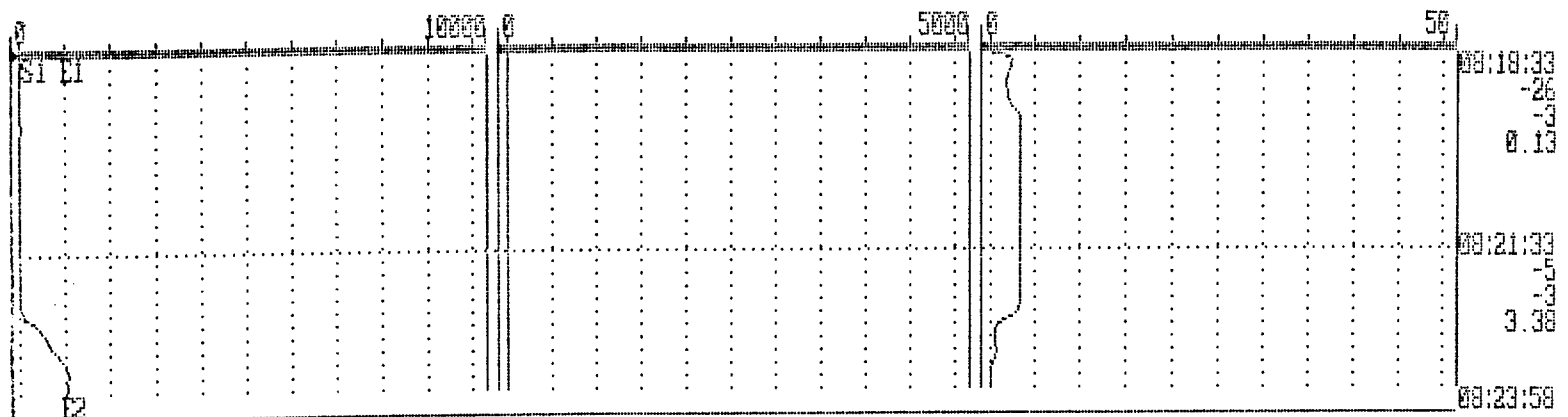
新新新新新新新新新新新新新新新新新新新新新新

1. Tubing Press (psi)
2. Annulus Press (psi)
3. Clean Rate (bpm)

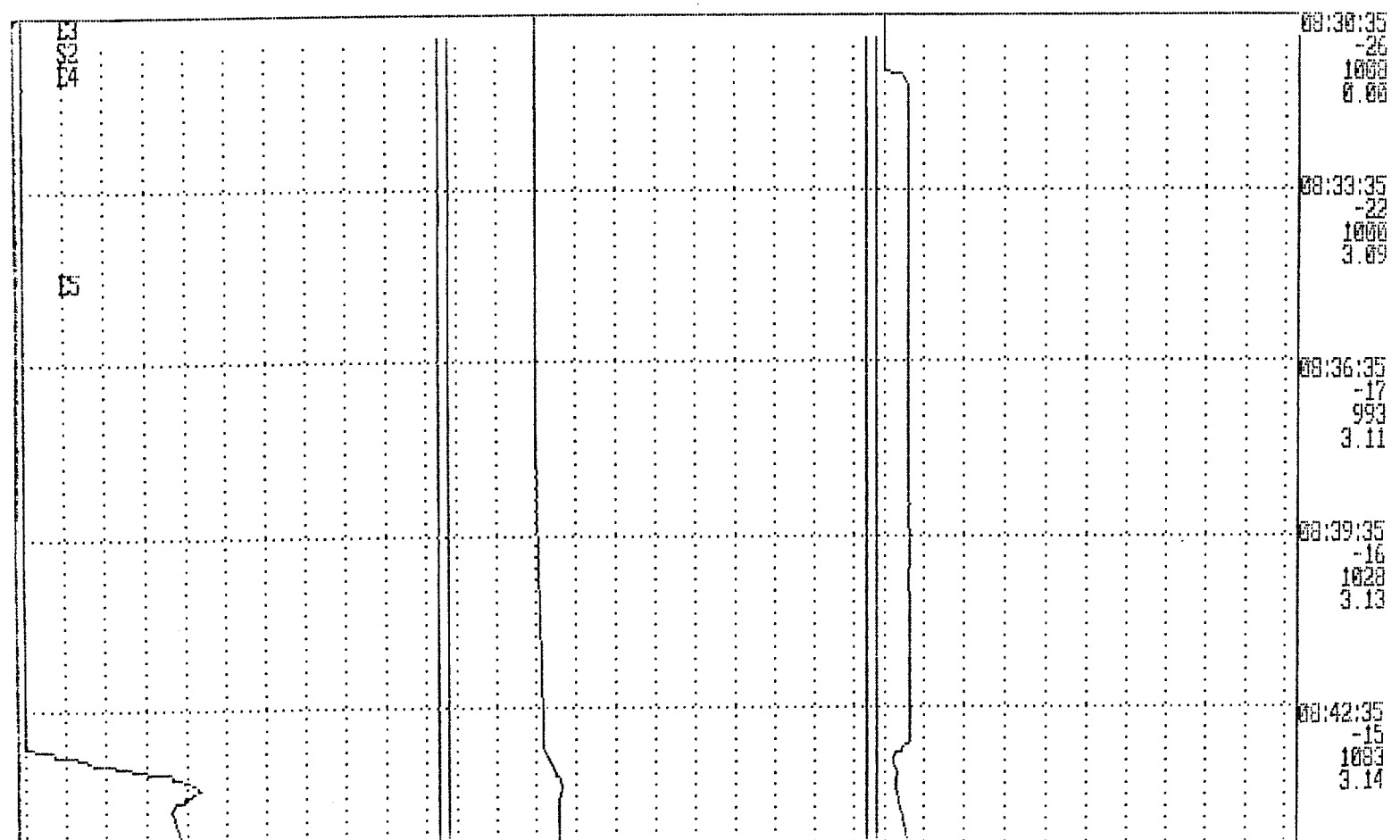
TUBING PRESS  
psi

ANNULUS PRESS  
Psi

CLEAN RATE  
6pm



PAUSE



E7

E8

S3

E9

E10

E11

E12

E13

E14

E15

E16

08:48:35  
4135  
1260  
3.52

08:51:35  
3839  
1225  
3.59

50 08:54:35  
3713  
1210  
3.62

08:57:35  
3725  
1167  
4.05

09:00:35  
3676  
1103  
4.05

09:03:35  
3766  
1051  
4.03

09:06:35  
3637  
990  
0.00

09:09:35  
2946  
978  
0.00

09:12:35  
2879  
969  
0.00

09:15:35  
2822  
963  
0.00



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

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.

**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

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 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

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 Allotment 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.

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 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

NOV 27 9 50 AM '96

RECEIVED

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 Order No. 1004-0135  
Expires: March 31, 1993

C/S 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

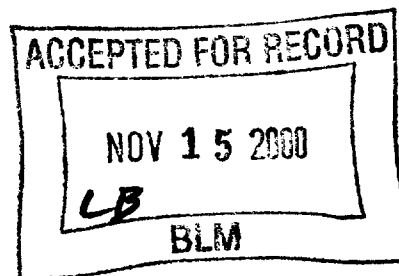
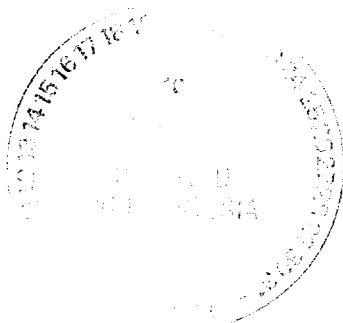
- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other MIT.

- ☐ 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

*Remed 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

CISE

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

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 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 Approved For 12 Month Period

Ending 10/25/2001

Note to Operator:

Please submit a copy of pressure test chart.

Rec'd a copy

on 11/9/2000.

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 [Signature]  
Conditions of approval, if any:

Title

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.

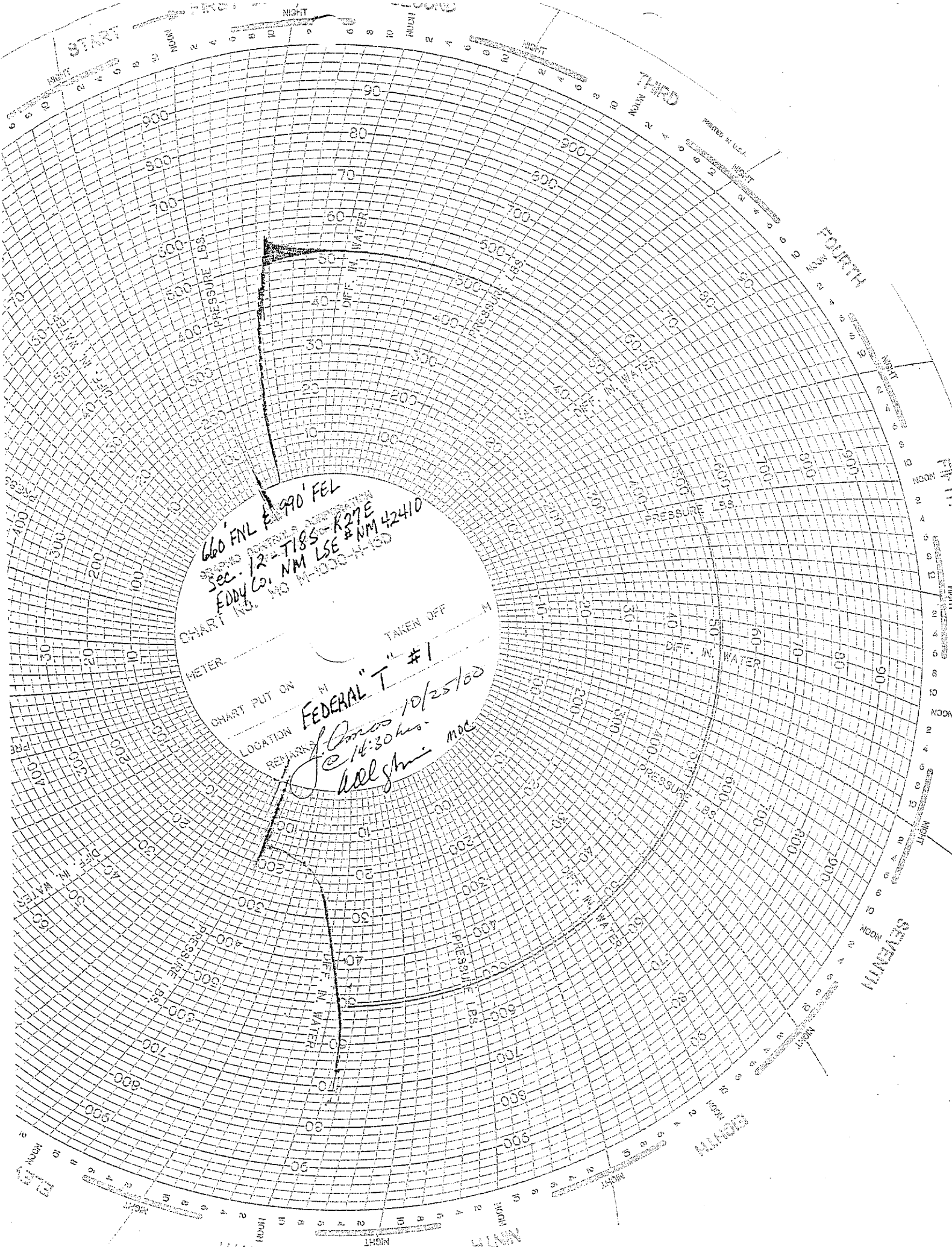
\*See Instruction on Reverse Side

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

RECEIVED

2000 NOV -9 1P 2:16

RECEIVED AND MGMT.  
TO RESOURCE AREA



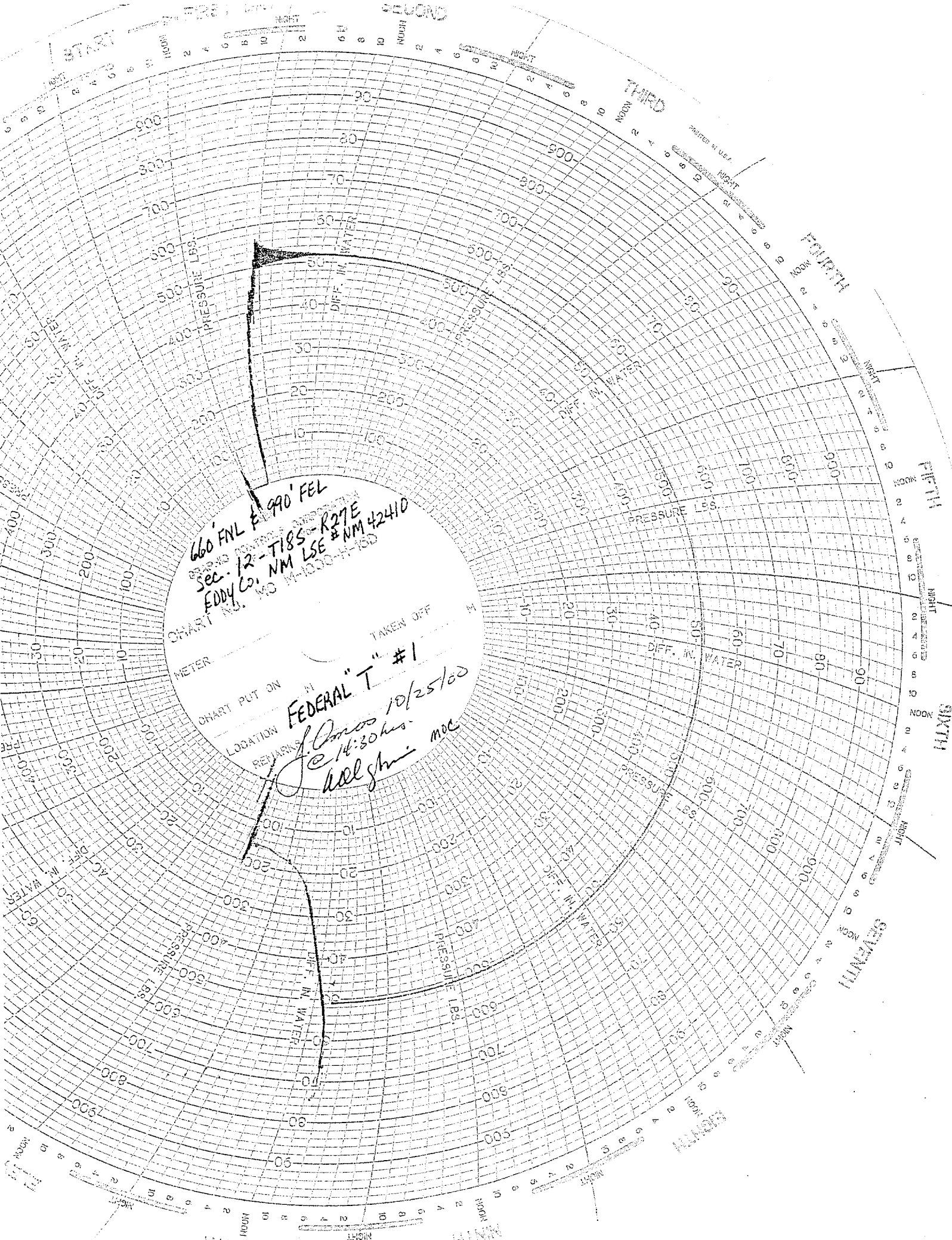
660 FNL E 990' FEL  
Sec. 12-TISS-R27E  
EDDY CO. NM LSE #NM 42410  
CHART NO. 10 M-1000-1-100

FEDERAL "T" #1  
10/25/60  
14:30 hrs.  
holghini moc  
CHART PUT ON  
LOCATION  
REMARKS  
METER  
TAKEN OFF  
M

RECEIVED

2000 NOV -9 1P 2:16

OFFICE LAND MGMT.  
SPECIAL RESOURCE AREA



660' FNL & 990' FEL  
Sec. 12-TIBS-R27E  
EDDY CO. NM LSE #NM 42410  
CHART NO. MO 11-1000-4-180

METER \_\_\_\_\_  
CHART PUT ON \_\_\_\_\_  
LOCATION \_\_\_\_\_  
REMARKS  
FEDERAL "T" #1  
J. Jones 10/25/00  
@ 14:30 hrs.  
del shini 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>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

## NOTICE OF VIOLATION - Inspection

Dear Operator:

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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>				
Inspection Date	Type Inspection	Inspector	Violation?	*Significant Non-Compliance?	Corrective Action Due By:	Inspection No.
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: nformation 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

RECEIVED

APR 22 2004

OCD-ARTESIA

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

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

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 11/26/05

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)



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

Form C-145  
Permit 72521

## Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

## Change of Operator

## Previous Operator Information

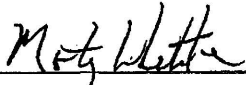
OGRID: 14744  
Name: MEWBOURNE OIL CO  
Address: PO BOX 5270  
Address:  
City, State, Zip: HOBBS, NM 88241

## New Operator Information

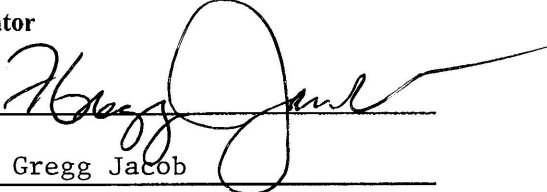
Effective Date: 4/1/2008  
OGRID: 6137  
Name: DEVON ENERGY PRODUCTION  
COMPANY, LP  
Address: 20 N Broadway  
Address:  
City, State, Zip: Oklahoma City, OK 73102

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

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

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

OCD-ARTESIA

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 &amp; 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

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Acidize                         | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing                    | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <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.)

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  
TitleNorvella Adams  
Sr. Staff Engineering Technician

Date

APPROVED  
8/12/2008

(This space for Federal or State Office use)

Approved by

Title

Conditions of approval, if any:

Date

JUL 16 2008

The BLM 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 to any matter within its jurisdiction

\*See Instruction on Reverse Side

Accepted for record - NMOC

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.

30-015-26404

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name  
**Federal T**

8. Well Number

1

9. OGRID Number

6137

10. Pool name or Wildcat

L. Wolfcamp and Cisco 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

NOTICE OF INTENTION TO:

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

OTHER: ☐

SUBSEQUENT REPORT OF:

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

OTHER ☒ 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 TOOHH 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. TOOHH with packer and tubing.

8/20/08 TIH with bailer and bailed sand. Bailed sand to 8460'. TOOHH 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. TOOHH 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

Type or print name Norvella Adams

TITLE

Sr. Staff Engineering Technician DATE 9/17/08

E-mail address: norvella.adams@dmn.com

Telephone No. 405-552-8198

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

Accepted for record  
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 08 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.

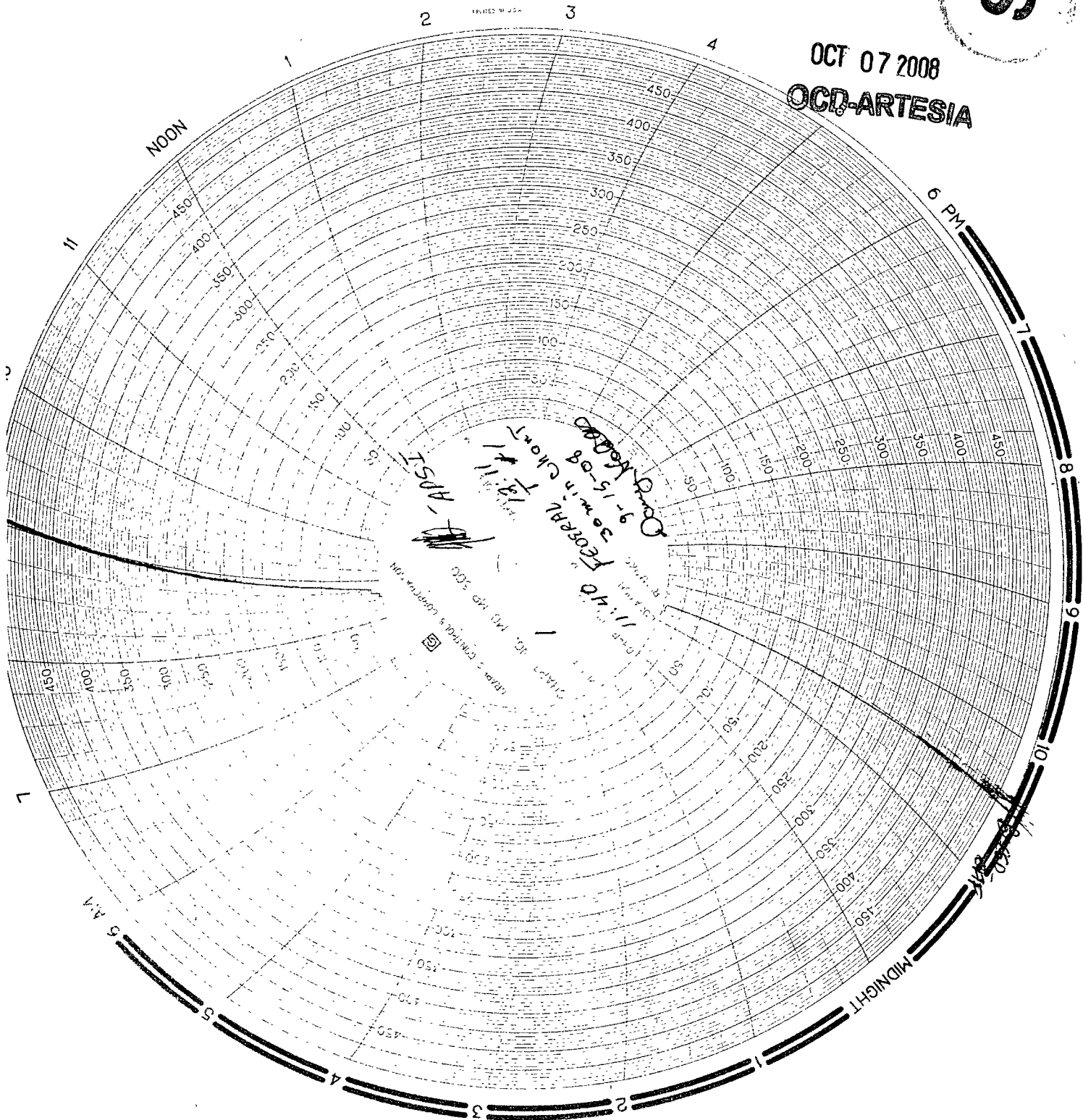
  
MARK E. FESMIRE, P.E.  
Director

MEF/wvjj

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



OCT 07 2008  
OCD-ARTESIA



SEP 19 2008

OCD-ARTESIA

Form C-105

Revised June 10, 2003

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

Well API No.

30-015-26404

5. Indicate Type of Lease

☐ STATE☐ FEE

State Oil &amp; gas Lease No

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well

☐ Oil Well ☐ Gas Well ☐ Dry ☒ Other **Convert to SWD; Admin Order SWD-1135**

b Type of Completion

☐ New Well ☐ Work Over ☐ Deepen ☒ Plug Back ☐ Diff. Resvr., ☐ Other

2 Name of Operator

DEVON ENERGY PRODUCTION COMPANY, LP

3 Address of Operator

20 North Broadway, Oklahoma City, OK 73102

7 Lease Name and Unit Agreement Name

Federal T 1

8. Well No.

9 Pool name or Wildcat

L. Wolfcamp and Cisco

4 Well Location

Unit Letter **A** **660'** feet from the **NORTH** line and **990'** feet from the **EAST** lineSection **12** Township **18S** Range **27E** NMPM County **Eddy**

10. Date Spudded

6/28/1990

11. Date T D Reached

8/25/1990

12 Date Completed

Orig 9/13/90 SWD  
9/15/08

13 Elevations (DR, RKB, RT, GL)\*

3634' KB; 3618' GL

14 Elev Casinghead

15. Total Depth MD

10,141

16 Plug Back T.D

9005'

17 If Multiple Compl How Many

Zones No

18. Intervals

Drilled BY

Rotary Tools

X

Cable Tools

19 Producing Intervals(s), of this completion - Top, Bottom, Name

L. Wolfcamp; 6,868' - 7,360' and Cisco; 7,758' - 8,060' (Salt Water Disposal Only)

20 Was Directional Survey Made

No

21. Type Electric and Other Logs Run

DLL-MGRD, SDL-DSN (original logs)

22 Was Well Cored

No

## 23 CASING RECORD (Report all strings set in well)

Casing Size	Weight LB /FT.	Depth Set	Hole Size	Cementing Record	Amount Pulled
13-3/8"	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

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

## 25 Tubing Record

26 Perforation record (interval, size, and number)

Wolfcamp; 6868'-7038' (8/21/93)  
 Wolfcamp; 7092'-7097'; 7120'-7146' (8/18/93)  
 Wolfcamp; 7330'-7340'; 7350'-7360' (8/16/93)  
 Cisco; 7893'-8060'; (140 holes)  
 Cisco; 7758'-7840'; (228 holes)  
 Morrow; 10008'-10054'; (still under CIBP)

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		Production Method (Flowing, Gas lift, pumping - Size and type pump)				Well Status (Prod Or Shut-In)	
NA						9/16/08-Converted to SWD	
Date of Test	Hours Tested	Choke Size	Prod'n For Test	Oil - Bbl	Gas - MCF	Water - Bbl	Gas - Oil Ratio
	24		Period				#DIV/0!
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)

NA--Converted to SWD 9/16/08

Test Witnessed By

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  
 NMOC

ern New Mexico

## Northwestern New Mexico

**OIL OR GAS  
SANDS OR ZONES**

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ feet

No. 2, from \_\_\_\_\_ to \_\_\_\_\_ feet

No. 3, from \_\_\_\_\_ to \_\_\_\_\_ feet

**LITHOLOGY RECORD (Attach additional sheet if necessary)**

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  
COMB 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>30-015-264040052</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 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 Cement 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			
26. Perforation Record									
D.									
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 49 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

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 page 2

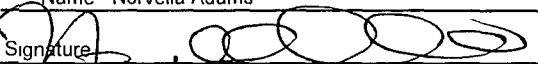
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <b>SWD conversion. Admin Order SWD-1135</b>		5. Lease Serial No <b>NM-42410</b>
2. Name of Operator <b>DEVON ENERGY PRODUCTION COMPANY, LP</b>		6. If Indian, Allottee or Tribe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

**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: 	Date: 9/17/2008

APPROVED FOR RECORD THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved by: /S/ DAVID R. GLASS SEP 29 2008	Date: Accepted for record NMOC
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 or operations thereon.	Office: DAVID R. GLASS PETROLEUM ENGINEER

**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.

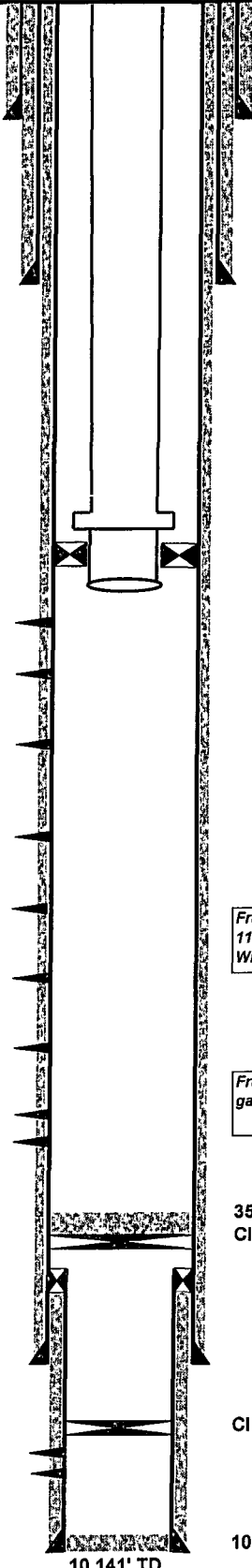
Frac 7893'-8060' with 5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% 20/40 White sand.

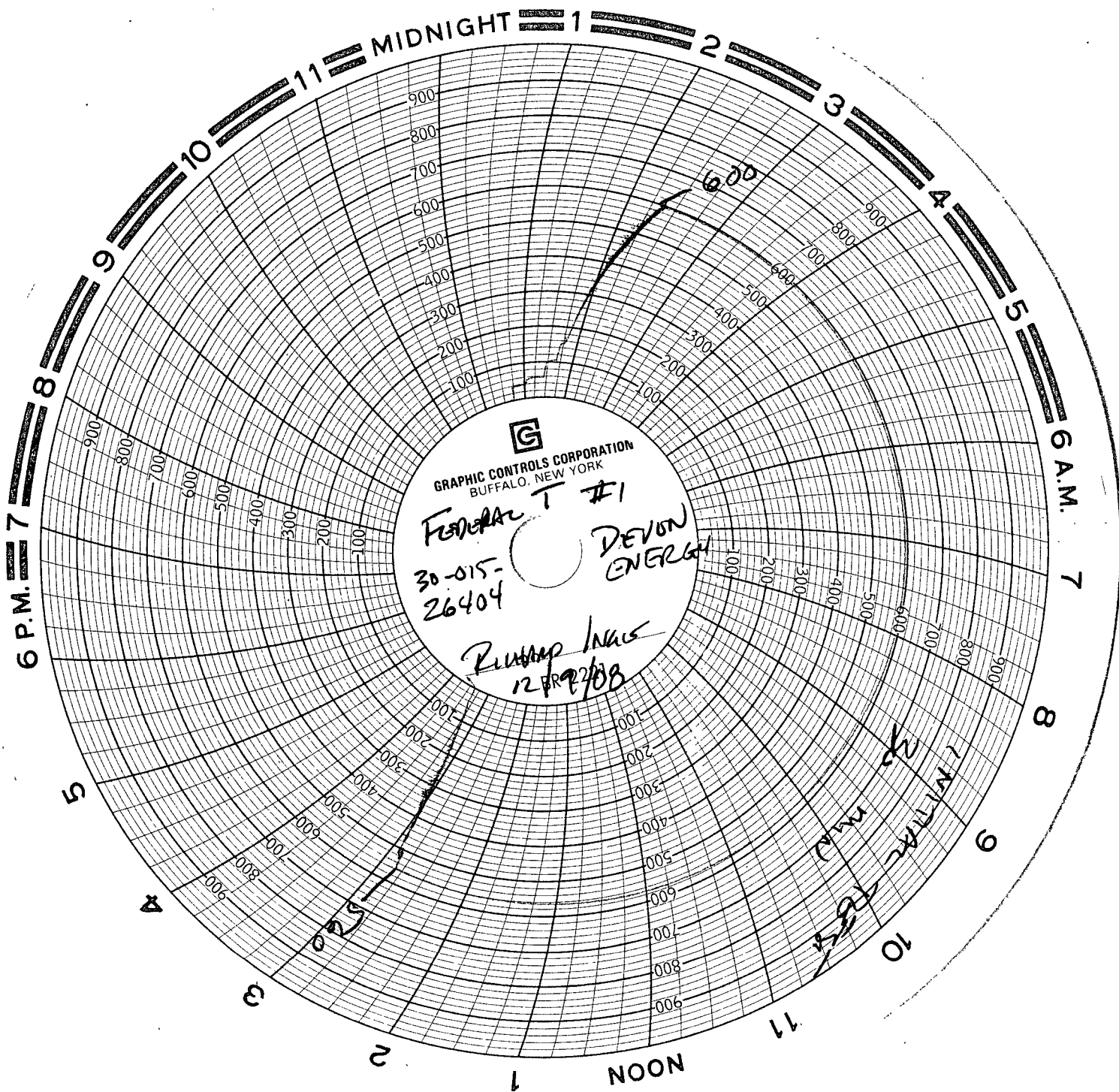
35' cement. 9,005' PBD  
CIBP @ 9,040' (7/21/93)

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

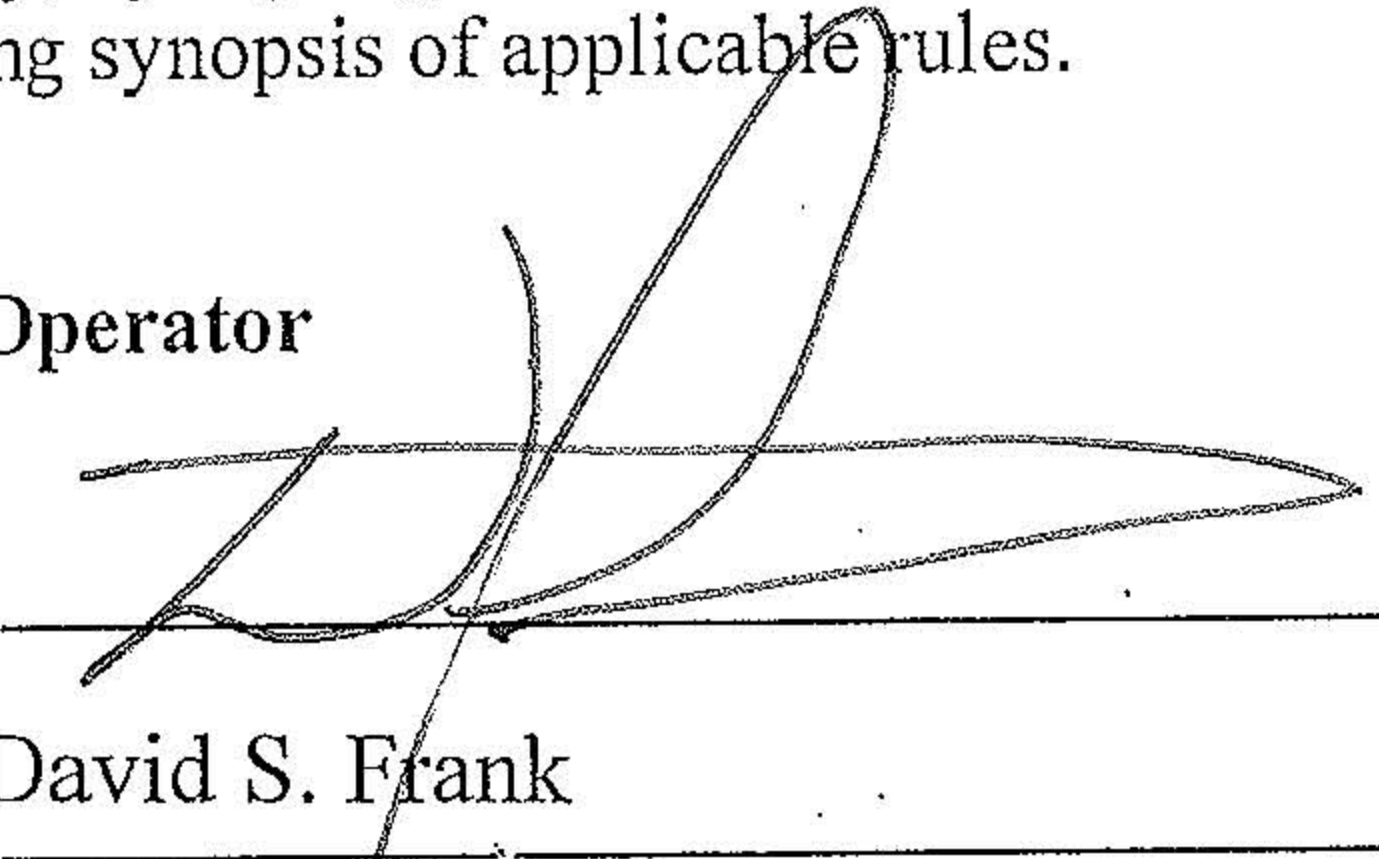
### New Operator Information

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

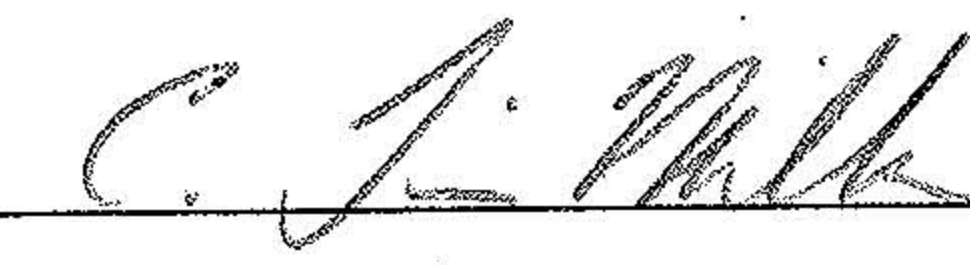
I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

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. J. 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.