

UIC - 1 - 8-1, 2 & 3

WDWs-1, 2 & 3

PERMITS,

RENEWALS,

& MODS (13 of 18)

2017

SUBSURFACE

NAVAJO REFINING COMPANY

Map ID No. 37

Artificial Penetration Review

OPERATOR Pre-Ongard Well Op.

STATUS Plugged

LEASE Pre-Ongard

LOCATION Sec. 11 -T18S-R27E

WELL NUMBER 1

MUD FILLED BOREHOLE NA

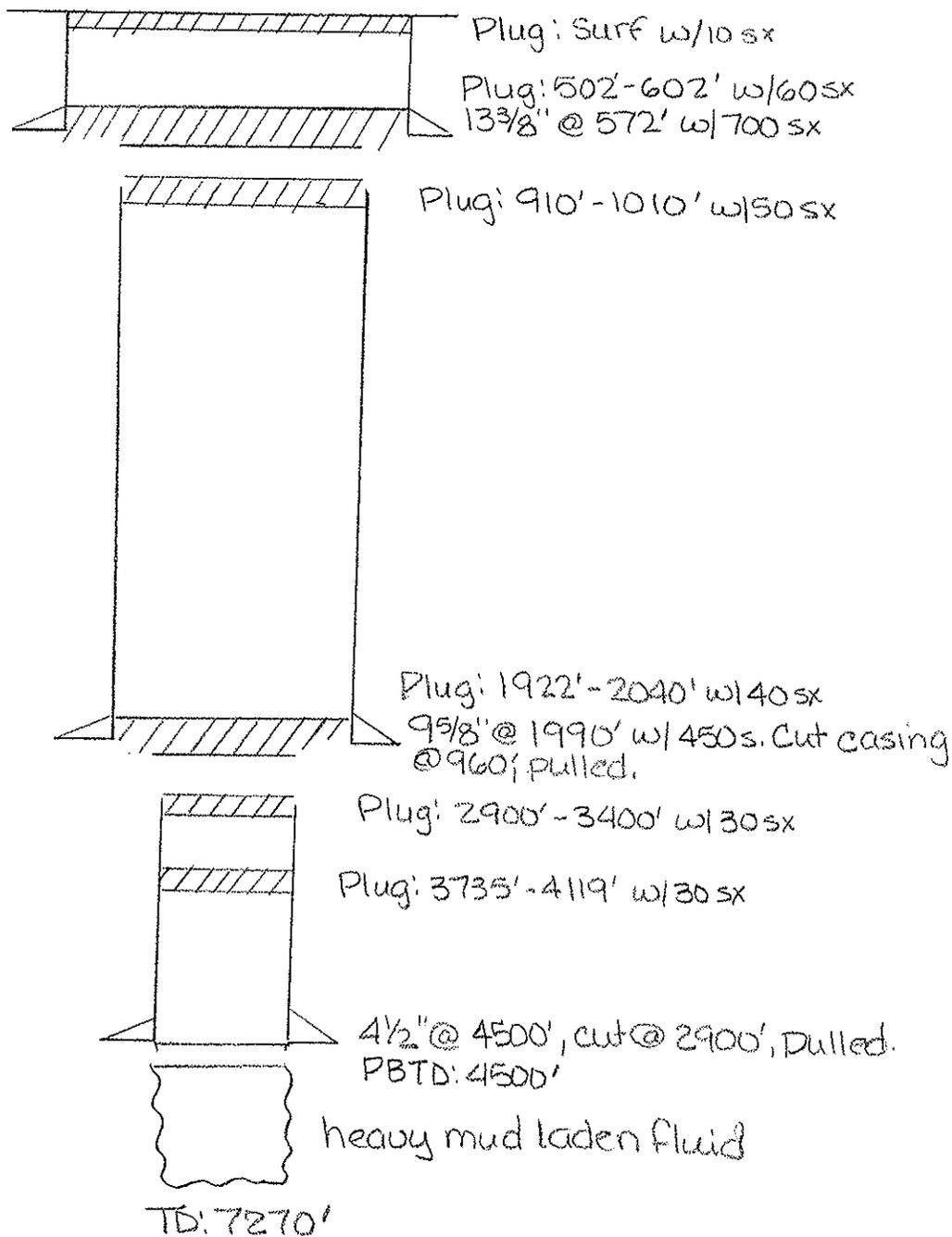
DRILLED NA

TOP OF INJECTION ZONE ~7148'

PLUGGED 6-6-73

API NO. 30-015-00870

REMARKS: No casing into Injection Zone.



Form 9-381a
(Feb. 1951)

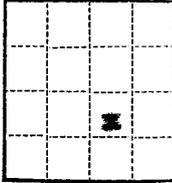
(SUBMIT IN TRIPLICATE)

Land Office Las Cruces

Lease No. _____

Unit _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



4/27/54 to J.D.

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Ruth C. Matheron

August 23, 1954

Well No. 1 is located 1900 ft. from S line and 1500 ft. from E line of sec. 11
N1/4 of SE/4 Sec. 11 2-10-S 2-27-N N M P M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wilcox ddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. **To be reported later.**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill the above well with rotary tools to an approximate depth of 7,000' to test the sand and top of Wolfcamp. Casing program will be as follows:

Size of Hole	Size of Casing	Depth	Comment
17-1/2"	13-3/8"	500	200% of theoretical amount to circulate to surface.
13-1/8"	9-5/8"	2000	150% to top of Green from Caliper survey containing 85 gal, 1/2 buf plug per sack + 100 sacks neat.
8-3/4"	5-1/2"	7000	300 sacks cement cement.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

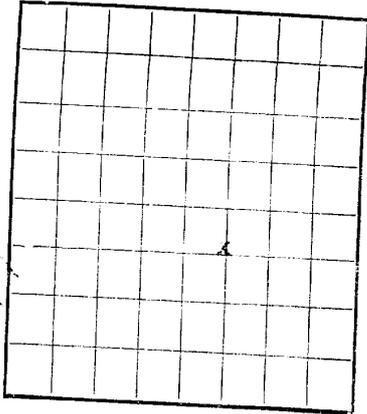
Company Standard Oil and Gas Company

Address Box 48

Hobbs

New Mexico

By Joseph Henderson
Title Field Superintendent



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER LC 068051
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Stanolind Oil and Gas Company Address Box 68 Hobbs, New Mexico
Lessor or Tract Ruth C. McPherson Field Wildcat State New Mexico

Well No. 1 Sec. 11 T 18-S R 27-E Meridian N M P M County Eddy
Location 1980 ft. ^[N.] of South line and 1980 ft. ^[W.] of East line of Sec. 11, T-18-S, R-27-E Elevation 3593
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____ Title Production Foreman

Date November 26, 1956

The summary on this page is for the condition of the well at above date.

Commenced drilling 9-1, 1956 Finished drilling 11-5, 1956

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
<u>13-3/8</u>	<u>48.36</u>	<u>8 Rd</u>	<u>H-40 Arco</u>	<u>563</u>	<u>Guide</u>	<u>None</u>			<u>Surface</u>
<u>9-5/8</u>	<u>32.3</u>	<u>8 Rd</u>	<u>H-40</u>	<u>1975</u>	<u>Guide</u>	<u>None</u>			<u>Intermediate</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>572</u>	<u>700 sx neat</u>	<u>Howco</u>		
<u>9-5/8</u>	<u>1790</u>	<u>250 sx 8% gel + 1/tuf plug per sk.</u>	<u>Howco</u>		
<u>5-1/2</u>	<u>Casing was not run in this well.</u>				

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

FOLD MARK

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 7270 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing Dry Hole, 19____
 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
 emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

H. L. Gilbert, Driller Z. Carr, Driller
George Wheat, Driller Bob Minnick, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	312	312	Red Bed
312	360	48	Anhy. & lime
360	482	122	Anhy.
482	539	57	Anhy. sand
539	630	91	Lime anhy.
630	835	205	Shale & Lime
835	1460	625	Lime Anhy.
1460	1679	219	Shale & Lime
1679	1726	47	Shale Anhy. Dolomite
1726	1828	102	Anhy. Shale Sand
1828	2118	290	Lime
2118	2696	578	Lime & Dolomite
2696	2790	94	Anhy. & Dolomite
2790	2947	157	Dolomite & Chert
2947	3026	79	Anhy. & Dolomite
3026	3434	408	Dolomite
3434	4154	720	Dolomite Anhy.
4154	4505	351	Dolomite & Chert
4505	4558	53	Dolomite
4558	4685	127	Sand & Dolomite
4685	5093	408	Dolomite
5093	5214	121	Dolomite & Chert
5214	5722	508	Dolomite & Shale
5722	5858	136	Dolomite & Chert
5858	6055	197	Dolomite
6055	6349	294	Dolomite & Lime

FROM	TO	TOTAL FEET	FORMATION
6349	6302	153	Dolomite & Shale
6502	6631	129	Dolomite
6631	6850	219	Dolomite & Shale
6850	6911	61	Dolomite & Shale
6911	6932	21	Dolomite & Lime
6932	7066	134	Dolomite & Shale
7066	7074	8	Dolomite & Lime
7074	7270	196	Dolomite & Shale

Core #1 1750-1758 Rec. 8' Light brown to tan fine crystalline lime and dolomite and very thin streak of gray shale and sandy inclusion.

Core #2 1758-1780 Rec. 20' 1758-1775 tan dolomite w/streaks gray shale 1775-1778 brown sand w/good stain fluorescent and porosity.

Core #3 2500-2512 Rec. 11' Brown fine to medium crystalline dolomite w/large anhy. Indusions & ANGEL to pin point porosity & poor to good scattered oil stain & odor.

Core #4 6723-6937 Rec. 10-1/2' 7' dark dense fine crystalline shaly dolomite and 3-1/2' sh micro x 1 & dolomite. No show.

DST #1 2455-2512 tool open 2 hrs. Fall blow of air 1-1/2 hr. & died. Rec. 30' drl mud, no show oil, gas, or water. 3/4 hr. Final BHSP 65#, Int. BHSP 55#

DST #2 6267-6304 tool open 2-1/2 hrs. Fall blow throughout test. Rec. 1350' of salty sulphur water, slightly gas cut. 30 min. Initial BHSP 2390, final 30 min. Initial flowing 60 PSIG. Final flowing 600 PSIG.

DST #3 6685-6739 tool open 2-1/2 hrs. Rec. 180' drl mud, 370' sulphur water, no show oil or gas. 20 min. Initial SIP 2665# Final 2120#. Initial flow 75# Final 315#

DST #4 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

DST #5 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

DST #6 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

DST #7 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

DST #8 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

DST #9 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

DST #10 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

DST #11 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

DST #12 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

DST #13 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial BHSP 60%

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office, as per Commission Rule 1106)

1957 JAN 31 PM 2:36

COMPANY Pan American Petroleum Corporation, Box 68, Hobbs, New Mexico
(Address)

LEASE Ruth C. McPherson WELL NO. 1 UNIT J S 11 T 18 R 27
DATE WORK PERFORMED _____ POOL Undesignated

This is a Report of: (Check appropriate block) Results of Test of Casing Shut-off
 Beginning Drilling Operations Remedial Work
 Plugging Other Change in Company name

Detailed account of work done, nature and quantity of materials used and results obtained.

Change in operating name from "Stanolind Oil and Gas Company" to "Pan American Petroleum Corporation" effective February 1, 1957.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
Perf Interval (s) _____
Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE AFTER

Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____
Witnessed by _____	_____	_____

(Company)

OIL CONSERVATION COMMISSION

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

Name W.L. Armstrong
Title _____
Date FEB 4 1957

Name Robert Newenakson
Position Field Superintendent
Company Pan American Petroleum Corporation

copy to
F. N. M. O. C. C. COPY

APPROVED
DEC 7 1959
D. A. KRAOP

SUBMIT IN TRIPlicate

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Lead Office: **ARTESIA**
Date: **RECEIVED**

MAR 7 1962

**D. C. C.
ARTESIA, OFFICE**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHUT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Ruth C. McPherson

December 2, 1959

Well No. 1 is located 1980 ft. from S line and 1980 ft. from E line of sec. 11
NW/4-SE/4, Sec. 11 T-18-S R-27-E MEMX
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildest Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3593 ft. RDB

DETAILS OF WORK

Show names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.

On 11-11-59 P X A operations were completed. Work done and plugs set as follows:

1. Cut and pulled 9 5/8" casing @ 960'.
2. Set 25 sx cement plug @ 960'; 15 sx cement in bottom of 13 3/8" casing @ 572'; 10 sx cement plug at surface. All intervals filled with heavy sand laden fluid.
3. Set P X A marker; restored ground to natural contour.

Handwritten signature/initials

RECEIVED

DEC 7 1959

**U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address Box 68
Hobbs, New Mexico

By [Signature]
This Area Superintendent

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

N. M. O. C. C. COPY
SUBMIT IN TRIPlicate*
(Other instruc on reverse slt)

Form approved.
Budget Bureau No. 42-11425.

Copy to SF

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 Re-Entry SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Bill J. Smith

3. ADDRESS OF OPERATOR
1504 Stagecoach Dr., Arlington, Texas, 76013

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1980' FS&EL Section 11, T-18-S, R-27-E
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
14 miles east of Artesia

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
40

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.
none

19. PROPOSED DEPTH
1800

20. ROTARY OR CABLE TOOLS
Rotary

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

22. APPROX. DATE WORK WILL START*
September 15, 1970

5. LEASE DESIGNATION AND SERIAL NO.
NM-6850
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Ruth C. McPherson
9. WELL NO.
1
10. FIELD AND POOL, OR WILDCAT
Artesia
11. SEC. T. R. M., OR BLK. AND SURVEY OR AREA
Section 11, T-18-S R-27-E
12. COUNTY OR PARISH
Eddy
13. STATE
New Mexico

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13 3/8"	N/A*	572'	700 sacks
11	9 5/8"	N/A*	1990	450 sacks

Propose to clean out plugs to about 1900', tie onto 9 5/8" casing stub with casing bowl and 32.3 # 9 5/8" casing, perforate indicated pay in Grayburg formation, stimulate as necessary and test.

* Turn American title copy

Casing set when well originally drilled in 1956. 13 3/8" casing was not pulled. 9 5/8" casing cut at 960' and pulled.

RECEIVED
SEP 2 1970
ARTESIA, NEW MEXICO

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 Bill J. Smith TITLE _____ DATE 9-1-70

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

APPROVED
SEP 8 1970
R. L. BEEKMA
ACTING DISTRICT ENGINEER

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES DEC 8 1970
See Instructions On Reverse Side

RECEIVED

DATE
SEP 9 1970

O. C. C.
ARTESIA, OFFICE

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

Operator Bill J. Smith		Lease Ruth C. McPherson		Well No. 1
Unit Letter J	Section 11	Township 18-S	Range 27-E	County Eddy
Actual Footage Location of Well: 1980 feet from the South line and 1980 feet from the East line				
Ground Level Elev. 3580	Producing Formation Grayburg	Pool Artesia	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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SEP 9 1970

Yes No If answer is "yes," type of consolidation _____

O. C. C.

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 Commission.

CERTIFICATION

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

Name
Bill J. Smith

Position

Company

Date

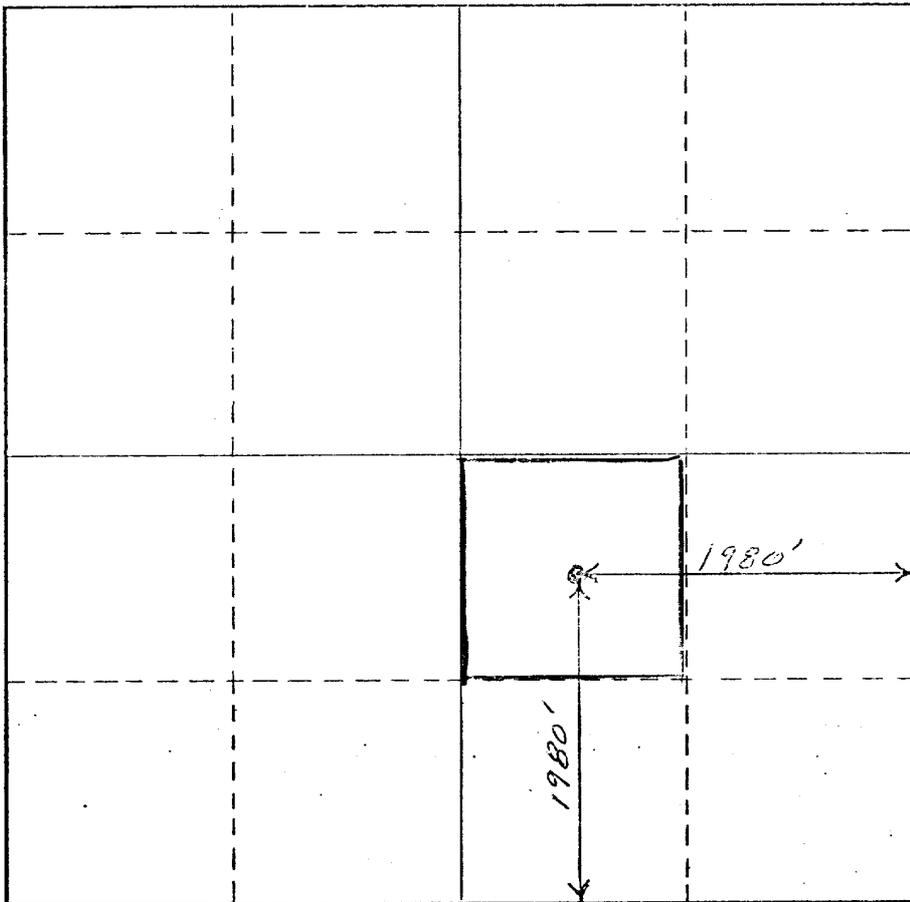
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Refer to Original Plat

Registered Professional Engineer and/or Land Surveyor

Certificate No.



0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

OMMO

COUNTY EDDY FIELD Artesia STATE NM MH 06870

OPR SMITH, BILL J. MAP

I McPherson, Ruth C.

Sec 11, T-18-S, R-27-E

1980' FSL, 1980' FEL of Sec

Re-Comp 4-19-71

CLASS DWDF EL 35928

LOGS EL GR RA IND HC A

13 3/8" at 572' w/700 SX

9 5/8" at 1990' w/450 SX (PULLED)

4 1/2" at 4500'

FORMATION

DATE

FORMATION

DATE

FORMATION

DATE

TEMPORARILY ABANDONED

TD 7270'; PBD 4500'

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CONT DATE PROP DEPTH 1800' TYPE MU

F.R. 9-15-70; Opr's Elev. 3580' GL

PD 1800' WO (Grayburg)

(Orig. Stanolind Oil & Gas #1 McPherson-Federal,

PGA 11-7-56, OTD 7270')

TD 7270'; PBD 4500'; Prep PB to Grayburg

Cleaned Out to 4500'

Ran 4 1/2" casing

Perf (Yeso) 4070-4100'

Acid (4070-4100') 3000 gals

Swbd blk sul wtr (4070-4100')

TD 7270'; PBD 4500'; SI

9-28-70

10-26-70

1-8-71

EDDY Artesia NM Sec 11, T18S, R27E
SMITH, BILL J. I McPherson, Ruth C. Page #2

2-22-71 TD 7270'; PBD 4500'; SI
4-12-71 TD 7270'; PBD 4500'; SI
4-19-71 TD 7270'; PBD 4500'; TEMPORARILY ABANDONED
4-22-71 COMPLETION REPORTED

OWMO

STATE NM NH 06870

COUNTY EDDY FIELD Artesia

OPR SMITH, BILL J.

I McPherson, Ruth C.

Sec 11, T-18-S, R-27-E

1980' FSL, 1980' FEL of Sec

Re-Camp 4-19-71

C&G 5/8" at 572' w/700 gx

9 5/8" at 1990' w/450 gx

4 1/2" at 4500'

LOGS EL. GR. RA. IND. HC. A

TEMPORARILY ABANDONED

CLASS OWDL EL 35928

FORMATION DATUM FORMATION DATUM

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EDDY Artesia NM Sec 11, T18S, R27E
SMITH, BILL J. 1 McPherson, Ruth C. Page #2

2-22-71 TD 7270'; PBD 4500'; SI
4-12-71 TD 7270'; PBD 4500'; SI
4-19-71 TD 7270'; PBD 4500'; TEMPORARILY ABANDONED
4-22-71 COMPLETION REPORTED

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PROP DEPTH 1800' TYPE MU

9-22-70 F.R. 9-15-70; Opr's Elev. 3580' GL
PD 1800' WO (Grayburg)
(Orig. Stanolind Oil & Gas #1 McPherson-Federal,
PGA 11-7-56, OTD 7270')
TD 7270'; PBD 4500'; Prep PB to Grayburg
Cleared Out to 4500'
Ran 4 1/2" casing
Perf (Yeso) 4070-4100'
Acid (4070-4100') 3000 gal
Swbd blk sul wtr (4070-4100')
9-28-70 TD 7270'; PBD 4500'; SI
10-26-70 TD 7270'; PBD 4500'; SI
1-8-71 TD 7270'; PBD 4500'; SI

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

SUBMIT IN TRIPL
(Other Instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
LC-068051

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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

SMITH MCPHERSON

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

WILDCAT-

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

11-18-27 NMPM

1. TYPE OF WELL
 GAS WELL
 OTHER

DRY-HOLE RE-ENTRY

2. NAME OF OPERATOR
Amoco Production Company

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

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

1980' FSL x 1980' EEL Sec. 11 (Unit 1, NW 1/4 SE 1/4)

14. PERMIT NO.

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

3593' D.F.

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

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.)

Physical abandonment of well concluded 6-6-73.
Plugged and abandoned as follows:
Filled hole w/ mud. (PBD-4365)
Spotted 30 24 cement plug 4119'-3735' (BUN. PERS. 4100'-4070')
Shot & pulled 4 1/2" csg. from 2990'.
Spotted 30 5x cement plug 3040'-2900' (in + out of 4 1/2" stub)
" 40 5x " " 2040'-1922'
No 9 5/8" casing found in hole.
Spotted 50 5x cement plug 1010'-910'.
" 60 " " " 602'-602' (13 3/8" CSA 572)
" 10 " " " @ surface & erected P & A marker.
Location shall be cleaned & levelled.

I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE

AREA ENGINEER

DATE

6-15-73

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL IF ANY:

TITLE

DATE

04 4- USGS-APPROVED
1- DIV
1- SUSA
1- IRRY
2- ARCO
JUL 13 1973
K. L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

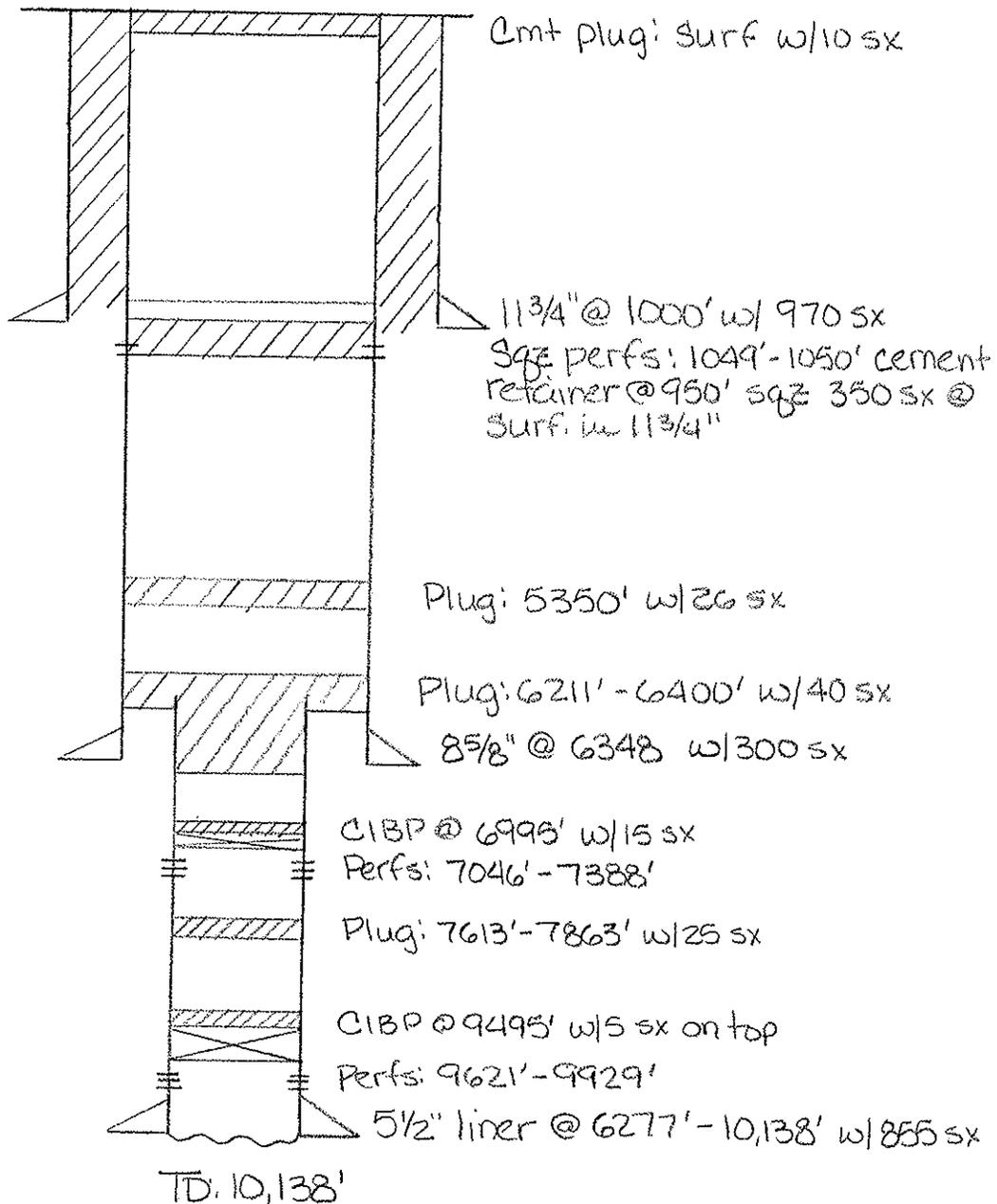
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 40
Artificial Penetration Review

OPERATOR Pre-Ongard Well Op.
LEASE Pre-Ongard
WELL NUMBER 1
DRILLED NA
PLUGGED NA

STATUS Plugged
LOCATION Sec. 11 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE 7070'
API NO. 30-015-20510

REMARKS: Calculated Top of Cement behind 5/2" liner @ 6277'



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

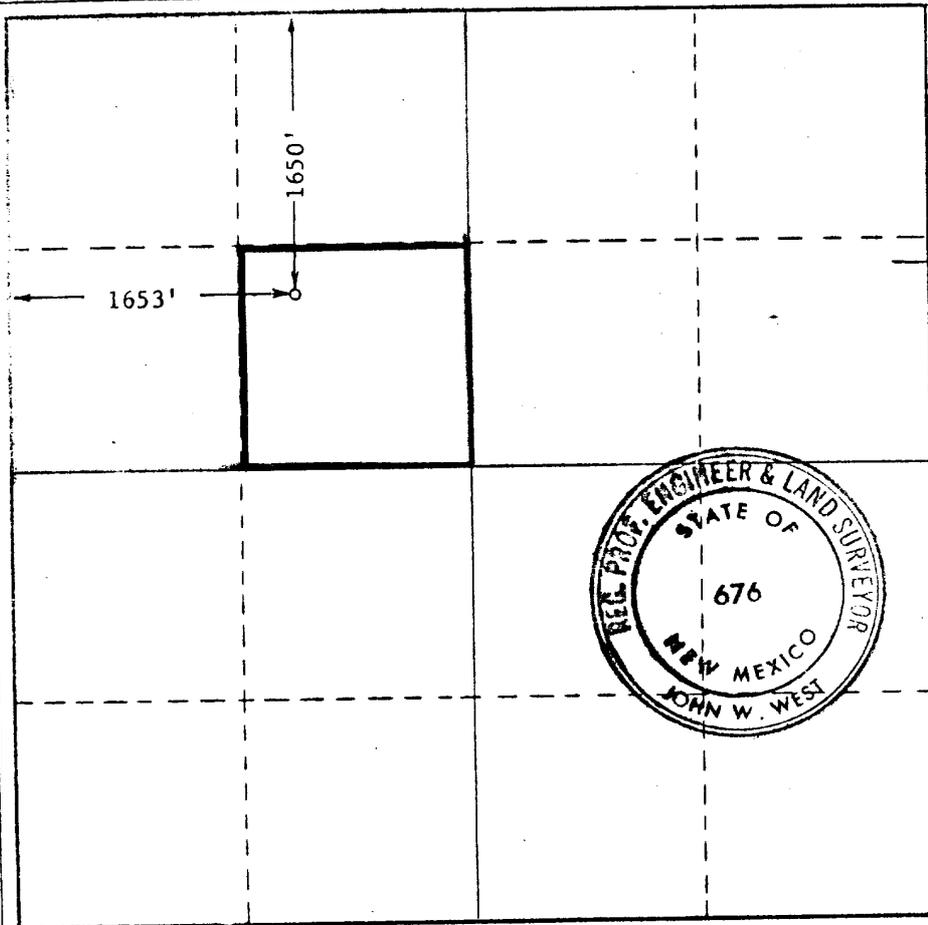
Operator AMOCO PRODUCTION COMPANY		Lease MALCO "A" FEDERAL		Well No. 3
Unit Letter F	Section 11	Township 18 SOUTH	Range 27 EAST	County EDDY
Actual Footage Location of Well: 1650 feet from the NORTH line and 1653 feet from the WEST line				
Ground Level Elev. -	Producing Formation Miss.	Pool Wildcat	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 Commission.



CERTIFICATION

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

Name _____

Position
AREA SUPERINTENDENT

Company
Amoco Production Company

Date

SEP 27 1971

RECEIVED
I certify that the well location shown on this plat is 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

SEPTEMBER 16, 1971

Registered Professional Engineer and/or Land Surveyor

John W. West

Certification No.

676



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

DEC 29 1972 Form O-100
Supersedes O-128
Effective 1-1-75

All distances must be from the outer boundaries of the Section

AP# 80-015-20510

Operator AMOCO PRODUCTION COMPANY		Lease MALCO "S" FEDERAL		ARTESIA, OFFICE # 1	
Unit Letter F	Section 11	Township 18 SOUTH	Range 27 EAST	County EDDY	

Actual Footage Location of Well:
 1650 feet from the NORTH line and 1653 feet from the WEST line

Ground Level Elev. 3587 RDB	Producing Formation MORROW-(PENN) SCOGGIN DRAW-MORROW	Pool 320
---------------------------------------	---	--------------------

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the 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 Commission.

CERTIFICATION

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

Name: *James West*
 Position: **AREA SUPERINTENDENT Engineer**
 Company: **Amoco Production Company**

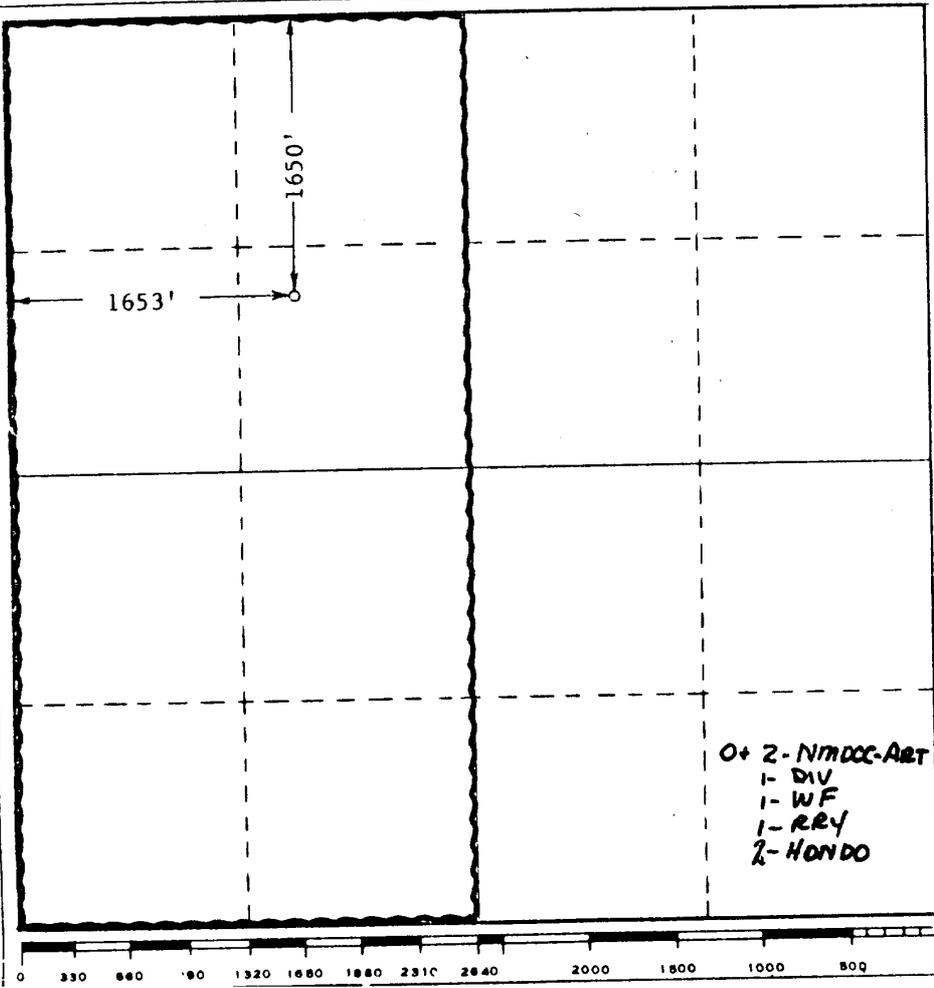
Date: **12-28-72**

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: **SEPTEMBER 16, 1971**

Registered Professional Engineer and/or Land Surveyor

John West
 Certificate No. **676**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-20510

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK
 RECEIVED

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Arco Production Company OCT 8 1971

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

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements.)*
 At surface
 1650' FNL x 1653' FWL Sec. 11 (F, SE/4 NW/4)
 At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
 LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 MALCO A FEDERAL

9. WELL NO.
 3

10. FIELD AND POOL, OR WILDCAT
 WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 11-18-27 NMPM

12. COUNTY OR PARISH
 EDDY

13. STATE
 NM

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 drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

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.

19. PROPOSED DEPTH
 10,500'

20. ROTARY OR CABLE TOOLS
 ROTARY

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

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	11 3/4"	42-47#	1000'	Circ
11"	8 5/8"	24-36#	6200'	Fill 600' above Qto
7 7/8"	5 1/2" LIVER	14-17#	6200-TD	Squeeze behind liner.

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

RECEIVED
 OCT - 7 1971
 U. S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO

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 AREA SUPERINTENDENT DATE 10-6-71

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____
 CONDITIONS OF APPROVAL: THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
 EXPIRES JAN - 7 1972

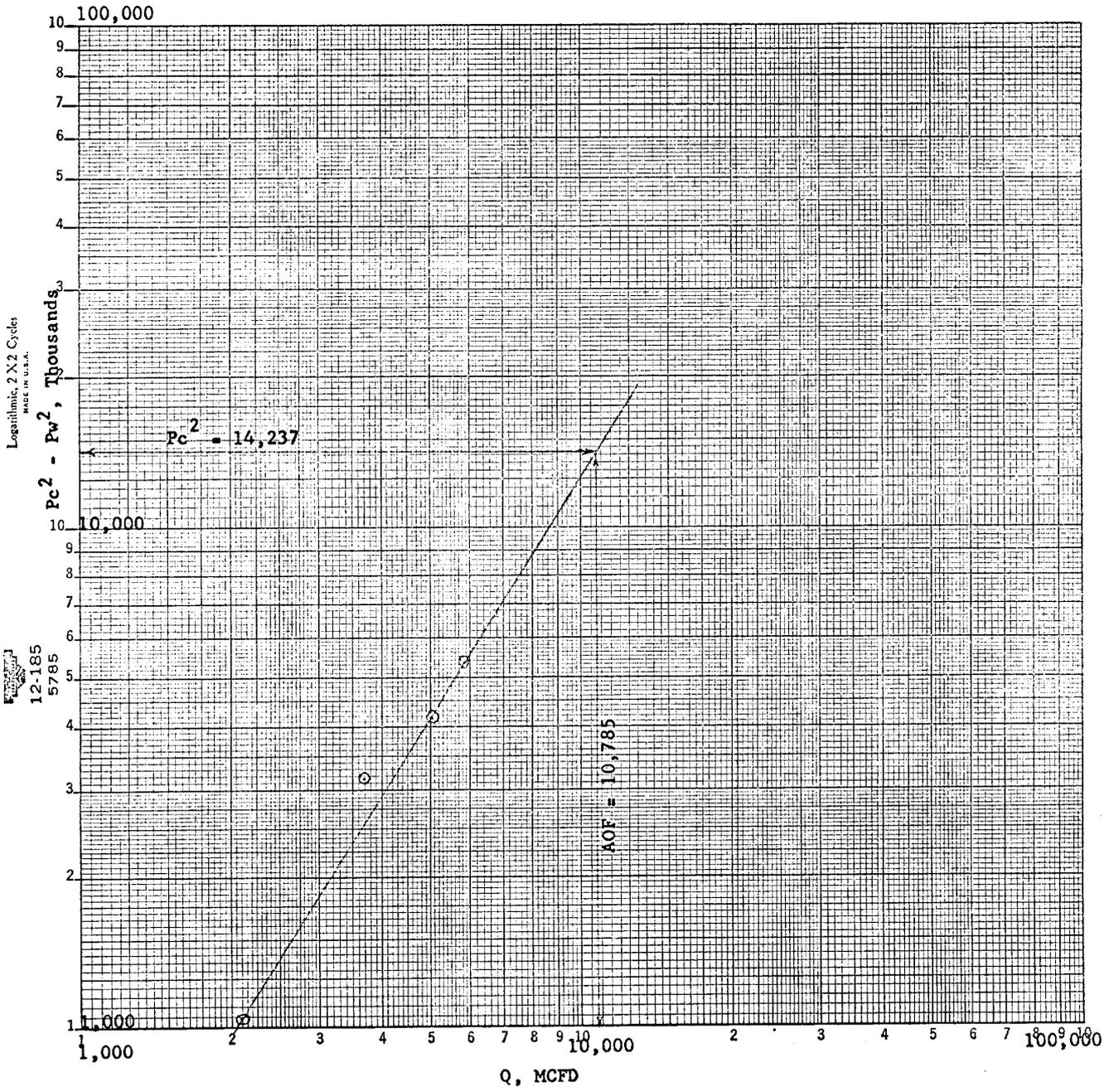
APPROVED
 OCT - 2 1971
 R. L. BECKMAN
 ACTING DISTRICT ENGINEER

04 4. USGS-ART
 1-AC Jr
 1-SUSP
 1-RRY
 1-Arco-Rawley
 Doug Klavin

*See Instructions On Reverse Side

Item 13a
 Item 13b
 Item 13c
 Item 13d
 Item 13e
 Item 13f
 Item 13g
 Item 13h
 Item 13i
 Item 13j
 Item 13k
 Item 13l
 Item 13m
 Item 13n
 Item 13o
 Item 13p
 Item 13q
 Item 13r
 Item 13s
 Item 13t
 Item 13u
 Item 13v
 Item 13w
 Item 13x
 Item 13y
 Item 13z

Amoco Production Company
 Malco "S" Federal No. 3
 F-11-18S-27E
 12/22/71



NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-68

RECEIVED

*filed
1-22-72*

JAN 3 1972

Type Test <input checked="" type="checkbox"/> Initial <input checked="" type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 12/22/71		JAN 3 1972							
Company Amoco Production Company		Connection None		D. C. C. ARTISIA, DEPT							
Pool Wildcat		Formation Morrow Penn		Unit API No. 30-015-20510							
Completion Date 12/18/71		Total Depth 10,168		Plug Back TD 10,000							
Elevation 3587 KDB		Farm or Lease Name Malco #5 Federal		Well No. X # 31							
Casing Size 5-1/2" Liner		Wt. 17#		Set At 6277' - 10,138'							
Perforations: From 9621 To 9929		Perforations: From Open End To		Unit Sec. Twp. Rge. F 11 18S 27E							
Type Well - Single - Brndnhead - G.O. or G.O. Multiple Single		Packer Set At 9491'		County Eddy							
Producing Thru 2-3/8" Tbg		Reservoir Temp. °F 145° 9775		Mean Annual Temp. °F 60							
Baro. Press. - P _g 13.2		State New Mexico		Meter Run 6" Flange							
L 9504		H 9504		G _g 0.630							
% CO ₂ 0.38		% N ₂ 0.31		% H ₂ S 0							
FLOW DATA		TUBING DATA		CASING DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2862		Pkr	-	40 hrs
1.	6.065 x 2.500			565	5.3	110	2689	60	Pkr	-	1 hr
2.	6.065 x 2.500			560	16.0	97	2453	60	Pkr	-	1 hr
3.	6.065 x 2.500			590	27.5	87	2220	60	Pkr	-	1 hr
4.	6.065 x 2.500			600	36.0	81	2035	60	Pkr	-	1 hr
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcid				
1	30.31	55.34	578.2	0.9551	1.260	1.038	2.096				
2	30.31	95.76	573.2	0.9662	1.260	1.041	3.678				
3	30.31	128.79	603.2	0.9750	1.260	1.048	5.026				
4	30.31	148.56	613.2	0.9804	1.260	1.049	5.836				
5											
NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio 74,136 Mcf/bbl.		A.P.I. Gravity of Liquid Hydrocarbons 54.0 Deg.				
1	0.86	570	1.57	0.928	Specific Gravity Separator Gas 0.630		XXXXXXX				
2	0.85	557	1.53	0.922	Specific Gravity Flowing Fluid XXXXX		0.670				
3	0.90	547	1.50	0.911	Critical Pressure 673 P.S.I.A.		670 P.S.I.A.				
4	0.91	541	1.49	0.908	Critical Temperature 364		381 R				
5											
* P _c 3773.2		P _c ² 14,237		(1) $\frac{P_c^2}{R^2 - R_w^2} = 2.661$		(2) $\left[\frac{R^2}{R^2 - R_w^2} \right]^n = 1.848$					
NO.	P _i ²	P _w	R _w ²	P _i ² - R _w ²	AOF = Q $\left[\frac{R^2}{P_c^2 - R_w^2} \right]^n = 10.785$						
1		3632.8	13,197	1,040							
2		3330.2	11,090	3,147							
3		3173.2	10,069	4,168							
4		2981.1	8,887	5,350							
5											
Absolute Open Flow 10,785 Mcid @ 15.025		Angle of Slope @		Slope, n 0.626							
Remarks: * P _c measured with bottom hole pressure recorder											
Approved By Commission:			Conducted By: Al Klagr			Calculated By: Ed Snook		Checked By: Ed Snook			

Copy to S F

REQUEST FOR THE EXTENSION OF AN EXISTING POOL

OR

THE CREATION OF A NEW POOL

TO: The Oil Conservation Commission
State of New Mexico

Date: 2-10-, 1972

The Amoco Production Company BOX 68, HOBBS, N. M. 88240 MALCO S Federal
Name of Operator Name of Lease

1 Well No. Located 1650 feet from the NORTH line and 1653 feet

from the WEST line of 11 Section 18-S Township 27-E Range

is outside the boundaries of any pool producing from the same formation. On the basis of the information submitted here-
with on form C-105, we hereby request that the
pool be extended to include the following described area

or that a new pool be created to include the following described area W/2 SEC. 11, T-18-S, R-27-E

Suggested name: SCOGGIN DRAW-PENN

Amoco Production Company
Operator

Name of Producing Formation:

(MORROW)-PENN

[Signature]
AREA SUPERINTENDENT

Representative

001 NMOC-ART R-4291
1-DIV
1-WF
1-HONDO
Scoggin Draw Morrow
5-1-72

RECEIVED

FEB 14 1972

O. C. C.
ARTESIA, OFFICE

Amoco Production Company
-2-

COMMINGLING ORDER PLC-43 (conf'd)

DONE at Santa Fe, New Mexico, on this 6th day of April,
1972.



A. L. PORTER, Jr.
Secretary-Director

ALP/DSN/dr

cc: Oil Conservation Commission - Artesia
Oil & Gas Engineering Committee - Hobbs
United States Geological Survey - Roswell



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

RECEIVED

April 6, 1972

APR 7 1972

GOVERNOR
BRUCE KANE
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

Amoco Production Company
P. O. Box 68
Hobbs, New Mexico 88240

O. C. C.
ARTESIA, OFFICE

Attention: Mr. V. E. Staley

COMMINGLING ORDER PLC-43

Gentlemen:

The above-named company is hereby authorized to commingle Empire Abo oil and undesignated Morrow gas pool distillate pool production from the following leases:

<u>Lease Name</u>	<u>Acreage Description</u>
Malco H Federal R/A A	NE/4 SE/4 Sec. 3-18-27
Malco D Federal R/A A	N/2 NE/4 Sec. 10-18-27
Malco D Federal R/A B	S/2 NE/4 Sec. 10-18-27
Malco E Federal R/A A	SE/4 SE/4 Sec. 3-18-27
Malco E Federal R/A B	SW/4 SE/4 Sec. 3-18-27
Malco A Federal	E/2 NW/4 Sec. 11-18-27
Malco B Federal	W/2 NW/4 Sec. 11-18-27
Malco C Federal	W/2 NE/4 Sec. 11-18-27
Malco J Federal	E/2 NE/4 Sec. 11-18-27

Production shall be allocated by separately metering the oil production from each of the above leases and separately metering the distillate production from the Malco "S" Federal Well No. 1 prior to commingling.

This installation shall be installed and operated in accordance with the applicable provisions of Rule 309-B of the Commission Rules and Regulations and the Commission "Manual for the Installation and Operation of Commingling Facilities." It is the responsibility of the producer to notify the transporter of this commingling authority.

Commission Order No. R-1399, which authorized commingling of all of the above production except the Morrow distillate, is hereby put in abeyance.

NEW MEXICO OIL CONSERVATION COMMISSION

Artesia, New Mexico

May 9, 1972

Amoco Production Company
P. O. Box 68
Hobbs, New Mexico 88240

Re: Wells placed in pools

Gentlemen:

As the result of Commission Order P-4291 the following described well (a) (~~has-have~~) been placed in the pool (a) 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.

Scoggin Draw Morrow

Malco "S" Federal #1-F, 11-18-27

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

Very truly yours,

OIL CONSERVATION COMMISSION

Dist.

Orig. Operator

cc: Each transporter



Amoco Production Company

Post Office Box 68
Hobbs, New Mexico, 88240

March 19, 1973

File: VES-86-680 x WF

RECEIVED

Re: Back Pressure Test
Amoco's Malco "S" Federal No. 1
F-11-18-27
Eddy County, New Mexico

MAR 20 1973

ARTESIA OFFICE

New Mexico Oil Conservation Commission
P. O. Drawer DD
Artesia, New Mexico, 88210

Gentlemen:

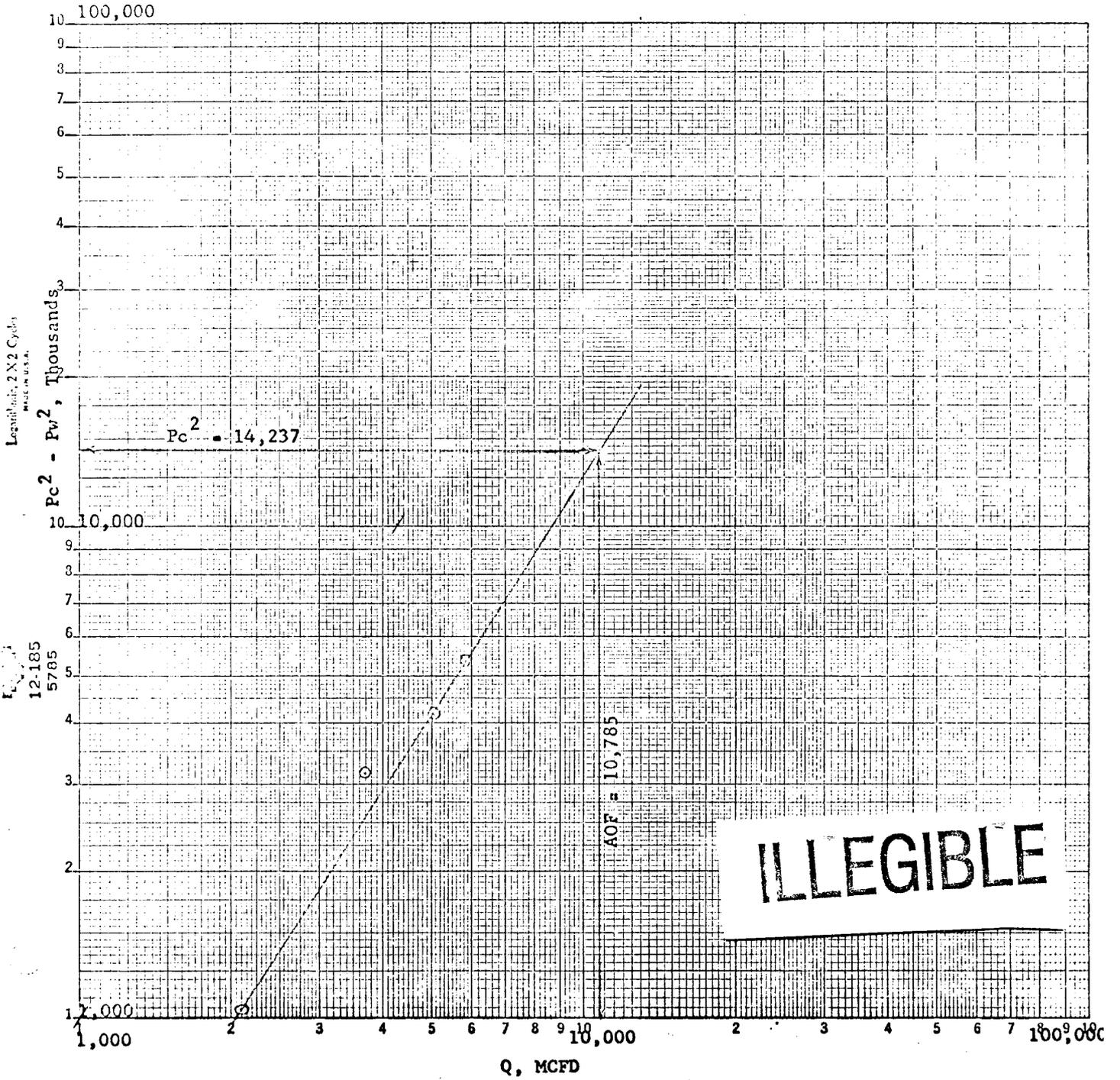
Attached herewith is a One Point Back Pressure Test on Amoco's Malco "S" Federal No. 1, F-11-18-27, Eddy County, New Mexico. Due to a drastic decline in reservoir pressure and low producing rates, it was not feasible to take a Four Point test on this well and the One Point test submitted is based on the maximum flow rate at existing sales line pressures and the slope of the original Four Point test submitted December 28, 1971. As can be seen from the reservoir pressure and cumulative production of 104 MMCF to the last test period, the well is on a rapid decline. We trust these data will fill your requirements for a back pressure test.

Yours very truly,


V. E. STALEY
Area Superintendent

Attachments

moco Production Company
alco "S" Federal No. 1
F-11-18S-27E
12/22/71



NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-69

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 12/22/71		MAR 20 1973					
Company A. C. O. Production Company			Connection None			O. C. O. ARTESIA OFFICE					
Pool Willbeat			Formation Morrow Penn			Unit API No. 30-15-2-510					
Completion Date 12/11/71		Total Depth 10,168		Plug Back TD 10,000		Elevation 3587 KDB					
Casing Size 5-1/2"		Wt. 17#		Set At 4,892		Perforations: From 9621 To 9929					
Tub. Size 2-3/8"		Wt. 4.7		Set At 1,995		Perforations: From Open End To					
Type Well - Single - Brdenhead - G.O. or G.O. Multiple Single				Packer Set At 9491'		County Eddy					
Producing Thru 2-3/8" Top		Reservoir Temp. °F 145 @ 9775		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2					
L 9504		H 9504		G _g 0.630		Prover 6"					
% CO ₂ 0.39		% N ₂ 0.31		% H ₂ S 0		Meter Run 6"					
Taps Slange											
FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow			
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2862		Pkr	-	40 hrs
1.	6.005 x 2.500			565	5.3	110	2639	60	Pkr	-	1 hr
2.	6.005 x 2.500			560	16.0	97	2453	60	Pkr	-	1 hr
3.	6.005 x 2.500			500	27.5	87	2220	60	Pkr	-	1 hr
4.	6.005 x 2.500			660	36.0	81	2035	60	Pkr	-	1 hr
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	30.31	55.34	573.2	0.9551	1.260	1.033	2,096				
2	30.31	95.76	573.2	0.9662	1.260	1.041	2,678				
3	30.31	128.79	603.2	0.9750	1.260	1.048	5,026				
4	30.31	143.56	613.2	0.9804	1.260	1.049	5,836				
5.											
NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	Meq/bbl.					
1	0.95	570	1.57	0.928	76.135	56.0					
2	0.95	557	1.53	0.922		56.0					
3	0.95	567	1.50	0.911		56.0					
4	0.95	541	1.49	0.903		56.0					
5											
P _c 3773.2 P _c 2 10,237					A.P.I. Gravity of Liquid Hydrocarbons			56.0			
					Specific Gravity Separator Gas			0.630			
					Specific Gravity Flowing Fluid			XXXXXX			
					Critical Pressure			673			
					Critical Temperature			364			
					P.S.I.A.			670			
					P.S.I.A.			381			
NO.	P ₁ ²	P _w	R _w ²	P ₁ ² - R _w ²	(1) $\frac{P_1^2}{P_1^2 - R_w^2} = 2.661$		(2) $\left[\frac{R_w^2}{P_1^2 - R_w^2} \right]^n = 1.348$				
1		3632.8	13,197	1,040							
2		3330.2	11,090	3,147							
3		3173.2	10,069	4,168							
4		2981.1	8,857	5,350	AOF = Q $\left[\frac{R_w^2}{P_1^2 - R_w^2} \right]^n = 10,785$						
5											
Absolute Open Flow					10,785		Mcfd @ 15.025				
					Angle of Slope @		Slope, n 0.626				
Remarks: <u>Wt. measured with bottom hole pressure recorder</u>											
Approved By Commission:			Conducted By: Al Klear			Calculated By: Ed Snook		Checked By: Ed Snook			

NO. OF COPIES RECEIVED	5
DISTRIBUTION	
SANTA FE	/
FILE	/
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL /
	GAS /
OPERATOR	/
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
 REQUEST FOR ALLOWABLE
 AND
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

RECEIVED

SEP 13 1976

I. Operator **AMOCO PRODUCTION COMPANY** ✓
 Address **P.O. DRAWER A, LEVELLAND, TEXAS 79336**
O.C.C. ARTESIA, OFFICE
 Reason(s) for filing (Check proper box)
 New Well Change in Transporter of: Oil Dry Gas Condensate
 Recompletion Casinghead Gas
 Change in Ownership
 Other (Please explain) **EFF 8-1-76 FROM: Amoco PRODUCTION COMPANY TO: GAS COMPANY OF NEW MEXICO**

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
MALCO "S" FEDERAL	1	SCOBAIN DRAW-MORROW	State, Federal or Fee FEDERAL	LC-067858
Location				
Unit Letter		Feet From The	Line and	Feet From The
F	1650	NORTH	1653	WEST
Line of Section	Township	Range	NMPM,	County
11	18-S	27-E	EDDY	

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
AMOCO PRODUCTION COMPANY - TRUCKS	Box 1183 - HOUSTON, TEXAS 77001					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
GAS COMPANY OF NEW MEXICO	FIRST INTERNATIONAL BLDG. SUITE 1800 DALLAS, TX 75270					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
	F	11	18	27	YES	12-27-72

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 Restv.	Diff. Restv.
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 Tanks	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. CERTIFICATE OF COMPLIANCE

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

OIL CONSERVATION COMMISSION
 APPROVED **SEP 14 1976**, 19____
 BY **W.A. Grasset**
 TITLE **SUPERVISOR, DISTRICT II**

0:4-NMOC-ART

1- Div

1- JMG

1- Howdo

1- Susp

1- RL

Ray W. Cox

(Signature)

Administrative Assistant

(Title)

9-3-76

(Date)

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

NO. OF COPIES RECEIVED	5
DISTRIBUTION	
SANTA FE	1
FILE	1 ✓
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL 1
	GAS 1
OPERATOR	1
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

RECEIVED

JAN 28 1977

Operator
AMOCO PRODUCTION COMPANY ✓
 Address
P.O. Drawer A, Levelland, Texas 79336
 Reason(s) for filing (Check proper box)
 New Well Change in Transporter of:
 Recompletion Oil Dry Gas From: Gas Company of New Mexico
 Change in Ownership Casinghead Gas Condensate To: Amoco Production Company
 Other (Please explain) Eff. 8-1-76
ARTESIA OFFICE

If change of ownership give name and address of previous owner _____

DESCRIPTION OF WELL AND LEASE

Lease Name Malco "S" Federal	Well No. 1	Pool Name, including Formation Scoggin Draw-Morrow	Kind of Lease State, Federal or Fee Federal	Lease No. LC-067858
--	----------------------	--	--	-------------------------------

Location
 Unit Letter **F**; **1650** Feet From The **North** Line and **1653** Feet From The **West**
 Line of Section **11** Township **18-S** Range **27-E**, NMPM, **Eddy** County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Amoco Production Company - Trucks	Address (Give address to which approved copy of this form is to be sent) Box 1183, Houston, Texas 77001	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Amoco Production Company	Address (Give address to which approved copy of this form is to be sent) P.O. Drawer A, Levelland, Texas 79336	
If well produces oil or liquids, give location of tanks. Unit F Sec. 11 Twp. 18 Rge. 27	Is gas actually connected? Yes	When 12-27-72

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 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

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 Tanks	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

POSTED
ID-3
changed
2-4-77

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

CERTIFICATE OF COMPLIANCE

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

OIL CONSERVATION COMMISSION
 APPROVED JAN 31 1977, 19____
 BY W.A. Gressett
 TITLE _____

Ray W Cox

(Signature)

Administrative Assistant

(Title)

1-26-77

(Date)

O&4 NMOCC-Art

1-Div
1-JMG

1-Hondo
1-Susp
1-RC

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Amoco Production Company ✓

3. ADDRESS OF OPERATOR
P. O. Box 68, Hobbs, NM 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1650' FNL X 1653' FWL, Unit F
AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other)

SUBSEQUENT REPORT OF

DEC 24 1981

OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

5. LEASE
LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
DEC 29 1981

8. FARM OR LEASE NAME
Malco "S" Federal

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Scoggin Draw - Morrow Gas

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
11-18-27

12. COUNTY OR PARISH
Eddy

13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3587' RDB

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.)*

Propose to acidize to increase production as follows: Install Tree Saver. Acidize with 8000 gal. 7-1/2% HCL NEFE acid staged with 150 ball sealers at a rate of 3-5 BPM as follows: (a) Run gamma ray-temp base log; (b) Pump 2000 gal. of acid; (c) inject 25 ball sealers; (d) Pump 1000 gall of acid (e) Repeat (c) and (d) until all acid is pumped; (f) Flush with 37 bbl. of treated 2% KCL water; (g) Run after job gamma ray-temp. treatment evaluation log; and (h) Swab back to recover load. Place well back on production.

0+4- USGS, A 1-Hou 1-Susp 1-CLF

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Cathy L. Ferman TITLE Ast. Adm. Analyst DATE 12-21-81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED

DEC 28 1981

Jr. JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions on Reverse Side

C/SF

Form 9-331
 Dec. 1973

Form Approved.
 Budget Bureau No. 42-R1424

UNITED STATES RECEIVED
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY DEC 9 1982

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
 Amoco Production Company ✓

3. ADDRESS OF OPERATOR
 P. O. Box 68, Hobbs, NM 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 1650' FNL X 1653' FWL, Unit F
 AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E
 AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
 LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Malco "S" Federal

9. WELL NO.
 1

10. FIELD OR WILDCAT NAME
 Scoggin Draw Morrow Gas

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 11-18-27

12. COUNTY OR PARISH
 Eddy

13. STATE
 NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
 3587' RDB

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other)

SUBSEQUENT REPORT OF

RECEIVED

DEC 3 1982

OIL & GAS
 MINERALS MGMT. SERVICE
 ROSWELL, NEW MEXICO

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Propose to fracture stimulate Morrow interval 9621'-9929' (non-continuous) as follows: Pull tubing and packer. Set a packer at apx. 9520'. Fracture stimulate with 20000 gal 40# gelled 2% KCl water commingled with 10000 gal CO2 carrying 20500# 20/40 sand. Flush with 3000 gal 2% KCl brine water and 1000 gal CO2. Flow and kick off well. If well won't flow, pull packer and run 3 joints tubing as tailpipe with 1.81" profile nipple 1 joint off bottom, landing tubing at apx. 9530'. Set a packer in 5½" liner at apx. 9430'. Run on-off tool with 1.875" profile nipple in seal mandrel. Run 2-3/8" tubing to surface and hydro test tubing. Flow test and return well to production.

0+4-MMS,A 1-HOU 1-SUSP 1-CLF

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Cathy L. German TITLE Ast. Adm. Analyst DATE 11-30-82

APPROVED (This space for Federal or State office use)

(Orig. Sgd.) PETER W. CHESTER

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

DEC 8 1982

FOR
 JAMES A. GILLHAM
 DISTRICT SUPERVISOR

*See Instructions on Reverse Side

9/5F

RECEIVED BY
3160-3
(November 1983)
JAN 11 1985
O. C. D.
ARTESIA, NM 88210

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER *Recomplete* SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P.O. Box 68, Hobbs NM 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface *1650' FNL X 1653' FWL*
 At proposed prod. zone *(SE 1/4 NW 1/4 Unit F)*

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 drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

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

22. APPROX. DATE WORK WILL START*

5. LEASE DESIGNATION AND SERIAL NO.
LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Moloo S' Federal

9. WELL NO.
1

10. FIELD AND POOL OR WILDCAT
Chalk Bluff Wolfcamp

11. SEC., T., R., OR BLK. AND SURVEY OR AREA
11-18-27

12. COUNTY OR PARISH
Eddy

13. STATE
NM

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11 3/4"	47#	1000'	570 lbs
11"	8 5/8"	32#	6348'	300 lbs
7 7/8"	5 1/2" liner	17#	6277-10138'	855 lbs

Propose to abandon the Morrow and recomplete to the Wolfcamp as follows:

- 1) POH with production equipment
- 2) RIH and set CIBP at 9500' and cap with 35' (5000) class H' neat cmt. Top of Morrow is at 9490'.
- 3) Spot a 250' (2500) class H' neat plug from 7860-7610. x Place mud between plugs
- 4) Run CBL from 7500-6500'.
- 5) If there is not a good cmt. bond between 7000'-7400' a supplemental procedure to

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 *Harry C. Clark* TITLE *Asst. Admin. Analyst* DATE *1-7-84*

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY *L. Mark Spitzer* TITLE *Asst. Dir.* DATE *1-9-85*

CONDITIONS OF APPROVAL, IF ANY:
0+5 BLM, C 1-JRB 1-FJN 1-GCC 2-NMOC, A

*See Instructions On Reverse Side

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

place cmt. behind pipe will be issued.

- ⑥ Perforate Wolfcamp intervals 7046-62, 7090-7100, and 7382-88 w/4 DPTS PF using a 3 1/8" gun.
- ⑦ RIH with RBP, thg, and pkr. Set RBP at 7450', pkr. at 7280'.
- ⑧ Swab and flow test well
- ⑨ Stimulate Wolfcamp 7382-88' with 1000 gals 15% NEFE HCl gelled acid w/add. and 1000 gals nongelled 15% NEFE HCl w/add. Flush with 30 bbls fresh water.
- ⑩ Swab and flow test well
- ⑪ Release pkr, lower and latch onto RBP. Pull up RBP to 7200' and spot 10' sand on top. Set pkr at 6850'.
- ⑫ Swab and flow test gross interval 7046'-7100'.
- ⑬ Stimulate Wolfcamp 7046-62' and 7090-7100' as follows:
 - * Tag all acid w/RA material
 - a) Run before treatment GA Temp survey 7170'-6800'
 - b) Pump 4000 gals 15% NEFE HCl gelled acid w/add in 2 equal stages
 - c) Pump 1000 gals 15% NEFE HCl acid w/add
 - d) flush acid with 29 bbls fresh water
 - e) Run after treatment survey 7170'-6800'
- ⑭ Swab and flow test well
- ⑮ Release pkr and POH with RBP, pkr, and thg.
- ⑯ RIH with 2 3/8" thg with seating nipple on bottom. Land thg at 7450' and anchor at 7350'
- ⑰ Run rods and pump and return well to production.

W MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

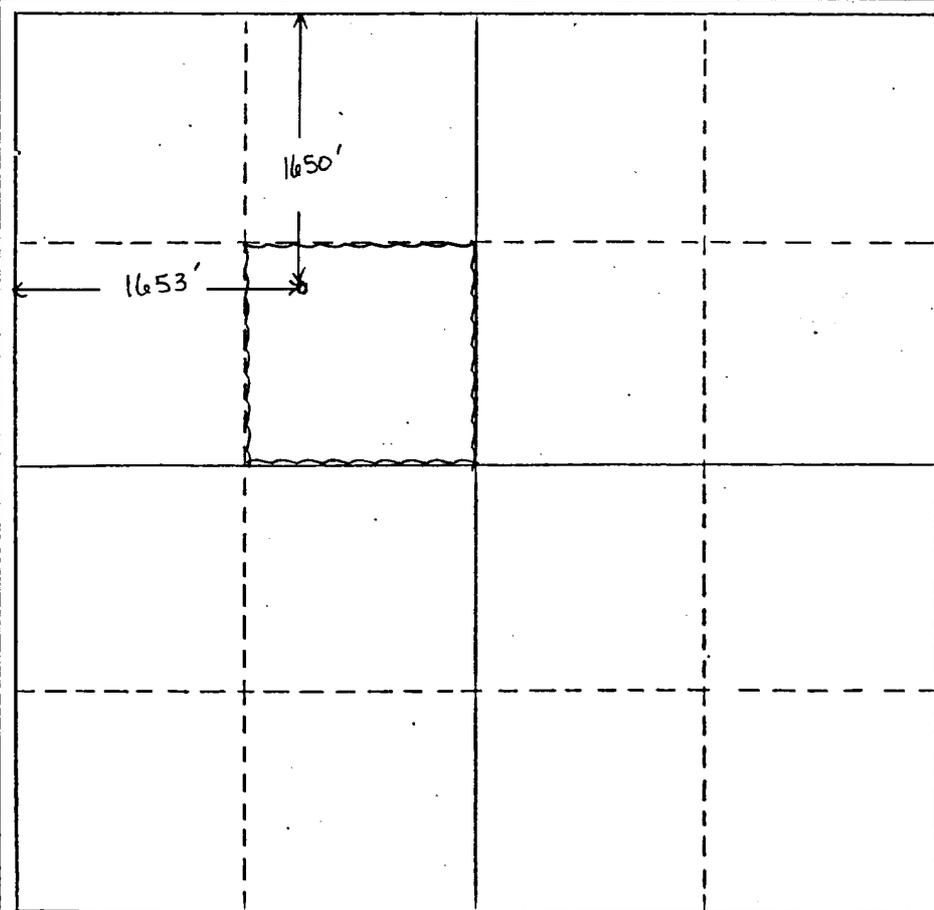
Operator <i>Amoco Production Company</i>		Lease <i>Malco "S" Federal</i>			Well No. <i>1</i>
Unit Letter <i>F</i>	Section <i>11</i>	Township <i>18-S</i>	Range <i>27-E</i>	County <i>Eddy</i>	
Actual Footage Location of Well: <i>1650</i> feet from the <i>North</i> line and <i>1653</i> feet from the <i>West</i> line					
Ground Level Elev. <i>3587 RDB</i>	Producing Formation <i>Wolfcamp</i>		Pool <i>Chalk Bluff Wolfcamp</i>	Dedicated Acreage: <i>40</i> 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 Commission.



CERTIFICATION

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

Name	<i>Harry C. Clark</i>
Position	<i>Asst. Admin. Analyst</i>
Company	<i>Amoco Production Company</i>
Date	<i>1-7-85</i>

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

Date Surveyed	
Registered Professional Engineer and/or Land Surveyor	
Certificate No.	

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	✓
FILE	✓
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL ✓ GAS ✓
OPERATOR	✓
PRODUCTION OFFICE	

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RECEIVED BY
MAR 6 1985
C. C. D.
ARTESIA, OFFICE

Revised 10-01-78
Format 06-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator Amoco Production Company ✓

Address P.O. Box 18, Hobbs NM 88240

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	<input type="checkbox"/> Change in Transporter of:	Other (Please explain) <u>Request 1000 bbl testing allowable</u> <u>7090 - 7388 (Wolfecamp perfor)</u> <u>FOR MARCA</u>
<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Dry Gas <input type="checkbox"/> Condensate	

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Makes S' Federal</u>	Well No. <u>1</u>	Pool Name, including Formation <u>Chalk Bluff Wolfecamp</u>	Kind of Lease State <u>(Federal)</u> or Fee <u>LC-067858</u>	Lease No. <u>LC-067858</u>
Location Unit Letter <u>F</u> : <u>1650</u> Feet From The <u>North</u> Line and <u>1653</u> Feet From The <u>West</u>				
Line of Section <u>11</u> Township <u>18-S</u> Range <u>27-E</u> , NMPLA, <u>Eddy</u> 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"/> <u>The Permian Corporation</u> Permit # <u>911/87</u>	Address (Give address to which approved copy of this form is to be sent) <u>P.O. Box 1183, Houston TX 77001</u>					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Range	Is gas actually connected? <u>1/6</u>	When

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

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. 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 is true and complete to the best of my knowledge and belief.

Mary C. Clark
(Signature)
Asst. Admin. Analyst
(Title)
3-1-85
(Date)
015 NM00D, A 1-JRB 1-FJN 1-600

OIL CONSERVATION DIVISION
APPROVED MAR 6 1985, 151
BY Leslie 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 deepened well, this form must be accompanied by a tabulation of the deviation route taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter or other such change of condition.
Separate Forms C-104 must be filled for each pool in multiply completed wells.

IV. COMPLETION DATA

Designate Type of Completion - (X)		Oil well	Gas well	New well	Workover	Deepen	Plug back	Same Res'v.	Dill. Res'
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 (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 Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)		
Length of Test	Tubing Pressure	Casing Pressure	Casing 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 (Ghst-in)	Casing Pressure (Ehst-in)	Casing Size

OIL CONSERVATION DIVISION

Drawer DD Artesia, NM.

DISTRICT OFFICE #2

Jan. thru Apr. 1985
NO. 2159 T

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE March 6, 1985

PURPOSE ALLOWABLE ASSIGNMENT - TESTING

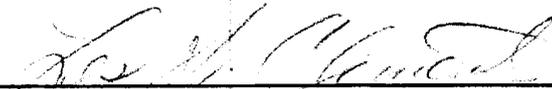
Effective March 1, 1985 a testing allowable of 1000 barrels of oil is hereby assigned to Amoco Production Company, Malco "S" Federal #1-F-11-18-27 in the Chalk Bluff Wolfcamp Pool for the month of March, 1985.

LAC:fc

Amoco Prod. Co.

PER

OIL CONSERVATION DIVISION



DISTRICT SUPERVISOR



Amoco Production Company

ENGINEERING CHART

SHEET NO. _____ OF _____

FILE _____

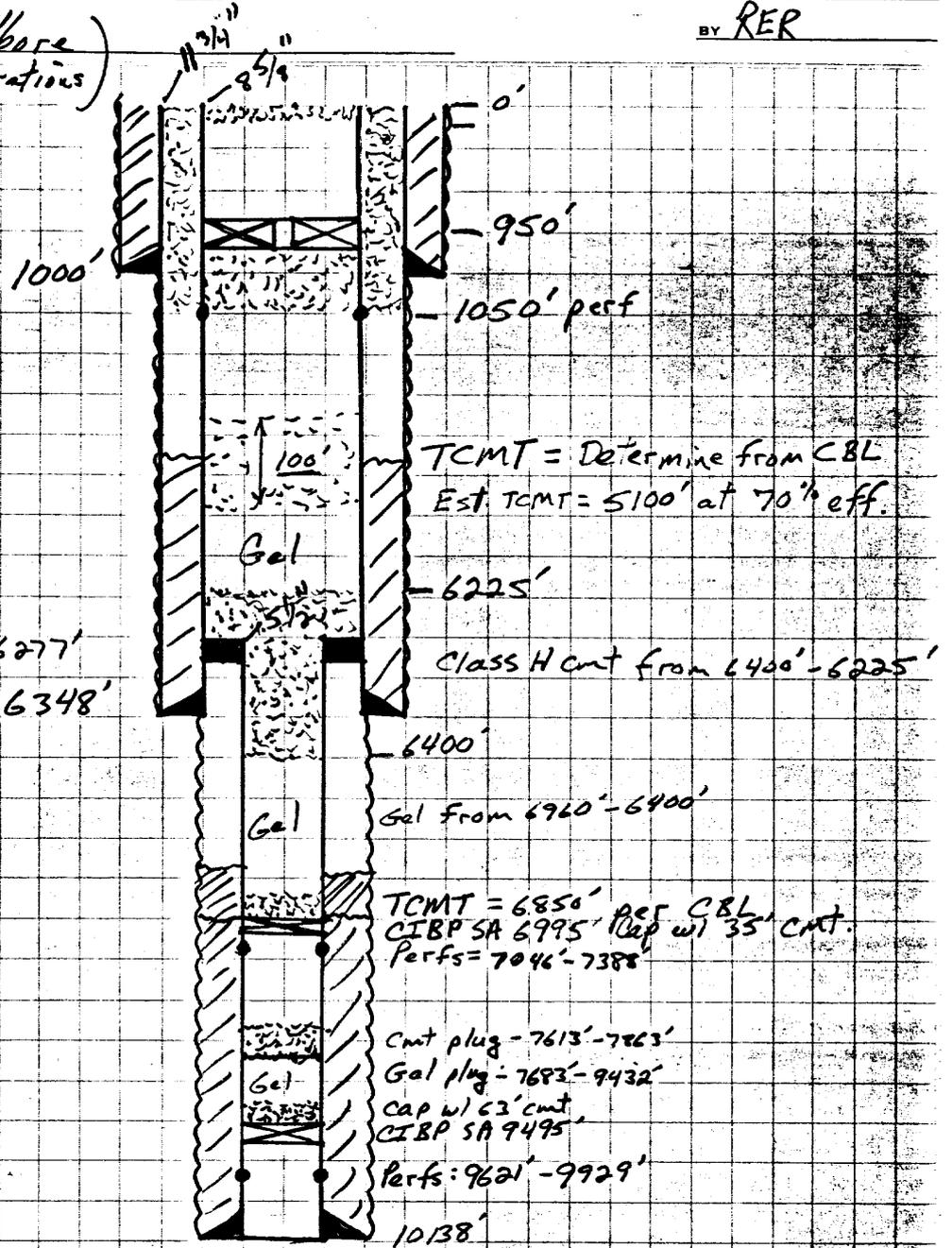
APPN _____

DATE 9/27/85

BY RER

SUBJECT Malco's Federal No 1

(Proposed Wellbore after P&A operations)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions
verse side)

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

clsp

Artesia, NM 88210

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 TO DRILL" for such proposals)

RECEIVED BY
NOV 15 1985
O. C. D. OFFICE

5. LEASE DESIGNATION AND SERIAL NO. LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME Malco "S" Federal

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT Chalk Bluff Wolfcamp

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-18-27

12. COUNTY OR PARISH Eddy 13. STATE NM

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR P.O. BOX 68 HOBBS, NEW MEXICO 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface 1650' FNL x 1653' FWL
(UNIT F, SE14, NW14)

14. PERMIT NO. 3001520510 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3587' RDB

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Propose to permanently Plug & Abandon as follows: Notify BLM prior commencing operations.

1. MISU and POH with rods, pump, and tubing.
2. RIH with CIBP and set at 6995'. Cap CIBP with 35' class H cement. Run CBL from 6000' to TCMT.
3. Displace hole from 6960' to surface with .9# gal gelled brine (at least 25 SX gel/100 BB brine).
4. Spot 32 SX class H ^{Neat} cement from 6400'-6225'. (Cover 8 7/8" csg. shoe and top of 5 1/2" liner.)
5. Spot 26 SX class C Neat cement (±100') across the TCMT found in step 2 above.
6. Perforate 8 7/8" casing from 1050'-1049' with 4 JSDF.
7. RIH with 8 7/8" cement retainer. Set retainer at ±950'. String into retainer and pump 300 SX class C Neat cement and circulate to surface thru 8 7/8" and 11 7/8" bradhead outlet.
8. Spot 10 SX Class C Neat cement from 40' to surface. Remove well head and install P&A Marker.

0 + 5 BLM, 1 - JRB, 1 - FJN, 1 - CMH

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

SIGNED Charles M. Lanning TITLE Administrative Analyst (SG) DATE 9/30/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE 11-14-85

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLI
(Other instruction
reverse side)

ATE*
n re

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-067858

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 DRILLING

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Hondo Production Company ✓

8. FARM OR LEASE NAME

MALCO "A" Federal

3. ADDRESS OF OPERATOR
P.O. Box 110888, N. M. 88240

9. WELL NO.

3

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

10. FIELD AND POOL, OR WILDCAT

WILDCAT

1650' FNL x 1653' FWL Sec 11 (Unit F. SE 1/4 NW 1/4)

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

11-18-27 NMPM

14. PERMIT NO.

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

12. COUNTY OR PARISH

13. STATE

EDDY

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) Spudding

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.)

Noble Dring Co spudded 15" hole 2:30 PM 10-16-71.
On 2-18-71, 11 3/4" OD 47" K-55 casing was set @ 1000' w/ 970 Sx Incon + 2% CACL + 570# Top plug. Cement circ. After WOC 18 hours. Tested (opg w/ 2000 psi for 30 min. Test O.K.
Reduced hole to 11" @ 1000' and resumed drilling.

RECEIVED

OCT 22 1971

O. C. C.

ARTESIA, OFFICE

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

SIGNED

TITLE

AREA SUPERINTENDENT

DATE

OCT 20 1971

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL IF ANY

TITLE

DATE

- 4- USGS
- 1- ACJ
- 1- SUSP
- 2- HONDO-Roswell

APPROVED

OCT 21 1971

H.L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-057858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

MALCO A Federal

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

11-18-27 NMPM

12. COUNTY OR PARISH

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. CIL. WELL GAS WELL OTHER DRILLING

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
BOX 63, HOBBS, N. M. 88240

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

1650' FNL x 1653' FNL Sec. 11 (F, SE 1/4 NW 1/4)

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3587' R. D. B.

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 COMPLETE
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 pertinent to this work.)

On 11-9-71, 8 5/8" OD 24-36" casing was set @ 6348' w/ 300 sq. class H. neat. after 7:00. 18 hours, tested casing w/ 1500 psi for 30 min. Test O.K.

Reduced hole to 7 7/8" @ 6348' and resumed drilling.

RECEIVED

NOV 16 1971

D. C. C.
ARTESIA, OFFICE

RECEIVED

NOV 15 1971

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED _____

TITLE AREA SUPERINTENDENT

DATE NOV 14 1971

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL _____

TITLE _____

DATE _____

01 4 USGS-AR
1- DIV
1- SUSP
1- RRY
2- HONDO-Roswell
NOV 15 1971
L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

N. M. O. C. C. COPY

SUBMIT IN TR (Other instructions
verse side)

DATE on re

Form approved. Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

10-10-27

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
1000 Production Company /

DEC 29 1972

3. ADDRESS OF OPERATOR
1000, ROSS, N. M. 88240

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

1000 P.M. & 1000 F.W. Sec. 11 (E, SE/4 NW/4)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

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

14. PERMIT NO.

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

3587' B. D. B.

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:

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 PROMISED 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.)

On 12-7-71, 5 1/2" casing liner set from 6277' to 10138'.
Cemented w/ 5005x. Class H 4 1/2" Jct. 24912 CFR-2
class 23504. Class H w/ 247 1/2" CFR-2. Ret. 45 cu.
TEMP 7125-TEMP SURVEY. Cased casing w/ 2000 psi
Jct 25 man. Test O.K. d/o. Tap lines w/ 1255x
class C & 24 1/2" CFR-2. Prod Coy 2000 psi. OK.
Prod 3621-27, 67-72, 82, 86 w/ 25PF.

Evaluating.

RECEIVED

DEC 29 1971

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

TD-10103

~~Well 1000 changes from: Malco A. Turner Well No.~~

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

SIGNED

TITLE

AREA SUPERINTENDENT

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DISTRICT ENGINEER

DATE

CONDITIONS OF APPROVAL, IF ANY:

Copy UCCS-117
1-01V
1-355P
1-111
2-11012

DEC 29 1971

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUP. ATE*

(See other instructions on reverse side)

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

copy 1/2

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY RECEIVED

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR Other

2. NAME OF OPERATOR: Amoco Production Company ✓ JAN 7 1972

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: 1650 FNLV 1653 FWL Sec. 11 (7. SW/4 NW/4)
At top prod. interval reported below:
At total depth:

14. PERMIT NO. DATE ISSUED: 11-18-27 NMPM

15. DATE SPUNDED: 10-16-71
16. DATE T.D. REACHED: 12-5-71
17. DATE COMPL. (Ready to prod.): 12-20-71
18. ELEVATIONS (DF, REB, RT, GR, ETC.): 3587 R.D.B.

20. TOTAL DEPTH, MD & TVD: 10,168
21. PLUG, BACK T.D., MD & TVD: 10,000
22. IF MULTIPLE COMPL., HOW MANY?
23. INTERVALS DRILLED BY: 0-TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 9621-9929'

26. TYPE ELECTRIC AND OTHER LOGS RUN: GR-N, PROX, POROSITY, ETC.

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4"	47#	1000'	15"	970 Sx	
8 5/8"	32#	6348'	11"	300 "	
5 1/2" LINER	17#	6277-10138'	7 7/8"	855 "	

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	9504	9491

31. PERFORATION RECORD (Interval, size and number):
9621-27', 67-72', 82', 86',
9735', 39', 42', 42', 75-84', 91-95',
9851-56', 58', 64', 66',
9929'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD): 9735-9929'
AMOUNT AND KIND OF MATERIAL USED: 300 gal 10% HCF x 3% HCL

33.* PRODUCTION

DATE FIRST PRODUCTION: 12-16-71
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): FLW
WELL STATUS (Producing or shut-in): SHUT-IN

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-2-72	4	VARIOUS	→	9.3	708	0	76 1/36

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
2035-2689	PKR	→	56	10785	0	54°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.):
TO BE SOLD - MARKET PENDING

35. LIST OF ATTACHMENTS: NONE

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

SIGNED: [Signature] TITLE: AREA SUPERINTENDENT

5. LEASE DESIGNATION AND SERIAL NO.: LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME: MALCO FEDERAL

9. WELL NO.: 3

10. FIELD AND POOL, OR WILDCAT: Scoggin Draw - Menow-Gas WILDCAT R-4291

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA: 5-1-72

12. COUNTY OR PARISH: EDDY

13. STATE: N.M.

25. WAS DIRECTIONAL SURVEY MADE: No

27. WAS WELL CORED: No

RECEIVED
JAN - 6 1972
U.S. GEOLOGICAL SURVEY
ARTESIAN NEW MEXICO

3- USGS-ART
1-DIV
1-well file
1-RBY
2-HOWDO

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

INSTRUCTIONS

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.

Item 1: 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 2: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 3: 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) and bottom(s) and name(s) (if any) for 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 23: "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.)

INFORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	TOP
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	12621 Ann Morrow	9929	Gas and Dirt Zone 10000 15-2-51 15-2-51	Queen Lyburg Sam And Also Wolfcamp Also Canyon Ochoa Chester	MEAS. DEPTH 1020 1516 1887 3457 5087 58405 7745 8365 8277 9960

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE
(Other instruction reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
LC-007050

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
MALCO'S Federal

9. WELL NO.
1

10. FIELD AND POOL OR WILDCAT
WILDCAT E-4291

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
8-1-72

12. COUNTY OR PARISH 13. STATE
EDDY 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 reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

FEB 3 1972

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Production Company

3. ADDRESS OF OPERATOR
D. C. C. ARTESIA, OFFICE

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1650' FNL x 1653' FWL Sec. 11 (Unit F, SE/4 NW/4)

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, CR, etc.)
3587' RDB

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

*Well name and number changed
From: MALCO "A" Federal Well No. 3
To: MALCO S Federal Well No. 1*

Completion horizon and type will occasioned changes.

RECEIVED
JAN 21 1972
U. S. GEOLOGICAL SURVEY

18. I hereby certify that the foregoing is true and correct
SIGNED _____ TITLE **AREA SUPERINTENDENT** DATE **JAN 19 1972**

(This space for Federal or State office use)
APPROVED BY *[Signature]* TITLE **DISTRICT ENGINEER** DATE **FEB 2 1972**

*04-UEGS-NLT
1-DIV
1-SUSP
1-RRY
2-HONDO*

*See Instructions on Reverse Side

NO. OF COPIES RECEIVED	5
DISTRIBUTION	
SANTA FE	1
FILE	1
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL 1 GAS
OPERATOR	
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
RECEIVED
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS
(DEVIATION SURVEYS - BACK SIDE)
DEC 29 1972

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

O. C. C.

API-30-015-20510

I. Operator: **Amoco Production Company** **ARTESIA, OFFICE**

Address: **BOX 68, HOBBS, N. M. 88240**

Reason(s) for filing (Check proper box) Other (Please explain)

New Well Change in Transporter of: Oil Dry Gas

Recompletion Casinghead Gas Condensate

Change in Ownership

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name MALCO "S" FEDERAL	Well No. 1	Pool Name, Including Formation SCOGGIN DRAW-MORROW	Kind of Lease State, Federal or Fee FED	Lease No. LC-067858
Location Unit Letter F ; 1650 Feet From The NORTH Line and 1653 Feet From The WEST				
Line of Section 11 Township 18-S Range 27-E , 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 Production Company (Trucks)	Address (Give address to which approved copy of this form is to be sent) P. O. Box 3119, Midland, Texas 79701			
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Amoco Production Company (DAU)	Address (Give address to which approved copy of this form is to be sent) P. O. Box 68, Hobbs, New Mexico 88240			
If well produces oil or liquids, give location of tanks.	Unit F	Sec. 11	Twp. 18-S	Rge. 27-E
Is gas actually connected? When				Yes 12-27-72

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

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 10-16-71	Date Compl. Ready to Prod. 12-20-71		Total Depth 10,168'		P.B.T.D. 10,000'			
Elevations (DF, RKB, RT, GR, etc.) 3587' RDB	Name of Producing Formation Penn-Morrow		Top Oil/Gas Pay 9,621		Tubing Depth 9,504'			
Performances 9621'-27', 67'-72', 82', 86', 9735', 39', 42', 72', 75'-84', 91'-95', 9851'-56', 58', 64', 66', 9929'					Depth Casing Shoe 10,138'			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
15"	11-3/4"		1000'		970 SX			
11"	8-5/8"		6348'		300 SX			
7-7/8"	5-1/2"		6277'-10138'		855 SX			
2 3/8" 9504 PKR @ 9491								

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 Tanks	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 AAOF - 10785	Length of Test 4 Hr.	Bbls. Condensate/MMCF 12	Gravity of Condensate 54°
Testing Method (pitot, back pr.) 4 - Pt	Tubing Pressure (shut-in) 2862	Casing Pressure (shut-in) PKR	Choke Size VARIOUS

VI. CERTIFICATE OF COMPLIANCE

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

OIL CONSERVATION COMMISSION

APPROVED **DEC 29 1972**, 19 _____

BY **W. A. Gressett**

- 0 & 4 - NMOCC-Art.
- 1 - Div
- 1 - JEL
- 1 - OBP
- 1 - Susp
- 1 - RRY
- 2 - Hondo

James E. J. [unclear]

(Signature) AREA SUPERINTENDENT

Engineer

(Title)

12-27-72

(Date)

TITLE OIL AND GAS INSPECTOR

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

DEVIATION SURVEYS

<u>DEPTH</u>	<u>DEGREES OFF</u>
740	1/2
1300	1/4
1670	1/4
2040	1/4
2460	1/2
2790	1/2
2970	1-1/4
3500	3/4
4000	3/4
4560	1°
4890	1°
5100	1-1/4
5610	1
6020	2-1/2
6195	2-1/2
6345	2
6970	2-1/4
7510	1
8152	1-3/4
9430	3/4
10165	1

The above are true to the best of my knowledge.

James E. Smith

AREA SUPERINTENDENT

Engineer

Sworn to this date. *December 27, 1972*

Dr. Marked

NOTARY PUBLIC IN & FOR LEA COUNTY, NEW MEXICO

MY COMMISSION EXPIRES

6-15-76

NEW MEXICO COMMISSION
 ARTESIA, NM 88210

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Amoco Production Company ✓

3. ADDRESS OF OPERATOR
P. O. Box 68, Hobbs, New Mexico 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 1650' FNL x 1653' FWL, Unit F
 AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E
 AT TOTAL DEPTH:

5. LEASE
LC-067858 **RECEIVED**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
MAY - 6 1982

7. UNIT AGREEMENT NAME
O. C. D.

8. FARM OR LEASE NAME
Malco "S" Federal ARTESIA, OFFICE

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Scoggin Draw-Morrow Gas

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
11-18-27

12. COUNTY OR PARISH | 13. STATE
Eddy | NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3587' RDB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Moved in service unit 3-2-82. Ran swab for 8 hrs. with initial fluid level 2100 ft. from surface. Final fluid level 9400 ft. from surface. Ran gamma ray temp. log. Pumped 8000 gal 7-1/2% HCL NEFE acid with additives staged with 150 ball sealers. Ran after gamma ray and temp. treatment log. Ran swab with light show of gas. Moved out service unit 3-8-82. Flow tested for 48 hrs. and flowed 342 MCF. Returned well to production.

0+4-USGS, A 1-Hou 1-Susp 1-CLF

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED Cathy L. Ferman TITLE Ast. Adm. Analyst DATE 3-16-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD
[Signature]
APR 27 1982
 U.S. GEOLOGICAL SURVEY
 ROSWELL, NEW MEXICO

RECEIVED
MAR 22 1982
 OIL & GAS
 U.S. GEOLOGICAL SURVEY
 ROSWELL, NEW MEXICO

*See Instructions on Reverse Side

NM OIL & GAS CO. - ROSWELL
 Denver 80
 Artesia, NM 88210

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

C/SF

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Amoco Production Company /

3. ADDRESS OF OPERATOR
P. O. Box 68, Hobbs, New Mexico 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 1650' FNL x 1653' FWL, Unit F
 AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E
 AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	

5. LEASE <u>LC-067858</u>	
6. IF INDIAN, ALLOTTEE OR TRIBAL RECEIVED	
7. UNIT AGREEMENT NAME <u>MAY - 4 1982</u>	
8. FARM OR LEASE NAME <u>Malco "S" Federal</u> O. C. D.	
9. WELL NO. <u>1</u> ARTESIA, OFFICE	
10. FIELD OR WILDCAT NAME <u>Scoggin Draw-Morrow Gas</u>	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>11-18-27</u>	
12. COUNTY OR PARISH <u>Eddy</u>	13. STATE <u>NM</u>
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) <u>3587' RDB</u>	

RECEIVED
 (NOTE: Report results of multiple completion or zone change on Form 9-330.)
 APR 23 1982

OIL & GAS
 U.S. GEOLOGICAL SURVEY
 ROSWELL, NEW MEXICO

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.)*

Moved in service unit 4-5-82. Swabbed 6 hrs. with initial fluid level 5000 ft. from surface. Final fluid level 9000 ft. from surface. Pumped 5500 gal XL-4 gel, 2750 gal CO2, and 2310# 20/40 sand. Pumped 2500 gal XL-4 gel, 1-1/4 gal CO2, and 2310# 20/40 sand. Flushed with 48 bbls 10# gel. Flow tested for 96 hrs. and flowed 12 BC, 12 BLW, 4 BW, and 3108 MCF. Returned well to production.

0+4-USGS, A 1-Hou 1-Susp 1-CLF

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Cathy L. Gorman TITLE Ast. Adm. Analyst DATE 4-19-82

(This space for Federal or State office use)

APPROVED BY CONDITIONS OF APPROVAL, IF ANY: <div style="text-align: center;"> ACCEPTED FOR RECORD PETER W. CHESTER MAY 3 1982 U.S. GEOLOGICAL SURVEY ROSWELL, NEW MEXICO </div>	TITLE _____ DATE _____ <small>See Instructions on Reverse Side</small>
--	---

C/SF

Form 9-331
 Dec. 1973

Form Approved.
 Budget Bureau No. 42-R1424

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

5. LEASE LC-067858	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Malco "S" Federal	
9. WELL NO. 1	
10. FIELD OR WILDCAT NAME Scoggin Draw Morrow Gas	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-18-27	
12. COUNTY OR PARISH Eddy	13. STATE NM
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 3587' RDB	

RECEIVED
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 Form 9-331-C for such proposals.)
JUN 11 1983

1. oil well gas well other **O.C.D.**

2. NAME OF OPERATOR
Amoco Production Company **ARTESIA, OFFICE**

3. ADDRESS OF OPERATOR
P. O. Box 68, Hobbs, New Mexico 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 1650' FNL X 1653' FWL, Unit F
 AT TOP PROD. INTERVAL:
 AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input checked="" type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Moved in service unit 1-11-83. Killed well with 50 bbls 10# 2% KCL water. Pulled tubing and packer. Ran packer and 2-7/8" tubing and tested to 8000 psi. Packer set at 9515'. Fractured with 20,000 gal 40# gelled 2% KCL water and 10,000 gals. CO2 carrying 20,500# sand. Flushed with 71 bbl 10# 2% KCL water. Flowed well on 32/64" choke for 1/2 hrs. at 75 psi. Flowed 3 hrs. on 48/64" choke at 50 psi. Well died. Pulled tubing and packer. Ran 2-3/8" tubing, F-nipple, 2-3/8" tubing, packer, on-off tool and 2-3/8" tubing. Packer set at 9432' and tailpipe landed at 9527'. Swabbed 8 hrs. and recovered 60 BLW with Strong show of gas. Moved out service unit 1-16-83. Moved in and rigged up Swab unit 1-16-83. Swabbed 12 days. Moved out Swab unit 2-1-83. Connected well to gas sales line 2-2-83. Flowed 144 hrs. and produced 0 BF and 701 MCF. Last 24 hrs flowed 0 BF and 120 MCF. Returned well to production.

Subsurface Safety Valve: Mark and Type 0-4-BLM-R-1-HOU 1-SUSP 1-CMH 1-W. Stafford, HOU Set @ _____ Ft.

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

SIGNED Charles M. Leary TITLE Ast. Adm. Analyst

(This space is for use by the Bureau.)
ACCEPTED FOR RECORD

APPROVED BY _____ TITLE _____
 CONDITIONS OF APPROVAL, IF ANY:

DATE FEB 16 1983

JUL 7 1983

RECEIVED

MINERAL SERVICE
 ROSWELL, NEW MEXICO

*See Instructions on Reverse Side
 ROSWELL, NEW MEXICO

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED BY
FEB 28
SUNDRY NOTICES AND REPORTS ON WELLS

Use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

5. LEASE DESIGNATION AND SERIAL NO.
LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Malco S Federal

9. WELL NO.
1

10. FIELD AND POOL OR WILDCAT
Chalk Bluff Holcamp

11. SEC., T., E., M., OR 1/4 AND SURVEY OR AREA
11-18-27

12. COUNTY OR PARISH
Eddy

13. STATE
NM

1. OIL GAS OTHER **Recompletion**

2. OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P.O. Box 68, Hobbs, NM 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
**1650' FNL X 1653' FWL
(SE/4, NW/4, Unit F)**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3587' RDB

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recombination 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.)

MISU 1-21-85. Released pks. and pulled tbg. Ran cast iron bridge plug and set at 9495'. Pumped 5 sx Class H cmt. Spotted gel plug 9432'-9683'. Spotted 25 sx Class H plug 7863'-7613'. Pulled tbg. Perf'd 7046'-7662', 7090'-7100', 7382'-7388' with 4 SPF. Ran tbg., pks. and set retrievable bridge plug at 7444'. Pulled tbg. and set pks. at 7280'. Swbd. Acidized with 1000 gals. 15% NEFE HCL and 1000 gals. 5% HCL. Swbd. Released pks. and reset at 6842'. Tested pks. to 500 PSI and OK. Set retrievable bridge plug at 7200'. Tested VRBP to 500 PSI and OK. Swbd. Ran before-treatment survey and acidized with 5000 gals. gelled 15% NEFE HCL. Jagged radio active material. Ran after-treatment survey. Swbd. Released pks. and pulled tbg. and ran retrievable head, seating nipple and tbg. to 7188'. Cleaned out sand to 7200'. Ran seating nipple,

0+5-BEM, C 1-JRB 1-FJN 1-GCC 2-NMOC, A

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

SIGNED **Bonita Coble** TITLE **Administrative Analyst** DATE **2-22-85**

(This space for Federal or State office use)

APPROVED BY **[Signature]** TITLE _____ DATE _____

CONDITIONS OF APPROVAL IF ANY:
[Signature]
FEB 28 1985

**Post FD-2
3-8-85
P+H Marrow**

*See Instructions on Reverse Side

tail-pipe, tbg., and tbg. anchor. Seating nipple landed at 7441',
and set tbg. anchor at 7005'. Ran rods and pump. MOSU
1-30-85. Built wellhead and connected to flow line on 1-31-85.
Began pump testing 2-1-85. Pump tested approx. 8 days. Last
24 hrs. pumped 10 BX 180 BW X 0 MCF. MISU 2-VI-85.
Pulled rods and pump. Pulled tbg. and ran pks., seating
nipple and tbg. Retrivable bridge plug set at 7150'. Tested
RBP to 1000 PSI and OK. Set pks. bar 7073'. Swld. Released pks.,
ran tbg. and latched on to RBP. Pulled tbg. Ran Cast iron
bridge plug and set at 7080'. Ran cmb. ret. and set at 6962'.
Pumped 75 sx Class H Neat. Reversed out 5 sx cmb. POOH.
Dulled out cmb. to 7070'. Ran tbg. and tagged cast iron bridge
plug at 7080'. Pulled tbg., drill collar and bit. Ran cmb.
retainer and set at 6955'. Squeezed 125 sx Class H cmb and
10 sx below retainer and 103 sx information. Reversed out 12 sx
and pulled tbg.

C/S

Form 3160-25

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

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

RECEIVED BY MAR 13 1985 O.C.D. ARTESIA, OFFICE

BUREAU OF LAND MANAGEMENT

NOTICE 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.)

5. LEASE DESIGNATION AND SERIAL NO. LC-067858
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Malco's Federal
9. WELL NO. 1
10. FIELD AND POOL, OR WILDCAT Chalk Bluff Wolfcamp
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-18-27
12. COUNTY OR PARISH Eddy
13. STATE NM

1. OFFICE ARTESIA, OFFICE
2. NAME OF OPERATOR Amoco Production Company
3. ADDRESS OF OPERATOR P.O. Box 68, Hobbs NM 88240
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1650' FNL X 1653' FWL (Unit F, SE/4 NW/4)
14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3587' RDB

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) Production start-up
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.)

This is to inform you that production from pump testing began on the Malco's Federal No. 1 2-26-85. Produced 9 BO, 150 bbl w, and 0 gas. The subject well is currently being recompleted from the morrow to the Wolfcamp.

0+5 BLM,R 1-JRB 1-FJN 1-GCC cc-BLM,C

18. I hereby certify that the foregoing is true and correct
SIGNED Gary C. Clark TITLE Asst. Admin. Analyst DATE 2-27-85

APPROVED BY ACCEPTED FOR RECORD CONDITIONS OF APPROVAL: NONE TITLE DATE

MAR 12 1985

*See Instructions on Reverse Side

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TR
CATE*

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

dst

RECEIVED BY
O. C. D.
ARTESIA, OFFICE

LEASE DESIGNATION AND SERIAL NO.

LC-067858

SUNDRY NOTICES AND REPORTS ON WAPPS 12 1985

(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: Amoco Production Company

3. ADDRESS OF OPERATOR: P.O. Box 68, Hobbs NM 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface: 1650' FNL X 1653' FWL (Unit F, SE 1/4 NW 1/4)

5. DRAWER NO. COMMISSION: Drawee DD, Artesia, NM 88210

6. FARM OR LEASE NAME: Malco S Federal

7. WELL NO.: 1

8. FIELD AND POOL, OR WILDCAT: Chalk Bluff Wolfcamp

9. SEC., T., E., M., OR BLK. AND SURVEY OR AREA: 11-18-27

10. PERMIT NO.: 15. ELEVATIONS (Show whether OF, HT, GR, etc.): 3587' RDB

11. COUNTY OR PARISH: Eddy

12. STATE: NM

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Status Update <input checked="" type="checkbox"/>	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled out cmt retainer to 7071 and pressure tested to 1000 psi for 30 min, OK. Drilled out and cleaned out to 7504. Circulated clean and POH. Ran production equipment, tail pipe landed at 7432. Began pump testing 2-23-85. Pump tested approx 20 days, last 24 hrs pumped 0 BO, 110 BW, and 0 MCF. Well is currently shut in for evaluation.

045 BLM, C 1-JRB 1-FJN 1-GCC

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

SIGNED: Mary C. Clark TITLE: Asst. Admin. Analyst DATE: 4-2-85

(This space for Federal or State office use)

ACCEPTED FOR RECORD

APPROVED BY: [Signature] TITLE: _____ DATE: _____

CONDITIONS OF APPROVAL, IF ANY:

APR 11 1985

*See Instructions on Reverse Side

Section 1001, Title 18 U.S.C. 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.

c15f

RECEIVED BY MAY 13 1985

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

LC-067858

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: ARTESIA, OFFICE

1b. TYPE OF COMPLETION: NEW WELL, WORK OVER, DEEP-EN, PLUG BACK, DIFF. RESERV.

2. NAME OF OPERATOR: AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: P.O. Box 68 Hobbs, NM 88240

4. LOCATION OF WELL: 1650' FNL X 1653' FWL (Unit F, SE/4 NW/4)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME: MALCO'S FEDERAL

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Chalk Bluff Wolfcamp

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

12. COUNTY OR PARISH: EDDY

13. STATE: N.M.

14. PERMIT NO. DATE ISSUED

15. DATE STARTED: 1-21-85

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.): 3587' RDB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD: 10,168'

21. PLUG, BACK T.D., MD & TVD: 7613'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, SAME (MD AND TVD)*: 7046'-7388' Wolfcamp

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN: CBL

27. WAS WELL CORED

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

Table with columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED

29. LINER RECORD

Table with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD)

30. TUBING RECORD

Table with columns: SIZE, DEPTH SET (MD), PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number): 7046'-62', 7090'-7100', 7382'-88' w/ 4 DRJSPF (.380")

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

Table with columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION: 2-26-85

PRODUCTION METHOD: Pumping

WELL STATUS: Shut-IN

DATE OF TEST: 3-18-85

HOURS TESTED: 24

CHOKER SIZE: 0

PROD'N. FOR TEST PERIOD: 0

OIL—BBL.: 0

GAS—MCF.: 0

WATER—BBL.: 0

GAS-OIL RATIO: 0

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE

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

TEST WITNESSED BY: MAY 10 1985

35. LIST OF ATTACHMENTS: Logs Mailed 1-31-85

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

SIGNED: [Signature] TITLE: Administrative Analyst

DATE: 6 MAY 1985

*(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.

ATE RIM-C, I-TRR, I-FJN, I-NIG

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.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH

38. GEOLOGIC MARKERS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instruction
verse side)

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

c/sf

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to re-completion of wells back to a different reservoir.
Use "APPLICATION FOR PERMIT TO RE-EXPLORATION OF OIL OR GAS RESERVOIR" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> P&A		<div style="border: 2px solid black; padding: 5px;"> <p>MAR 17 1986</p> <p>O. C. DE</p> <p>ARTESIA, OFFICE</p> </div>	5. LEASE DESIGNATION AND SERIAL NO. LC-067858
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY ✓			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. BOX 68 HOBBS, NEW MEXICO 88240			7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1650' FAL x 1653' FWL (UNIT F, SE14, NW14)			8. FARM OR LEASE NAME Malco "5" Federal
14. PERMIT NO. 3001520510	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3587' RDB	9. WELL NO.	10. FIELD AND POOL, OR WILDCAT Chalk Bluff Wolfcamp
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC. T., E., M., S. BALK. AND SURVEY OR AREA 11-18-27	12. COUNTY OR TERRITORY Eddy
13. STATE NM			

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. MISU 11-25-85 and 10H with rods, pump, and tubing.
2. Ran CIBP and set at 6995'.
3. Ran free point log.
4. RIHW/tubing to 6950' and pumped 80 BBLs brine gel. Capped CIBP with 15 SX Class H cement.
5. Displaced hole with 150 BBL brine gel
6. Spotted 40 SX class H cement from 6400-6225' WOC. Tagged cement at 6211'.
7. Pulled tubing to 5350' and pumped 26 SX class C cement. Displaced w/ brine gel.
8. Perforated 1049-50' w/ 4 DRISPF. Established circulation out 11 3/4" casing.
9. Set Cement retainer at 950'. Squeezed w/ 350 SX class C cement. Circulated 17 SX out 11 3/4" casing.

0 + 5 BLM-CJ, 1 - JRB, 1 - FJN, 1 - CMH

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

SIGNED Charles M. Herring TITLE Administrative Analyst (SG) DATE 12/5/85

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE _____ DATE 3-14-86

CONDITIONS OF APPROVAL, IF ANY:

Post FD-2
3-21-86
P&A

*See Instructions on Reverse Side

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10. Spotted 105X class C cement surface plug.
11. Installed dry hole marker and MOSU 12-3-85.

NEW MEXICO
OIL CONSERVATION DIVISION
P. O. DRAWER DD
ARTESIA, NM 88210

DATE December 15, 1986

NOTICE OF GCNM'S GAS DISCONNECTION:

OPERATOR: Amoco Production Company

LEASE: Malco "S" Federal

WELL NUMBER: #1 WELL UNIT LETTER: F

SECTION: 11 TOWNSHIP: 18 RANGE: 27

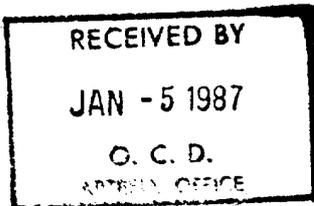
POOL: ~~Scroggin Draw Morrow~~ Chalk Bluff Wolfcamp

DATE WELL DISCONNECTED: 12/15/86

GCNM'S STATION NUMBER: 1890-00

GAS COMPANY OF NEW MEXICO
TRANSPORTER

Grady L. Gist
GRADY L. GIST
GAS CONTROL SUPERVISOR



cc: Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Tom Sanders - Albuquerque
Carolyn Titus - Albuquerque
Merle Dennis - Kutz Canyon
Oil Conservation file
Grady Gist file

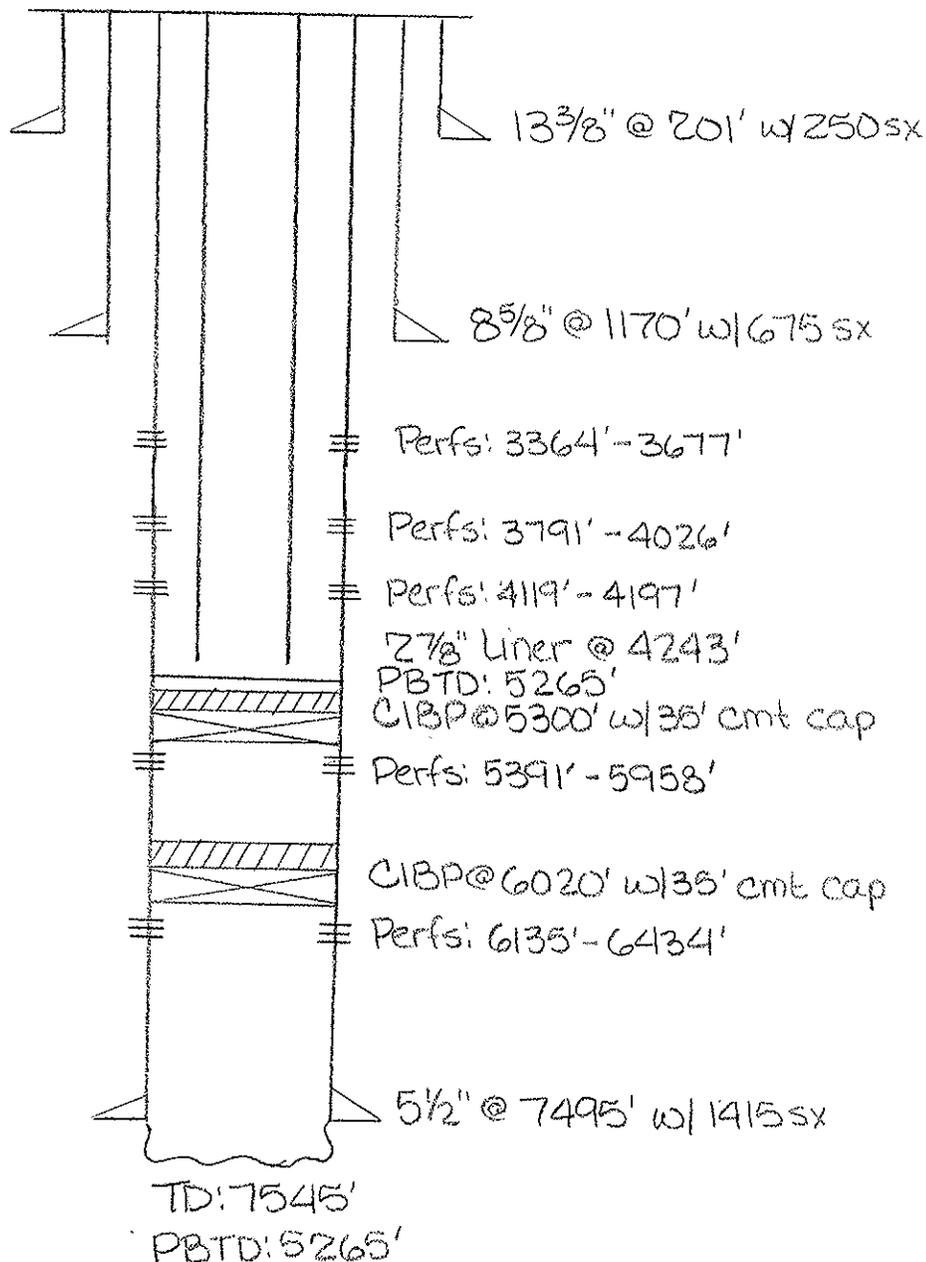
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 65
Artificial Penetration Review

OPERATOR Mack Energy Corp
LEASE State H
WELL NUMBER 2
DRILLED 10-31-07
PLUGGED NA

STATUS Active Oil
LOCATION Sec. 2 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE ~7215
API NO. 30-015-35814

REMARKS: Calc. Top of Cement behind 5 1/2" @ surface.



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

Form C-101
Permit 60506

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

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

1. Operator Name and Address MACK ENERGY CORP PO BOX 960 ARTESIA, NM 88211		2. OGRID Number 13837
		3. API Number 30-015-35814
4. Property Code 303847	5. Property Name STATE H	6. Well No. 002

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	2	18S	27E	H	2063	N	441	E	EDDY

8. Pool Information

CHALK BLUFF, WOLFCAMP GAS	96963
---------------------------	-------

Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3590
14. Multiple N	15. Proposed Depth	16. Formation Wolfcamp	17. Contractor	18. Spud Date 9/20/2007
Depth to Ground water 50		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mils thick Clay <input type="checkbox"/> Pit Volume: bbls Drilling Method: Closed Loop System <input checked="" type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	360	400	0
Prod	7.875	5.5	17	7313	1300	0

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill a 12 1/4 hole to 360', run 8 5/8 casing and cement. Drill a 7 7/8 hole to 7313', run 5 1/2 casing and cement. Note: On production string a fluid caliper will be run and will figure cement with 25% excess, attempt to circ.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCB guidelines <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	OIL CONSERVATION DIVISION	
	Approved By: Bryan Arant	
	Title: Geologist	
	Approved Date: 9/19/2007	Expiration Date: 9/19/2008
	Conditions of Approval Attached	
Printed Name: Electronically filed by Jerry Sherrill		
Title: Production Clerk		
Email Address: jerrys@mackenergycorp.com		
Date: 9/11/2007	Phone: 505-748-1288	

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources

Form C-102
Permit 60506

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-35814	2. Pool Code 96963	3. Pool Name CHALK BLUFF; WOLFCAMP GAS
4. Property Code 303847	5. Property Name STATE H	
6. Well No. 002	7. OGRID No. 13837	
8. Operator Name MACK ENERGY CORP		9. Elevation 3590

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	2	18S	27E		2063	N	441	E	EDDY

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	2	18S	27E	H	2300	N	340	E	EDDY
12. Dedicated Acres 40.00		13. Joint or Infill		14. Consolidation Code			15. Order No.		

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

	OPERATOR CERTIFICATION		
	<p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p>		
	<p>E-Signed By: Jerry Sherrell Title: Production Clerk Date: 9/11/2007</p>		
	SURVEYOR CERTIFICATION		
<p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p>			
<p>Surveyed By: Ronald Eidson Date of Survey: 8/28/2007 Certificate Number: 3239</p>			

Permit Comments

Operator: MACK ENERGY CORP , 13837

Well: STATE H #002

API: 30-015-35814

Created By	Comment	Comment Date
JWSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	9/11/2007

Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837

Well: STATE H #002

API: 30-015-35814

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	As noted, operator to drill surface hole w/fresh water mud.
BArrant	Cement to cover all oil, gas and water bearing zones.

1 SEP 12 2007
OCD-ARTESIA



30-015-35814

Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

State H #2

State H #2

Wellbore #1

Plan: Plan #1

Standard Planning Report

11 September, 2007





**Scientific Drilling
Planning Report**



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project:	Eddy County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	State H #2		
Site Position:	Northing:	646,629.20 ft	Latitude: 32° 46' 39.510 N
From: Map	Easting:	528,184.50 ft	Longitude: 104° 14' 29.874 W
Position Uncertainty:	0.00 ft	Slot Radius:	ft
		Grid Convergence:	0.05 °

Well:	State H #2		
Well Position	+N/-S	0.00 ft	Northing: 646,629.20 ft
	+E/-W	0.00 ft	Easting: 528,184.50 ft
			Latitude: 32° 46' 39.510 N
			Longitude: 104° 14' 29.874 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	3,606.00 ft
			Ground Level: 0.00 ft

Wellbore:	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	9/11/2007	(°) 8.37	(°) 60.68	(nT) 49,269

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth: 0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	156.92

Plan Sections:										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	0.00	
768.78	6.18	156.92	768.18	-15.29	6.52	2.00	2.00	0.00	156.92	
2,854.52	6.18	156.92	2,841.82	-221.71	94.48	0.00	0.00	0.00	0.00	
3,163.30	0.00	0.00	3,150.00	-237.00	101.00	2.00	-2.00	0.00	180.00	
7,313.30	0.00	0.00	7,300.00	-237.00	101.00	0.00	0.00	0.00	0.00	PBHL-State H #1



Scientific Drilling
Planning Report



Database:	EDM 2003.16 Single User.Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00R (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00R (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Wellbore #1 Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP 460' Start 2.0°/100'									
500.00	0.80	156.92	500.00	-0.26	0.11	0.28	2.00	2.00	0.00
600.00	2.80	156.92	599.94	-3.15	1.34	3.42	2.00	2.00	0.00
700.00	4.80	156.92	699.72	-9.24	3.94	10.05	2.00	2.00	0.00
768.78	6.18	156.92	768.18	-15.29	6.52	16.62	2.00	2.00	0.00
EOC hold 6.18°									
800.00	6.18	156.92	799.22	-18.38	7.83	19.98	0.00	0.00	0.00
900.00	6.18	156.92	898.64	-28.28	12.05	30.74	0.00	0.00	0.00
1,000.00	6.18	156.92	998.06	-38.18	16.27	41.50	0.00	0.00	0.00
1,100.00	6.18	156.92	1,097.48	-48.07	20.49	52.26	0.00	0.00	0.00
1,200.00	6.18	156.92	1,196.90	-57.97	24.70	63.01	0.00	0.00	0.00
1,300.00	6.18	156.92	1,296.32	-67.87	28.92	73.77	0.00	0.00	0.00
1,400.00	6.18	156.92	1,395.74	-77.76	33.14	84.53	0.00	0.00	0.00
1,500.00	6.18	156.92	1,495.16	-87.66	37.36	95.29	0.00	0.00	0.00
1,600.00	6.18	156.92	1,594.58	-97.55	41.57	106.04	0.00	0.00	0.00
1,700.00	6.18	156.92	1,694.00	-107.45	45.79	116.80	0.00	0.00	0.00
1,800.00	6.18	156.92	1,793.42	-117.35	50.01	127.56	0.00	0.00	0.00
1,900.00	6.18	156.92	1,892.84	-127.24	54.23	138.32	0.00	0.00	0.00
2,000.00	6.18	156.92	1,992.26	-137.14	58.44	149.07	0.00	0.00	0.00
2,100.00	6.18	156.92	2,091.68	-147.04	62.66	159.83	0.00	0.00	0.00
2,200.00	6.18	156.92	2,191.10	-156.93	66.88	170.59	0.00	0.00	0.00
2,300.00	6.18	156.92	2,290.52	-166.83	71.10	181.35	0.00	0.00	0.00
2,400.00	6.18	156.92	2,389.94	-176.73	75.31	192.10	0.00	0.00	0.00
2,500.00	6.18	156.92	2,489.36	-186.62	79.53	202.86	0.00	0.00	0.00
2,600.00	6.18	156.92	2,588.78	-196.52	83.75	213.62	0.00	0.00	0.00
2,700.00	6.18	156.92	2,688.20	-206.41	87.97	224.38	0.00	0.00	0.00
2,800.00	6.18	156.92	2,787.62	-216.31	92.18	235.13	0.00	0.00	0.00
2,854.52	6.18	156.92	2,841.82	-221.71	94.48	241.00	0.00	0.00	0.00
Start Drop: 2.0°/100'									
2,900.00	5.27	156.92	2,887.07	-225.88	96.26	245.53	2.00	-2.00	0.00
3,000.00	3.27	156.92	2,986.79	-232.72	99.18	252.97	2.00	-2.00	0.00
3,100.00	1.27	156.92	3,086.71	-236.36	100.73	256.92	2.00	-2.00	0.00
3,163.30	0.00	0.00	3,150.00	-237.00	101.00	257.62	2.00	-2.00	0.00
EOC hold 0.0°									
3,200.00	0.00	0.00	3,186.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,300.00	0.00	0.00	3,286.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,400.00	0.00	0.00	3,386.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,500.00	0.00	0.00	3,486.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,600.00	0.00	0.00	3,586.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,700.00	0.00	0.00	3,686.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,800.00	0.00	0.00	3,786.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,900.00	0.00	0.00	3,886.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,000.00	0.00	0.00	3,986.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,100.00	0.00	0.00	4,086.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,200.00	0.00	0.00	4,186.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,300.00	0.00	0.00	4,286.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,400.00	0.00	0.00	4,386.70	-237.00	101.00	257.62	0.00	0.00	0.00



Scientific Drilling
Planning Report



Database:	EDM.2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27, NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,500.00	0.00	0.00	4,486.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,586.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,686.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,786.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,886.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,986.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,086.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,186.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,286.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,386.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,486.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,586.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,686.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,786.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,886.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,986.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,086.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,186.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,286.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,386.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,486.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,586.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,686.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,786.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,886.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,986.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,086.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,186.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,286.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,313.30	0.00	0.00	7,300.00	-237.00	101.00	257.62	0.00	0.00	0.00	
East HL-State H #1 - PBHL-State H #1 - South HL-State H #1										

Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL-State H #1	- plan hits target - Circle (radius 10.00)	0.00	0.00	7,300.00	-237.00	101.00	646,392.20	528,285.50	32° 46' 37.164 N	104° 14' 28.693 W
South HL-State H #1	- plan misses by 14.14ft at 7313.30ft MD (7300.00 TVD, -237.00 N, 101.00 E) - Rectangle (sides W0.00 H200.00 D0.00)	0.00	0.00	7,300.00	-247.00	111.00	646,382.20	528,295.50	32° 46' 37.065 N	104° 14' 28.576 W
East HL-State H #1	- plan misses by 14.14ft at 7313.30ft MD (7300.00 TVD, -237.00 N, 101.00 E) - Rectangle (sides W800.00 H0.00 D0.00)	0.00	0.00	7,300.00	-247.00	111.00	646,382.20	528,295.50	32° 46' 37.065 N	104° 14' 28.576 W



Scientific Drilling
Planning Report

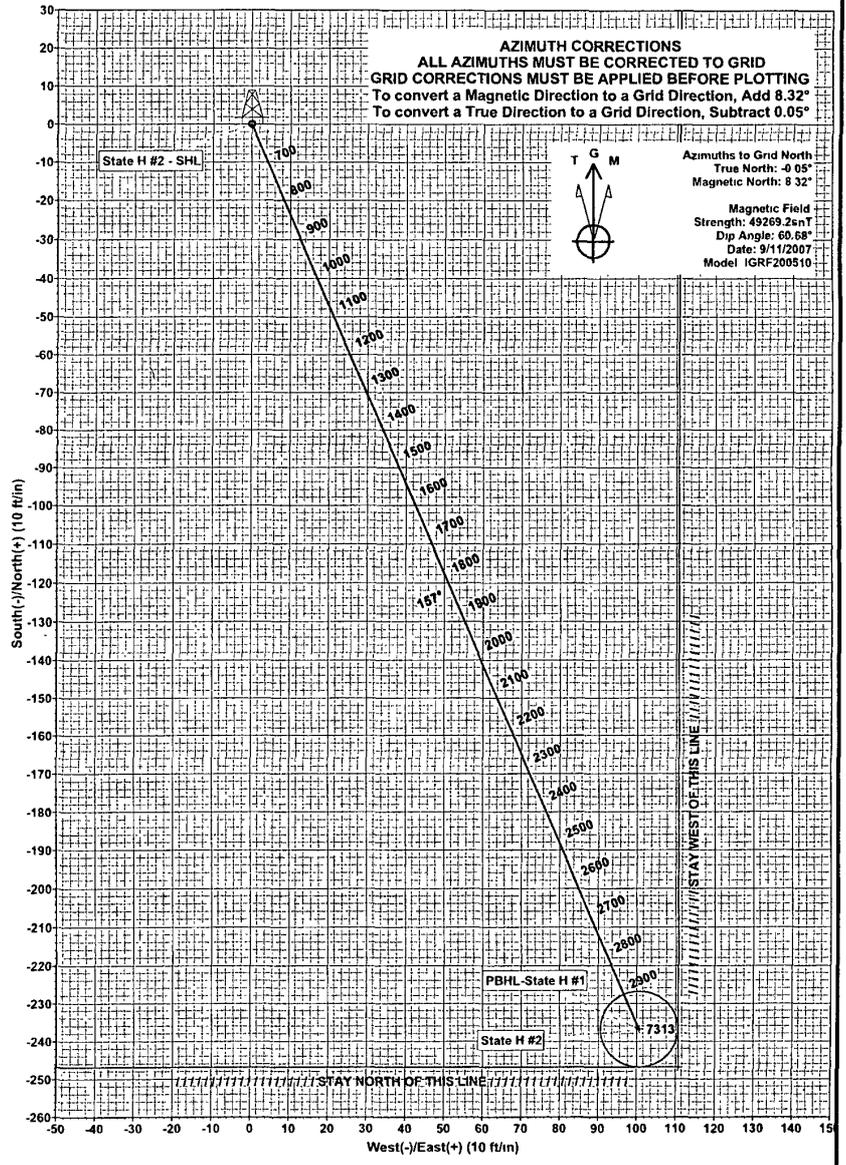
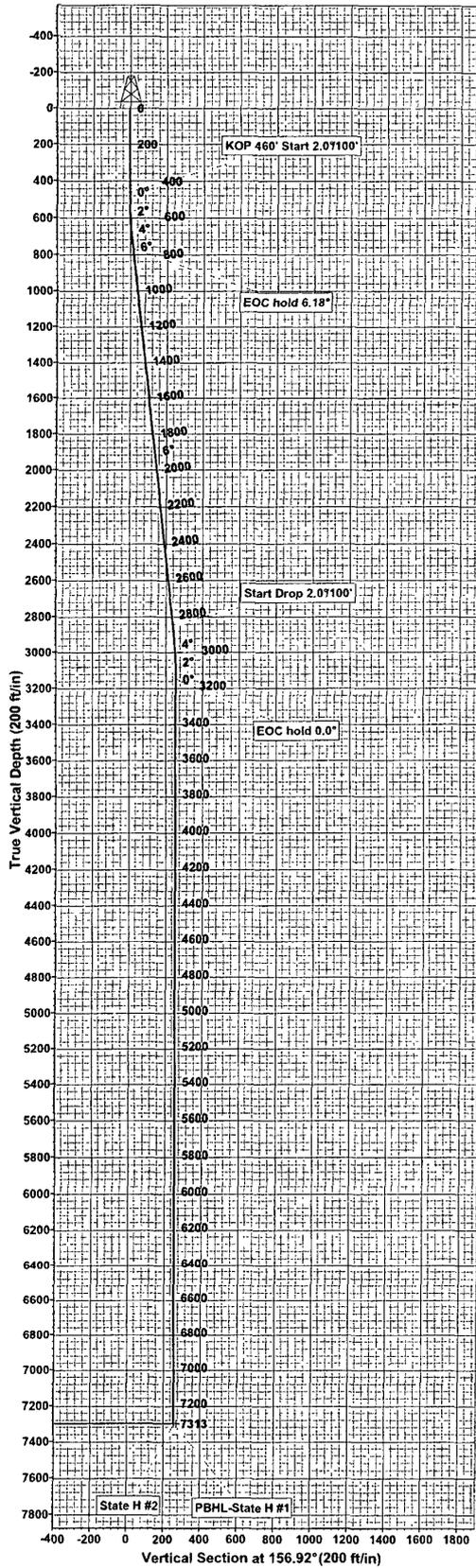


Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grd
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
460.00	460.00	0.00	0.00	KOP 460' Start 2.0°/100'
768.78	768.18	-15.29	6.52	EOC hold 6.18°
2,854.52	2,841.82	-221.71	94.48	Start Drop 2.0°/100'
3,163.30	3,150.00	-237.00	101.00	EOC hold 0.0°



Scientific Drilling for Mack Energy Corp.
 Site: Eddy County, NM (NAD 27 NME)
 Well: State H #2
 Wellbore: Wellbore #1
 Design: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	
3	768.78	6.18	156.92	768.78	-15.29	6.52	2.00	156.92	16.62	
4	2854.52	6.18	156.92	2841.82	-221.71	94.48	0.00	0.00	241.00	
5	3163.30	0.00	0.00	3150.00	-237.00	101.00	2.00	180.00	257.62	
6	7313.30	0.00	0.00	7300.00	-237.00	101.00	0.00	0.00	257.62	PBHL-State H #1

WELL DETAILS: State H #2

+N/-S	+E/-W	Northing	Easting	Ground Level	Latitude	Longitude	Slot
0.00	0.00	646629.20	528184.50	0.00	32°46' 39.510 N	104°14' 28.576 W	29.874 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
East HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46' 37.065 N	104°14' 28.576 W	Rectangle (S: des. L800.00 W0.00)
PBHL-State H #1	7300.00	-237.00	101.00	646392.20	528285.50	32°46' 37.164 N	104°14' 28.893 W	Circle (Radius: 10.00)
South HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46' 37.065 N	104°14' 28.576 W	Rectangle (S: des. L:0.00 W200.00)

PROJECT DETAILS: Eddy County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

Plan: Plan #1 (State H #2/Wellbore #1)

Created By: Julio Pina Date: 11-Sep-07
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: _____ Date: _____

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS) 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>		WELL API NO. 30-015-35814
2. Name of Operator Mack Energy Corporation		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
3 Address of Operator P. O. Box 960 Artesia, NM 88211-0960		6. State Oil & Gas Lease No. B-9391
4 Well Location Unit Letter <u>H</u> <u>2063</u> feet from the <u>North</u> line and <u>441</u> feet from the <u>East</u> line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		7. Lease Name or Unit Agreement Name State H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3590' GR		8. Well Number <u>2</u>
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		9. OGRID Number 013837
Pit type _____ Depth Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____		10. Pool name or Wildcat Chalk Bluff Wolfcamp
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 <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <u>Change casing</u> <input checked="" type="checkbox"/>		OTHER: _____ <input type="checkbox"/>	

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

Mack Energy would like to change the casing string approved on this APD.

- Drill a 17 1/2" hole to 200', run 13 3/8" 48# H-40 casing and cement.
- Drill a 12 1/4" hole to 1150', run 8 5/8" 24# J-55 casing and cement.
- Drill a 7 7/8" hole to approximately 7300', run 5 1/2" 17# L-80 casing and cement.

OCT 22 2007
 OCD-ARTESIA

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

SIGNATURE Jerry W. Sherrell TITLE Production Clerk DATE 10/19/07

Type or print name Jerry W. Sherrell E-mail address: jerrys@mackenergycorp.com Telephone No (505)748-1288

For State Use Only

APPROVED BY: BRYAN G. ARRANT TITLE DISTRICT II GEOLOGIST DATE OCT 22 2007
 Conditions of Approval (if any): _____



Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

State H #2

State H #2

Wellbore #1

OCT 22 2007

OCD-ARTESIA

Plan: Plan #2

Standard Planning Report

19 October, 2007





Scientific Drilling
Planning Report



Database:	EDM 2003 16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606 00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606 00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Project	Eddy County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	State H #2		
Site Position:	Northing:	646,629 20ft	Latitude: 32° 46' 39 510 N
From: Map	Easting:	528,184 50ft	Longitude: 104° 14' 29 874 W
Position Uncertainty:	0 00 ft	Slot Radius:	ft
			Grid Convergence: 0 05 °

Well	State H #2		
Well Position	+N/-S	0 00 ft	Northing: 646,629 20 ft
	+E/-W	0 00 ft	Easting: 528,184 50 ft
			Latitude: 32° 46' 39 510 N
			Longitude: 104° 14' 29 874 W
Position Uncertainty	0 00 ft	Wellhead Elevation:	3,606 00 ft
			Ground Level: 0 00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/19/2007	8 36	60 68	49,259

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0 00	0 00	156 92

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,250 00	0 00	0 00	1,250 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,785 00	10 70	156.92	1,781.89	-45.82	19 53	2 00	2 00	0 00	156 92	
2,636 01	10 70	156.92	2,618 11	-191 18	81 47	0 00	0 00	0 00	0 00	
3,171 01	0 00	0 00	3,150 00	-237 00	101 00	2 00	-2 00	0 00	180 00	
7,321 01	0 00	0 00	7,300 00	-237.00	101 00	0 00	0 00	0 00	0 00	PBHL-State H #1



Scientific Drilling
Planning Report



Database:	EDM 2003 16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606 00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,150 00	0 00	0 00	1,150 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
8 5/8" Casing										
1,250 00	0 00	0 00	1,250 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP 1250' Start 2.0°/100'										
1,300 00	1 00	156 92	1,299 99	-0 40	0 17	0 44	2 00	2 00	2 00	0 00
1,400 00	3 00	156 92	1,399 93	-3 61	1 54	3 93	2 00	2 00	2 00	0 00
1,500 00	5 00	156 92	1,499 68	-10 03	4 27	10 90	2 00	2 00	2 00	0 00
1,600 00	7 00	156 92	1,599 13	-19 64	8 37	21 35	2 00	2 00	2 00	0 00
1,700 00	9 00	156 92	1,698 15	-32 45	13 83	35 27	2 00	2 00	2 00	0 00
1,785 00	10 70	156 92	1,781 90	-45 82	19 53	49 81	2 00	2 00	2 00	0 00
EOC hold 10.70°										
1,800 00	10 70	156 92	1,796.63	-48 38	20 62	52 59	0 00	0 00	0 00	0 00
1,900 00	10 70	156 92	1,894 89	-65 46	27 90	71 16	0 00	0 00	0 00	0 00
2,000 00	10 70	156 92	1,993 15	-82 54	35 18	89 73	0 00	0 00	0 00	0 00
2,100 00	10 70	156 92	2,091 41	-99 63	42 46	108.29	0 00	0 00	0 00	0 00
2,200 00	10 70	156 92	2,189 68	-116 71	49.74	126 86	0 00	0 00	0 00	0 00
2,300.00	10 70	156.92	2,287 94	-133 79	57.01	145 43	0 00	0 00	0 00	0 00
2,400 00	10 70	156.92	2,386 20	-150 87	64.29	163 99	0 00	0 00	0 00	0 00
2,500 00	10 70	156 92	2,484 46	-167 95	71.57	182 56	0 00	0 00	0 00	0 00
2,599 99	10 70	156 92	2,582 72	-185 03	78 85	201 13	0 00	0 00	0 00	0 00
2,636 01	10 70	156 92	2,618 11	-191 18	81 47	207 81	0 00	0 00	0 00	0 00
Start Drop 2.0°/100'										
2,699 99	9.42	156.92	2,681 11	-201 46	85 85	218 99	2 00	-2 00	0 00	0 00
2,799 99	7 42	156 92	2,780 03	-214 93	91 59	233 63	2 00	-2 00	0 00	0 00
2,899 99	5.42	156.92	2,879 39	-225 22	95.98	244 81	2 00	-2 00	0 00	0 00
2,999 99	3 42	156 92	2,979 09	-232 31	99 00	252 52	2 00	-2 00	0 00	0 00
3,099 99	1 42	156 92	3,079 00	-236 19	100 65	256 74	2 00	-2 00	0 00	0 00
3,171.01	0 00	0 00	3,150 00	-237 00	101 00	257.62	2 00	-2 00	0 00	0 00
EOC hold 0.0°										
7,321 01	0 00	0 00	7,300.00	-237 00	101 00	257 62	0 00	0 00	0 00	0 00
East HL-State H #1 - PBHL-State H #1 - South HL-State H #1										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
PBHL-State H #1 - hit/miss target - Shape	0 00	0 00	7,300 00	-237 00	101.00	646,392 20	528,285 50	32° 46' 37 164 N	104° 14' 28.693 W	
- plan hits target - Circle (radius 10 00)										
South HL-State H #1 - plan misses by 14 14ft at 7321.01ft MD (7300.00 TVD, -237 00 N, 101.00 E) - Rectangle (sides W0 00 H200.00 D0.00)	0 00	0 00	7,300 00	-247 00	111 00	646,382 20	528,295 50	32° 46' 37 065 N	104° 14' 28 576 W	
East HL-State H #1 - plan misses by 14 14ft at 7321 01ft MD (7300 00 TVD, -237.00 N, 101.00 E) - Rectangle (sides W800 00 H0 00 D0 00)	0 00	0 00	7,300 00	-247 00	111 00	646,382.20	528,295 50	32° 46' 37 065 N	104° 14' 28.576 W	



Scientific Drilling
Planning Report



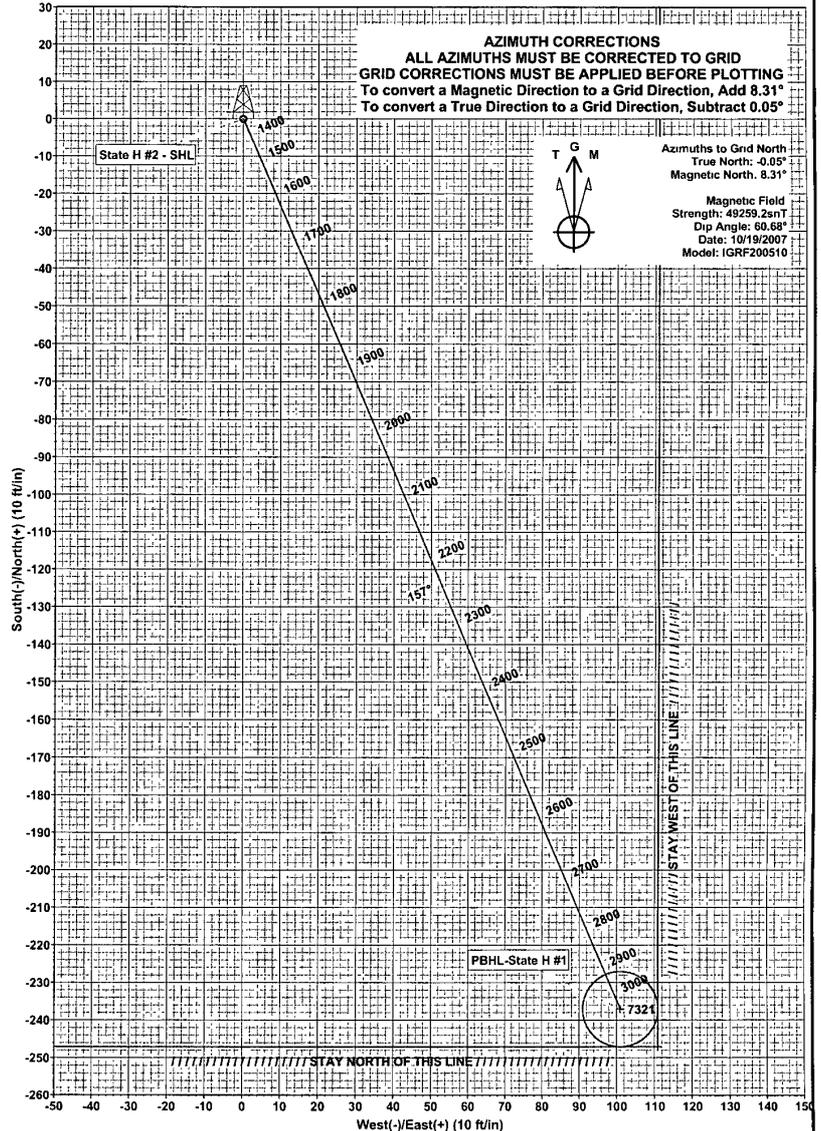
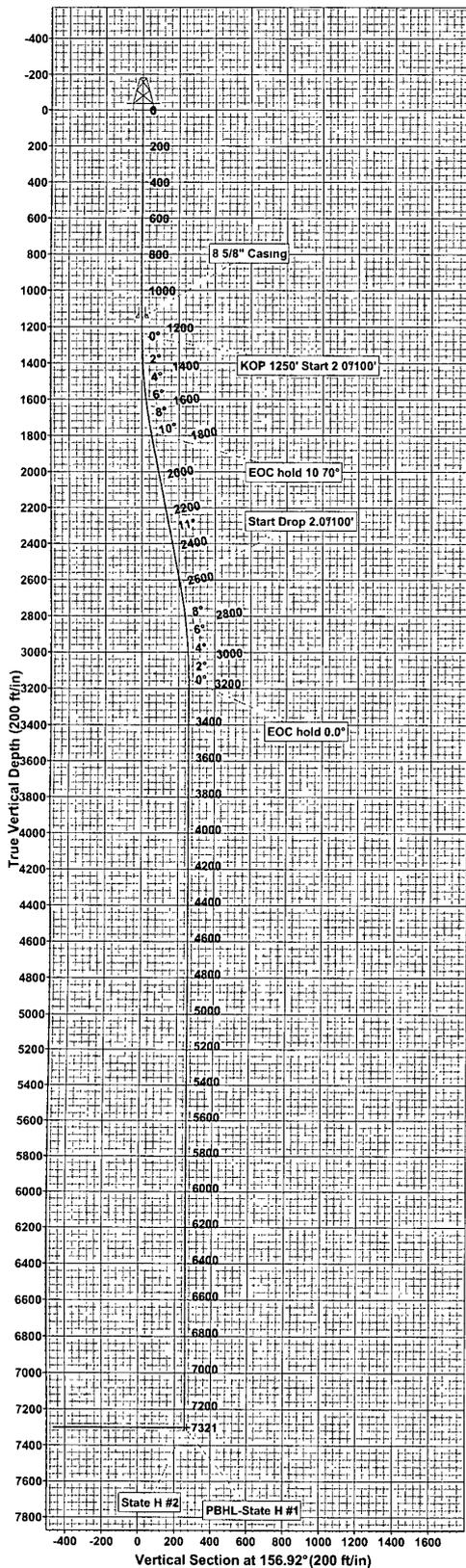
Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606 00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606 00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)
1,150 00	1,150 00	8 5/8" Casing	8 62500	12.25000

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,250 00	1,250 00	0 00	0 00	KOP 1250' Start 2 0°/100'	
1,785 00	1,781 90	-45 82	19 53	EOC hold 10.70°	
2,636 01	2,618 11	-191 18	81 47	Start Drop 2 0°/100'	
3,171 01	3,150 00	-237 00	101 00	EOC hold 0 0°	



Scientific Drilling for Mack Energy Corp.
 Site: Eddy County, NM (NAD 27 NME)
 Well: State H #2
 Wellbore: Wellbore #1
 Design: Plan #2



AZIMUTH CORRECTIONS
 ALL AZIMUTHS MUST BE CORRECTED TO GRID
 GRID CORRECTIONS MUST BE APPLIED BEFORE PLOTTING
 To convert a Magnetic Direction to a Grid Direction, Add 8.31°
 To convert a True Direction to a Grid Direction, Subtract 0.05°



Azimuths to Grid North
 True North: -0.05°
 Magnetic North: 8.31°
 Magnetic Field
 Strength: 49259.2nT
 Dip Angle: 60.68°
 Date: 10/19/2007
 Model: IGRF200510

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1250.00	0.00	0.00	1250.00	0.00	0.00	0.00	0.00	0.00	
3	1785.00	10.70	156.92	1781.89	-45.82	19.53	2.00	156.92	49.81	
4	2636.01	10.70	156.92	2618.11	-191.18	81.47	0.00	0.00	207.81	
5	3171.01	0.00	0.00	3150.00	-237.00	101.00	2.00	180.00	257.62	
6	7321.01	0.00	0.00	7300.00	-237.00	101.00	0.00	0.00	257.62	PBHL-State H #1

WELL DETAILS: State H #2

Ground Level:		Easting		Latitude		Longitude		Slot	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
0.00	0.00	646629.20	528184.50	32°46'39.510 N	104°14'28.576 W	29.874 W			

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
East HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46'37.065 N	104°14'28.576 W	Rectangle (S _i des: L800 00 W0.00)
PBHL-State H #1	7300.00	-237.00	101.00	646392.20	528285.50	32°46'37.164 N	104°14'28.693 W	Circle (Radius: 10.00)
South HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46'37.065 N	104°14'28.576 W	Rectangle (S _i des: L0 00 W200 00)

PROJECT DETAILS: Eddy County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

Plan: Plan #2 (State H #2/Wellbore #1)

Created By: Julio Pina Date: 19-Oct-07
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: _____ Date: _____

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103
Permit 65781

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVIOR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NUMBER 30-015-35814
1. Type of Well: <input type="radio"/>		5. Indicate Type of Lease S
2. Name of Operator MACK ENERGY CORP		6. State Oil & Gas Lease No.
3. Address of Operator PO BOX 960, , 11352 LOVINGTON HWY ARTESIA, NM 88211		7. Lease Name or Unit Agreement Name STATE H
4. Well Location Unit Letter <u>H</u> : <u>2063</u> feet from the <u>N</u> line and <u>441</u> feet from the <u>E</u> line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM <u>Eddy</u> County		8. Well Number 002
11. Elevation (Show whether DR, KB, BT, GR, etc.) 3590 GR		9. OGRID Number 13837
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat
Pit Type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____ Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

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

NOTICE OF INTENTION TO:

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

Other:

SUBSEQUENT REPORT OF:

REMEDIAL WORK ALTER CASING COMMENCE DRILLING OPNS. PLUG AND ABANDON CASING/CEMENT JOB Other: **Drilling/Cement**

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

10/31/2007 Spud 17 1/2 hole @ 10:00pm.

11/1/2007 TD @ 201. Ran 5jts 13 3/8 H-40 48# @ 201', Cmt w/250sx C+2%CC, circ 104sx, plug down 12:20pm. WOC 18hrs test to 1800# 30min, OK.

11/4/2007 TD 12 1/4 hole @ 1165'.

11/5/2007 Ran 27jts 8 5/8 J-55 32# @ 1170'. Cmt w/475sx C, 200sx C+2%CC, circ 218sx, plug down 3:00am. WOC 12hrs test to 600# 30min, OK.

11/20/2007 TD @ 7545'.

11/22/2007 Ran 177jts 5 1/2 J-55 17# @ 7495', Cmt w/530sx C, circ 217sx. 2nd stage 365sx C, 520sx C, plug down 6:55pm, circ 200sx. WOC 12hrs test to 600# 20min, OK.

10/31/2007 Spudded well.

Casing and Cement Program

Date	String	Fluid Type	Hole Size	Csg Size	Weight lb/ft	Grade	Est TOC	Dpth Set	Sacks	Yield	Class	1" Dpth	Pres Held	Pres Drop	Open Hole
11/01/07	Surf	FreshWater	17.5	13.375	48	H-40	0	201	250		C		1800	0	Y
11/05/07	Int1	FreshWater	12.25	8.625	32	J-55	0	1170	675		C		600	0	Y
11/22/07	Prod	CutBrine	7.875	5.5	17	J-55	0	7495	1415		C		600	0	Y

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

SIGNATURE Electronically Signed

TITLE Production Clerk

DATE 12/11/2007

Type or print name Jerry Sherrill

E-mail address jerrys@mackenergycorp.com Telephone No. 505-748-1288

For State Use Only:

APPROVED BY: Bryan Arrant

TITLE Geologist

DATE 12/12/2007 7:46:02 AM

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

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)		WELL API NO. 30-015-35814
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Mack Energy Corporation		6. State Oil & Gas Lease No. B-9391
3. Address of Operator P. O. Box 960 Artesia, NM 88211-0960		7. Lease Name or Unit Agreement Name State H
4. Well Location Unit Letter <u>H</u> <u>2063</u> feet from the <u>North</u> line and <u>441</u> feet from the <u>East</u> line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		8. Well Number <u>2</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3590' GR		9. OGRID Number 013837
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat Red Lake; Glorieta-Yeso <u>NE</u>
Pit type _____ Depth Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____		
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: <u>Completion</u> <input checked="" type="checkbox"/>	

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

- 12/15/2007 Perforated from 6134.5-6434' 57 holes.
- 12/17/2007 Acidized w/4500 gals 15%.
- 12/18/2007 RIH w/203 joints 2 7/8 tubing SN @ 6439'. RIH w/2 1/2"x2"x20' pump.
- 12/26/2007 Set CIBP @ 6020' w/35' cement cap. Perforated from 5789.5-5957.5' 52 holes.
- 12/27/2007 Acidized w/4500 gals 15%.
- 12/28/2007 Perforated from 5391-5700.5' 83 holes. Acidized w/5000 gals 15%.
- 12/29/2007 RIH w/188 joints 2 7/8 tubing SN @ 5965'. RIH w/2 1/2"x2"x20' pump.
- 1/7/2008 Set CIBP @ 5300' w/35' cement cap. Perforated from 4118.5-4197' 40 holes.
- 1/8/2008 Acidized w/2000 gals 15%.
- 1/9/2008 Frac w/8130# liteprop, 68,890# 16/30 sand, 14,046# siberprop, 91,292 gals 30/40# gel.
- 1/11/2008 RIH w/134 joints 2 7/8" tubing SN @ 4243'. RIH 2 1/2 x 2 x 20' Pump.

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

SIGNATURE Jerry W. Sherrell TITLE Production Clerk DATE 2/25/08

Type or print name Jerry W. Sherrell E-mail address: jerrys@mackenergycorp.com Telephone No. (575)748-1288
 For State Use Only

FOR RECORDS ONLY

APPROVED BY: _____ TITLE _____ DATE 2-28-08
 Conditions of Approval (if any): _____

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

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

FEB 26 2008
OCD-ARTESIA

Form C-104
Revised Feb. 26, 2007
Submit to Appropriate District Office
5 Copies

AMENDED REPORT

1. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960		2 OGRID Number 013837
4 API Number 30-015-35814		3 Reason for Filing Code/ Effective Date NW
5 Pool Name Red Lake; Glorieta-Yeso, NE	6 Pool Code 51120 96836	
7 Property Code 303847	8 Property Name State H	9 Well Number 2

H. Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	18S	27E		2063	North	441	East	Eddy

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	18S	27E		2300	North	340	East	Eddy
12 Lse Code S	13 Producing Method Code P	14 Gas Connection Date 1/11/08	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date				

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 O/G/W
015694	Navajo Refining PO Box 159 Artesia, NM 88211-0159	O
036785	DCP Midstream LP 4001 Penbrook Odessa, TX 79762	G

IV. Well Completion Data

21 Spud Date	22 Ready Date	23 TD	24 PBDT	25 Perforations	26 DHC, MC
10/31/2007	11/23/2007	7545'	5265'	4118.5-4197'	
27 Hole Size	28 Casing & Tubing Size	29 Depth Set	30 Sacks Cement		
17 1/2	13 3/8	201	250		
12 1/4	8 5/8	1170	675		
7 7/8	5 1/2	7495	1415		
	2 7/8	4243			

V. Well Test Data

31 Date New Oil	32 Gas Delivery Date	33 Test Date	34 Test Length	35 Tbg. Pressure	36 Csg. Pressure
1/14/2008	1/14/2008	1/30/08	24 hours		
37 Choke Size	38 Oil	39 Water	40 Gas	41 Test Method	
8	30	30		P	

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

Signature: *Jerry W. Sherrell*

Printed name: Jerry W. Sherrell

Title: Production Clerk

E-mail Address: jerrys@mackenergycorp.com

OIL CONSERVATION DIVISION

Approved by: *Kimberly M. Wilson*

Title: *Compliance Officer*

Approval Date: *3-5-08*

Date:
2/25/08

Phone:
(575)748-1288

Submit to Appropriate District Office
 State Lease - 6 copies
 Fee Lease - 5 copies
DISTRICT I
 P O Box 1980, Hobbs, NM 88240

DISTRICT II
 811 South First, Artesia, NM 88210

DISTRICT III
 1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-105
 Revised 1-1-89

OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, New Mexico 87505

WELL API NO 30-015-35814
5 Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6 State Oil & Gas Lease No B-9391

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1 Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____	7 Lease Name or Unit Agreement Name State H
b Type of Completion NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> Deepen <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER _____	8 Well No 2

2 Name of Operator Mack Energy Corporation	FEB 26 2008 OCD-ARTESIA	9 Pool name or Wildcat Red Lake; Glorieta-Yeso, NE
3 Address of Operator P.O. Box 960, Artesia, NM 88211-0960		

4. Well Location
 Unit Letter H : 2063 Feet From The North Line and 441 Feet From The East Line
 Section 2 Township 18S Range 27E NMPM Eddy County

10 Date Spudded 10/31/2007	11 Date TD Reached 11/21/2007	12 Date Compl (Ready to Prod.) 1/11/08	13 Elevations (DF & RKB, RT, GR, etc) 3590' GR	14 Elev Casinghead
-------------------------------	----------------------------------	---	---	--------------------

15 Total Depth 7545'	16. Plug Back TD 5265'	17 If Multiple Compl How Many Zones? _____	18 Intervals Drilled By _____	Rotary Tools Yes	Cable Tools _____
-------------------------	---------------------------	---	----------------------------------	---------------------	----------------------

19 Producing Interval(s), of this completion - Top, Bottom, Name 4118.5-4197'	20 Was Directional Survey Made Yes
--	---------------------------------------

21 Type Electric and Other Logs Run Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray	22 Was Well Cored No
---	-------------------------

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	201	17 1/2	250 sx	None
8 5/8	32	1170	12 1/4	675 sx	None
5 1/2	17	7495	7 7/8	1415 sx	None

24 LINER RECORD					25 TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	4243'	

26 Perforation record (interval, size, and number) 6134.5-6434', .42, 57 CIBP @ 6020 w/35' cmt cap 5391-5957.5', .42, 92 CIBP @ 5300' w/35' cmt cap 4118.5-4197', .42, 40	27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
		See C-103 for detail

28 **PRODUCTION**

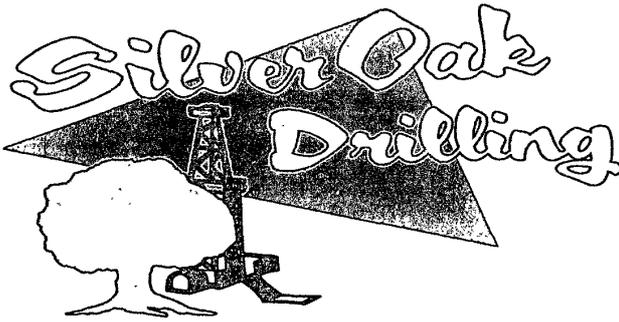
Date First Production 1/14/2008	Production Method (Flowing, gas lift, pumping - Size and type pump) 2 1/2x2x20' Pump	Well Status (Prod. or Shut-in) Producing					
Date of Test 1/30/08	Hours Tested 24 hours	Choke Size _____	Prod'n For Test Period 8	Oil - Bbl 30	Gas - MCF 30	Water - Bbl 30	Gas - Oil Ratio 3750
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl 8	Gas - MCF 30	Water - Bbl. 30	Oil Gravity - API - (Corr.)	

29 Disposition of Gas (Sold, used for fuel, vented, etc.) Sold	Test Witnessed By Robert C. Chase
---	--------------------------------------

30 List Attachments
 Deviation Survey and Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Jerry W. Sherrell Printed Name Jerry W. Sherrell Title Production Clerk Date 2/25/08



PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

FEB 26 2008
OCD-ARTESIA

November 30, 2007

Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

RE: State H #2
2310' FNL & 990' FEL
Sec. 2, T18S, R27E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned re-entered well.

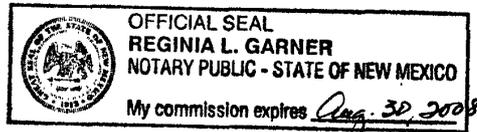
Very truly yours,


Leroy Curry
Drilling Superintendent

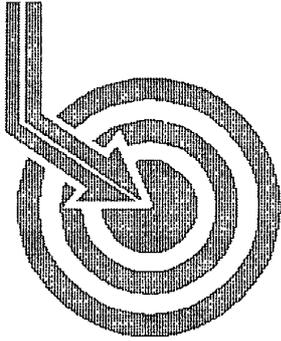
State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 30th day of November, 2007.


Notary Public



Date	Depth	Dev	Dir
11/01/2007	133.00	0.50	0.00
11/02/2007	431.00	0.75	0.00
11/03/2007	700.00	0.50	0.00
11/04/2007	975.00	1.00	0.00
11/04/2007	1134.00	0.50	0.00
11/06/2007	1301.00	1.66	164.90
11/06/2007	1396.00	3.41	161.90
11/07/2007	1492.00	5.19	159.10
11/07/2007	1587.00	7.21	156.40
11/07/2007	1683.00	8.51	155.20
11/07/2007	1778.00	9.94	158.10
11/07/2007	1873.00	9.56	157.60
11/08/2007	1968.00	10.53	159.60
11/08/2007	2064.00	9.83	160.00
11/08/2007	2159.00	9.69	160.50
11/08/2007	2350.00	10.78	156.20
11/08/2007	2445.00	10.67	156.40
11/08/2007	2540.00	10.54	155.40
11/08/2007	2604.00	10.43	156.30
11/09/2007	2699.00	8.58	156.50
11/09/2007	2794.00	7.39	158.60
11/09/2007	2984.00	4.30	162.00
11/09/2007	3080.00	2.86	157.10
11/09/2007	3175.00	1.50	150.00
11/09/2007	3270.00	0.67	256.70
11/09/2007	3365.00	0.82	280.50
11/10/2007	3460.00	0.48	176.00
11/10/2007	3556.00	0.51	181.00
11/10/2007	3651.00	0.65	173.10
11/10/2007	3746.00	0.67	157.20
11/10/2007	3841.00	0.59	154.20
11/10/2007	3936.00	0.24	309.30
11/11/2007	4031.00	0.30	302.30
11/11/2007	4126.00	0.45	322.60
11/11/2007	4222.00	1.06	337.40
11/11/2007	4602.00	1.01	348.10
11/12/2007	4666.00	1.10	18.68
11/12/2007	4729.00	0.53	71.05
11/12/2007	4824.00	0.27	38.14
11/12/2007	4920.00	0.71	12.94
11/12/2007	5015.00	1.19	5.48
11/12/2007	5110.00	0.82	20.33
11/12/2007	5206.00	0.28	132.80
11/13/2007	5301.00	0.54	23.07
11/13/2007	5396.00	0.34	49.15
11/13/2007	5491.00	1.12	153.70
11/13/2007	5586.00	2.14	189.30
11/13/2007	5660.00	1.31	189.40
11/13/2007	5681.00	1.09	194.70
11/13/2007	5745.00	0.67	318.40
11/13/2007	5839.00	0.24	221.30
11/14/2007	5935.00	1.41	161.10
11/15/2007	5998.00	1.01	182.35
11/16/2007	6188.00	0.34	306.90
11/16/2007	6474.00	0.11	334.80
11/16/2007	6570.00	0.15	314.50
11/17/2007	6664.00	0.27	304.50
11/17/2007	6759.00	0.45	295.50
11/17/2007	6854.00	0.46	296.60
11/17/2007	6949.00	0.59	290.10
11/17/2007	7044.00	1.09	134.40
11/18/2007	7140.00	0.38	89.52
11/18/2007	7235.00	0.57	122.40
11/18/2007	7382.00	0.81	125.40



Scientific Drilling

FEB 26 2008
OCD-ARTESIA

MACK ENERGY

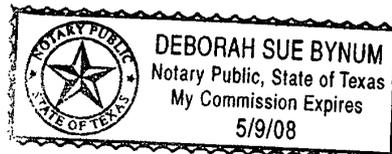
Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006
Survey: 11/05/07-11/14/07

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*L. Wharton*.....Company Representative

Notorized this date 19th of December, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: MACK ENERGY	Date: 12/16/2007	Time: 18:34.47	Page: 1
Field: Chalk Bluff	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: State H #2	Section (VS) Reference:	Well (0.00N,0.00E,156.92Azi)	
Wellpath: VH - Job #32K11071013	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 11/06/07	Start Date:	11/06/2007
KSRG 0'-1143'		
Company: Scientific Drilling Internatio	Engineer:	Madrid w/P&M
Tool: Keeper;Keeper Gyro	Tied-to:	From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.62	77.45	100.00	0.10	0.12	0.53	0.62	0.54	77.45
200.00	0.42	110.33	199.99	0.45	0.11	1.40	0.35	1.40	85.60
300.00	0.37	96.72	299.99	0.86	-0.06	2.06	0.11	2.07	91.59
400.00	0.38	143.78	399.99	1.35	-0.36	2.58	0.30	2.61	98.00
500.00	0.26	212.14	499.99	1.80	-0.82	2.66	0.37	2.78	107.20
600.00	0.28	250.72	599.99	1.91	-1.10	2.30	0.18	2.55	115.41
700.00	0.44	271.18	699.99	1.74	-1.17	1.69	0.20	2.05	124.64
800.00	0.40	74.03	799.98	1.62	-1.06	1.64	0.83	1.96	122.94
900.00	1.01	96.02	899.98	2.09	-1.06	2.85	0.66	3.04	110.38
1000.00	0.95	87.15	999.96	2.81	-1.11	4.56	0.16	4.69	103.70
1100.00	0.56	76.15	1099.95	3.17	-0.95	5.86	0.41	5.94	99.24
1143.00	0.26	86.43	1142.95	3.24	-0.90	6.16	0.72	6.23	98.28



Scientific Drilling International Survey Report

Company: MACK ENERGY	Date: 12/16/2007	Time: 19:33:59	Page: 1
Field: Chalk Bluff	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: State H #2	Section (VS) Reference:	Well (0.00N,0.00E,156.92Azi)	
Wellpath: DH - Job #32D11071006	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 11/05/07-11/14/07 MWD 1206'-7367'	Start Date: 11/05/2007
Company: Scientific Drilling Internatio	Engineer: Hernandez/Biggs/Elger
Tool: MWD;MWD	Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1143.00	0.26	86.43	1142.95	3.24	-0.90	6.16	0.00	6.23	98.28
1206.00	0.17	46.81	1205.95	3.26	-0.82	6.37	0.27	6.43	97.37
1301.00	1.66	164.91	1300.94	4.57	-2.06	6.83	1.84	7.14	106.75
1396.00	3.41	161.92	1395.84	8.75	-6.07	8.07	1.85	10.10	126.96
1492.00	5.19	159.14	1491.57	15.93	-12.84	10.50	1.87	16.59	140.73
1587.00	7.21	156.46	1586.01	26.19	-22.32	14.41	2.15	26.57	147.15
1682.00	8.51	155.25	1680.11	39.18	-34.17	19.74	1.38	39.46	149.99
1778.00	9.94	158.14	1774.87	54.56	-48.32	25.80	1.57	54.77	151.90
1873.00	9.56	157.67	1868.50	70.65	-63.22	31.85	0.41	70.79	153.26
1968.00	10.53	159.64	1962.04	87.21	-78.66	37.86	1.08	87.30	154.30
2064.00	9.83	160.07	2056.53	104.15	-94.59	43.71	0.73	104.20	155.20
2159.00	9.69	160.58	2150.15	120.23	-109.75	49.13	0.17	120.25	155.88
2255.00	10.79	160.25	2244.62	137.26	-125.83	54.86	1.15	137.27	156.45
2350.00	10.78	156.23	2337.95	155.02	-142.33	61.44	0.79	155.02	156.65
2445.00	10.67	156.45	2431.29	172.70	-158.52	68.54	0.12	172.70	156.62
2540.00	10.54	155.44	2524.66	190.18	-174.49	75.66	0.24	190.18	156.56
2604.00	10.43	156.37	2587.60	201.82	-185.12	80.42	0.32	201.83	156.52
2699.00	8.58	156.51	2681.29	217.51	-199.50	86.69	1.95	217.52	156.51
2794.00	7.39	158.65	2775.36	230.71	-211.69	91.74	1.29	230.71	156.57
2889.00	5.58	158.12	2869.75	241.43	-221.66	95.68	1.91	241.43	156.65
2984.00	4.30	167.04	2964.40	249.55	-229.42	98.20	1.57	249.55	156.83
3080.00	2.86	157.16	3060.21	255.49	-235.14	99.94	1.63	255.49	156.97
3175.00	1.50	150.04	3155.14	259.10	-238.40	101.48	1.46	259.10	156.94
3270.00	0.67	256.00	3250.13	260.24	-239.61	101.56	1.90	260.24	157.03
3365.00	0.82	280.00	3345.12	259.79	-239.63	100.35	0.36	259.79	157.28
3460.00	0.48	176.03	3440.12	259.79	-239.90	99.71	1.10	259.80	157.43
3556.00	0.51	181.08	3536.11	260.56	-240.73	99.73	0.06	260.57	157.50
3651.00	0.65	173.19	3631.11	261.46	-241.69	99.79	0.17	261.48	157.57
3746.00	0.67	157.21	3726.10	262.54	-242.74	100.07	0.19	262.55	157.60
3841.00	0.59	154.21	3821.10	263.58	-243.69	100.50	0.09	263.60	157.59
3936.00	0.24	309.36	3916.09	263.89	-244.00	100.55	0.86	263.91	157.60
4031.00	0.30	302.31	4011.09	263.51	-243.74	100.19	0.07	263.53	157.66
4126.00	0.45	322.60	4106.09	262.95	-243.32	99.75	0.21	262.97	157.71
4222.00	1.06	337.45	4202.08	261.69	-242.20	99.18	0.66	261.72	157.73
4317.00	0.86	37.93	4297.07	260.47	-240.82	99.29	1.03	260.49	157.59
4412.00	0.59	7.90	4392.06	259.70	-239.78	99.79	0.48	259.71	157.40
4507.00	1.14	0.19	4487.05	258.42	-238.35	99.86	0.59	258.42	157.27
4602.00	1.01	346.16	4582.04	256.72	-236.59	99.66	0.31	256.72	157.16
4667.00	1.10	18.68	4647.03	255.69	-235.44	99.73	0.92	255.69	157.04
4729.00	0.53	71.05	4709.02	255.27	-234.78	100.19	1.42	255.27	156.89
4824.00	0.28	38.14	4804.02	255.19	-234.46	100.75	0.35	255.19	156.75
4920.00	0.71	12.94	4900.01	254.59	-233.69	101.03	0.49	254.60	156.62
5015.00	1.19	5.48	4995.00	253.25	-232.14	101.25	0.52	253.26	156.43
5110.00	0.82	20.33	5089.99	251.89	-230.52	101.58	0.47	251.91	156.22
5206.00	0.28	132.80	5185.98	251.60	-230.03	101.99	1.00	251.63	156.09
5301.00	0.54	23.07	5280.98	251.51	-229.78	102.34	0.72	251.54	155.99
5396.00	0.34	49.15	5375.98	251.11	-229.18	102.73	0.29	251.15	155.86
5491.00	1.12	153.76	5470.97	251.95	-229.83	103.35	1.32	252.00	155.79
5586.00	2.14	189.33	5565.94	254.38	-232.42	103.47	1.46	254.41	156.00



Scientific Drilling International Survey Report

Company: MACK ENERGY	Date: 12/16/2007	Time: 19:33:59	Page: 2
Field: Chalk Bluff	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: State H #2	Section (VS) Reference:	Well (0 00N,0.00E, 156.92Azi)	
Wellpath: DH - Job #32D11071006	Survey Calculation Method:	Minimum Curvature	Db: Sybase

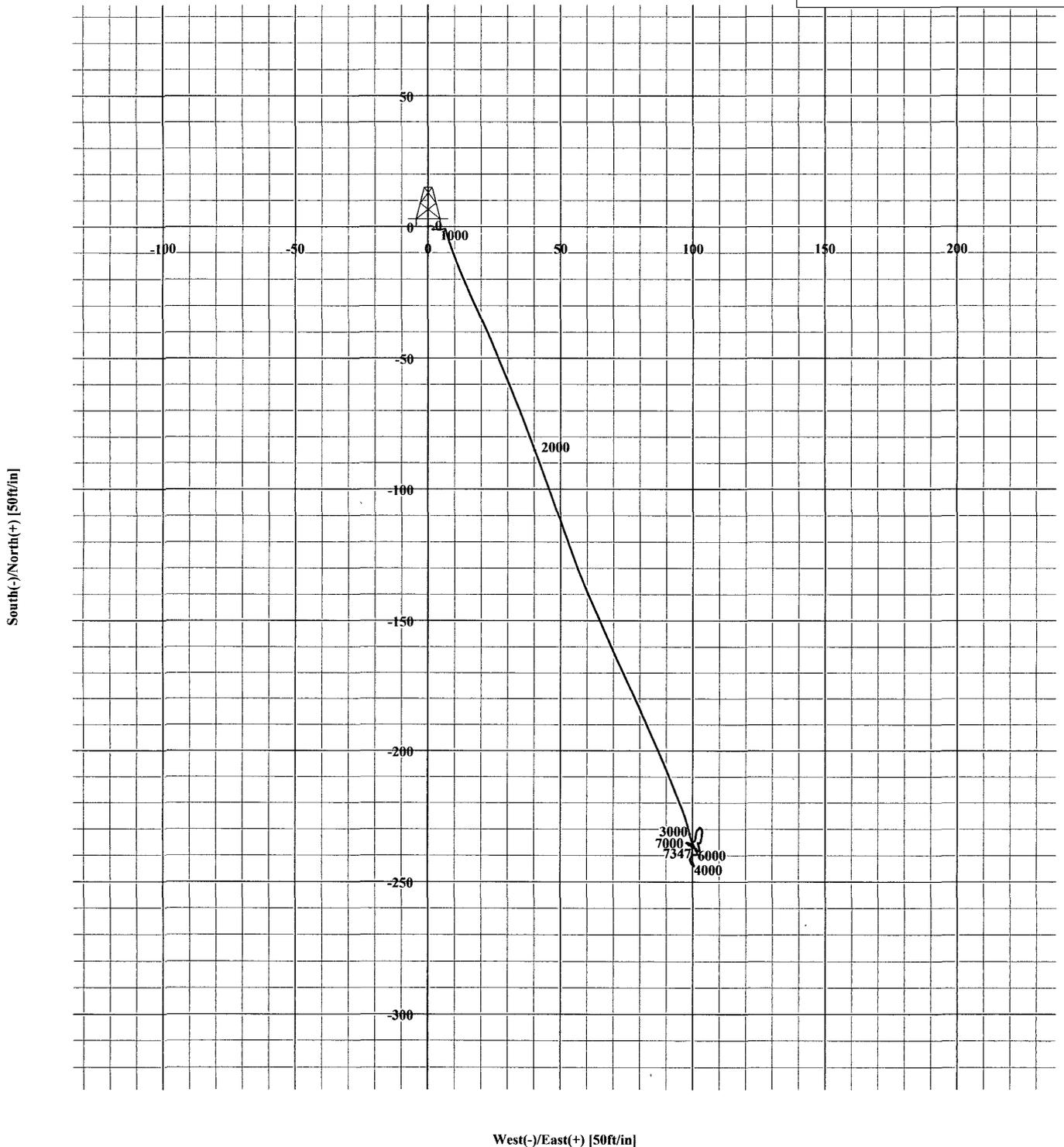
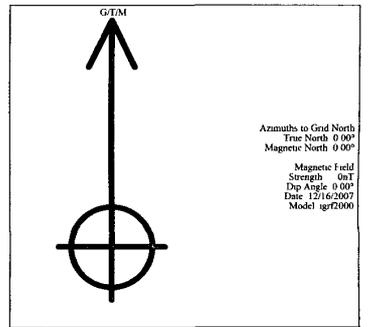
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	CIsD ft	CIsA deg
5681.00	1.09	194.79	5660.90	256.59	-235.04	102.96	1.12	256.60	156.34
5745.00	0.67	318.43	5724.89	256.71	-235.35	102.55	2.44	256.72	156.45
5839.00	0.24	221.30	5818.89	256.28	-235.08	102.06	0.79	256.28	156.53
5935.00	1.41	161.10	5914.88	257.54	-236.35	102.31	1.36	257.55	156.59
5998.00	1.01	182.35	5977.87	258.82	-237.64	102.54	0.94	258.82	156.66
6093.00	0.20	294.46	6072.86	259.45	-238.41	102.35	1.16	259.45	156.77
6189.00	0.34	306.99	6168.86	259.08	-238.17	101.97	0.16	259.08	156.82
6284.00	0.45	287.60	6263.86	258.59	-237.89	101.39	0.18	258.59	156.92
6379.00	1.01	331.75	6358.85	257.51	-237.04	100.64	0.79	257.51	157.00
6474.00	0.11	334.85	6453.84	256.59	-236.22	100.20	0.95	256.59	157.01
6570.00	0.15	314.50	6549.84	256.38	-236.04	100.07	0.06	256.38	157.02
6665.00	0.27	304.58	6644.84	256.08	-235.83	99.80	0.13	256.08	157.06
6760.00	0.45	295.56	6739.84	255.61	-235.54	99.28	0.20	255.61	157.14
6855.00	0.46	296.68	6834.84	255.04	-235.21	98.60	0.01	255.04	157.26
6950.00	0.51	281.73	6929.83	254.50	-234.95	97.85	0.14	254.51	157.39
7046.00	1.09	134.41	7025.83	255.10	-235.50	98.08	1.61	255.11	157.39
7140.00	0.38	89.52	7119.82	256.05	-236.13	99.03	0.92	256.05	157.25
7235.00	0.57	122.42	7214.82	256.56	-236.38	99.75	0.34	256.56	157.12
7330.00	0.81	125.40	7309.81	257.52	-237.02	100.69	0.26	257.52	156.98
7367.00	0.87	128.12	7346.81	257.99	-237.35	101.13	0.19	257.99	156.92



Scientific
Drilling

Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006
Survey: 11/05/07-11/14/07



Wilson, Kimberly M, EMNRD

From: Jerry Sherrell [jerrys@mackenergycorp.com]
Sent: Wednesday, March 05, 2008 3:37 PM
To: Wilson, Kimberly M, EMNRD
Subject: FW: Financial Assurance/Rule 40- Mack
Importance: High

From: Altomare, Mikal, EMNRD [mailto:Mikal.Altomare@state.nm.us]
Sent: Tuesday, March 04, 2008 11:03 AM
To: Mull, Donna, EMNRD
Cc: Rebecca Groh; Jerry Sherrell; Phillips, Dorothy, EMNRD
Subject: Financial Assurance/Rule 40- Mack
Importance: High

Donna –

I have received a pdf version of what appears to be a properly and fully executed single well bond for the state h no. 001, 03-015-00745, which Mack has assured me that they are overnighting to our office. Everything appears to be in order, and I expect that, upon receipt of the original in our office, it will be reviewed and accepted and Mack will no longer be listed as being out of compliance with financial assurance requirements. That being said, and given that Mack has posted all other necessary financial assurances for all other properties, if there are no other violations or issues with approval of pending Mack applications, consider them to be in compliance for purposes of pending permit applications with your office.

Please contact me if you have any questions.

Thanks,

Mikal



Mikal M. Altomare

Assistant General Counsel
Oil Conservation Division
Energy, Minerals & Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Tel 505.476.3480 ~ Fax 505.476.3462
mikal.altomare@state.nm.us

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3/5/2008

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3/5/2008

Submit 3 Copies To Appropriate District Office
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 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
 June 19, 2008

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

Record Clean up

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)		WELL API NO. 30-015-35814
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Mack Energy Corporation		6. State Oil & Gas Lease No. B-9391
3. Address of Operator P.O. Box 960 Artesia, NM 88210		7. Lease Name or Unit Agreement Name State H
4. Well Location Unit Letter <u>H</u> <u>2063</u> feet from the <u>North</u> line and <u>441</u> feet from the <u>East</u> line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		8. Well Number 2
11. Elevation (Show whether DR, RKB, RT, GR etc) 3590' GR		9. OGRID Number 013837
		10. Pool Name or Wildcat Red Lake; Glorieta-Yeso NE

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIALWORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: Workover <input checked="" type="checkbox"/>	

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

- 2/12/2008 Perforated 3790.5-4025.5', 54 holes.
- 2/13/2008 Acidized w/ 2,500 gals 15% NEFE Acid.
- 2/20/2008 Frac w/ 20,156# White Sand 16/30, 13,828# Siber Prop 16/30, 36,414 gals 40# gel.
- 2/21/2008 Perforated 3364-3677', 72 holes.
- 2/22/2008 Acidized w/ 2,500 gals 15% NEFE Acid.
- 2/25/2008 Frac w/ 8,000# LiteProp 125 14/30, 73,600# White Sand 16/30, 15,380# Siber Prop 16/30, 85,000 gals 40# Linear Gel.
- 2/27/2008 RIH w/ 134jts 2 7/8" J-55 6.5# tubing, SN @ 4243', 2 1/2 x 2 x 20' pump.

RECEIVED
 SEP 20 2012
 NMOC D ARTESIA

Spud Date: 10/31/2007 Rig Release Date: 11/22/2007

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

SIGNATURE Deana Weaver TITLE Production Clerk DATE 9.18.12

Type or print name Deana Weaver E-mail address: dweaver@mec.com PHONE: (575)748-1288

For State Use Only

APPROVED BY: [Signature] TITLE Dist. Supervisor DATE 9/26/12

Conditions of Approval (if any):

SUBSURFACE

NAVAJO REFINING COMPANY

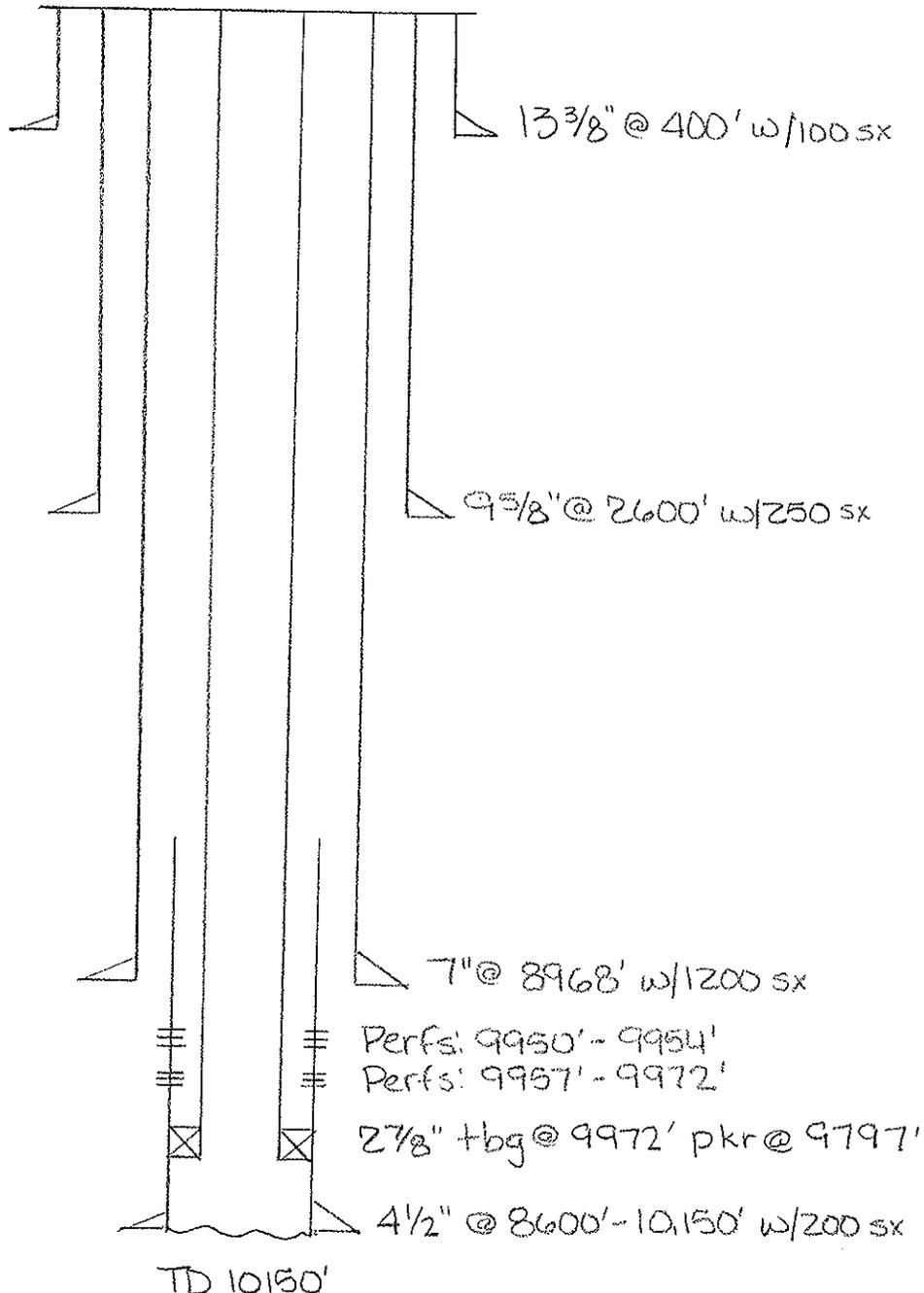
Map ID No. 74

Artificial Penetration Review

OPERATOR Newbourne Oil Co.
LEASE Chalk Bluff Fed
WELL NUMBER Com 003
DRILLED 11-24-92
PLUGGED NA

STATUS Active Gas
LOCATION Sec. 1 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE 7345'
API NO. 30-015-27163

REMARKS: Calc. Top of Cement behind 7" @ 910'



SUBSURFACE

NAVAJO REFINING COMPANY, L.L.C.

Map ID No. 99

Artificial Penetration Review

OPERATOR Mewbourne Oil

LEASE Chalk Bluff Federal

WELL NUMBER 3

DRILLED 1/16/93

PLUGGED NA

STATUS Active

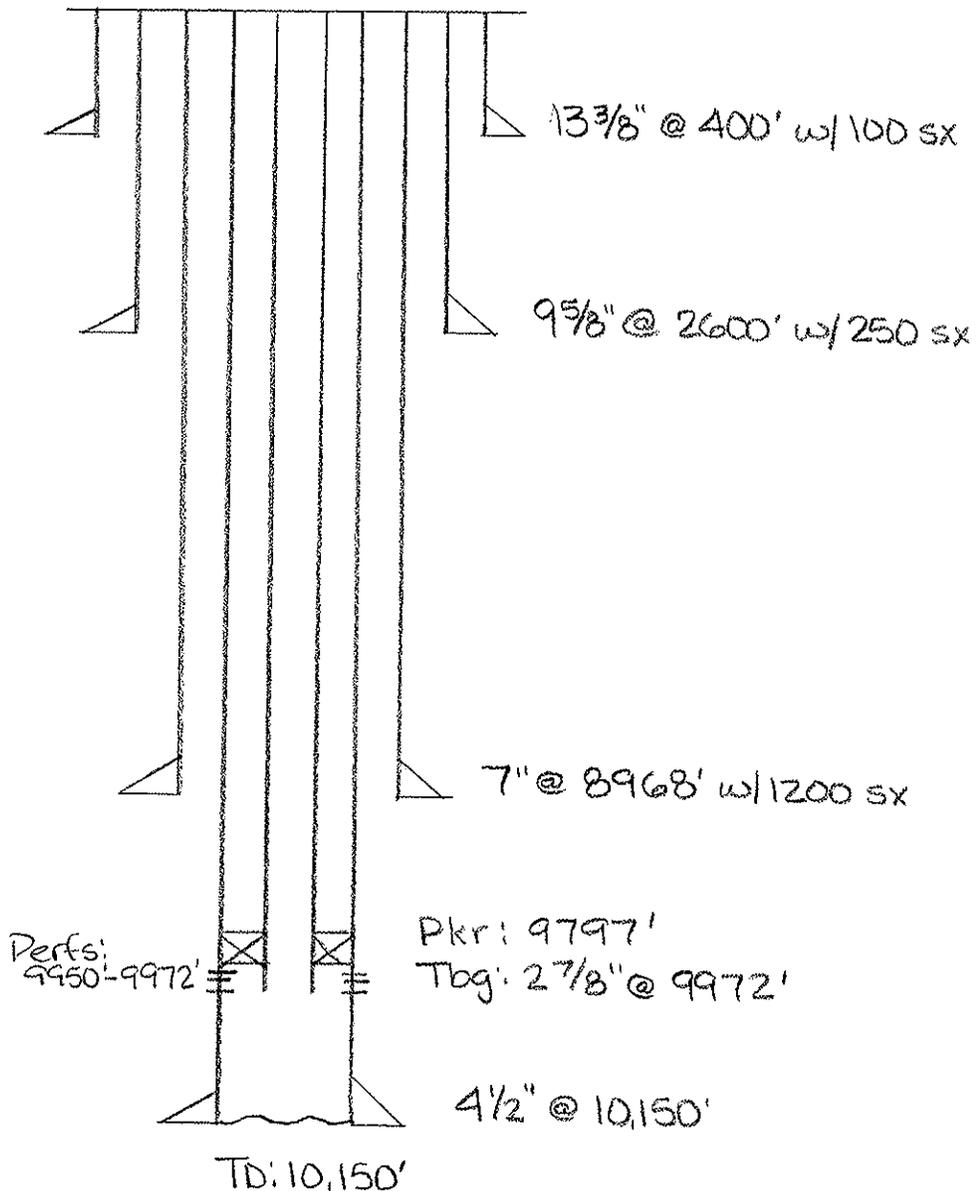
LOCATION Sec. 1 -T18S-R27E

MUD FILLED BOREHOLE NA

TOP INJECTION ZONE -3702'

API NO. 30-015-27163

REMARKS:



MAP ID NO. 99

**MEWBOURNE OIL CO.
CHALK BLUFF FEDERAL COM NO. 003**

API NO. 30-015-27163

APD ATTACHMENT

Mewbourne Oil Company Chalk Bluff Federal Comm. #3 NM-016788
1980' FSL & 990' FEL Sec. 1-T18S-R27E Eddy County, NM.

- 1.) Casing Design and Safety Factors (See schedule 1 for used casing design program.)

- 2.) Cement Program for Casing Strings.
Surface Casing:
250 sacks of Class "C" containing 2% CaCL₂ + 1/4#/sack of cellophane flakes followed by 200 sacks of Class "C" containing 3% CaCL₂.

Intermediate Casing:
700 sacks of Class "C" containing 6% gel + 2% CaCL₂ + 1/2#/sack of cellophane flakes + 5#/sack of Gilsonite followed by 200 sacks of Class "C" containing 3% CaCL₂.

Production Casing:
A cement diverter tool (D. V. Tool) will be run at a depth of approximately 7500' from surface.
1st Stage:
850 sacks of Class "H" containing 5#/sack KCL + .7% fluid loss additive + 5#/sack compressive strength extender.
2nd Stage:
900 sacks of Class "C" Lite containing 1/2#/sack cellophane flakes + 5#/sack Gilsonite + .4% fluid loss extender followed by 100 sacks of Class "H" containing .4% fluid loss additive + 5#/sack compressive strength extender.

- 3.) Drilling time will require approximately 35 - 40 days and drilling operations should begin approximately November 1, 1992.

- 4.) The possibility of encountering H₂S gas in this area remote. Mewbourne Oil Company has drilled offset wells to this proposed location and none of these wells have encountered any H₂S gas in the Pennsylvanian. In the event H₂S is encountered, the necessary H₂S safety equipment will be installed on location to provide for a safe working environment.

- 5.) Anticipated formation temperature and pressure in the Morrow zone will be approximately 155 degrees fahrenheit and 3,000# psi.

- 6.) This location is a non-standard location. A hearing is scheduled for October 15, 1992 in Santa Fe, New Mexico before the New Mexico Oil Conservation Division for an unorthodox location exception.

- 7.) The pressure rating on the BOP STACK (see exhibit "D" of the APD) is 3,000# psi. The correct pressure rating of ANSI 900 series is noted in the APD. The API standard for pressure ratings for flanged equipment is in ANSI series. ANSI 600 series is 2,000# psi working pressure, ANSI 900 series is 3,000# psi working pressure, ANSI 1500 series is 5,000# psi work-pressure.

SCHEDULE ONE

LEASE NAME: CHALK BLUFF FEDERAL #3 **TYPE OF CSG STRING:** PRODUCTION
LEGAL: SEC 1-18S-27E **DEPTH OF CSG:** 10,300

CASING MINIMUM PERFORMANCE PROPERTIES

CSG TYPE	K-FACTOR	COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&C	991,000	8830	9190	428000
2 5 1/2" 17# N-80 LT&C	844,000	6380	7740	348000
3 5 1/2" 20# N-80 LT&C	991,000	8830	9190	428000
4				
5				

GRADE OF CASING: 85 % OF NEW

CSG TYPE	COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&C	7506	7812	363800
2 5 1/2" 17# N-80 LT&C	5423	6579	295800
3 5 1/2" 20# N-80 LT&C	7506	7812	363800
4 0	0	0	0
5 0	0	0	0

SETTING DEPTH (WT. OF CSG IN AIR)		CASING	INTERVAL	INTERVAL	CUMMULATIVE
FROM	TO	WT. (LB/FT)	LGTH (FT.)	WT. (LBS)	WT. (LBS)
1 0	1,000	20	1000	20,000	181,100
2 1,000	9,300	17	8300	141,100	161,100
3 9,300	10,300	20	1000	20,000	20,000
4 0			0	0	0
5 0			0	0	0

WELLBORE CONDITIONS

MUD WEIGHT: 9.6 PPG
BOUYANCY FACTOR 0.853 (AIR = 1)
DISPLACEMENT FLUID WT: 8.5 PPG

DEPTH	ANNULAR	COLLAPSE	HOLE	TENSION
	HYDROSTATIC	W/AXIAL	HYDROSTATIC	
	PRESSURE	LOADING	PRESSURE	
0	0		0	154,478
1 1000	499	5982	442	137,418
2 9300	4643	5290	4111	17,060
3 10300	5142	7506	4553	0
4 0	0	ERR	0	0
5 0	0	ERR	0	0

FINIAL CASING DESIGN

SAFTEY FACTORS

	FROM	TO	LENGTH	COLLAPSE	BURST	TENSION
				>1.125	>1.00	>2.00
0	0	0	0	ERR	ERR	ERR
0	0	0	0	ERR	ERR	ERR
5 1/2" 20# N-80 LT&C	10,300	9,300	1000	1.460	1.716	21.325
5 1/2" 17# N-80 LT&C	9,300	1,000	8300	1.139	1.600	2.153
5 1/2" 20# N-80 LT&C	1,000	0	1000	11.983	17.673	2.355

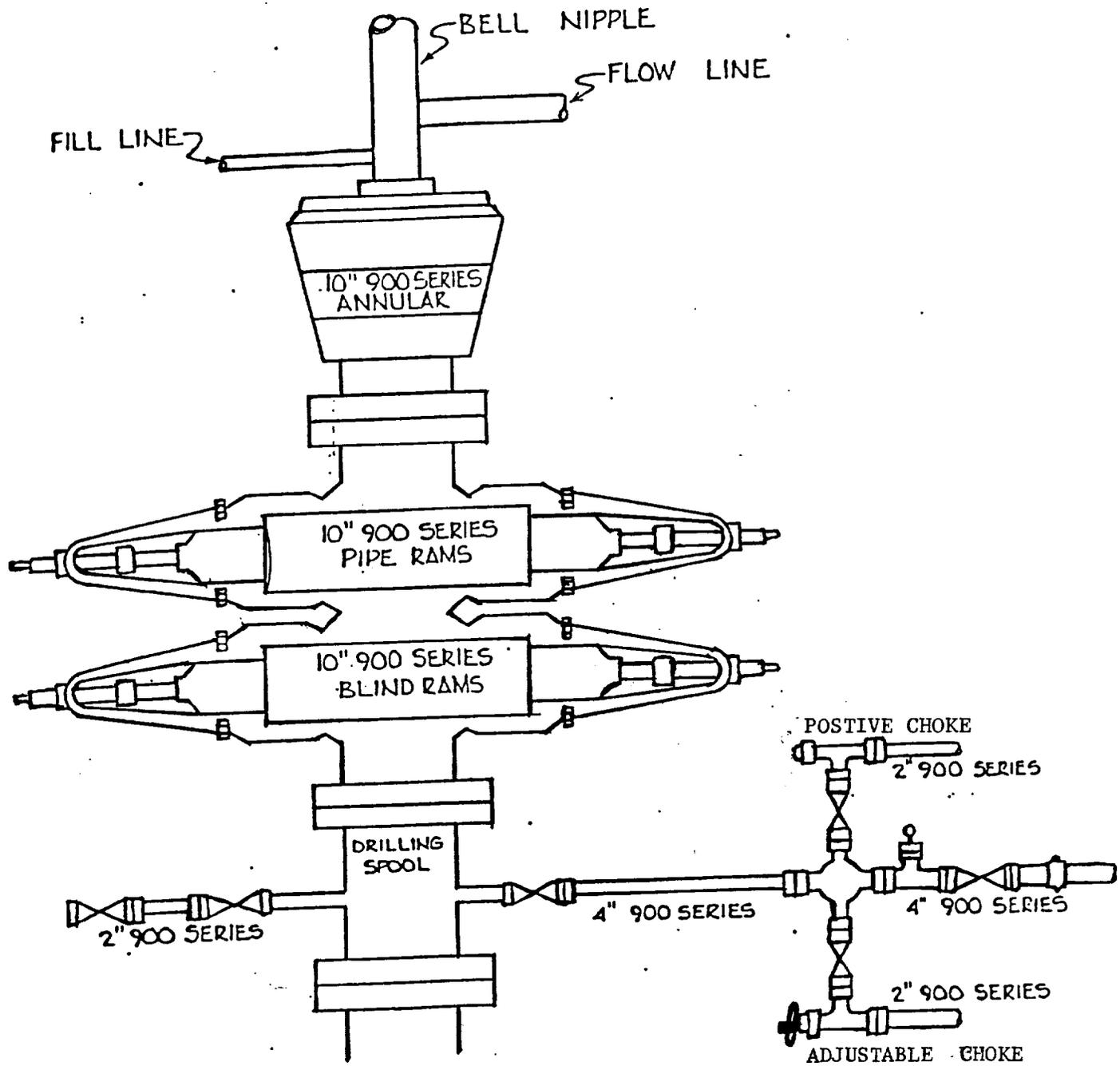
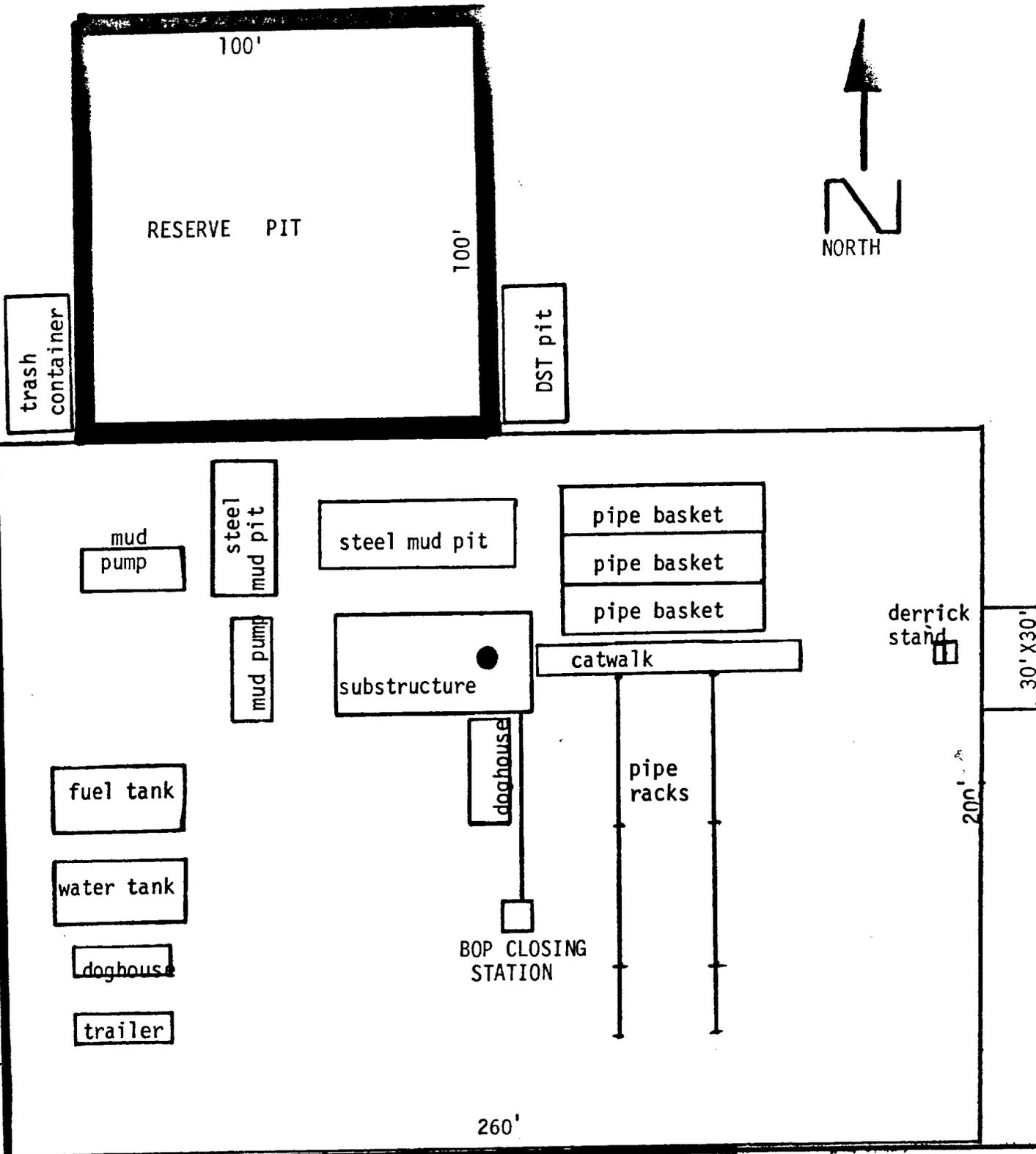


EXHIBIT "D"

Mewbourne Oil Company
 Chalk Bluff Federal #3
 1980' FSL & 990' FEL
 Section 1-T17S-R29E
 Eddy County, New Mexico

Existing Lease Road

200'



Existing lease road

Mewbourne Oil Company
 Chalk Bluff Federal #3
 1980' FSL & 990' FEL
 Section 1-T17S-R29E
 Eddy County, New Mexico
 Proposed location with
 dimensions.

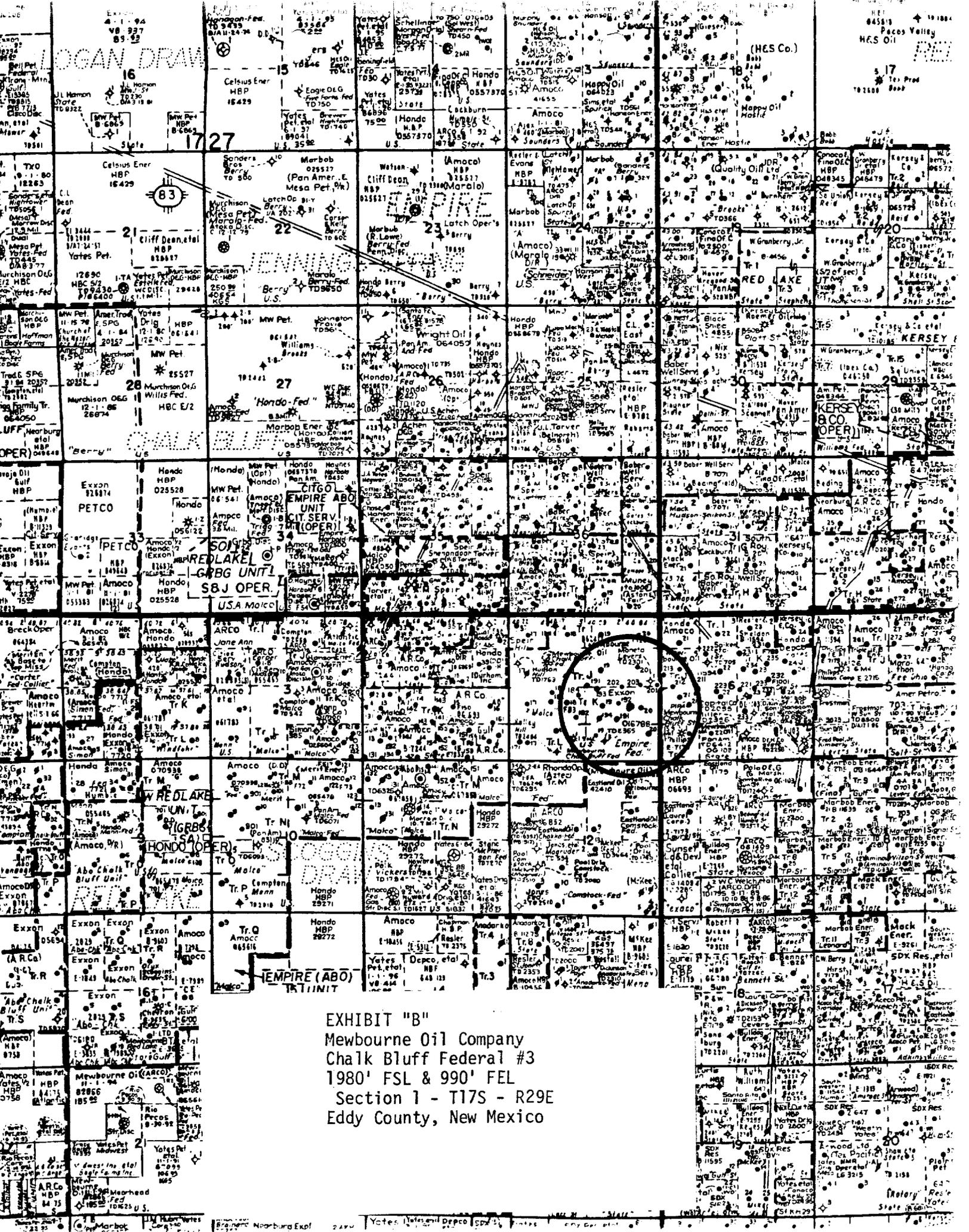
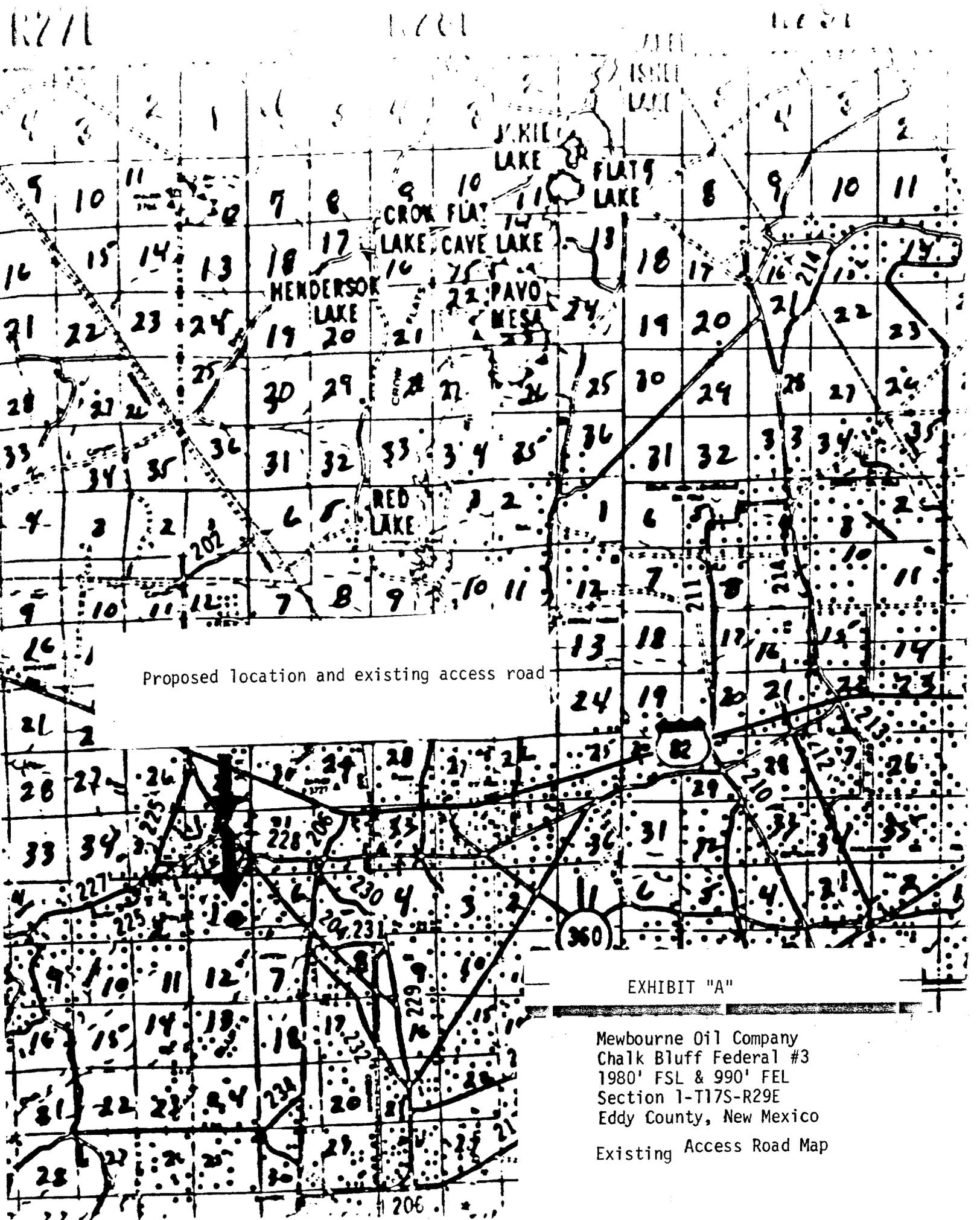


EXHIBIT "B"
 Mewbourne Oil Company
 Chalk Bluff Federal #3
 1980' FSL & 990' FEL
 Section 1 - T17S - R29E
 Eddy County, New Mexico



Proposed location and existing access road

EXHIBIT "A"

Mewbourne Oil Company
 Chalk Bluff Federal #3
 1980' FSL & 990' FEL
 Section 1-T17S-R29E
 Eddy County, New Mexico
 Existing Access Road Map

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

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised 1-1-89

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT
 All Distances must be from the outer boundaries of the section

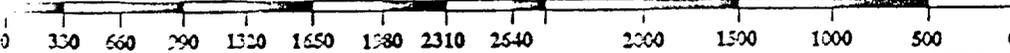
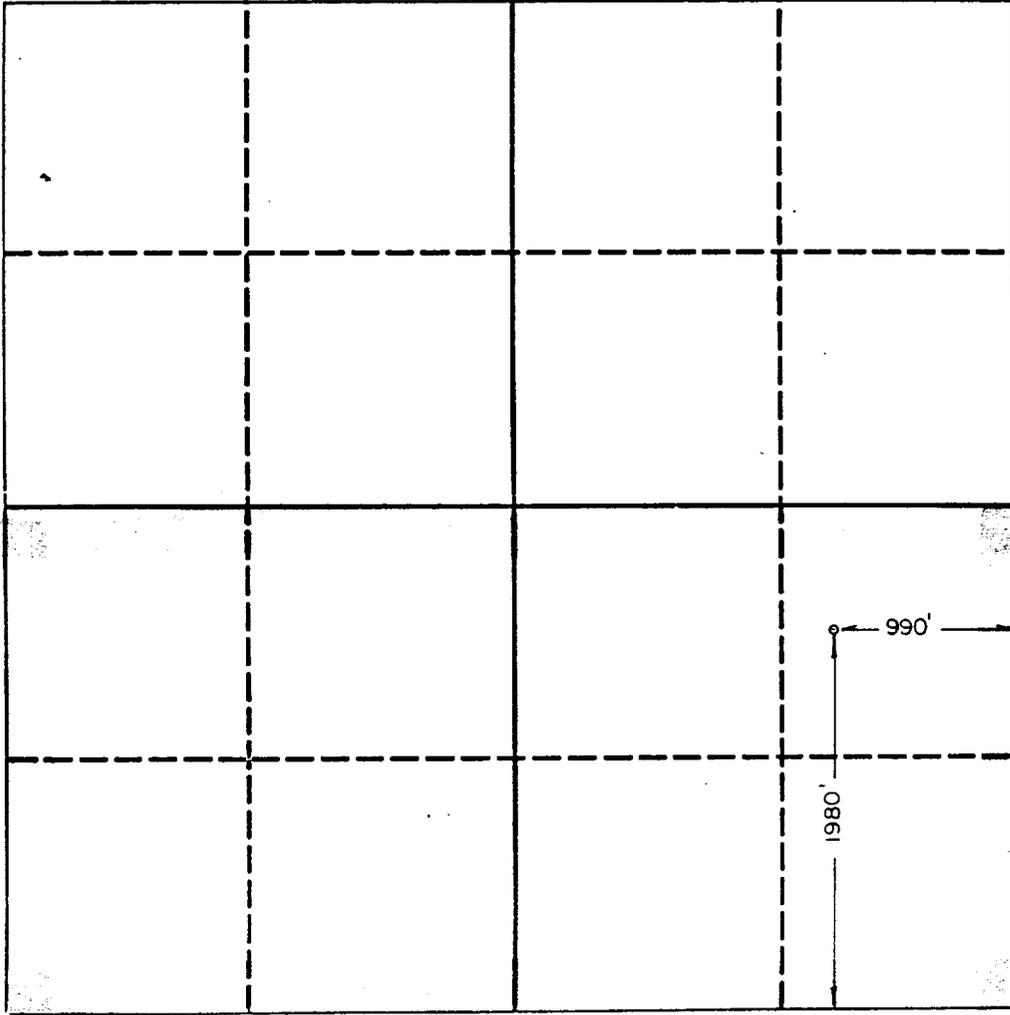
Operator MEWBOURNE OIL COMPANY		Lease CHALK BLUFF FEDERAL		Well No. 3
Unit Letter I	Section 1	Township 18 SOUTH	Range 27 EAST	County EDDY
Actual Footage Location of Well: 1980 feet from the SOUTH line and 990 feet from the EAST line				
Ground level Elev. 3628	Producing Formation Morrow	Pool North Illinois Camp Morrow	Dedicated Acreage: 320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

Yes No If answer is "yes" type of consolidation Communitization

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



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

Signature Bill Pierce
 Printed Name **Bill Pierce**
 Position **Drilling Superintendent**
 Company **Mewbourne Oil Company**
 Date **August 31, 1992**

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

Date Surveyed **8/26/92**

Signature & Seal of Professional Surveyor

HERSCHEL L. JONES
 STATE OF NEW MEXICO
 Certificate No. **3640**

12. CERTIFICATION:

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

September 9, 1992



Kelly Ryan
District Superintendent
MEWBOURNE OIL COMPANY

- C. The estimated depths at which anticipated water, oil or natural gas can be expected are:
- Water: Possible surface water between 100' - 300'.
Oil: Penrose @ 1520'
Gas: Wolfcamp @ 6900'
- D. Proposed Casing Program: See Form 3160-3
- E. Pressure Control Equipment: See Form 3160-3 and Exhibit "D".
- F. Mud Program: See Form 3160-3.
- G. Auxiliary Equipment: Mud-gas separator, PVT system, and Hydraulic choke from 6,000' to T.D.
- H. Testing and Coring Program: Possibility of 4 DST's in the following zones: Wolfcamp, Cisco, Strawn, Morrow. No cores are planned at this time.
- I. Logging: Gamma Ray - Spectral Density Dual Spaced Neutron Log from T.D. to surface.
Gamma Ray - Dual LaterLog - Micro Guard Log from T. D. to Intermediate casing.
- J. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to accomodate the increased pressures.
- K. Anticipated Starting Date: As soon as possible after BLM approval.

11. OPERATOR'S REPRESENTATIVES:

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

Kelly Ryan	(505) 393-5905	Box 5270
Bill Pierce	24. hour aswering	Hobbs, NM
Greg Milner	service.	88241

7. ANCILLARY FACILITIES:

A. None required.

8. WELLSITE LAYOUT:

A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pits, trash container and location of major rig components.

B. A 400' X 400' area has been flagged surround-
the staked well.

9. PLANS AND RESTORATION OF THE SURFACE:

A. After completion of drilling and/or completion operations, all equipment not needed for producing operations will be removed. Pits will be filled in after all fluids have evaporated and the location cleaned of all trash and junk to leave the wellsite in an asthetically pleasing condition as reasonably possible. All production facilities left on location will be painted to conform with BLM painting regulations within 120 days of completion.

10. OTHER INFORMATION:

A. The geologic surface formation is hard clay interspersed with sand and chert outcroppings. Vegetative covering is generally sparse except in low-lying areas where grass is prevelant. Other vegetative covering consists mostly of greasewood and bear grass.

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

Queen	1260'	Cisco	7740'
✓ San Andres	2100'	Canyon	8350'
Glorieta	3720'	Strawn	8900'
✓ Tubb	4930'	Atoka	9500'
✓ Abo	5900'	✓ Morrow	9600'
✓ Wolfcamp	6900'	Miss.	10,100'

4. LOCATION AND TYPE OF WATER SUPPLY:

- A. Water will be purchased from trucking companies servicing this area and will be trucked to the wellsite over existing and/or proposed roads shown on Exhibits "A" and "AA".

5. LOCATION OF CONSTRUCTION MATERIALS:

- A. Caliche for construction of the location and any needed road repairs hopefully will come from the location itself. If this is not possible, caliche will be taken from a BLM pit located in the NE4/NW4 of Sec. 12-T18S-R27E which is BLM pit #18271203. This pit also extends into the SE4/SW4 of Sec. 1-T18S-R27E which is BLM pit #18270114. An alternative pit which may be used in the event BLM pit #18271203 contains unsuitable material is a BLM pit located in the SW4/NE4 of Sec. 1-T18S-R27E which is BLM pit #18270107.

6. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water used and produced during stimulation, production testing, squeezing operations etc. will be disposed of in the drilling pits. Oil produced during tests will be stored on site in steel test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. All trash, junk and other waste material will be contained in an appropriate container to prevent scattering and will be removed and deposited in an approved sanitary landfill.
- F. All trash and debris will be buried or removed from the wellsite within 90 days after drilling and/or completion operations have ceased.

MULTI-POINT SURFACE USE AND OPERATING PLAN
MEWBOURNE OIL COMPANY
CHALK BLUFF FEDERAL WELL NO. 3
1980' FSL & 990' FEL OF SEC. 1-T18S-R30E
EDDY COUNTY, NEW MEXICO
NEW MEXICO LEASE NO. NM-016788

This plan is submitted with the Application for Permit to Drill (APD) the above captioned well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, operations plan and the magnitude of necessary surface disturbance involved, so that a complete, comprehensive appraisal can be made as to the environmental effects associated with this operation. The surface is owned by the Federal Government and is managed by the Bureau of Land Management.

1. **EXISTING ROADS:**

- A. From the junction of U. S. 82 and U. S. 285 Highways in Artesia, proceed east on U. S. 82 12 miles. Turn right (south) on Eddy County Road #206 (Illinois Camp Road) and proceed south for 1.75 miles. Turn right (northwest) on Eddy County Road #204 and proceed .75 miles. Turn left (west) on caliche lease road and proceed 1 mile. Turn right (north) 100 yards on caliche lease road and location will be on the right hand side of the lease road. (Exhibit "A" & "AA")
- B. Culverts: None required
- C. Cuts and Fills: A two foot cut will be required to construct the location.
- D. Turn-Outs: None required.
- E. Gates or Cattleguards: None required.

2. **LOCATION OF EXISTING WELLS**

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

3. **LOCATION OF PROPOSED ACTIVITIES:**

- A. If the well is productive, all production facilities will be constructed on the existing pad.

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other ins'ns on reverse)

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

31-115-27163
5. LEASE DESIGNATION AND SERIAL NO.
NM-016788 0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Chalk Bluff Fed. Comm.

9. WELL NO.
3

10. FIELD AND POOL, OR WILDCAT
North Illinois Camp Morrow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
18S 27E
1-T17S-R29E

12. COUNTY OR PARISH 13. STATE
Eddy NM

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
1980' FSL and 990' FEL
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
12 miles southeast of Artesia, New Mexico

16. NO. OF ACRES IN LEASE
320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
2040'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3628' GR

RECEIVED
OCT 13 1992
C. D. ARTESIA OFFICE

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

20. ROTARY OR CABLE TOOLS
Rotary

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#	400' ±	450 sks. Class C circulated
12 1/4"	9 5/8"	36#	2,600' ±	800 sks. Tie back into surface.
8 3/4"	5 1/2"	17 & 20#	10,300' ±	600 sks. of Class "H" SEE STRIPS.

Mud Program:
0-400' Spud mud with fresh water gel and lime. LCM as needed.
400' - 2600' Fresh water gel and lime. LCM as needed.
2,600' - 8500' Cut brine with lime for pH control. Wt. 9.2 - 9.6# ppg, WL - NC. LCM as needed.
8,500 - 10.300' Cut brine with Drispac, salt gel, lime, soda ash, and starch. Wt. 9.2 - 9.6 ppg. WL 10 CC or less. Raise weight accordingly if abnormal pressures are encountered.

BOP PROGRAM:
900 series BOP and Hydrill on 13 3/8" surface casing and on 9 5/8" intermediate casing.

Gas is not dedicated.
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

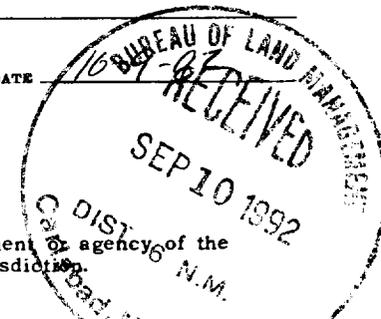
SIGNED [Signature] TITLE District Superintendent DATE 09/09/1992

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:
APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

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



INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

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

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

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operation 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.

dsf

RECEIVED

JAN 04 1993

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

O. C. D.
ADDITIONAL SERVICE

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

1980' FSL & 990' FEL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557377

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal
Comm. #3

9. API Well No.

3001527163

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

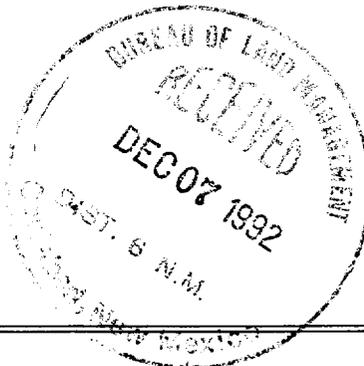
TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Spud well & cemented
13-3/8" surf. csg.
 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.)*

Spudded well @ 4:00 p.m. MST 11/24/92. Drilled 17-1/2" surface hole to 400' KB. Ran 10 joints of 13-3/8", 54.50#, New LS, ST&C casing and set @ 400' KB. Western cemented w/100 sks. Class "H" cement containing 12% Thixad + 3% CaCl2 followed by 265 sks. of Class "C" containing 6% Gel + 3% CaCl2 + 1/4 pps celloseal + 5 pps gilsonite followed by 150 sks. of Class "C" neet containing 3% CaCl2. Circulated 50 sks. of cement to the pit. Job complete @ 5:30 a.m. 11/25/92.



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

Signed Bill Pierce

Title Drilling Supt.

Date 12/02/92

(This space for Federal or State office use)

Approved by [Signature]

Title _____

Date _____

Conditions of approval, if any:

1992

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.

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 3—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

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

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

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used.

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that: This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized. Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

CISF

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Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 04 1993

O. C. D.
APPROPRIATE OFFICE

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

1980' FSL & 1980' FEL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal

9. API Well No.

Comm. #3

3001527163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Cement 9-5/8" Inter. Casing</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Drilled 12-1/4" Intermediate hole to 2600' KB. Ran 59 joints of 9-5/8", 36#, New LS, ST&C casing and set @ 2600' KB. Western cemented with 590 sacks of Class "C" lite containing 6% gel + 10 pps NaCl + 1/4 pps celloseal followed by 250 sacks of Class "C" containing 2% CaCl2. Circulated 50 sacks of cement to the pit. Job complete @ 11: 50 p.m. 11/29/92.



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

Signed Bill Pierce

Title Drilling Supt.

Date 12-02-92

(This space for Federal or State office use)

Approved by David H. Glass 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

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 3—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

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

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

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used.

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that: This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

95F

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NM-0557371
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 5270 Hobbs, New Mexico 88241	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FSL & 1980' FEL Sec. 1-T18S-R27E	8. Well Name and No. Chalk Bluff Fed. Comm. 3
	9. API Well No. 30-015-27163
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Cement 7" casing</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Lost complete returns @ 7683'. Dry drilled 8-3/4" hole to 8968'. Ran 226 Jts. of 7", 26# & 29#, N-80 & S-95 grade used API casing and set @ 8968'. Multiple stage cementer @ 6997' and external casing packer @ 7026'. Western cemented the first stage w/350 sks. of Class "H" containing 8 pps CSE + .75% CF-14 + 5 pps Gilsonite + .35% Thrifty Lite. Set ECP and opened DV tool. Cemented 2nd stage w/750 sks. of Class "C" containing 1 pps celloseal + 5 pps gilsonite + 3% salt followed by 100 sks. of Class "H" Neet. Plug down to 6997' @ 2:45 a.m. 12/26/92

ACCEPTED FOR RECORD
(OR G. SGD.) DAVID R. GLASS
FEB 4 1993
CARLSBAD, NEW MEXICO

CARLSBAD OFFICE
AREA REPRESENTATIVES
JAN 25 9 40 AM '93

RECEIVED

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

Signed Bill Pierce Title Drilling Superintendent Date 01/20/93

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

QSF

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NM-0557371
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 5270 Hobbs, New Mexico 88241	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FSL & 1980' FEL Sec. 1-T18S-R27E	8. Well Name and No. Chalk Bluff Fed. Comm. #3
	9. API Well No. 30-015-27163
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Run 4-1/2" liner</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Drilled well to a total depth of 10,150' w/6" hole, ran 45 jts. of 4-1/2", 11.6#, N-80, used API casing and hung liner from 8599' to 10,150'. Western cemented w/200 sks. of Class "H" containing 5 pps CSE + 20 pps SF-3 + .9% CF-14 + 1 gal./100 sacks of Klay-Treat. Plug down to 10,113' @ 5:00 a.m. 01/06/93. Released rig and moved off location. 01/08/93

ACCEPTED FOR RECORD
(ORIG. SGD.) DAVID R. GLASS
FEB 4 1993
CARRIZO, NEW MEXICO

RECEIVED
JAN 25 9 40 AM '93
CARRIZO AREA OFFICE

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

Signed Bill Pierce Title Drilling Superintendent Date 01/21/93

(This space for Federal or State office use)

Approved by _____ 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.

SEC 1 TWN 18 RGE 27

API # 30-015-27163

OPERATOR MEWBOURNE OIL CO

WELL NAME CHALK BLUFF FEO Com #3

STATE OCD TOPS AS PER MARK ASHLEY

DATE 1-25-93

Southeastern New Mexico

Northwestern New Mexico

Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Perm "B" _____
Salt _____	T. Strawn _____ 8932	T. Kirtland-Fruitland _____	T. Perm "C" _____
Salt _____	T. Atoka _____ 9490	T. Picured Cliffs _____	T. Perm "D" _____
Yates _____ 450	T. Miss _____	T. Cliff House _____	T. Leadville _____
7 Rivers _____ 565	T. Devonian _____	T. Menefee _____	T. Madison _____
Queen _____ 1159	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
Grayburg _____ 1494	T. Momoya _____	T. Mancos _____	T. McCracken _____
San Andres _____ 1485	T. Simpson _____	T. Gallup _____	T. Ignacio Otzie _____
Glorieta _____ 3535	T. McKee _____	Base Greenhorn _____	T. Granite _____
Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
Blincbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
Tubb _____ 4760	T. Delaware Sand _____	T. Todilto _____	T. _____
Drinkard _____	T. Bone Springs _____	T. Enrada _____	T. _____
Abo _____ 5745	T. <u>Morrow LS</u> _____ 9710	T. Wingate _____	T. _____
Wolfcamp _____ 6475	T. _____	T. Chinle _____	T. _____
T. Perm _____ 7970	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Perm "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

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

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

REMARKS:

CISF
H
GT
DP

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

RECEIVED

JAN 29 1993

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

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

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

O. C. D.
ARTEC 104

I.

Operator Mewbourne Oil Company	Well API No. 30-015-27163
Address P.O. Box 5270 Hobbs, New Mexico 88241	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

If change of operator give name and address of previous operator _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name Chalk Bluff Federal Comm.	Well No. 3	Pool Name, Including Formation North Illinois Camp Morrow	Kind of Lease Oil , Federal or Gas	Lease No. NM-0557371
Location Unit Letter <u>I</u> : <u>1980</u> Feet From The <u>South</u> Line and <u>990</u> Feet From The <u>East</u> Line Section <u>1</u> Township <u>18S</u> Range <u>27E</u> , <u>NMPM</u> , <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Pipeline IPC	502 N. West Ave. Levelland, Tx. 79336-3914
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Transwestern Pipeline Company	P.O. Box 1188 Houston, Texas 77251
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When ?
	I 1 18S 27E Yes 01/15/93

If this production is commingled with that from any other lease or pool, give commingling order number: None

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 11/24/92	Date Compl. Ready to Prod. 01/16/93	Total Depth 10,150'		P.B.T.D. 10,102'				
Elevations (DF, RKB, RT, GR, etc.) KB 3643' DF 3641' GL 3628' Lower Morrow		Top Oil/Gas Pay 9950'		Tubing Depth 9972'				
Perforations 9950'-9954' 9957'-9972'				Depth Casing Shoe 10,150'				

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8" 54.5#	400'±	100 sacks <u>PORTED-2</u>
12-1/4"	9-5/8" 36#	2,600'	250 sacks <u>2-12-93</u>
8-3/4"	7" 26#	8,968'	1200 sacks <u>comp 4 BLS</u>
6"	4-1/2" Liner 11.6#	8,600' to 10,150'	200 sacks

V. TEST DATA AND REQUEST FOR ALLOWABLE

2-3/8" & 2-7/8"

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

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

GAS WELL

Actual Prod. Test - MCF/D 2000 MCF/D	Length of Test 24 Hrs.	Bbls. Condensate/MMCF 30 : 1	Gravity of Condensate N/A
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 2850	Casing Pressure (Shut-in) 0	Choke Size 10/64"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

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

R. A. Jones
Signature
Robert A Jones Engineer
Printed Name
01/19/93 Date
(505) 393-5905 Telephone No.

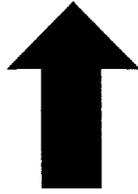
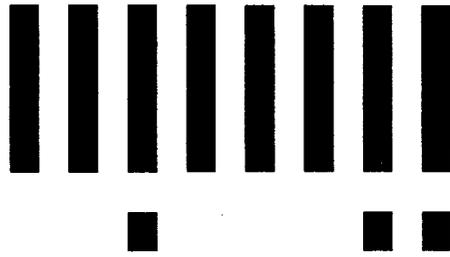
OIL CONSERVATION DIVISION

JAN 29 1993

Date Approved _____
By ORIGINAL SIGNED BY
MIKE WILLIAMS
Title SUPERVISOR, DISTRICT II

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

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.



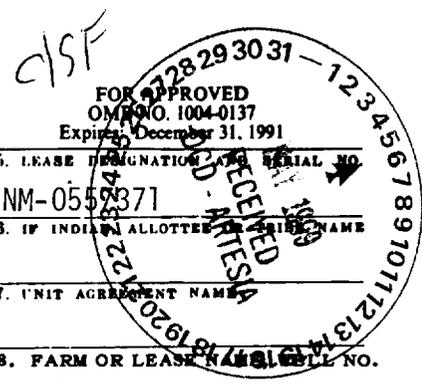
LTR



Job separation sheet

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE
See other instructions on reverse side



5. LEASE DESIGNATION AND SERIAL NO.
NM-0558371

6. IF INDIAN ALLOTTEE, NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NO.
Chalk Bluff Fed. Comm. #3

9. API WELL NO.
30-015-27163

10. FIELD AND POOL, OR WILDCAT
N. Illinois Camp Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 1-T18S-R27E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK Other

CONFIDENTIAL

2. NAME OF OPERATOR
Mewbourne Oil Company

3. ADDRESS AND TELEPHONE NO.
P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1980' FSL & 990' FEL
At top prod. interval reported below
At total depth Same

14. PERMIT NO. _____ DATE ISSUED _____

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

15. DATE SPUDDED 11/24/92 16. DATE T.D. REACHED 01/06/93 17. DATE COMPL. (Ready to prod.) 01/16/93 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 3643' DF 3641' GL 3628' 19. ELEV. CASINGHEAD 3628'

20. TOTAL DEPTH, MD & TVD 10,150' 21. PLUG, BACK T.D., MD & TVD 10,102' 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)*
9950'-9954', 9957'-9972' Lower Morrow Orange Sand

25. WAS DIRECTIONAL SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
SDL-DSN Dual-Latero-MFSL-GR Sonic CBL

27. WAS WELL CORRD
No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	400'±	17-1/2"	100 sx. Class "H"	None
9-5/8"	36#	2,600'±	12-1/4"	250 sx. Class "C"	None
7"	26 & 29#	8,968'	8-3/4"	1200 sx. Class "C & H"	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4-1/2"	8600'	10,150'	200 sxs.	None

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	9972'	9797'
2-3/8"		

31. PERFORATION RECORD (Interval, size and number)
9950'-9954' 9957'-9972'
4 SPF 19' 76 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9950'-9954'	None
9957'-9972'	None

33.* PRODUCTION

DATE FIRST PRODUCTION 01/16/93 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKS SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
01/16/93	24	10/64"	→	50	2000	0	40 MCF/BBL

FLOW. TUBING PRSS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
2720	0	→	60	2000	0	

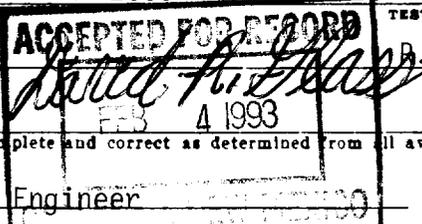
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Sold

TEST WITNESSED BY
R. Jones

35. LIST OF ATTACHMENTS
Logs- * Please hold in confidence

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

SIGNED [Signature] TITLE Engineer DATE 01/21/93

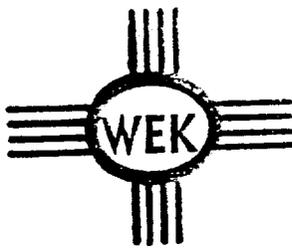


*(See Instructions and Spaces for Additional Data on Reverse Side)

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
M. Morrow	9950'	9972'	Sandstone	Yates	450'	
				7 Rivers	564'	
				Queen	1159'	
				Grayburg	1492'	
				San Andres	1985'	
				Glorieta	3536'	
				Tubb	4760'	
				Drinkard	5524'	
				Abo	5744'	
				Wolfcamp	6474'	
				Cisco	7686'	
				Canyon	8440'	
				Strawn	8932'	
				Atoka	9490'	
				Morrow	9594'	
				Morrow Clastic	9800'	
				L. Morrow	9911'	



DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

KEN REYNOLDS-PRESIDENT
ARNIE NEWKIRK-VICE-PRESIDENT

RECEIVED

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

JAN 27 10 52 AM '93

CARD...
AREA...

January 06, 1993

Mewbourne Oil Company
P.O. Box 5270
Hobbs, N.M. 88240

RE: Chalk Bluff Federal #3

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

400' - 3/4°	5033' - 2 3/4°	5813' - 4°
887' - 1°	5096' - 3°	5875' - 4°
1359' - 1°	5158' - 3°	5967' - 3 3/4°
1864' - 2°	5222' - 3 1/4°	6094' - 3 3/4°
2336' - 1 1/2°	5283' - 3 3/4°	6217' - 3 1/4°
2600' - 3/4°	5346' - 3 3/4°	6720' - 3 1/2°
2792' - 1 1/4°	5409' - 4°	7213' - 3°
3086' - 1°	5464' - 4 1/4°	7685' - 2 1/2°
3580' - 1 1/3°	5555' - 4 1/4°	8155' - 2 1/4°
4079' - 1°	5587' - 4 1/4°	8654' - 2°
4358' - 1 3/4°	5650' - 4 1/4°	9003' - 2°
4846' - 2 3/4°	5719' - 4 1/2°	9509' - 1/4°
		9837' - 3/4°
		10150' - 1 3/4° TD

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF CHAVES }

The foregoing was acknowledged before me this 06th day of January 1993 by Gary W. Chappell.

MY COMMISSION EXPIRES
October 07, 1996

NOTARY PUBLIC

RECEIVED JAN 07 1993



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr. R. Jones
P. O. Box 5270
Hobbs, New Mexico 88240

SAMPLE IDENTIFICATION: Chalk bluff #3
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

SAMPLE DATA:	DATE SAMPLED:	3/4/93 12:30PM	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	03-05-93	SAMPLED BY:	R. Jones
	PRESSURE - PSIG	530.0	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F			
	ATMOS. TEMP. °F			

REMARKS:

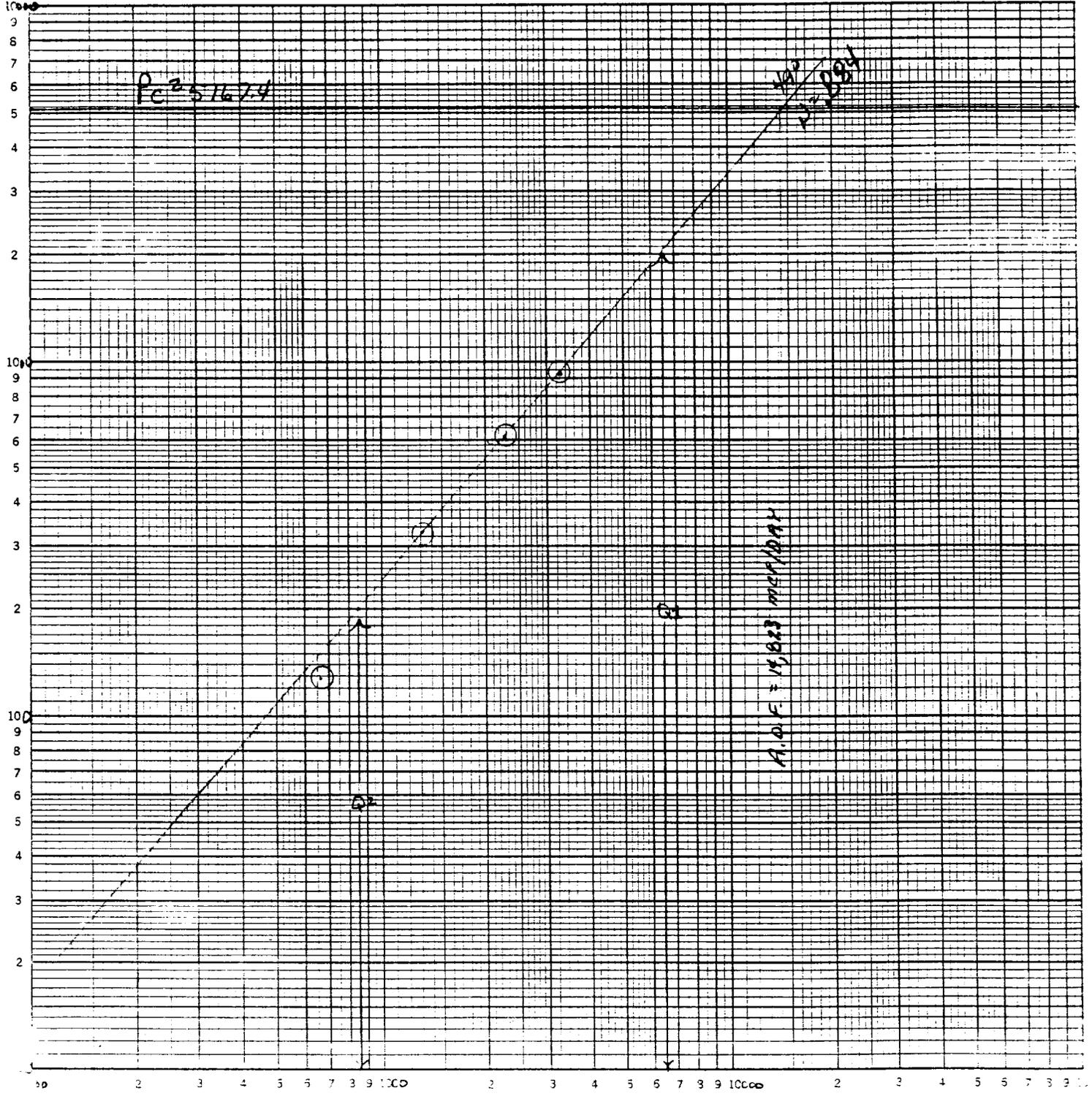
COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM		
Hydrogen Sulfide (H2S)				
Nitrogen (N2)	0.33			
Carbon Dioxide (CO2)	0.42			
Methane (C1)	83.10			
Ethane (C2)	8.14	2.164		
Propane (C3)	3.14	0.862		
I-Butane (IC4)	0.40	0.130		
N-Butane (NC4)	0.86	0.270		
I-Pentane (IC5)	0.39	0.140		
N-Pentane (NC5)	0.41	0.147		
Hexane (C6)	2.81	1.214		
Heptanes Plus (C7+)	0.00	0.000		
	100.00	4.927		
BTU/CU.FT. - DRY	1269	MOLECULAR WT.		21.1701
AT 14.650 DRY	1265			
AT 14.650 WET	1239	26# GASOLINE -		1.591
AT 15.025 DRY	1298			
AT 15.025 WET	1304			
SPECIFIC GRAVITY -				
CALCULATED	0.731			
MEASURED				

MEWBOURNE OIL COMPANY
 Chalk Bluff Federal Com. Well #3
 1-18S-27E
 Eddy County, New Mexico
 3/4/93

$P_c^2 - P_w^2$ (ISMS) 67400

LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



Q mcf/day

$\log Q = 3.31291$

$\log P_c^2 - P_w^2 = 2.92942$

OLSF
File

RECEIVED
Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122
APR 93

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWVOURNE OIL COMPANY				Lease or Unit Name CHALK BLUFF FEDERAL COM.			
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 3/4/93		Well No. 3	
Completion Date 1/16/93		Total Depth 10150		Plug Back TD 10102		Elevation GL 3628'	
Unit Ltr. - Sec. - TWP - Rge. I 1 18S 27E		County EDDY		Pool MORROW		Formation MORROW	
Csg. Size 4 1/2		Wt. 10.5		d 4.052		Set At 3600	
Perforations: From: 9950 To: 9954		Perforations: From: 9957 To: 9972		Packer Set At 9797		Connection Transwestern	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple subgke		Baro. Press - P _a 13.2		Producing Thru tbg. L 9950		Meter Run 3.068	
Reservoir Temp. °F 133		Mean Annual Temp. °F 60		Prover H 9950		Taps flg.	
Gg .731		% CO ₂ .42		% N ₂ .33		% H ₂ S	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI						2260		Pkr.		48 hr.
1.	3 X 1.500		530	5	148	2230		"		1 hr.
2.	3 X 1.500		530	19	124	2180		"		1 hr.
3.	3 X 1.500		535	52	88	2100		"		1 hr.
4.	3 X 1.500		540	102	70	2000		"		1 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$h_w P_m$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11.13	52.12	543.2	.9248	1.170	1.043	655
2.	11.13	101.59	543.2	.9436	1.170	1.049	1310
3.	11.13	168.84	548.2	.9741	1.170	1.066	2283
4.	11.13	237.54	553.2	.9905	1.170	1.075	3294
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.81	608	1.52	.919	23.63	
2.	.81	584	1.46	.909	57.0	
3.	.82	548	1.37	.880	.731	XXXXXXXXXX
4.	.83	530	1.32	.865	668	G Mix .849
5.					401	664 P.S.I.A.

P _c 2273.2		P _c ² 5167.4		1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4821$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.500$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14,823$		
1.	5031.9	2244.7	5038.8	128.6			
2.	4810.1	2199.5	4837.6	329.8			
3.	4465.6	2132.7	4548.6	618.9			
4.	4053.9	2055.4	4224.8	942.6			
5.							

Absolute Open Flow **14,823** Mcfd @ 15.025 Angle of Slope θ **49** Slope, n **.884**
Remarks: **13.3 BBLs CONDENSATE PRODUCED DURING TEST**

Approved By Division _____ Conducted By: _____ Calculated By: **KS** Checked By: **KS**
PRO WELL TESTERS

THE WESTERN COMPANY OF NORTH AMERICA
WATER ANALYSIS

HOBBS, NEW MEXICO LAB ANALYSIS #: HE010251

GENERAL INFORMATION

OPERATOR: Mewbourne Oil Company	DEPTH: 0
WELL: Chalk Bluff Fed #3	DATE SAMPLED:
FIELD:	DATE RECEIVED: 02/24/93
FORMATION:	SUBMITTED BY: Leonard Pounds
COUNTY: Eddy	WORKED BY: M Keith
STATE: NM	PHONE #: 505-392-5556

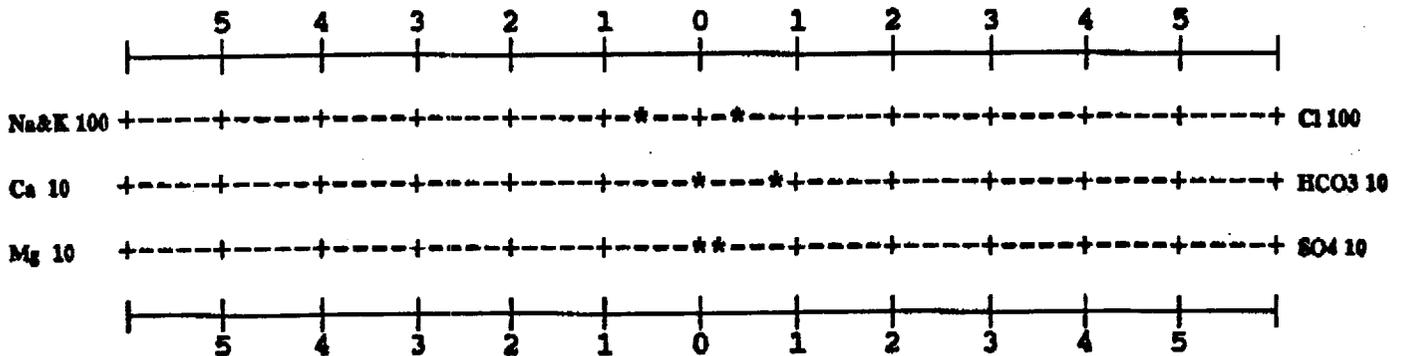
SAMPLE DESCRIPTION: all water

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY: 1.003 @ 70 °F	PH: 6.75	
RESISTIVITY (MEASURED): 3 OHMS @ 0 °F		
IRON (FE++): 150 PPM	SULFATE: 100 PPM	
CALCIUM: 10 PPM	TOTAL HARDNESS: 50 PPM	
MAGNESIUM: 6 PPM	BICARBONATE: 487 PPM	
CHLORIDE: 1595 PPM	SODIUM CHLORIDE (CALC): 2624 PPM	
SODIUM+POTASS: 1243 PPM	TOT. DISSOLVED SOLIDS: 3474 PPM	
KCL :no trace	OIL :none	

REMARKS:

STIFF TYPE PLOT (IN MEQ/L)



ANALYST MK
M Keith

057

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS. COMMISSION
Drawer DD
Artesia, NM BORTO

FORM APPROVED
Budget Bureau No. 1004-0101
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-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Chalk Bluff Fed. Com. #3

2. Name of Operator
Mewbourne Oil Company

9. API Well No.
30-015-27163

3. Address and Telephone No.
P.O. Box 5270 Hobbs, New Mexico 88241

RECEIVED
APR 26 1993

10. Field and Pool, or Exploratory Area
N. Illinois Camp Morrow

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FSL & ~~1980'~~ 990' FEL
Sec. 1-T18S-R27E

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

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

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

- 1) Formation: Morrow
- 2) Amount of water produced 10 BW/mo.
- 3) Water analysis attached
- 4) Water is stored on lease in fiberglass tank
- 5) Produced water will be trucked by I & W Inc.
- 6) The disposal well is I & W Inc., Walter Solt #1, Unit Letter L, Section 5-T18S-R28E Eddy County, New Mexico

SWD #318

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

Signed *David R. Glass*

Title Production Engineer

Date March 4, 1993

(This space for Federal or State office use)

Approved by (ORIG. SGD) DAVID R. GLASS
Conditions of approval, if any:

Title PETROLEUM ENGINEER

Date 4/22/93

SEE ATTACHED

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

*See instruction on Reverse Side



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr. R. Jones
P. O. Box 5270
Hobbs, New Mexico 88240

SAMPLE
IDENTIFICATION: Chalk bluff #3
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

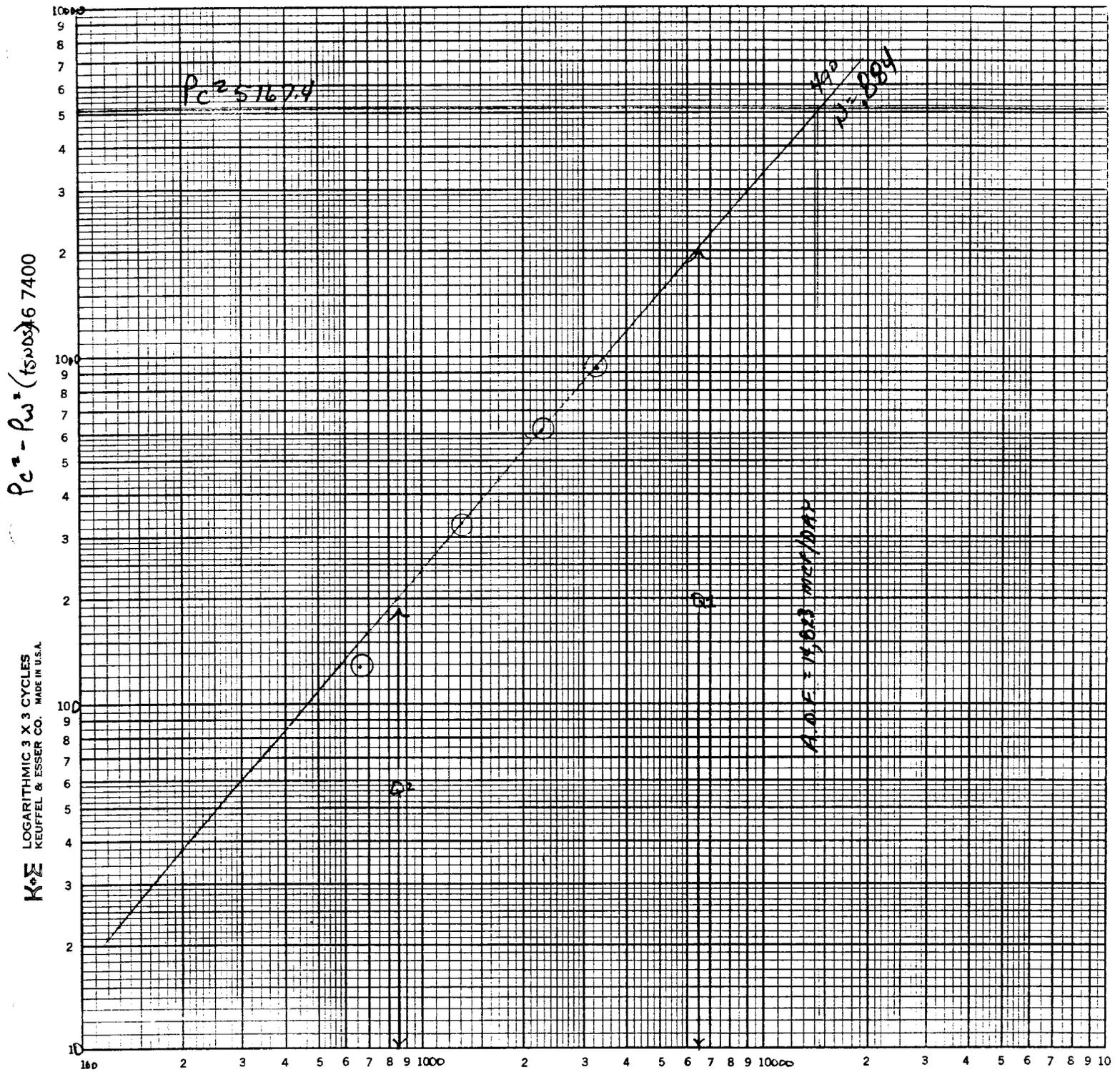
SAMPLE DATA:	DATE SAMPLED:	3/4/93 12:30PM	GAS (XX)	LIQUID ()
ANALYSIS DATE:	03-05-93		SAMPLED BY:	R. Jones
PRESSURE - PSIG	530.0		ANALYSIS BY:	Rolland Perry
SAMPLE TEMP. °F				
ATMOS. TEMP. °F				

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM				
Hydrogen Sulfide	(H ₂ S)						
Nitrogen	(N ₂)	0.33					
Carbon Dioxide	(CO ₂)	0.42					
Methane	(C ₁)	83.10					
Ethane	(C ₂)	8.14	2.164				
Propane	(C ₃)	3.14	0.862				
I-Butane	(C ₄)	0.40	0.130				
N-Butane	(NC ₄)	0.86	0.270				
I-Pentane	(C ₅)	0.39	0.140				
N-Pentane	(NC ₅)	0.41	0.147				
Hexane	(C ₆)	2.81	1.214				
Heptanes Plus	(C ₇ +) <table border="0" style="margin-left: 20px;"> <tr> <td style="border-top: 1px solid black;">0.00</td> <td style="border-top: 1px solid black;">0.000</td> </tr> <tr> <td>100.00</td> <td>4.927</td> </tr> </table>	0.00	0.000	100.00	4.927		
0.00	0.000						
100.00	4.927						
BTU/CU.FT. - DRY		1269	MOLECULAR WT.	21.1701			
AT 14.650 DRY		1265					
AT 14.650 WET		1239	26# GASOLINE -	1.591			
AT 15.025 DRY		1298					
AT 15.025 WET		1304					
SPECIFIC GRAVITY -							
CALCULATED		0.731					
MEASURED							

MEWBOURNE OIL COMPANY
 Chalk Bluff Federal Com. Well #3
 1-18S-27E
 Eddy County, New Mexico
 3/4/93



Q MCF/DAY

$\text{Log } Q_1 = 6500 : \text{Log} = 3.81291$

$\text{Log } Q_2 = 850 : \text{Log} = 2.92942$

$\text{Slope } N = .88349 = .884$

Submit in duplicate to appropriate district office See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION

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

RECEIVED APR 18 1993

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWOURNE OIL COMPANY					Lease or Unit Name CHALK BLUFF FEDERAL COM.				
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 3/4/93		Well No. 3		
Completion Date 1/16/93		Total Depth 10150		Plug Back TD 10102		Elevation GL 3628'		Unit Ltr. - Sec. - TWP - Rge. I 1 18S 27E	
Csg. Size 4 1/2	Wt. 10.5	d 4.052	Set At 3600	Perforations: From: 9950 To: 9954		County EDDY			
Tbg. Size 2 7/8	Wt. 4.7	d 1.91	Set At 9972	Perforations: From: 9957 To: 9972		Pool MORROW NORTH ILLINOIS CAMP			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple subgke					Packer Set At 9797		Formation MORROW		
Producing Thru tbg. 133		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Transwestern	
L 9950	H 9950	G _g .731	% CO ₂ .42	% N ₂ .33	% H ₂ S	Prover	Meter Run 3.068	Taps flg.	

FLOW DATA					TUBING DATA			CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						2260		Pkr.		48 hr.
1.	3 X 1.500		530	5	148	2230		"		1 hr.
2.	3 X 1.500		530	19	124	2180		"		1 hr.
3.	3 X 1.500		535	52	88	2100		"		1 hr.
4.	3 X 1.500		540	102	70	2000		"		1 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11.13	52.12	543.2	.9248	1.170	1.043	655
2.	11.13	101.59	543.2	.9436	1.170	1.049	1310
3.	11.13	168.84	548.2	.9741	1.170	1.066	2283
4.	11.13	237.54	553.2	.9905	1.170	1.075	3294
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.81	608	1.52	.919	23.63	
2.	.81	584	1.46	.909	57.0	Deg.
3.	.82	548	1.37	.880	.731	XXXXXXXXXX
4.	.83	530	1.32	.865	XXXXX	G Mix .849
5.					668	664 P.S.I.A.
					401	441 P.S.I.A.

P _c 2273.2		P _c ² 5167.4		1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4821$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.500$
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	
1.	5031.9	2244.7	5038.8	128.6	
2.	4810.1	2199.5	4837.6	329.8	
3.	4465.6	2132.7	4548.6	618.9	
4.	4053.9	2055.4	4224.8	942.6	
5.					

Absolute Open Flow **14,823** Mcfd @ 15.025 Angle of Slope θ **49** Slope, n **.884**

Remarks: **13.3 BBLs CONDENSATE PRODUCED DURING TEST**

Approved By Division	Conducted By: PRO WELL TESTERS	Calculated By: KS	Checked By: KS
----------------------	---------------------------------------	--------------------------	-----------------------

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil & Gas Division
811 S. 1st St
Artesia, NM 88212

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

95F

Designation and Serial No.
NM 0557371

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

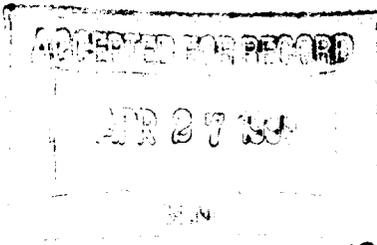
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	6. If Indian, Allottee or Tribe Name
2. Name of Operator Mewbourne Oil Company	7. If Unit or CA, Agreement Designation
3. Address and Telephone No. P. O. Box 5270, Hobbs, NM 88241 505-393-5905	8. Well Name and No. Chalk Bluff Fed. Comm: #3
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FSL & 990' FEL of Section 1, T18S, R27E	9. API Well No. 30-015-27163
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
Add Morrow perforations 9860' to 9870'.



RECEIVED
1999 APR 16 A 11:16

(ORIG. SGD.) GARY GOURLEY

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

Signed Jerry Edgar Title District Manager Date 04/15/99

(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.

30-015-27163

Oxford[®]

ESSELTE

MADE IN U.S.A.

NO. R753 1/3

• •

• •

1-21-93

Spectral Density
Dual Spaced Neutron

6365' - 8467'

400' - 10,100'

Comp. Sonic Log.

6365' - 8467'

Dual Induction Laterolog

6365' - 8501'

Dual Lat.

6365' - 8467'

8968' - 10,143'

MSL Gamma Collar

CBL Log

1340' - 10,069'

NSL - R-9760

R-9760

SD + NSL

11-4-92

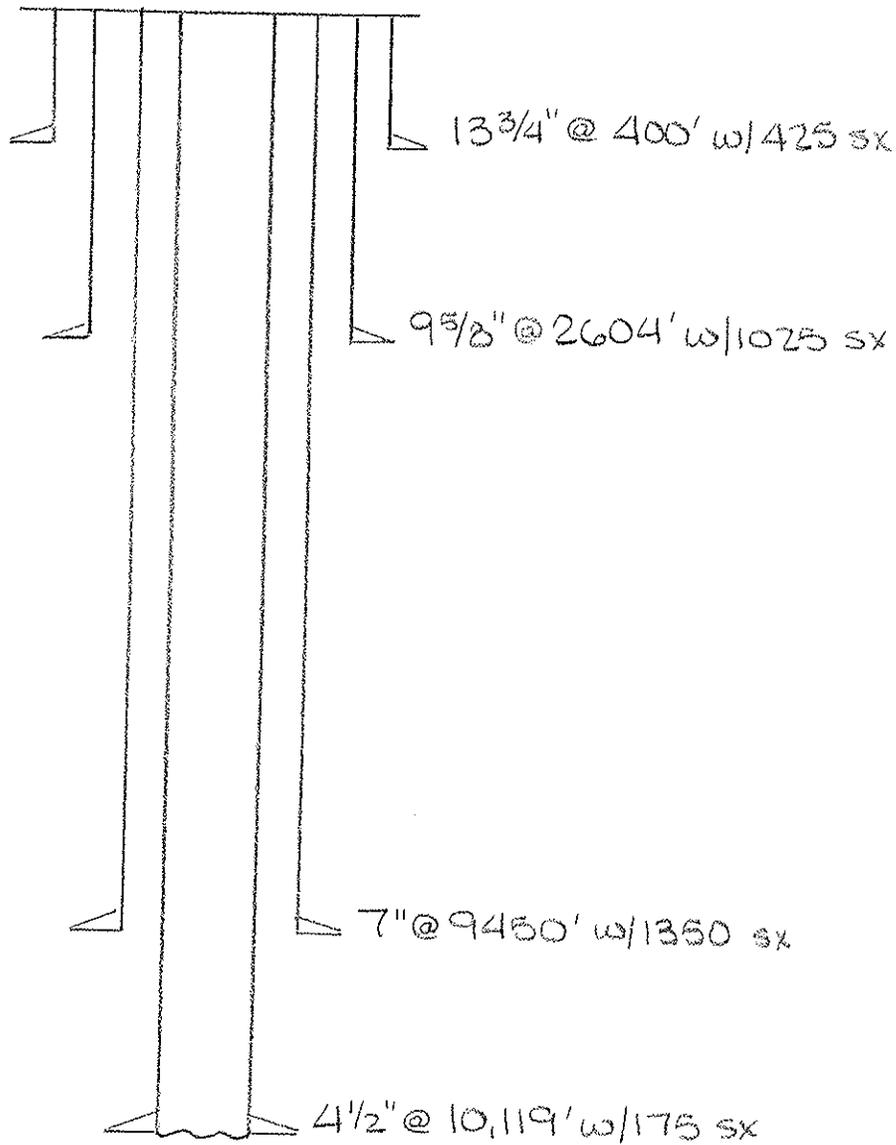
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 83
Artificial Penetration Review

OPERATOR Navajo Refining Co.
LEASE WDW
WELL NUMBER 3
DRILLED 12-22-90
PLUGGED NA

STATUS Active SWD
LOCATION Sec. 6 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE 7319'
API NO. 30-015-26575

REMARKS: Calc. Top of Cement behind 7" @ 384'



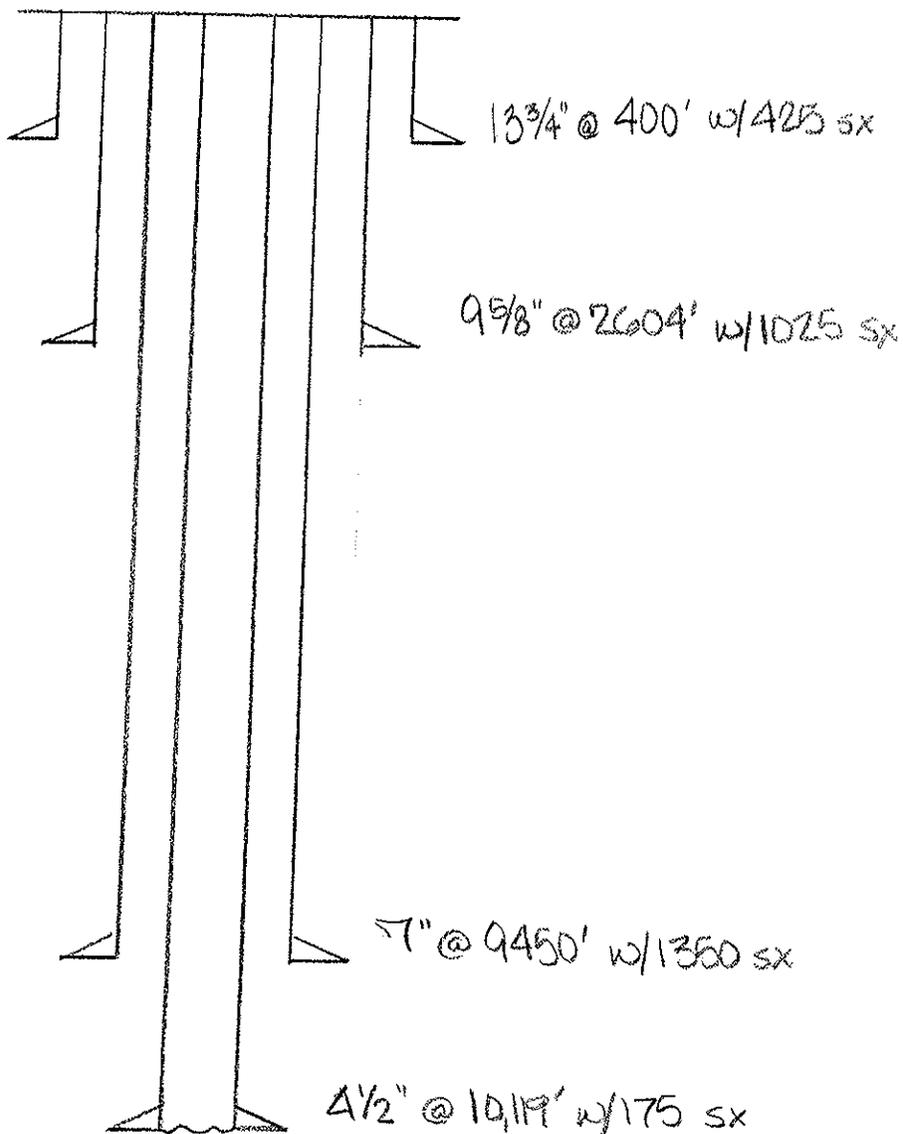
SUBSURFACE

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

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

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

REMARKS:



MAP ID NO. 96

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

API NO. 30-015-26575

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

C/SF

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

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

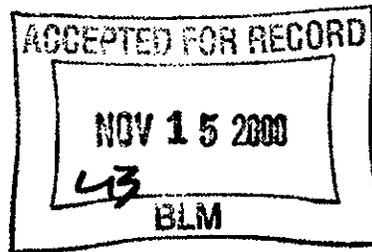
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

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

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



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

Signed *N.M. Young* Title N.M. Young District Manager Date 11/01/00
(This space for Federal or State office use)

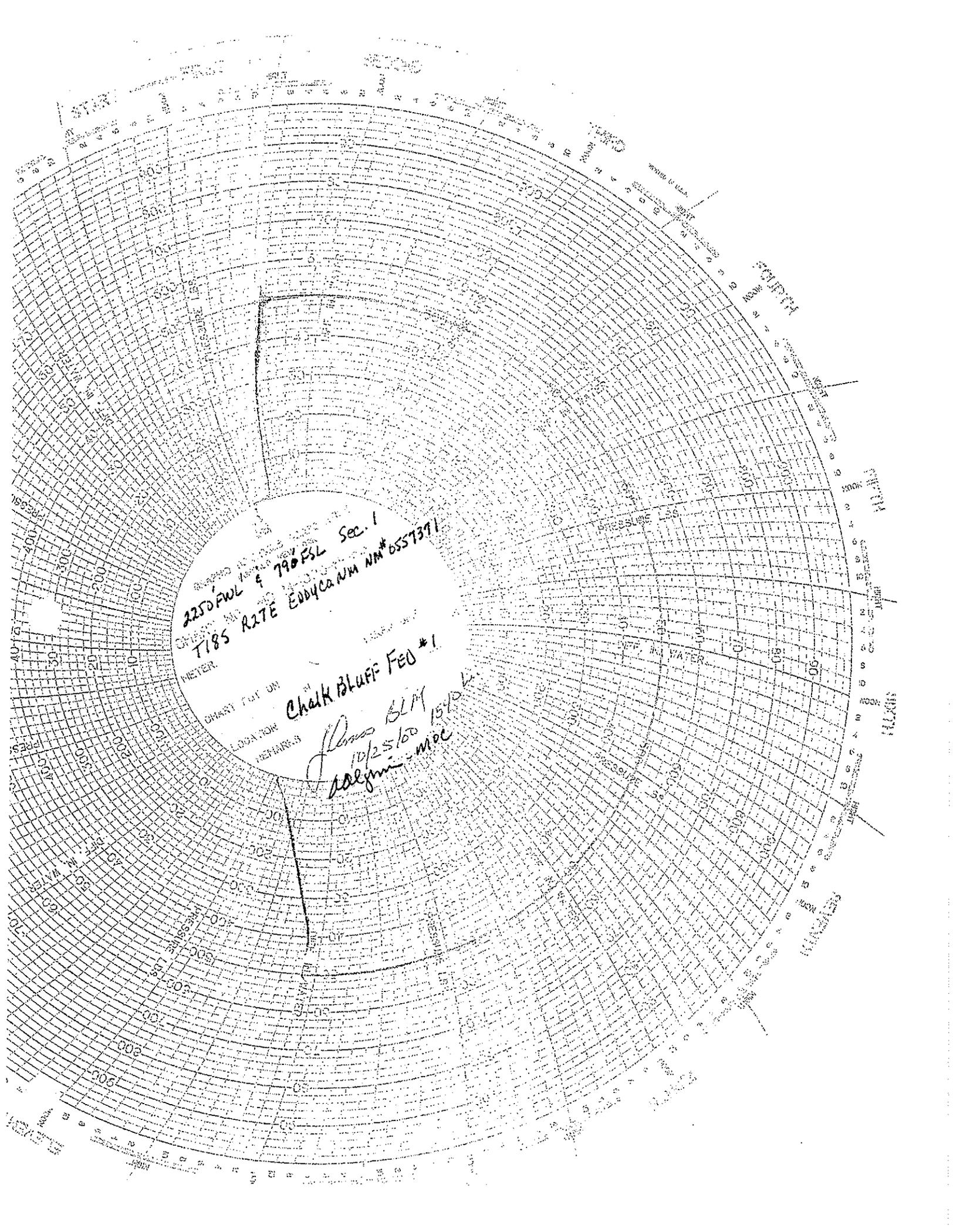
Approved by **Record Only** Title _____ Date _____
Conditions of approval, if any:

*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.

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

CHART TYP ON
LOCATION
REMARKS
Chalk Bluff FEO #1

Johns BLM
10/25/00
ADGym - moc



CISF

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUN 20 1991

O. C. U.
ARTESIA, OFFICE

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED
MAY 24 1991
DIST. 6 N.M.
Carlsbad, New Mexico

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

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
CHALK BLUFF FED. COM #1

9. API Well No.
30-015-26575

10. Field and Pool, or Exploratory Area
No. Illinois Camp Morrow

11. County or Parish, State
Eddy, New Mexico

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P. O. Box 7698, Tyler, Texas 75711

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

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

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

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

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

ACCEPTED FOR RECORD
JUN 14 1991
SJS
CARLSBAD, NEW MEXICO

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

Signed [Signature] Title Engr. Oprns. Secretary Date 5/21/91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any: _____

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

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
Drawer DD
Artesia, NM 88210

C/SF

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

SUNDRY NOTICES AND REPORTS ON WELLS
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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

FEB 21 1994

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

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

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

9. API Well No.
30-015-26575

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

11. County or Parish, State

Eddy Co., N.M.

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

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

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

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

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

APPROVED FOR 12 MONTH PERIOD
ENDING 1/25/95

JAN 27 10 58 AM '94
RECEIVED

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

Signed *Robert G. Jones*

Title Petroleum Engineer

Date 01/25/94

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 2/16/94

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*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NEW MEXICO OIL & GAS COMMISSION
Drawer DD
Artesia, NM

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

dsf

RECEIVED
OCT 15 11 21 AM '93

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

NOV 17 1993

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(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.)

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* Verbal from Adam Salameh

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

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

Signed Robert G. Jones

Title Petroleum Engineer

Date 10/05/93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

ACCEPTED FOR RECORD

Nov 15 1993

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*See Instructions at the back of this form. NEW MEXICO

C/SF

3160-5
: 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

RECEIVED
OCT 19 1993
C. G. D.

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 Oil Well Gas Well Other

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 Mewbourne Oil Company

3. Address and Telephone No.
 P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

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5. Lease Designation and Serial No.
 NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

9. API Well No.
 30-015-26575

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

11. County or Parish, State
 Eddy Co., N.M.

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	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

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

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

RECEIVED
 SEP 22 10 48 AM '93
 CARL
 AREA

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

Signed *H. G. Jones* Title Petroleum Engineer Date 09/07/93

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA Title PETROLEUM ENGINEER Date 10/15/93

Conditions of approval, if any:

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

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 28 1992

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

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SUBMIT IN TRIPLICATE

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2. Name of Operator
Mewbourne Oil Company

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

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

9. API Well No.
30-015-26575

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

11. County or Parish, State
Eddy

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Additional perms, acidize & frac
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

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

Signed *Stephanie Thompson* Title Engr. Oprns. Secretary Date 9/11/92

(This space for Federal or State office use)

Approved by _____ Title *ASR* Date _____
Conditions of approval, if any:

6 322

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*See Instruction on Reverse Side

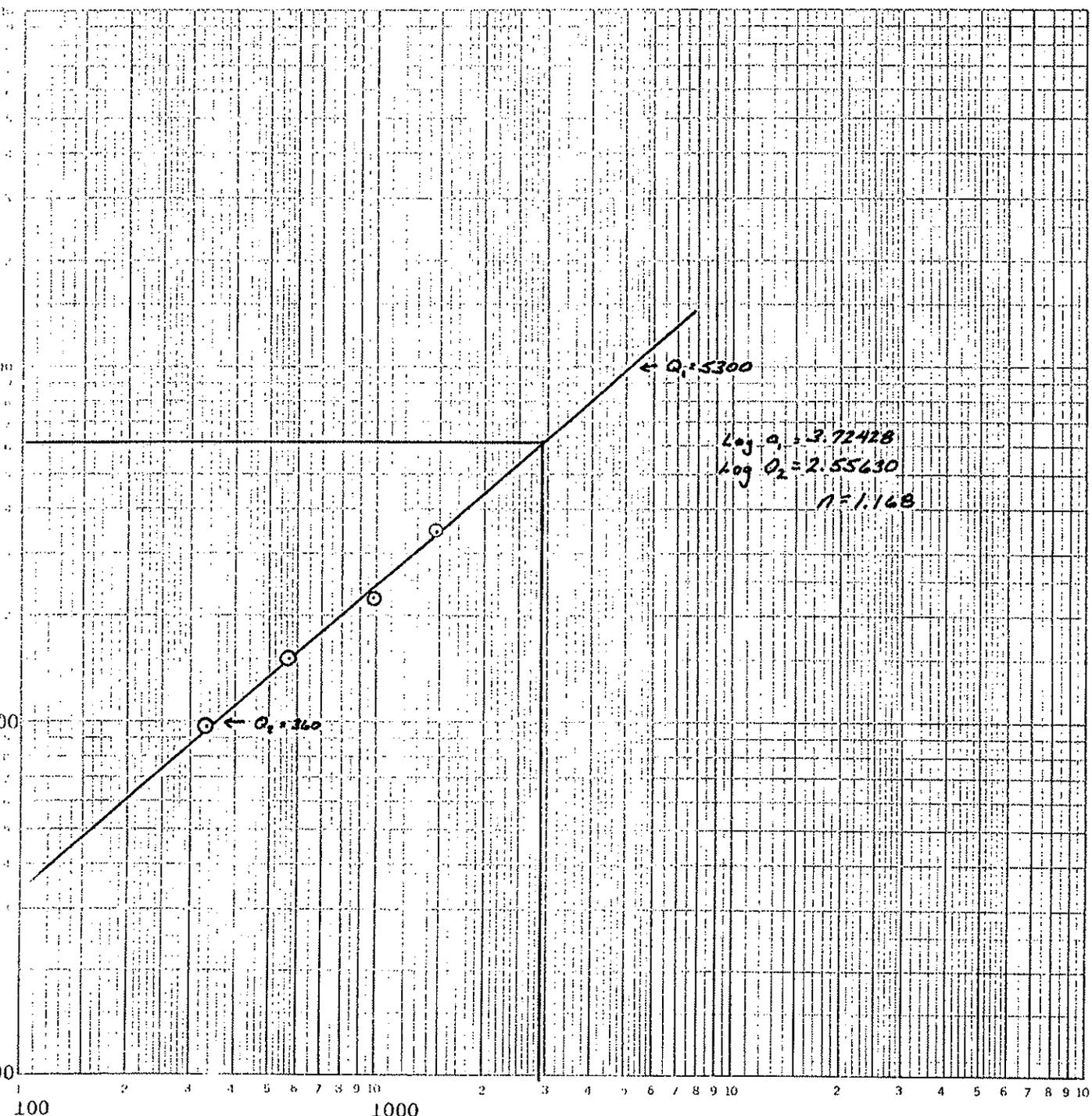
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 03/15/91							
Company Mewbourne Oil Company		Connection Transwestern							
Pool Undesignated		Formation Morrow							
North Illinois Camp Morrow		MAY - 7 1991							
Completion Date 03/05/91		Total Depth 10,120'							
Plug Back TD 10,075'		ARTESIA, OFFICE 3609							
Farm or Lease Name Chalk Bluff Federal		Well No. 1							
Case Size 5 1/2"	Wt. 11.6#	Set At 10,120'	Perforations From 9936' To 9967'						
Tbg. Size 2 7/8"	Wt. 6.5	Set At 9,805'	Perforations From Open To End						
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas		Packer Set At 9805'							
Producing Thru Tbg.		Baro. Press. - P _a 13.2							
Reservoir Temp. °F 148 @ 10,120		Mean Annual Temp. °F 72							
L 9949		H 9949							
C _g .660		% CO ₂ .43							
% N ₂ .42		% H ₂ S ---							
Prover		Meter Run 3.068							
Taps Fig.		State New Mexico							
County Eddy		Duration of Flow							
FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.		Temp. °F
5									72 Hr.
1.	3 X 1.125			426.8	4	51	2175	Pkr.	1 Hr.
2.	3 X 1.125			446.8	11	51	2070	Pkr.	1 Hr.
3.	3 X 1.125			446.8	32	51	1900	Pkr.	1 Hr.
4.	3 X 1.125			426.8	72	45	1605	Pkr.	1 Hr.
RATE OF FLOW CALCULATIONS									
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow O, Mcfd		
1	6.217	41.952	440	1.009	1.225	1.048	337		
2	6.217	71.134	460	1.009	1.225	1.051	574		
3	6.217	121.326	460	1.009	1.225	1.051	980		
4	6.217	177.989	440	1.015	1.225	1.051	1446		
5									
NO.	T _g	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Dry Gas _____ Mcf/bbl.				
1	.65	511	1.37	.910	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.				
2	.68	511	1.37	.906	Specific Gravity Separator Gas .660 _____ X X X X X X X X				
3	.68	511	1.37	.906	Specific Gravity Flowing Fluid _____ X X X X X				
4	.65	505	1.35	.905	Critical Pressure 673 _____ P.S.I.A. _____ P.S.I.A.				
5					Critical Temperature 374 _____ R _____ R				
P _c 2472 P _c ² 6110.7				(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.784$		(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.967$			
NO.	P _e ²	P _w	P _w ²	P _e ² - P _w ²	AOR = 0 $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 2.844$				
1	2264		5125	985.7					
2	2147		4609	1501.7					
3	1966		3865	2245.7					
4	1639		2686	3424.7					
5									
Absolute Open Flow 2,844		Mcfd @ 15.025		Angle of Slope 41°		Slope, n 1.168			
Remarks: Well made 0 bbl fluid during test									
Approved By Division		Conducted By: Greg Milner		Calculated By: Greg Milner		Checked By: Bill Pierce			

(Pc² - Pw²) thsds

LOG PERMEABILITY INDEX

100



Q MCF/D

AOF = 2.9 MMCF/D



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

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

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

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

REMARKS:

COMPONENT ANALYSIS

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

WORK SHEET FOR CALCULATION OF WELL HEAD PRESSURES (P_c or P_e)

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY Membrane Oil LEASE Chalk Bluff Fed. WELL NO. 1 DATE 3-18-91
 LOCATION: Unit 9949 Section 1 Township 18S Range 27E
 L/H 9949 H 9949 L/H 1.000 G .660 % CO₂ .43 % N₂ .42 % H₂S ---

GH 6566 P_{ct} 673 T_{ct} 374
TABLE IX & X

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

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

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

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

LOCATION: Unit 9949 Section 1 Township 18S Range 27E
 L 9949 H 9949 L/H 1.00 G .660 % CO₂ .43 % N₂ .42 % H₂S ---

GH 6566 P_{cr} 673 T_{cr} 374
TABLE IX & X

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

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

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

1	
2	
3	
4	

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

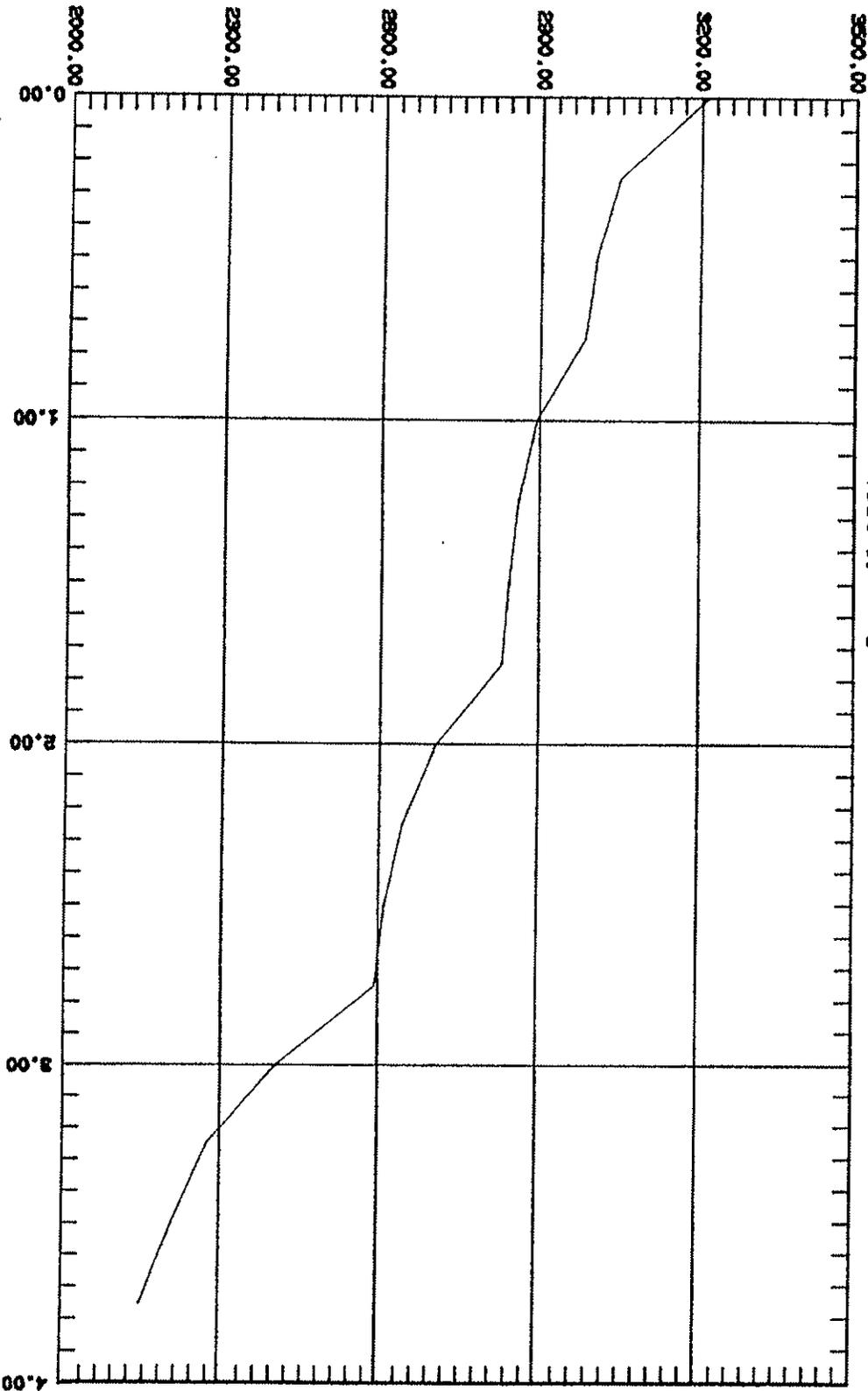
REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
9:45: 0	0.0000	3213.00		
10: 0: 0	0.2500	3046.00		START RATE 1
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00		
10:45: 0	1.0000	2894.00		START RATE 2
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00		
11:45: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

PRESSURE - PSIA

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

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

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



DELTA TIME - HRS

UNITED STATES COMMISSION
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. LEASE DESIGNATION AND SERIAL NO.
NM-0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Chalk Bluff Federal Com

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT

N. Illinois Camp Morrow

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

Sec. 1-T18S-R27

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

CONFIDENTIAL
RECEIVED
JUL 23 1992
O. C. D.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REVR. Other _____

2. NAME OF OPERATOR
Mewbourne Oil Company ✓

3. ADDRESS OF OPERATOR
P. O. Box 7698, Tyler, Texas 75711

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2250' FWL & 790' FSL

At top prod. interval reported below

At total depth Same

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

15. DATE SPUNDED 12/22/90 16. DATE T.D. REACHED 1/29/91 17. DATE COMPL. (Ready to prod.) 3/07/91 18. ELEVATIONS (DP, RKB, RT, OR, ETC.)* KB 3625', GM 3609'

20. TOTAL DEPTH, MD & TVD 10,120' 21. PLUG, BACK T.D., MD & TVD 10,079' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 9936-46', 9964-67' - Morrow 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN SDL-DSN, DLL-MSFL, DILL 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
13-3/8"	54.50#	400'	17-1/2"	425 - Circ	None
9-5/8"	36#	2604'	12-1/4"	1025 - Circ	None
7"	26# & 29#	9450'	8-3/4"	1350 - Circ	None

29. LINER RECORD

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

31. PERFORATION RECORD (Interval, size and number)
9936-46', 9964-67'
13', 2 SPF, Total 28

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9936-67'	3000 gals Mod-101 acid + 1000 SCF/bbl N2 + 50 ball sealers. Flushed w/35 bbls 2% KCL water + 1000 SCF/bbl N2.

33.* PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing

WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS/OIL RATIO
3/11/91	24 hrs	8/64"	→	1	886	0	886:1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
1600#		→	1	886	0	58

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

35. LIST OF ATTACHMENTS
Logs

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

SIGNED *Raymond Thompson* TITLE Engr. Opns. Secretary

ACCEPTED FOR RECORD

SJS
APR 1 1991
DATE 3/18/91

CARLSBAD, NEW MEXICO

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

37. SUMMARY
drill-stem,
(recoveries)

PROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and

38. GEOLOGIC MARKERS

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



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 ROSWELL, NM
505/746-2719 ARTESIA, NM**

February 05, 1991

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

REF: Chalk Bluff Fed Comm #1

Gentlemen:

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

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

Sincerely,

Arnold Newkirk
Vice-President

STATE OF NEW MEXICO)

COUNTY OF CHAVES)

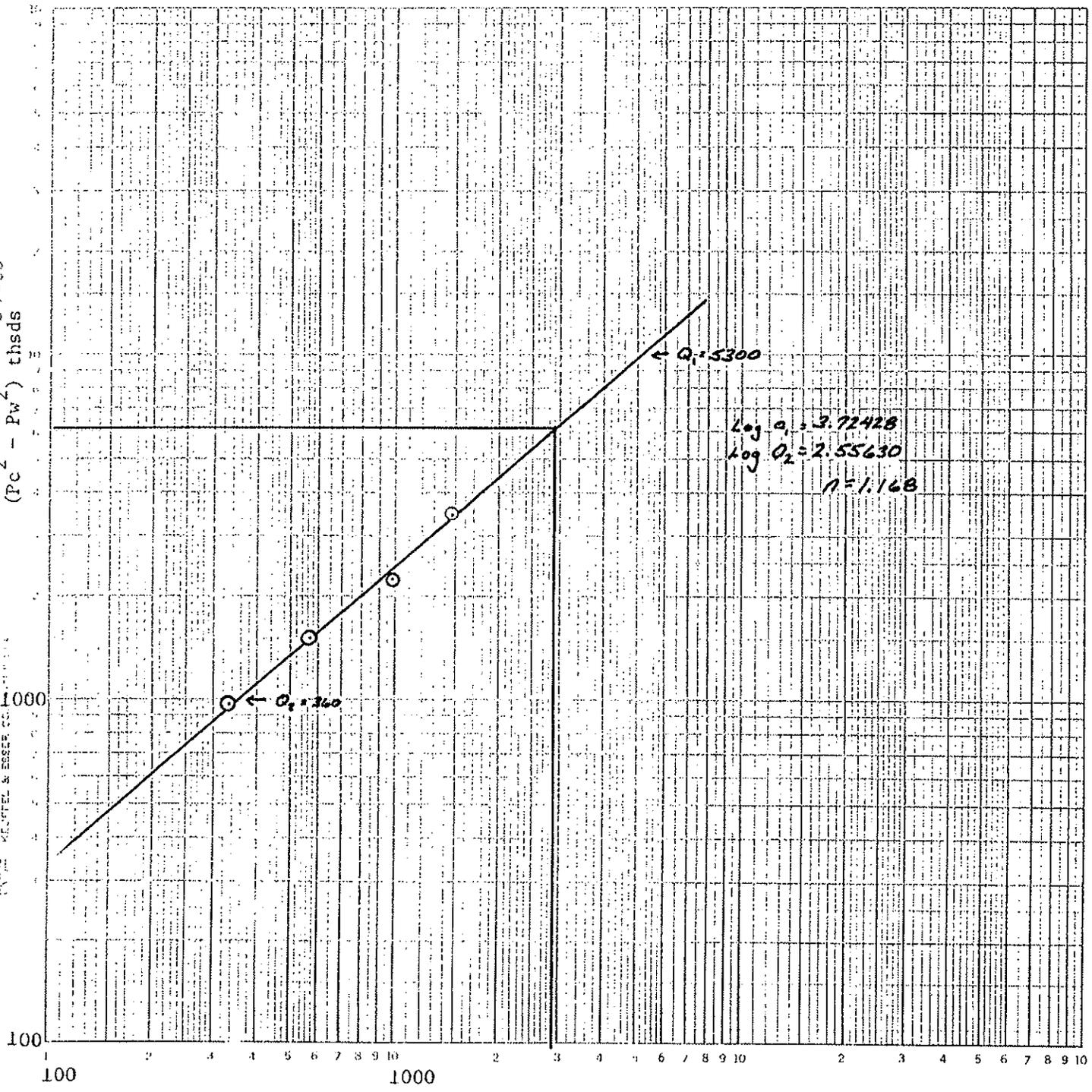
The foregoing was acknowledged before me this 05th day of February 1991 by Arnold Newkirk.

MY COMMISSION EXPIRES

October 07, 1992

NOTARY PUBLIC

157400
(Pc² - Pw²) thsds
1000
100



Log a₁ = 3.72428
Log a₂ = 2.55630
n = 1.168

← Q₁ = 160

← Q₂ = 5300

Q MCF/D

AOF = 2.9 MMCF/D



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

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

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

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

REMARKS:

COMPONENT ANALYSIS

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

WORK SHEET FOR CALCULATION OF WELL HEAD PRESSURES (P_c or P_e)

Form C-122P
Adopted 9-1-65

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

COMPANY Membrane Oil LEASE Chalk Bluff Fed. WELL NO. 1 DATE 3-18-91
 LOCATION: Unit 9949 Section 1 Township 18S Range 27E
 L/H 9949 L/H 1.000 G .660 % CO₂ .43 % N₂ .42 % H₂S ---

GH 6566 P_{ct} 673 T_{ct} 374
TABLE IX & X

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

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

WORK SHEET FOR CALCULATION OF WELL HEAD PRESSURES (or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (or P_s)

COMPANY Newbourn LEASE Stalk Bluff Fed. WELL NO. 1 DATE 3-18-91
 LOCATION: Unit 9949 Section 1 Township 18S Range 27E
 L 9949 H 9949 L/H 1.00 G 660 % CO₂ .43 % N₂ .42 % H₂S —
 GH 6566 P_{CT} 673 T_{CT} 374

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

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

POSITION	GAUGE SERIAL NUMBER
1	
2	
3	
4	

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

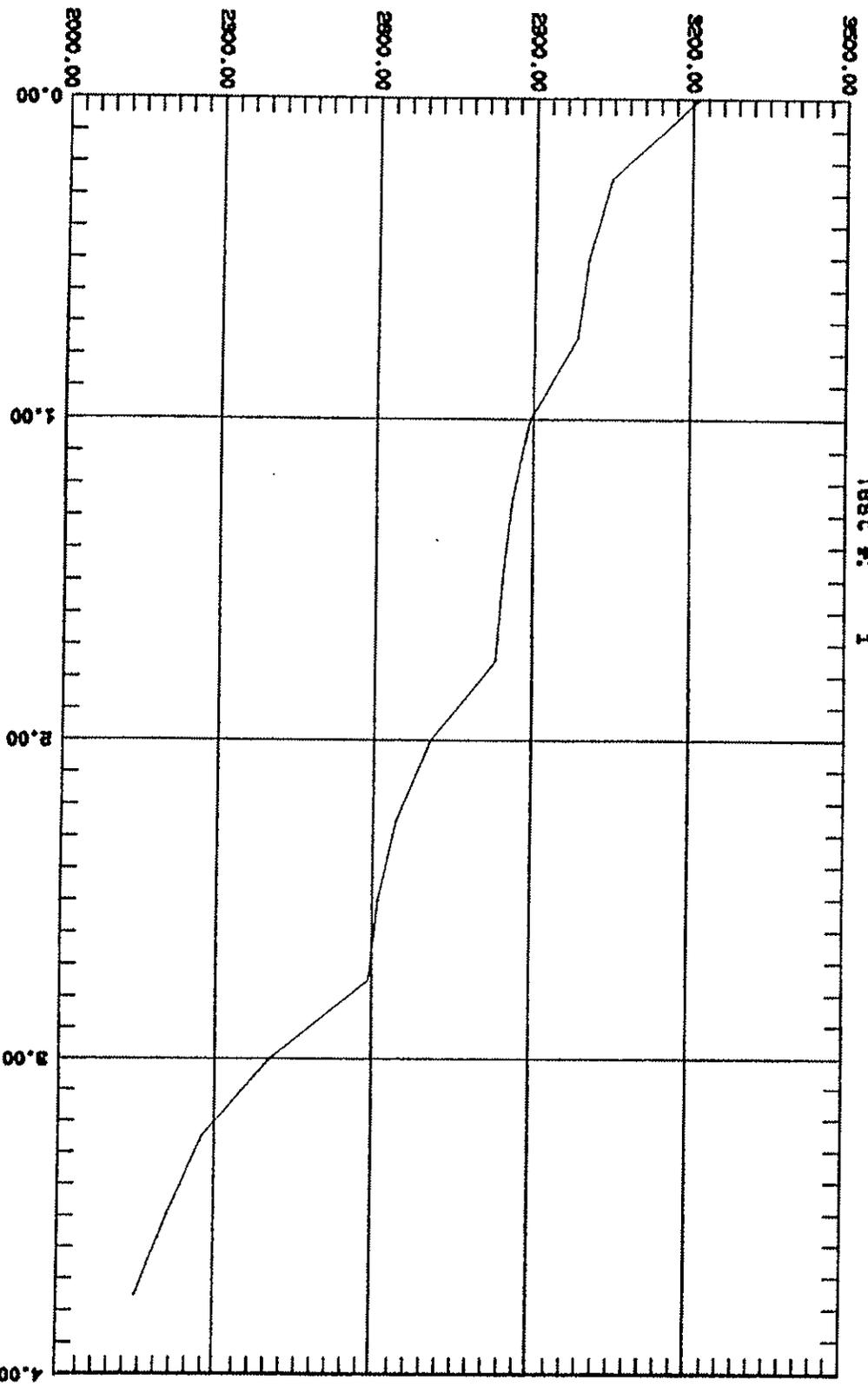
REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
9:45: 0	0.0000	3213.00		
10: 0: 0	0.2500	3046.00		START RATE 1
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00		
10:45: 0	1.0000	2894.00		START RATE 2
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00		START RATE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

PRESSURE - PSIA

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

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

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



DELTA TIME - HRS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 28 1992

O. C. D.
OIL CONDUIT

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

9. API Well No.
30-015-26575

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

11. County or Parish, State
Eddy

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company

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

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

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

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

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form 1)

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

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

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

Signed [Signature] Title Engr. Oprns. Secretary

Date 9/11/92

(This space for Federal or State office use)

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

Date _____

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

*See instruction on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVL. Other _____

2. NAME OF OPERATOR
Mewbourne Oil Company ✓

3. ADDRESS OF OPERATOR
P. O. Box 7698, Tyler, Texas 75711 O. C. D.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2250' FWL & 790' FSL
At top prod. interval reported below
At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.
NM-0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Chalk Bluff Federal Com

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
N. Illinois Camp Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 1-T18S-R27

CONFIDENTIAL
RECEIVED
JUL 23 1992

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

14. PERMIT NO. DATE ISSUED
API #30-015-216575

15. DATE SPUDDED 12/22/90

16. DATE T.D. REACHED 1/29/91

17. DATE COMPL. (Ready to prod.) 3/07/91

18. ELEVATIONS (OF, RKB, RT, OR, ETC.)*
KB 3625', GM 3609'

19. ELEV. CASING HEAD _____

20. TOTAL DEPTH, MD & TVD 10,120'

21. PLUG, BACK T.D., MD & TVD 10,079'

22. IF MULTIPLE COMPL., HOW MANY* _____

23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
9936-46', 9964-67' - Morrow

25. WAS DIRECTIONAL SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
SDL-DSN, DLL-MSFL, DILL

27. WAS WELL CORRED
No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
13-3/8"	54.50#	400'	17-1/2"	425 - Circ	None
9-5/8"	36#	2604'	12-1/4"	1025 - Circ	None
7"	26# & 29#	9450'	8-3/4"	1350 - Circ	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD
4-1/2"	9051'	10119'	175		SIZE: 2-3/8" DEPTH SET (MD): 9805' PACKER SET (MD): 9805'

31. PERFORATION RECORD (Interval, size and number)
9936-46', 9964-67'
13', 2 SPF, Total 28

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9936-67'	3000 gals Mod-101 acid + 1000 SCF/bbl N2 + 50 ball sealers, Flushed w/35 bbls 2% KCl water + 1000 SCF/bbl N2.

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)
Flowing

WELL STATUS (Producing or shut-in)
Producing

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL/GAS RATIO
3/11/91	24 hrs	8/64"	→	1	886	0	886:1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
1600#		→	1	886	0	58.05

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

TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
Logs

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

SIGNED: *Raymond Thompson* TITLE: Engr. Oprns. Secretary

ACCEPTED FOR RECORD
SJS
records
APR 1 1991
DATE 3/18/91
CARLSBAD, NEW MEXICO

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

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

38. GEOLOGIC MARKERS

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

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

CLSF
LH
GT
DP

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I.

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

II. DESCRIPTION OF WELL AND LEASE

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

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil or Condensate <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Pipeline Inter-corporate Trucking	Oil Tender Dept. Box 702068, Tulsa, OK 74170-2068
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Transwestern Pipeline Company	P.O. Box 1188, Houston, Texas 77251-1188
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rgs. Is gas actually connected? When?
	N 1 18S 27E Yes March, 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 12/22/90	Date Compl. Ready to Prod. 3/07/91	Total Depth 10,120'	P.B.T.D. 10,079'					
Elevations (DP, RKB, RT, GR, etc.) KB 3625', GR 3609'	Name of Producing Formation Morrow	Top Oil/Gas Pay 9936'	Tubing Depth 9,805'					
Perforations 9936-46', 9964-67', 13', 2 SPF, Total 28			Depth Casing Shoe					
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
17-1/2"	13-3/8"	400'	425 <i>Part III-2</i>					
12-1/4"	9-5/8"	2604'	1025 <i>5-12-91</i>					
8-3/3"	7"	9450'	1350 <i>comp. F. BK</i>					
7"	4-1/2" Liner	10119'	175					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

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

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

GAS WELL

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

VI. OPERATOR CERTIFICATE OF COMPLIANCE

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

Gaylor Thompson
Signature
Gaylor Thompson, Engineering Operations
Printed Name
March 11, 1991 (903) 561-2900
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved MAY 16 1991

By ORIGINAL SIGNED BY
MIKE WILLIAMS
Title SUPERVISOR, DISTRICT II

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

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabular data with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or well number.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS COMMISSION
FORM APPROVED
Drawer DD
Artesia, N.M.
Regulation No. 1004-0135
Expires: March 31, 1993

C/SF

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Mewbourne Oil Company

3. Address and Telephone No.
 P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

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

5. Lease Designation and Serial No.
 NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

9. API Well No.
 30-015-26575

10. Field and Pool, or Exploratory Area
 N. Illinois Camp Morrow

11. County or Parish, State
 Eddy Co., N.M.

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Interest <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____ <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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

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

RECEIVED

AUG 18 1995

OIL CON. DIV.
DIST. 2

JUN 2 10 45 AM '95
 RECEIVED

14. I hereby certify that the foregoing is true and correct.
 Signed: [Signature] Title: Engineer Date: 5/25/95

(This space for Federal or State office use)
 Approved by: Shannon J. Shaw Title: PETROLEUM ENGINEER Date: 8/14/95
 Conditions of approval, if any

OCD - Artesia

C151

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

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

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

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

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

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

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

If any question, please call.



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

RECEIVED
2000 OCT 10 1 P 2 34
BUREAU OF LAND MGMT.
CARLSBAD RESOURCE AREA

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

Signed <u>[Signature]</u>	Title <u>N.M. Young</u> District Manager	Date <u>10/06/00</u>
(This space for Federal or State office use)		
Approved by <u>(ORIG. 502) MEG. LARA</u>	Title <u>Permitting Engineer</u>	Date <u>11/6/2000</u>
Conditions of approval, if any:		

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

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

CSF

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

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

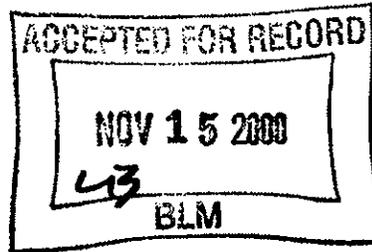
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

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

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



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

Signed [Signature] Title N.M. Young District Manager Date 11/01/00
(This space for Federal or State office use)

Approved by Record Only Title _____ Date _____
Conditions of approval, if any:

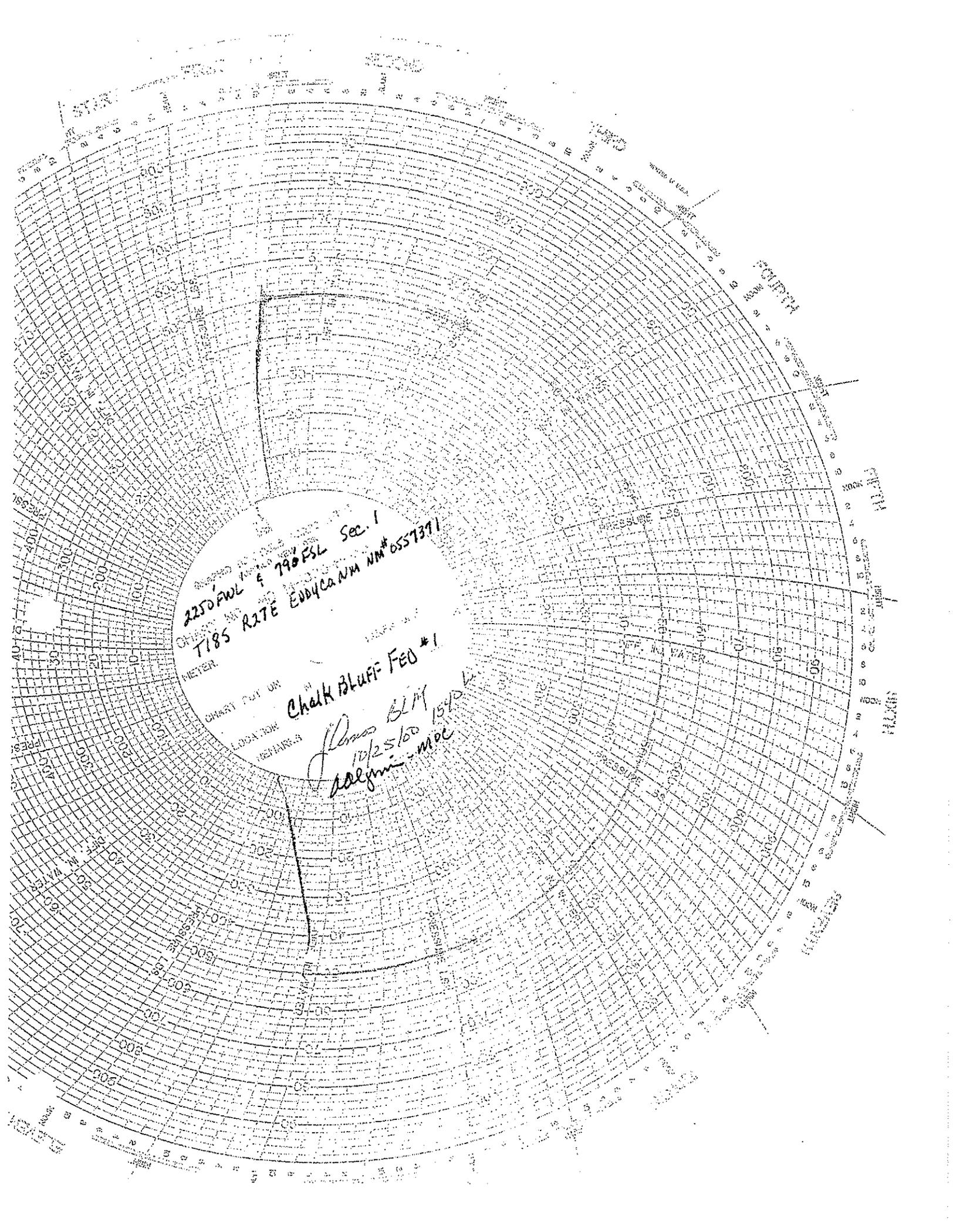
*Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

CHART NOT ON
LOCAL NM
REPAIRS

Chalk Bluff FEO #1

James Blinn
10/25/00 1545
Adgim - mpc



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
Drawer DD

Artesia, NM 88210
FORM APPROVED

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

25F

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

FEB 21 1994

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

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

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

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

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

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

APPROVED FOR 12 MONTH PERIOD
ENDING 1/25/95

JAN 27 10 06 AM 1994
RECEIVED

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

Signed Robert G. Jones

Title Petroleum Engineer

Date 01/25/94

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 2/16/94

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

*See instruction on Reverse Side

RECEIVED

Oct 15 11 51 AM '93

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NEW MEXICO OIL & GAS COMMISSION
Drawer 88
Alamosa, NM

CSF

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

NOV 17 1993

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

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

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

9. API Well No.
30-015-26575

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

11. County or Parish, State
Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(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

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

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

Signed Robert L. Jones

Title Petroleum Engineer

Date 10/05/93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title

Date

ACCEPTED FOR RECORD

NOV 15 1993

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

*See Instructions at READING ROOM NEW MEXICO

C15F

3160-5
1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED
OCT 19 1993

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Mewbourne Oil Company

3. Address and Telephone No.
 P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
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 NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

9. API Well No.
 30-015-26575

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

11. County or Parish, State
 Eddy Co., N.M.

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

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

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

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

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

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

RECEIVED
 SEP 22 10 43 AM '93
 CARE AREA

14. I hereby certify the foregoing is true and correct

Signed [Signature] Title Petroleum Engineer Date 09/07/93

(This space for Federal or State Office use)

Approved by (ORIG. SGD.) JOE G. LARA Title PETROLEUM ENGINEER Date 10/15/93

Conditions of approval, if any:

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

30-015-210575

Objekt- 14744

Property- 7876

Pool- 78890



3-19-91

DUAL LAT.

2575-9440

9330-1012

DUAL SPACED

NEUTRON

Lat. 9417

8500-10121



3-19-91

DUAL LAT.

2575-9440

9330-1012

DUAL SPACED

NEUTRON

Lat. 9417

8500-10121

NC Tops DEM 5/14/91

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





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

31 January 2003

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

File
Copy

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

Dear Sirs:

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

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

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

201 WELLS TO BE PROPERLY ABANDONED

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

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

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

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

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

Sincerely,

Van Barton
Field Rep. II

To: 

Shirley Jones - CRUDE OIL SUPPLY CLERK

LEASE RECORDS

Navajo Refining Company

P.O. Box 159

Artesia, NM 88211-0159

phone (505) 746-5325

fax (505) 746-5283

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

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

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

MESSAGE:

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

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

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

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

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

Thank you.


-Shirley Jones

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



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

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
August 11, 2000

49
OP

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

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

Change of Operator

Previous Operator Information:

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

New Operator Information:

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

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

New Operator
Signature: Darrell Moore
Printed name: Darrell Moore
Title: Env. Mgr. for Water and Waste
Date: 12/5/00 Phone: 505-748-3311

Previous operator complete below:

Previous
Operator: Mewbourne Oil Company
Previous
OGRID: 14744
Signature: Monty Whetstone
Printed Name: Monty Whetstone

NMOCD Approval	
Signature:	<u>Jim W. Green</u>
Printed Name:	<u>District Supervisor</u>
District:	<u>NOV 27 2000</u>
Date:	<u>NOV 27 2000</u>

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

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

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
WDW-3 #3 23592

9. API Well No.
30-015-26575

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

11. County or Parish, State
EDDY

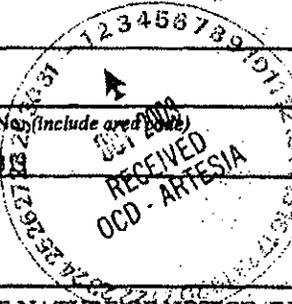
1. Type of Well
 Oil Well Gas Well Other TEMPORARILY ABANDONED

2. Name of Operator
NAVAJO REFINING COMPANY 15694

3a. Address
PO BOX 159, ARTESIA, NM 88211

3b. Phone No. (include area code)
505-748-3119

4. Location of Well (Footage, Sec., T, R, M., or Survey Description)
790' FSL, 2250' FWL, 1-18S-27E



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

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

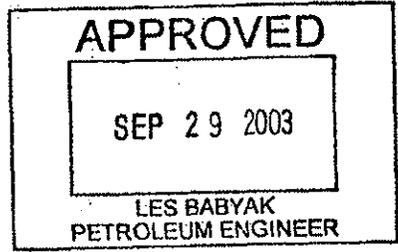
3. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths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

change well name per Darrell Moore

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

**SUBJECT TO
LIKE APPROVAL
BY NMOCD**

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



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

Name (Printed/Typed) Darrell Moore Title Env. Mgr. for Waters & Waste

Signature Darrell Moore Date 9/17/03

Approved by (Signature) _____ Name (Printed/Typed) _____ Title _____

Office _____ Date _____

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.

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.

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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

¹⁰ Surface Location

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

¹¹ Bottom Hole Location If Different From Surface

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

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

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

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

Accepted for record - NMOCD

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

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

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

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

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

Depth of Plugs

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

Anticipated Formation Pressure

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

Accepted for record - NMOCD

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

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

Reentry Procedure

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

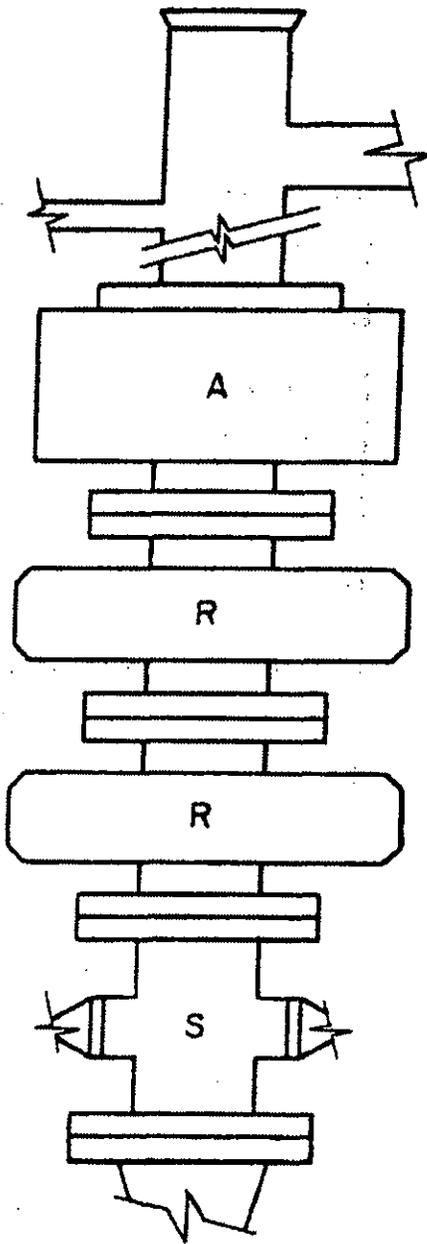
Accepted for record - NMOCD

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

Accepted for record - NMOCD

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

Accepted for record - NMOCD



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

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

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

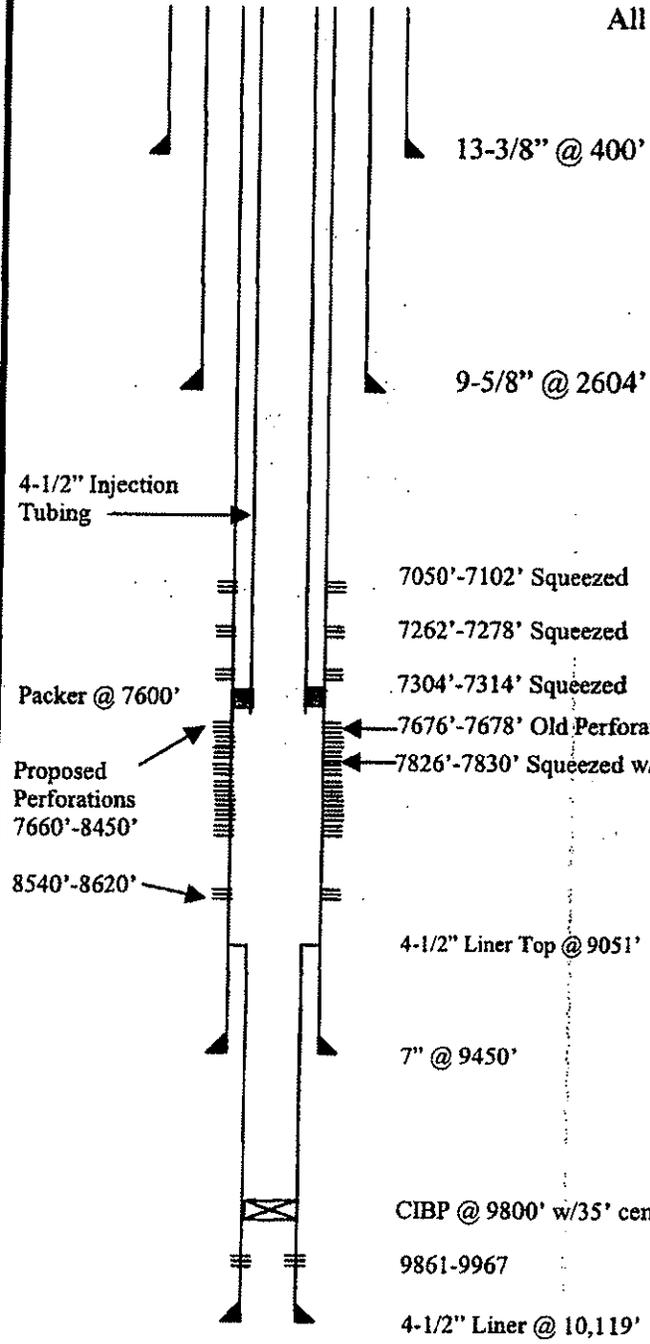
Manual Choke Manifold 2", 3000 psi working pressure

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

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Exhibit A Blowout Preventer Minimum Requirements		
DATED: 07/24/03	APPROVED BY:	JOB NO. 6825497
DRAWN BY: JDB	CHECKED BY:	SCALE: 1/4" = 1'-0"

Accepted for record - NMOCD

All depths are relative to kelly bushing



Not to Scale

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Navajo Refining Company Proposed WDW-3 orig. Chalk Bluff Federal Com 1		
DATED: 07/24/03	APPROVED BY:	JOB NO. 5045497
DRAWN BY: JOB	CHECKED BY:	SCALE: N/A

Accepted for record - NMOCD

SURFACE USE PLAN

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

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

Accepted for record - NMOCD

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

Accepted for record - NMOCD

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

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

Exhibits

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

14. Certification:

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

Date

9/17/03

Signature

Darrell Moore

Name

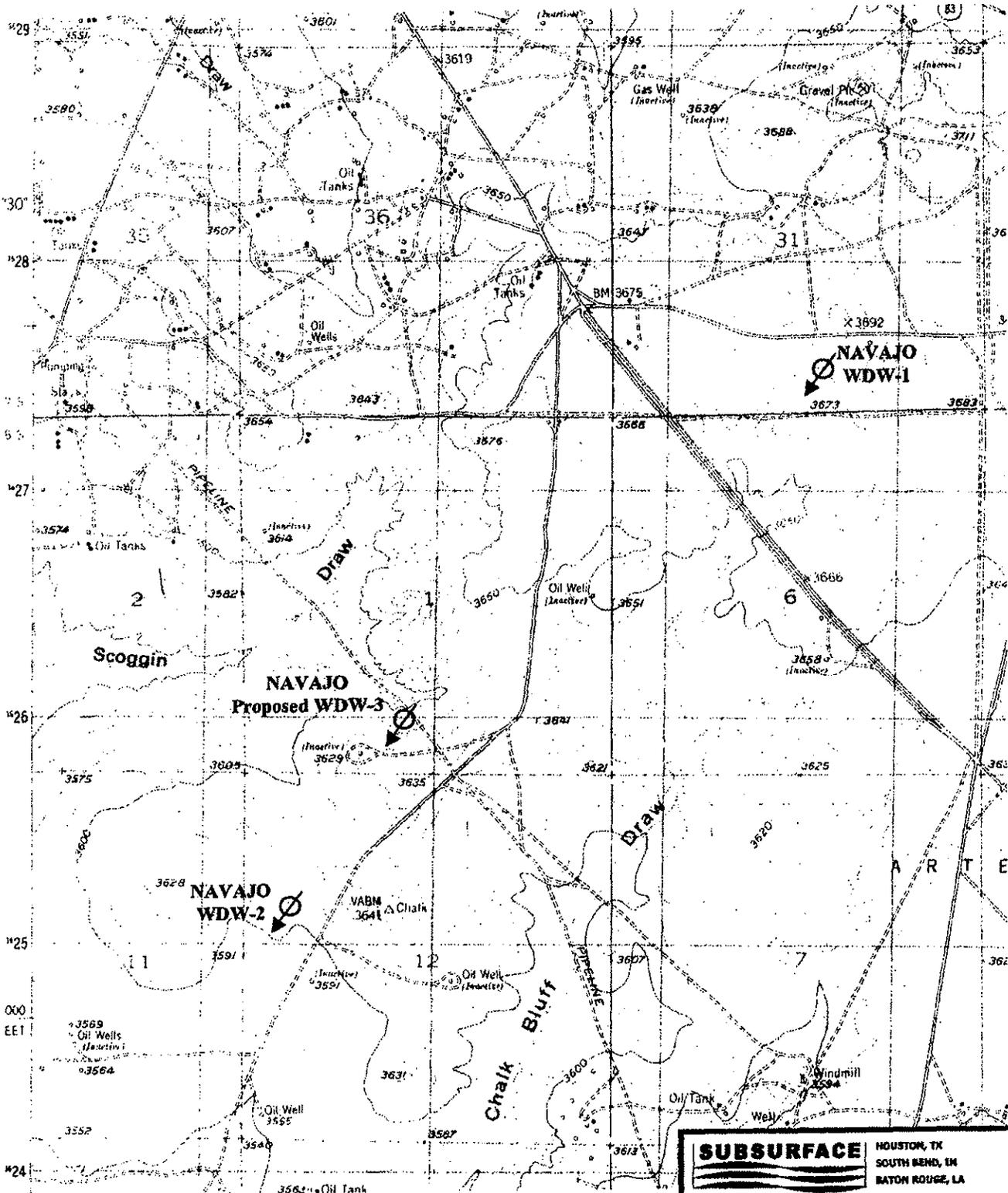
Darrell Moore

Title

Env. Mgr. for Water Waste

Navajo Refining Company
Company

Accepted for record - NMOCD



USGS Topographic Map
 Red Lake Quadrangle, Eddy County, NM

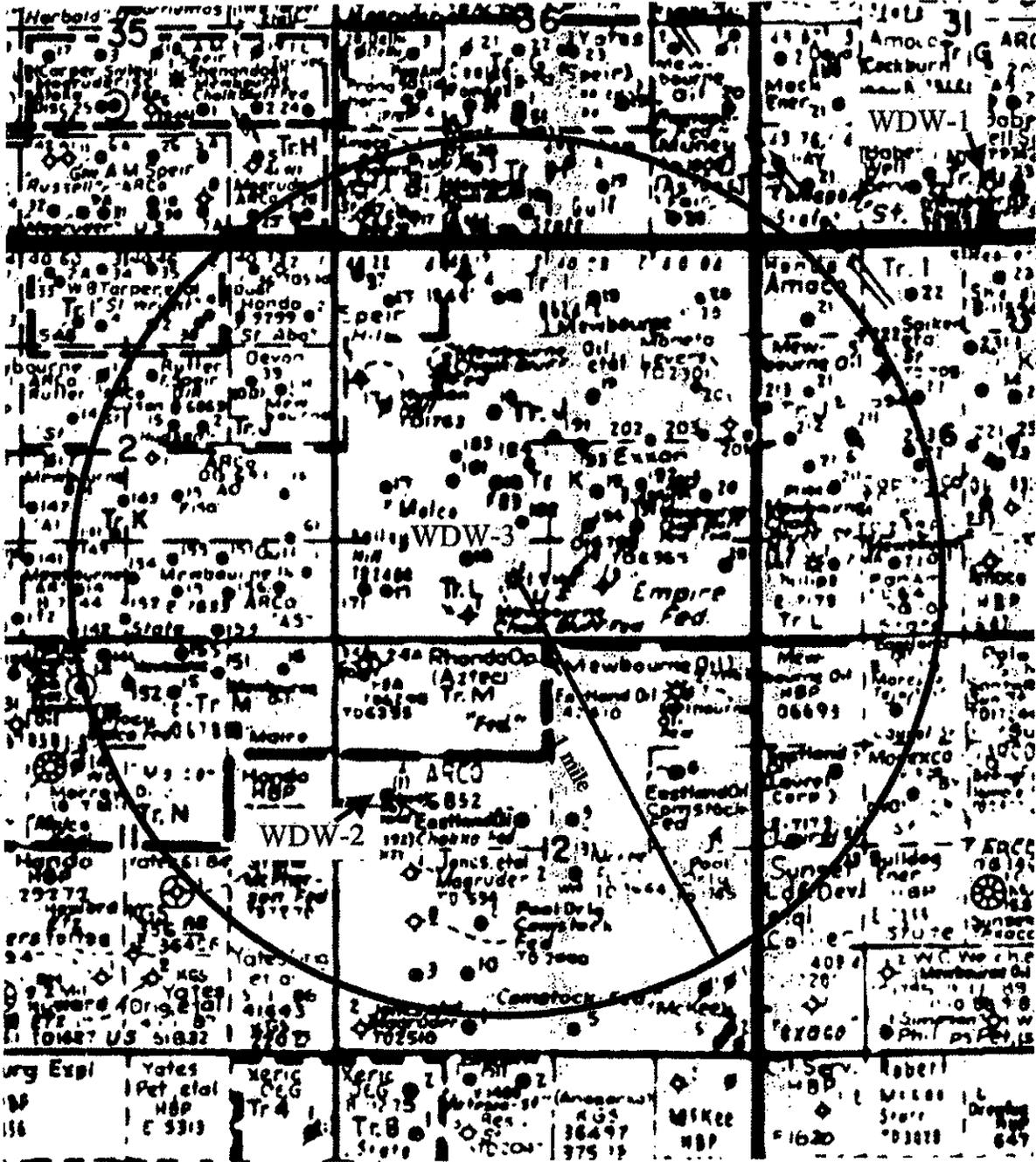
Section corners marked with +

Accepted for record - NMOCD

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

T17S - R27E

T17S - R28E



T18S - R27E
 EDDY COUNTY, NM

Accepted for record - NMOCD

Map courtesy of Midland Map Company

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
EXHIBIT B WELLS WITHIN 1 MILE OF NAVAJO REFINING COMPANY PROPOSED WDW-3		
DATED: 7/28/03	APPROVED BY: NLN	JOB NO. 6005497
DRAWN BY:	CHECKED BY:	SCALE: N/A

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

OCD-ARTESIA

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well Oil Well Gas Well Other

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

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

3b. Phone No. (include prefix) **505-746-5181**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
790' FSL, 2250' FWL, 1-18S - 27E

5. Lease Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
WDW-3

9. API Well No.
30-015-26575

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

11. County or Parish, State
EDDY, NM

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

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

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

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

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

ACCEPTED FOR RECORD

JUL 12 2006

LES BABYAK
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed) **DARRELL MOORE** Title **ENVIRONMENTAL MANAGER FOR WATER & WASTE**

Signature *Darrell Moore* Date **6/29/06**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

*Accepted for record
NMOCB/*

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

(Instructions on page 2)

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

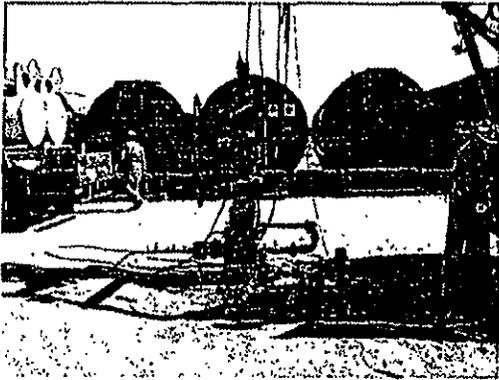


Image 1: Facing west. Christmas Tree with 500-barrel tanks in background. Far left tank was the only tank providing salt water. Truck on left is the pump truck pumping brine water only. Right truck is the rig truck (Wood Group Logging Service).

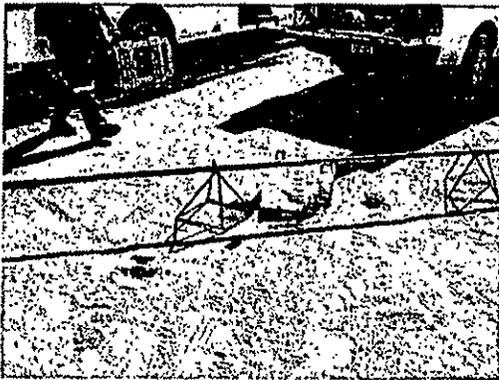


Image 2: Radioactive tool set up. Tracer, Iodine 131 (half-life ~ 8 days).



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

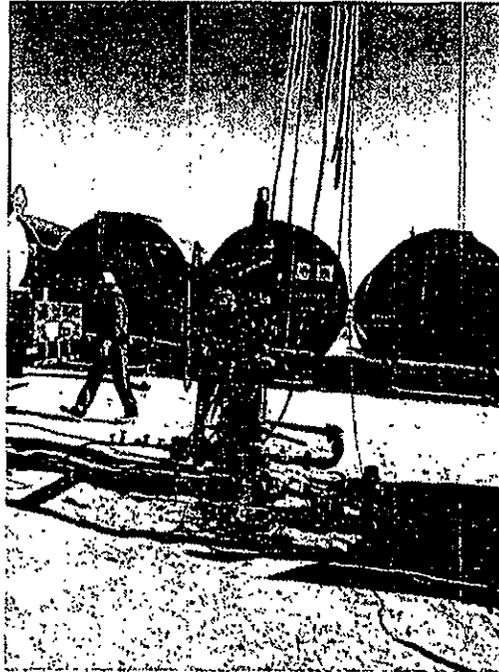


Image 4: Petroplex workers prepping wellhead for wire line tool entry.

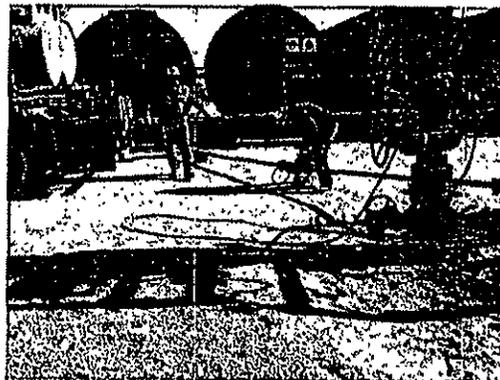


Image 5: Petroplex employees laying pipe from pump truck to well head.

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

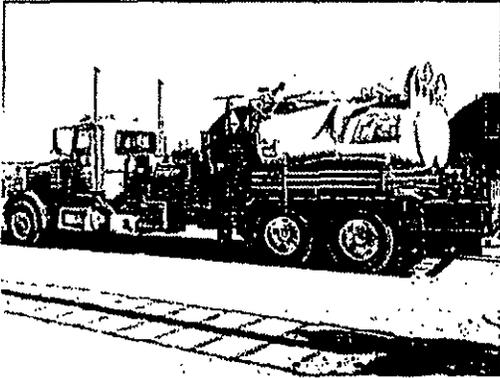


Image 6: Pump truck, Petroplex, for Brine water pumping only. No HCL used throughout process.

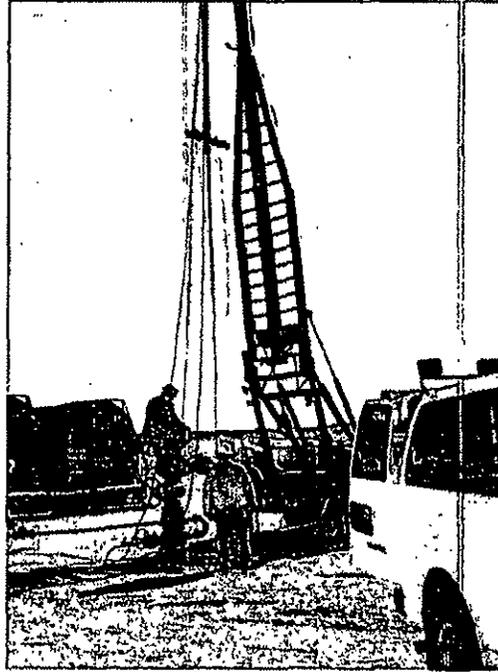


Image 8: Wood Group employee securing wellhead for tool entry.

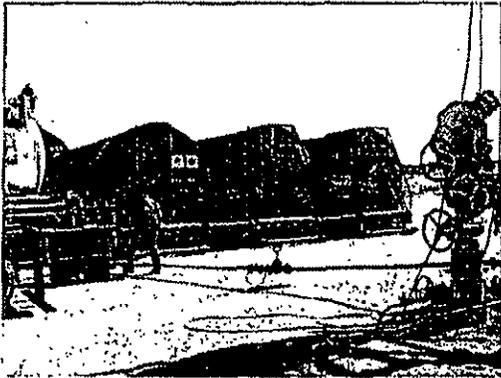


Image 7: Securing of the wire line to the wellhead.

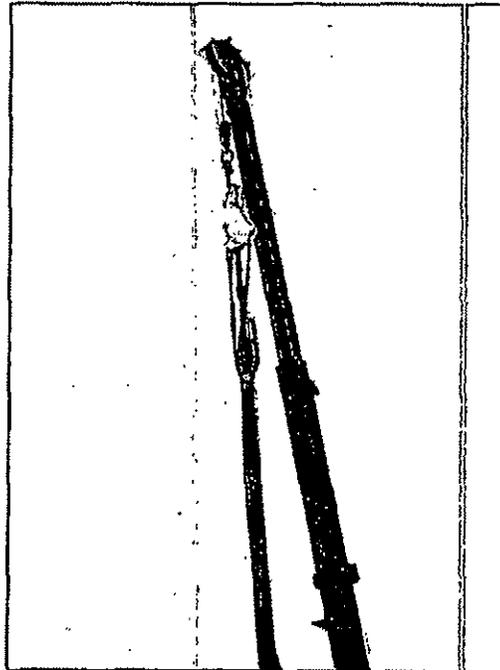


Image 9: Configuration at the top end of the boom.

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

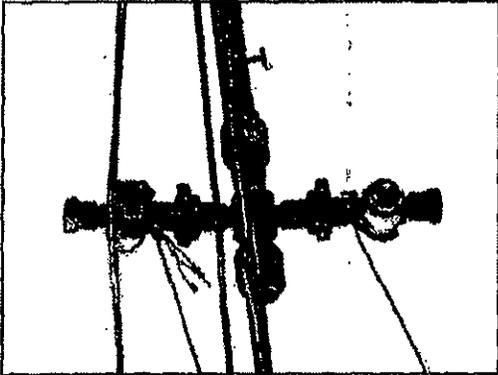


Image 10:

Image 12:

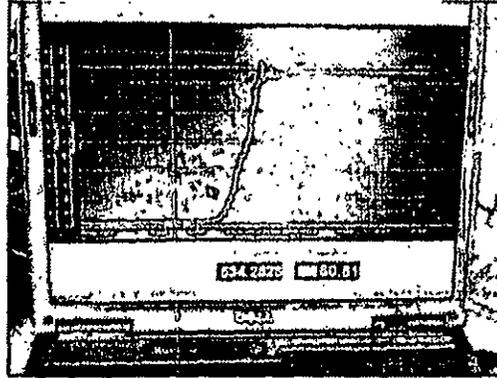


Image 13:

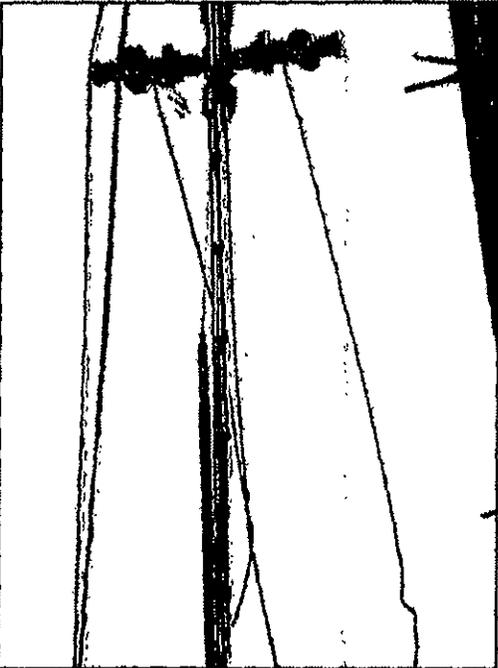


Image 11:

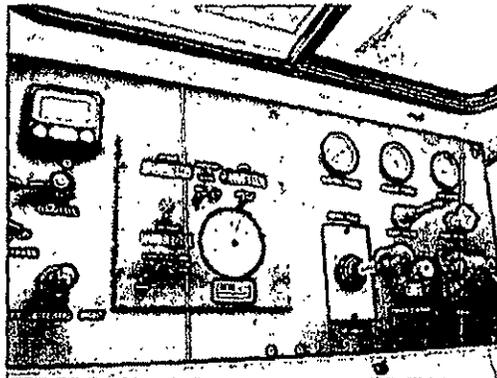


Image 14:

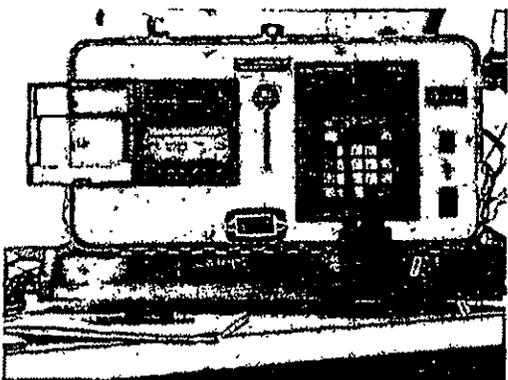
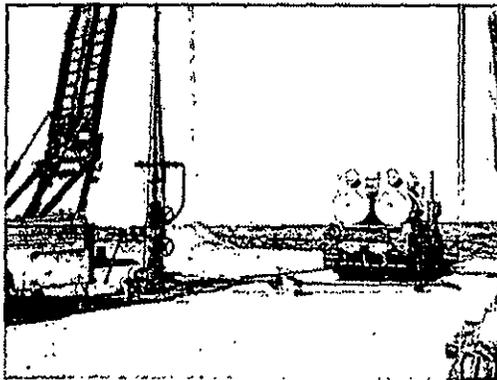


Image 15:



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

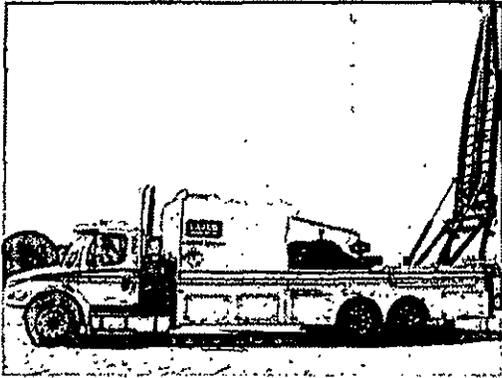


Image 16:



Image 19:



Image 17:

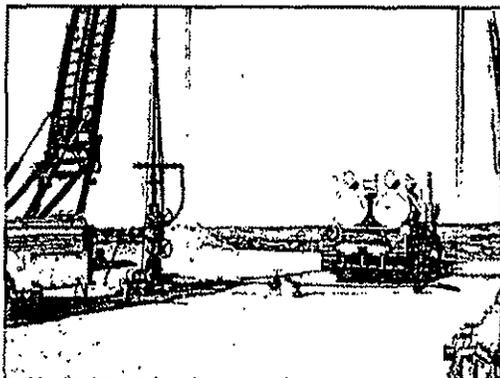


Image 20:

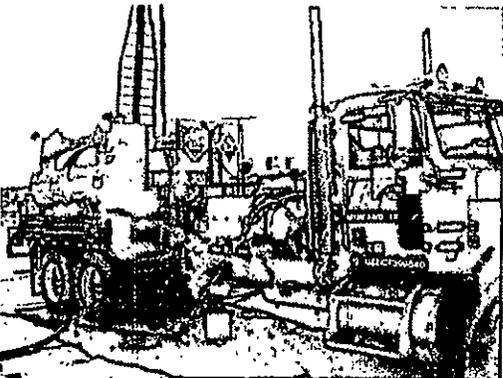
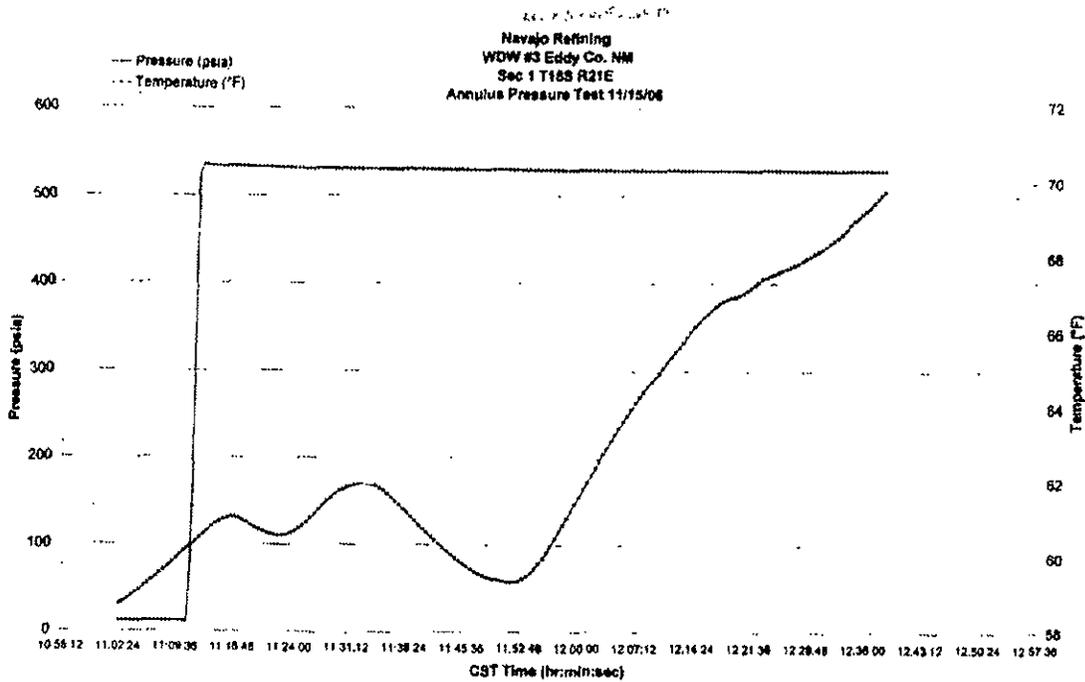
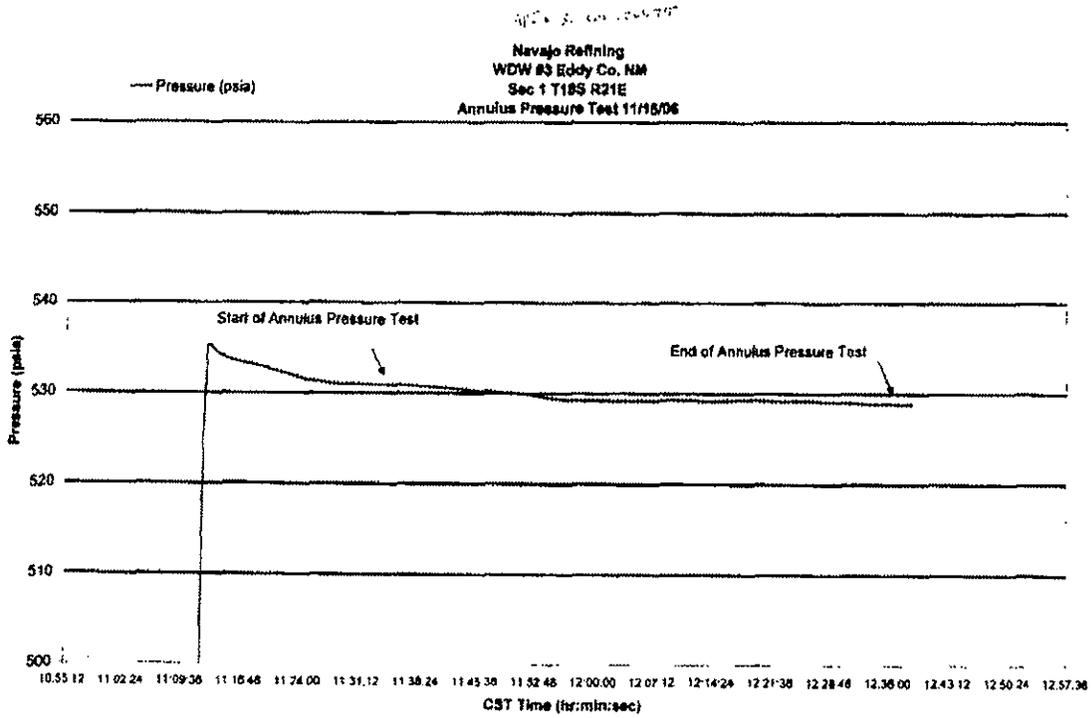


Image 18:



Image 21:

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



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

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

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

Submit to appropriate District Office
 AMENDED REPORT

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

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

Surface Location

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

Proposed Bottom Hole Location if Different From Surface

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

Additional Well Information

¹¹ Work Type Code E	¹² Well Type Code I	¹³ Cable/Rotary R	¹⁴ Lease Type Code	¹⁵ Ground Level Elevation 3609
¹⁶ Multiple NO	¹⁷ Proposed Depth 9051'	¹⁸ Formation CANYON	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater UNKNOWN		Distance from nearest fresh water well 1.25 ML TO 18.28 7.330		Distance from nearest surface water 10 MILES
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/>		Pit Volume: _____ bbs		Drilling Method: Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>
Closed-Loop System <input type="checkbox"/>				

Proposed Casing and Cement Program

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

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.
ORIGINAL WELL NAME WAS CHALK BLUFF FEDERAL COM. NO. 1
WELL WILL BE PLUGGED BACK AND COMPLETED AS A CLASS I INJECTION WELL AS FOLLOWS:
DRILL OUT BRIDGE PLUG AT 7010' AND CLEAN OUT TO 7208';
INJECTION-TEST PERFORATIONS AT 7050'-7102'; 7262'-7278' TO PLAN SQUEEZE CEMENT JOB;
DRILL OUT BRIDGE PLUGS AT 7208' AND 7294'. CLEAN OUT HOLE THROUGH PERFS AT 7304'-7314';
SQUEEZE-CEMENT PERFORATIONS AT 7050'-7102'; 7262'-7278'; AND 7304'-7314';
DRILL OUT BRIDGE PLUG AT 7600' AND CLEAN OUT TO TOP OF LINER AT 9051';
RUN CBL/VDL AND CALIPER FROM 9051' TO SURFACE;
PERFORATE 8540'-8620' AND 7660'-8450';
RUN INJECTIVITY TEST, AND ACIDIZE IF NECESSARY;
RUN INJECTION/FALLOFF TEST;
RUN DIFFERENTIAL TEMPERATURE SURVEY;
RUN RADIOACTIVE TRACER SURVEY;
INSTALL INJECTION TUBING AND PACKER TO APPROX. 7600'; AND
INSTALL WELL ANNULUS MONITORING EQUIPMENT, AND PREPARE FOR WELL INJECTION.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

OIL CONSERVATION DIVISION

Approved by: *Wayne Price*

Printed name: *Darrell Moore*

Title:

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

Approval Date: *8/11/06*

Expiration Date: *8/11/07*

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

Date: *6/29/06*

Phone: *505-746-5201*

Conditions of Approval Attached

DISTRICT OFFICE MUST APPROVE CASING PROGRAM.

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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

10 Surface Location

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

11 Bottom Hole Location if Different From Surface

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

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

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

	<p>17 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>Signature: <i>Darrell Moore</i></p> <p>Printed Name: Darrell Moore</p> <p>Title and E-mail Address: Env. Mgr. for Water Waste darrell@navajo-refining.com</p> <p>Date: 9/17/03</p>	
	<p>18 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>Certificate Number</p>	

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

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

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

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

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

Depth of Plugs

7010 feet in 7-inch casing above perforations 7050 feet to 7102 feet

7208 feet in 7-inch casing above perforations 7262 feet to 7278 feet

7294 feet in 7-inch casing above perforations 7304 feet to 7314 feet

7600 feet in 7-inch casing above perforations 7676 feet to 7678 and
7826 feet to 7830 feet

9800 feet in 4-1/2-inch liner above perforations 9861 feet to 9967 feet

Anticipated Formation Pressure

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

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

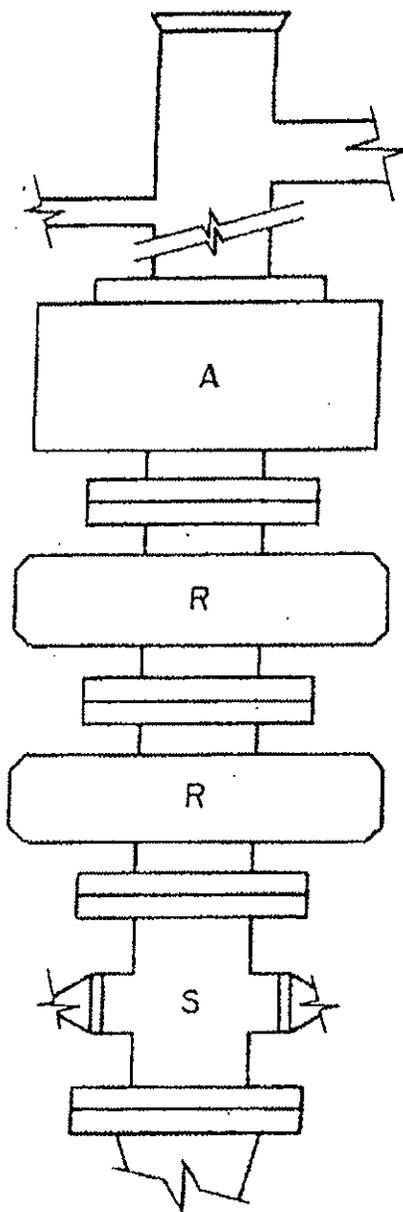
$$\begin{aligned} \text{BHP (9000 feet)} &= 2813 \text{ psia} + (9000 \text{ feet} - 7570 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.025 \\ &= 3448 \text{ psia} \end{aligned}$$

Reentry Procedure

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

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

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



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

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

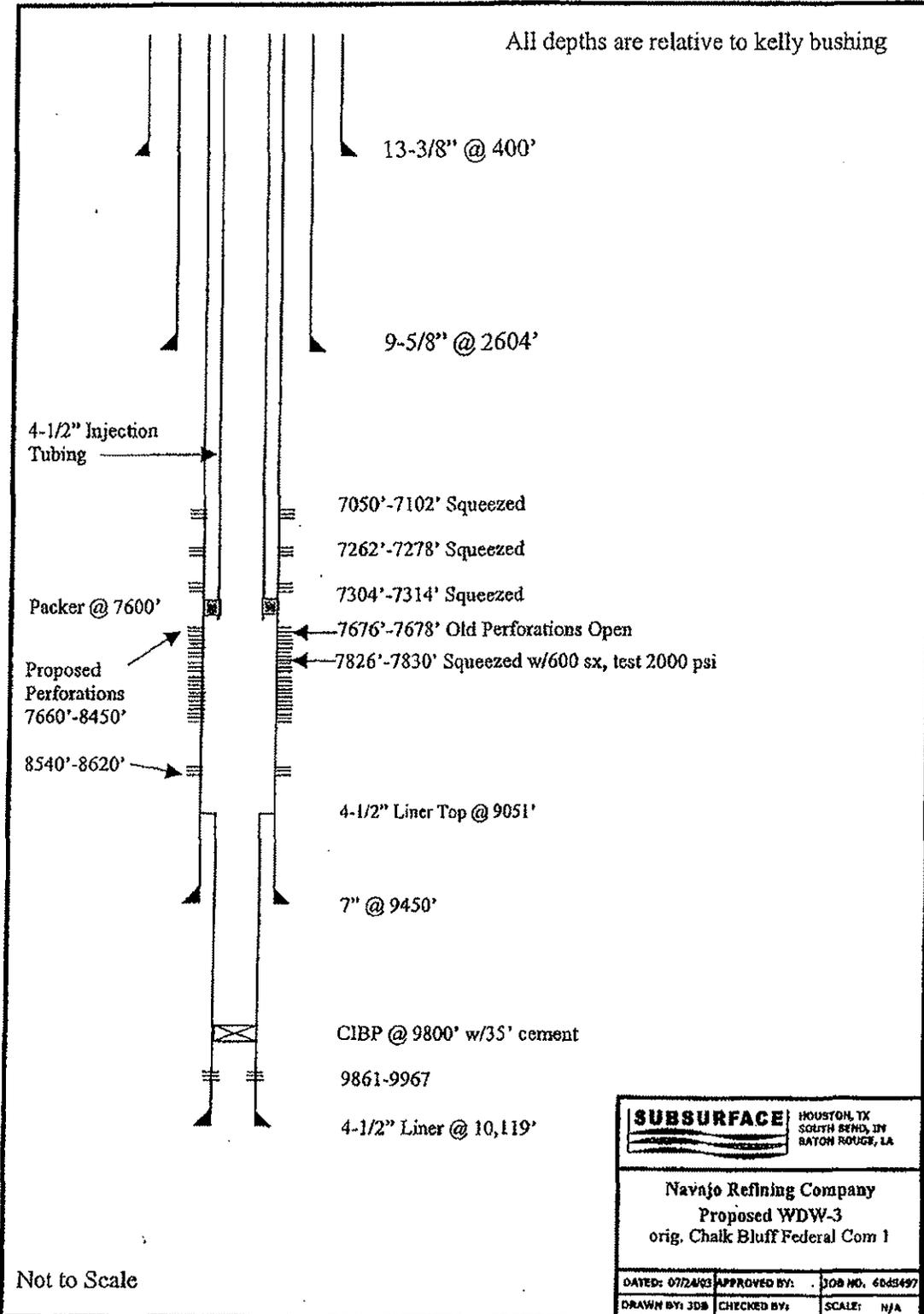
S = DRILLING SPOOL WITH SIDE OUTLETS
7-1/16", 3000 psi working pressure

Manual Choke Manifold 2", 3000 psi working pressure

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

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Exhibit A Blowout Preventer Minimum Requirements		
DATED: 07/24/03	APPROVED BY:	JOB NO. 6835487
DRAWN BY: JDB	CHECKED BY:	SCALE: N/A

All depths are relative to kelly bushing



Not to Scale

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Navajo Refining Company Proposed WDW-3 orig. Chalk Bluff Federal Com 1		
DATED: 07/24/03	APPROVED BY:	JOB NO. 6048497
DRAWN BY: JDB	CHECKED BY:	SCALE: N/A

SURFACE USE PLAN

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

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

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

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

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

Exhibits

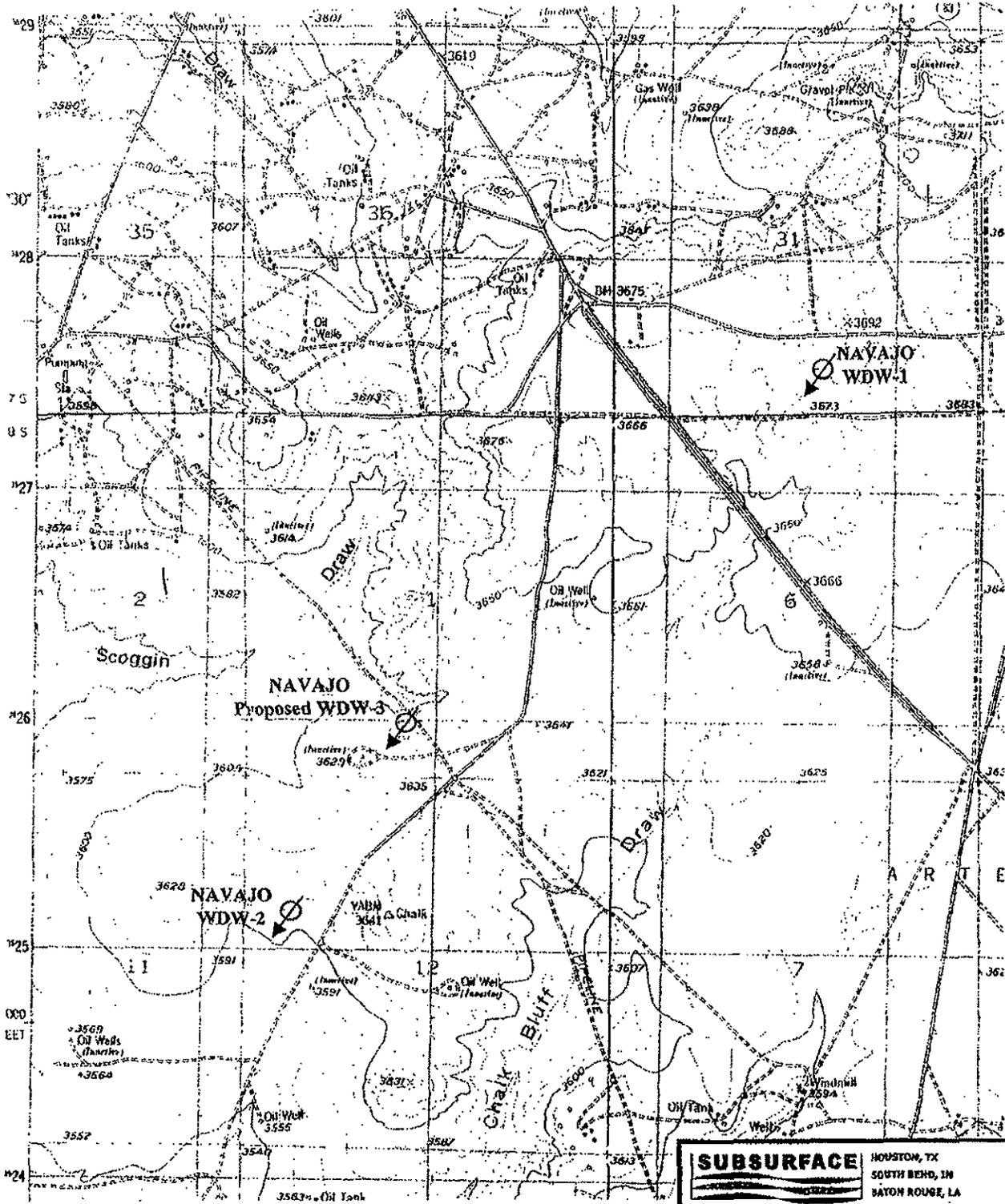
- A. Topographic Map
- B. Oil and Gas Map

14. Certification:

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

9/17/03
Date

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



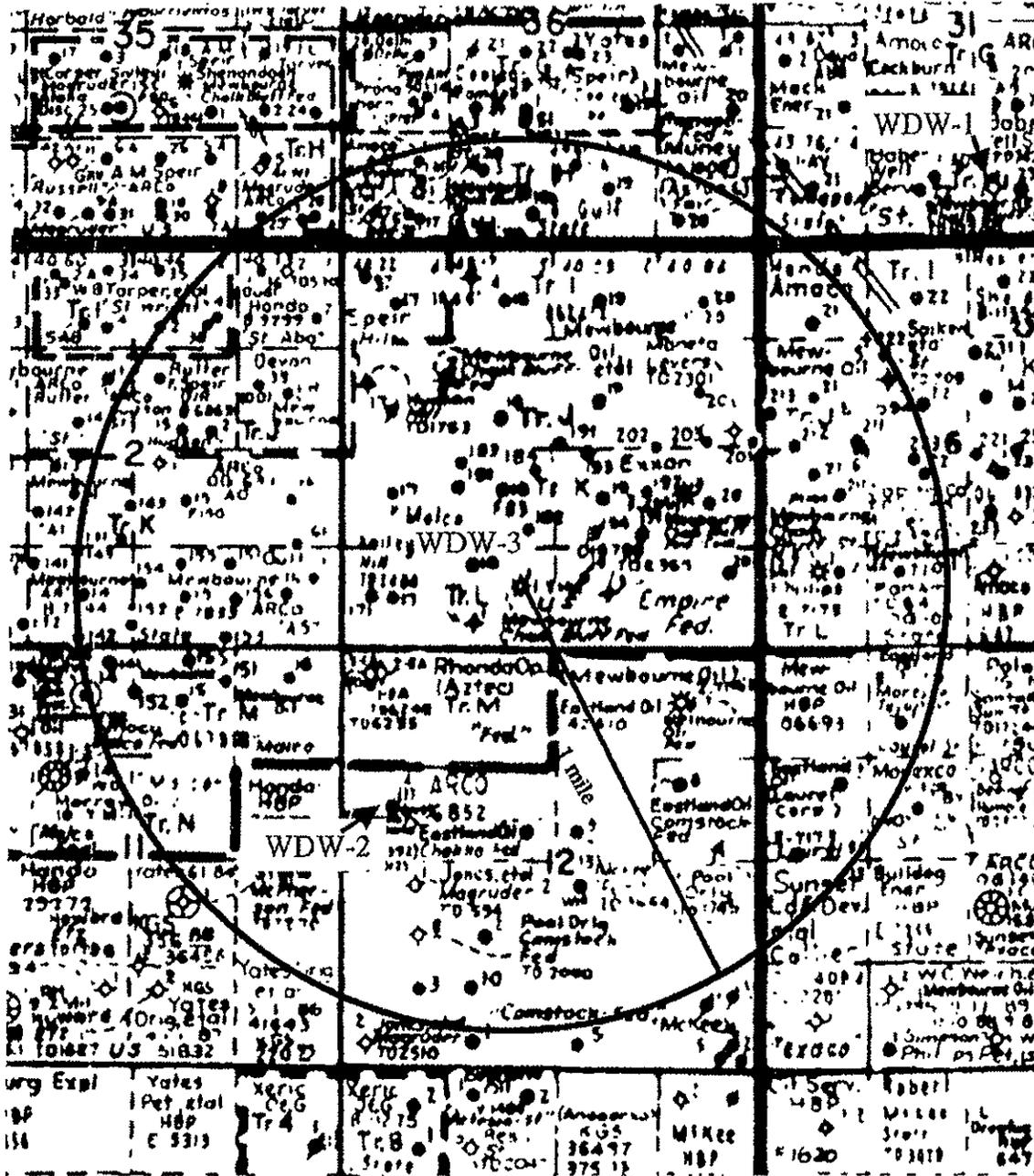
USGS Topographic Map
 Red Lake Quadrangle, Eddy County, NM

Section corners marked with +

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

T17S - R27E

T17S - R28E



T18S - R27E
EDDY COUNTY, NM

SUBSURFACE		HOUSTON, TX
		SOUTH BEND, IN
		BATON ROUGE, LA
EXHIBIT B		
WELLS WITHIN 1 MILE OF NAVAJO REFINING COMPANY PROPOSED WDW-3		
DATE: 7/28/03	APPROVED BY: HLN	JOB NO. 6905497
DRAWN BY:	CHECKED BY:	SCALE: N/A

Map courtesy of Midland Map Company

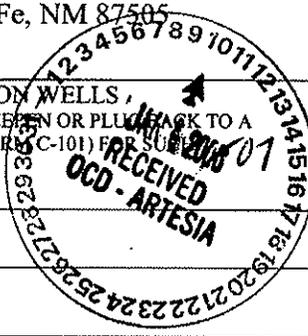
Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 May 27, 2004

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

WELL API NO. 30 - 015 - 26575
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. NM-0557371
7. Lease Name or Unit Agreement Name WDW - 3
8. Well Number 3
9. OGRID Number
10. Pool name or Wildcat



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

1. Type of Well: Oil Well Gas Well Other
 2. Name of Operator
NAVAJO REFINING COMPANY
 3. Address of Operator
P.O. BOX 159, ARTESIA, NM 88211
 4. Well Location
 Unit Letter _____ : 790 feet from the SOUTH line and 2250 feet from the WEST line
 Section 1 Township 18 south Range 27 East NMPM County Eddy

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

Pit or Below-grade Tank Application or Closure
 Pit type N/A Depth to Groundwater 100 FT Distance from nearest fresh water well 1 MILE Distance from nearest surface water 6 MILES
 Pit Liner Thickness: N/A mil Below-Grade Tank: Volume N/A bbls; Construction Material N/A

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	

OTHER: To complete a Class 1 non-hazardous waste well OTHER: Well completion report to follow

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

See attached well summary document and well schematic.

*MIT Witnessed by Carl Chavez
 No chart Submitted*

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

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

Type or print name r State Use Only E-mail address: _____ Telephone No. _____

*Accepted for record
 NMOCD*

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any): _____

Submit To Appropriate District Office
 State Lease - 6 copies
 Fee Lease - 5 copies
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Avenue, Artesia, NM 88210
 District III
 J Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

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

Form C-105
 Revised June 10, 2003

WELL API NO.
 30 - 015 - 26575

5. Indicate Type of Lease
 STATE FEE

State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
 OIL WELL GAS WELL DRY OTHER Non-hazardous Waste Disposal Well
 b. Type of Completion:
 NEW WORK DEEPEN PLUG DIE
 WELL OVER BACK RESVR. BACK

7. Lease Name or Unit Agreement Name
 Waste Disposal Well / WDW - 3

2. Name of Operator
 NAVAJO REFINING COMPANY

8. Well No. 3

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

9. Pool name or Wildcat

4. Well Location
 Unit Letter _____ : 790. Feet From The SOUTH Line and 2250. Feet From The WEST Line

Section 1 Township 18 South Range 27 East NMPM County Eddy, NM
 10. Date Spudded 12/22/90 11. Date T.D. Reached 1/29/91 12. Date Compl. (Ready to Prod.) Injection 1/15/07 13. Elevations (DF& RKB, RT, GR, etc.) DF 3616 ft / GR 3609 ft 14. Elev. Casinghead 3609 ft

15. Total Depth 10,119 ft 16. Plug Back T.D. 9020 ft 17. If Multiple Compl. How Many Zones? 2 18. Intervals Drilled By Rotary Tools (Recentry Drill out CIBP Plugs with Swivel) Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name Injection Interval 7660 ft to 8450 ft Cisco & 8540 ft to 8620 ft Canyon 20. Was Directional Survey Made No

21. Type Electric and Other Logs Run CBL/VDL, Temperature, Caliper, Radioactive Tracer, Pressure 22. Was Well Cored No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.50	400'	17 1/2"	425-CIRC	NONE
9 5/8"	36	2604'	12 1/4"	1025-CIRC	NONE
7"	29 & 26	9450'	8 3/4"	1350-CIRC	NONE

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4 1/2"	9051'	10,119'	175	NONE

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
4 1/2"	7567'	7575'

26. Perforation record (interval, size, and number)
 7660' TO 8450' / 0.5" / 2 JSPP / 60°
 8540' TO 8620' / 0.5" / 2 JSPP / 60°
 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
 DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED
 7050' TO 7102' 80 SKS PREM 14.8 PPG CMT SQZ PERF
 7262' TO 7278' 100 SKS PREM 14.8 PPG CMT SQZ PERF
 7304' TO 7314' 80 SKS PREM 14.8 PPG CMT SQZ PERF

28. PRODUCTION

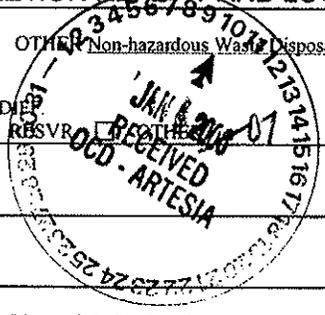
Date First Production (INJECTION WELL) _____ Production Method (Flowing, gas lift, pumping - Size and type pump) (INJECTION PUMP) _____ Well Status (Prod. or Shut-in) (SHUT-IN) _____
 Date of Test 10/19/06 Hours Tested 4 HOURS Choke Size NO CHOKE INJECT TEST Prod'n For Test Period N/A Oil - Bbl. N/A Gas - MCF N/A Water - Bbl. N/A Gas - Oil Ratio N/A
 Flow Tubing Press. MAX INJECT 1450 PSI Casing Pressure 750 PSI Calculated 24-Hour Rate 8 BPM Oil - Bbl. N/A Gas - MCF N/A Water - Bbl. N/A Oil Gravity - API - (Corr.) N/A

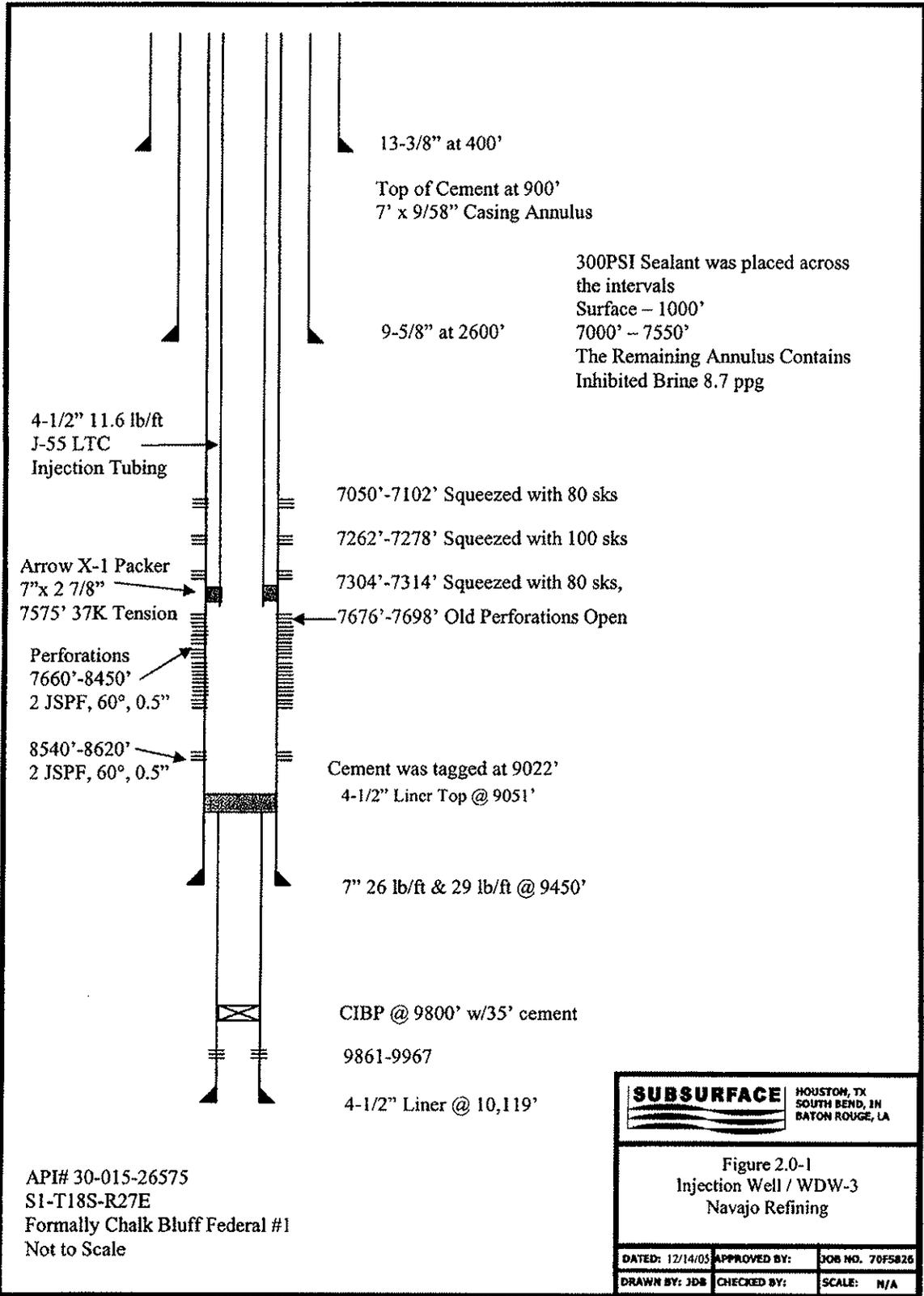
29. Disposition of Gas (Sold, used for fuel, vented, etc.) NO GAS Test Witnessed By _____

30. List Attachments
 WELL SUMMARY OF EVENTS, WELL WAS CONVERTED TO A CLASS I NON-HAZARDOUS WATER WASTE DISPOSAL WELL. A FULL REPORT WILL FOLLOW AT A LATER DATE.

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature Darrell Moore Printed Name Darrell Moore Title Env. Mgr. Date 1/8/07
 Email Address darrell.moore@navajo-refining.com





Well Summary

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

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

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

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

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

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

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

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

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

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

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

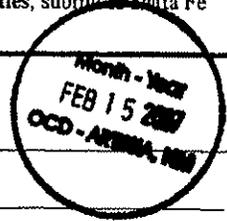
The annulus monitoring system was installed and tested. The well was turned over to Navajo for injection.

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

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

Form C-144
June 1, 2004

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



Pit or Below-Grade Tank Registration or Closure

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

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

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

Pit	Below-grade tank						
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____						
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	<table border="1"> <tr> <td>Less than 50 feet</td> <td>(20 points)</td> </tr> <tr> <td><u>50 feet or more, but less than 100 feet</u></td> <td>(10 points) <u>10</u></td> </tr> <tr> <td>100 feet or more</td> <td>(0 points)</td> </tr> </table>	Less than 50 feet	(20 points)	<u>50 feet or more, but less than 100 feet</u>	(10 points) <u>10</u>	100 feet or more	(0 points)
Less than 50 feet	(20 points)						
<u>50 feet or more, but less than 100 feet</u>	(10 points) <u>10</u>						
100 feet or more	(0 points)						
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	<table border="1"> <tr> <td>Yes</td> <td>(20 points)</td> </tr> <tr> <td><u>No</u></td> <td>(0 points) <u>0</u></td> </tr> </table>	Yes	(20 points)	<u>No</u>	(0 points) <u>0</u>		
Yes	(20 points)						
<u>No</u>	(0 points) <u>0</u>						
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	<table border="1"> <tr> <td>Less than 200 feet</td> <td>(20 points)</td> </tr> <tr> <td>200 feet or more, but less than 1000 feet</td> <td>(10 points)</td> </tr> <tr> <td><u>1000 feet or more</u></td> <td>(0 points) <u>0</u></td> </tr> </table>	Less than 200 feet	(20 points)	200 feet or more, but less than 1000 feet	(10 points)	<u>1000 feet or more</u>	(0 points) <u>0</u>
Less than 200 feet	(20 points)						
200 feet or more, but less than 1000 feet	(10 points)						
<u>1000 feet or more</u>	(0 points) <u>0</u>						
Ranking Score (Total Points)							
<u>10</u>							

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

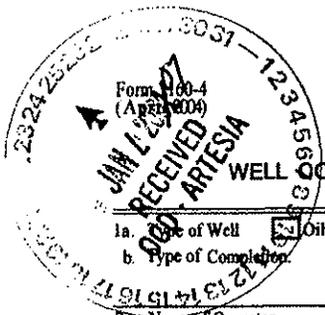
Additional Comments: NAVAJO REFINING COMPANY PLANS TO CLOSE DRILLING PIT ON THE WDW #3 AS PER NEW MEXICO OIL CONSERVATION DIVISION RULE 30 IN THE PIT AND BELOW GRADE TANK GUIDE LINES. NAVAJO PLANS TO REMOVE ALL FLUIDS AND DRILL CUTTINGS. ALL CUTTINGS WILL BE TAKEN TO A N.M.O.C.D. APPROVED SITE FOR DISPOSAL AND BACKFILL WITH ONSITE STOCKPILED SOILS. WE WILL NOTIFY O.C.D. 48 HOURS PRIOR TO BEGINNING WORK.

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

Date: 2/14/06
 Printed Name/Title: Chad Williams/Agent Signature: Chad Williams

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

Approval: Jim W. Brown
 District II Supervisor Signature: _____ Date: 2/12/07



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

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

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

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

3. Address **P.O. BOX 159, ARTESIA, NM 88211** 3a. Phone No. (include area code)

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE**
 At top prod. interval reported below **7650' AT THE SAME LOCATION AS ABOVE**
 At total depth **PLUG BACK 10,119' AT THE SAME LOCATION AS ABOVE**

14. Date Spudded **12/22/1996** 15. Date T.D. Reached **01/29/1991** 16. Date Completed D & A Ready to Prod.

18. Total Depth: MD **10,119'** 19. Plug Back T.D.: MD **9022'** 20. Depth Bridge Plug Set: MD **CMT 9051'-9022'**
 TVD **10,119'** TVD **9022'** TVD **CMT 9051'-9022'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/VDL, MULTI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006)
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit report)
 Directional Survey? No Yes (Submit copy)

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

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

24. Tubing Record

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

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CISCO	7650'	8450'	7660' - 8450'	0.5"	1500	2 JSPPF / 60°
B) CANYON	8540'	8620'	8540' - 8620'	0.5"	100	2 JSPPF / 60°
C)						
D)						

26. Perforation Record

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

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

28. Production - Interval A

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

28a. Production - Interval B

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

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

N/A (NON-HAZARDOUS CLASS 1 WELL)

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

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

32. Additional remarks (include plugging procedure):

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

(SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)

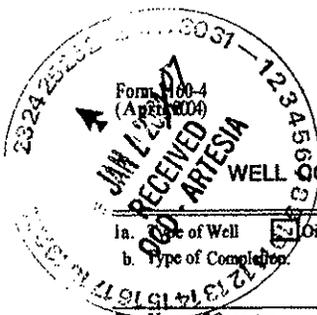
33. Indicate which items have been attached by placing a check in the appropriate boxes:

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

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

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

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



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

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

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

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

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

3a. Phone No. (include area code)

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

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

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

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

14. Date Spudded
12/22/1990

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

16. Date Completed
 D & A Ready to Prod.

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

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

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

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

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/VDL, MULTI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006)

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

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

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

24. Tubing Record

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

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CISCO	7650'	8450'	7660' - 8450'	0.5"	1500	2 JSFF / 60°
B) CANYON	8540'	8620'	8540' - 8620'	0.5"	100	2 JSFF / 60°
C)						
D)						

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

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

28. Production - Interval A

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

28a. Production - Interval B

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

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

N/A (NON-HAZARDOUS CLASS 1 WELL)

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

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

32. Additional remarks (include plugging procedure):

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

(SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)

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

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

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

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

Annth - Year
MAR - 5 2007
OCD - ARTESIA, NM

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

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

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

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
S1 - T18S - R27E ; 790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE

5. Lease Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name
N/A

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

8. Well Name and No.
WDW-3

9. API Well No.
30 - 015 - 26575

10. Field and Pool, or Exploratory Area

11. County or Parish, State
EDDY

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

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

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

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

10/1/06 -THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9622' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH NEAT CEMENT AT 7859' TO 7102', 7262' TO 7278', AND FROM 7364' TO 7314'.

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

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

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

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

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

Name (Printed/Typed)

Darrell Moore

Title

Env. Mgr. for Water & Waste

Signature

Darrell Moore

Date

1/24/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by

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

Title

Office

Date

FEB 28 2007

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

**FREDERICK
PETROLEUM ENGINEER**

(Instructions on page 2)

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

GENERAL INSTRUCTIONS

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

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

SPECIFIC INSTRUCTIONS

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

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

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

NOTICE

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

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

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

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

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

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

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

Response to this request is mandatory.

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

BURDEN HOURS STATEMENT

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

SUNDRY NOTICE SPECIAL STIPULATIONS

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

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

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

F Wright 2/28/07

OCD-ARTESIA

Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

Month - Year
 - 5 - 2007
 ARTESIA, NM

5. Lease Serial No.
NM - 0557371

6. If Indian, Allottee or Tribe Name
N/A

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
WDW - 3

9. AFI Well No.
30 - 015 - 26575

10. Field and Pool, or Exploratory

11. Sec., T., R., M., on Block and Survey or Area
S1 - T18S - R27E

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
12/22/1990

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

16. Date Completed
 D & A Ready to Prod.

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

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

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

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

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/VDL, MULTI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006)

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

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

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

24. Tubing Record

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

25. Producing Intervals

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

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

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

28. Production - Interval A

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

28a. Production - Interval B

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

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

ACCEPTED FOR RECORD
 FEB 28 2007
 FREDERICK WRIGHT
 PETROLEUM ENGINEER

28b. Production - Interval C

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

28c. Production - Interval D

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

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

N/A (NON-HAZARDOUS CLASS 1 WELL)

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

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

32. Additional remarks (include plugging procedure):

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

(SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)

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

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

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

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

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

INSTRUCTIONS

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

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

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

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

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

PRIVACY ACT

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

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

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

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

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

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

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

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

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

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

BURDEN HOURS STATEMENT

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

Well Summary

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

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

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

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

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

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

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

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

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

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

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

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



**LOGGING
SERVICES**

R/A TRACER LOG INTERPRETATION

11/27/2006

**PLANT: NAVAJO REFINING CO.
C/O: SUBSURFACE TECHNOLOGY
WELL NAME: CHALK BLUFF FEDERAL # 1 WDW # 3**

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

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

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

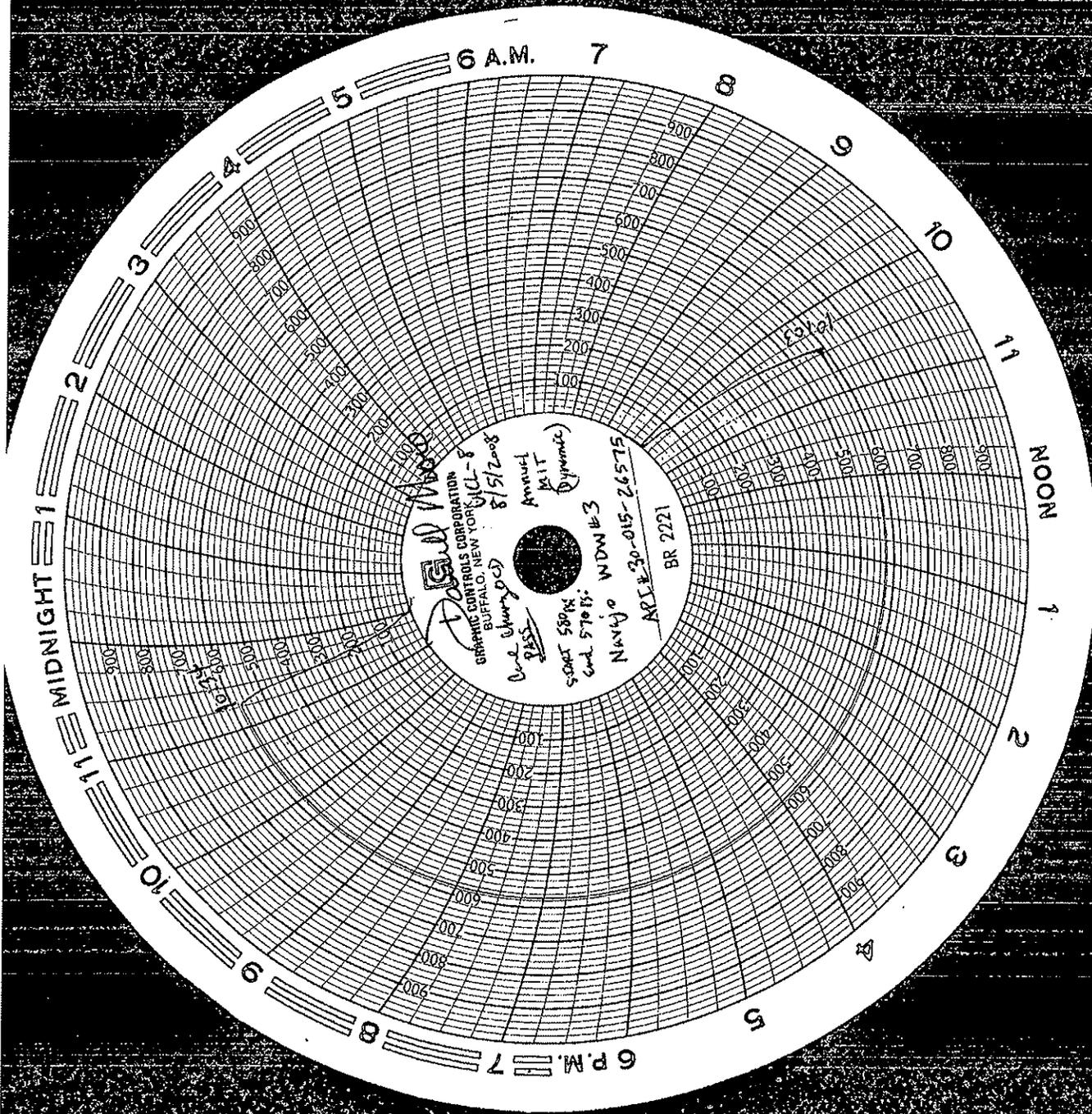
The flow profile log was then repeated and this survey also showed R/A material going out into the permitted interval.

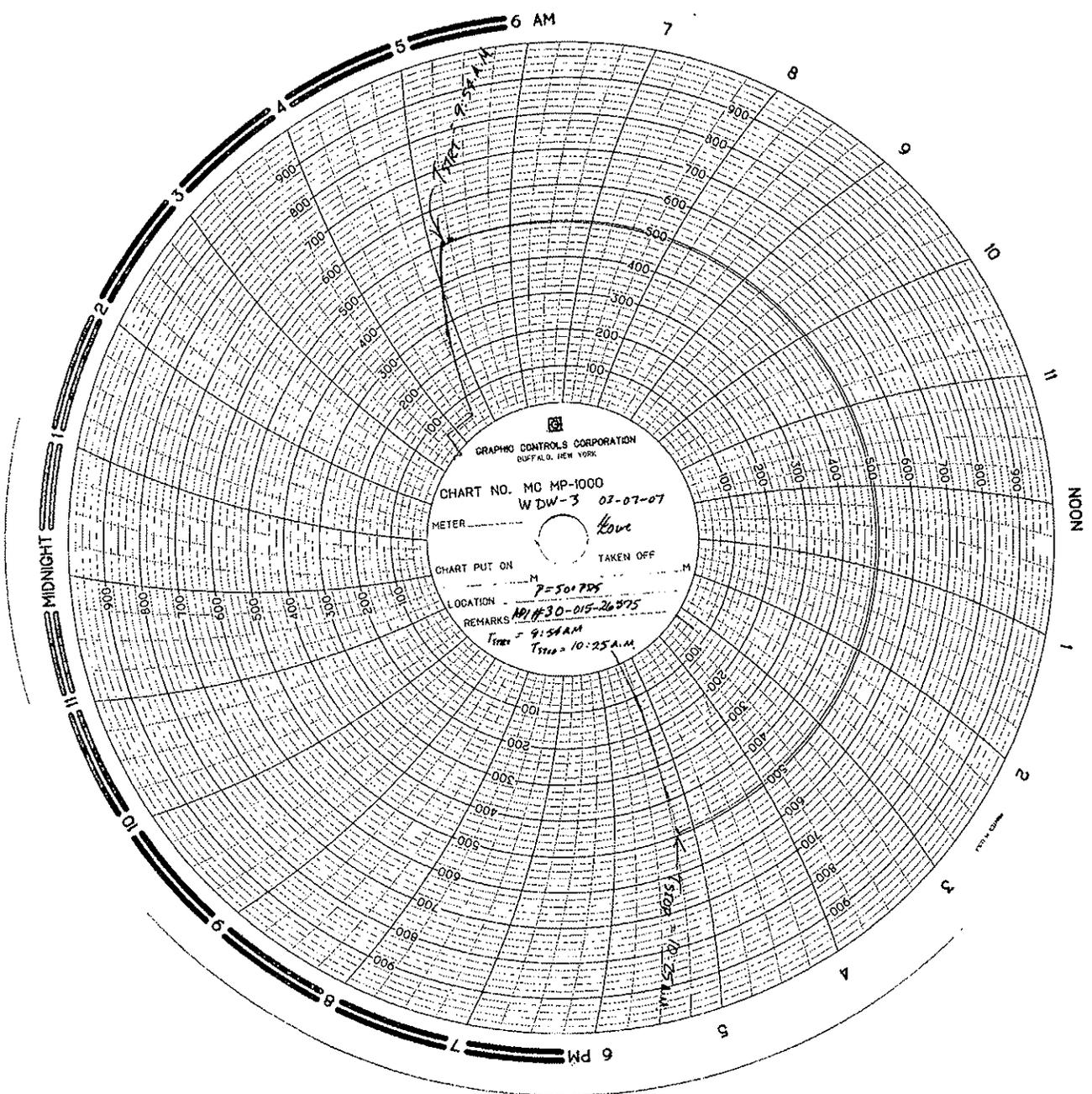
Two Stationary Time Drive surveys were run with the tool at 7640'. No indications of upward migration were recorded.

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

A handwritten signature in cursive script that reads 'John Croce'.

John Croce





GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO. MC MP-1000
W DW-3 03-07-07

METER *Kove*

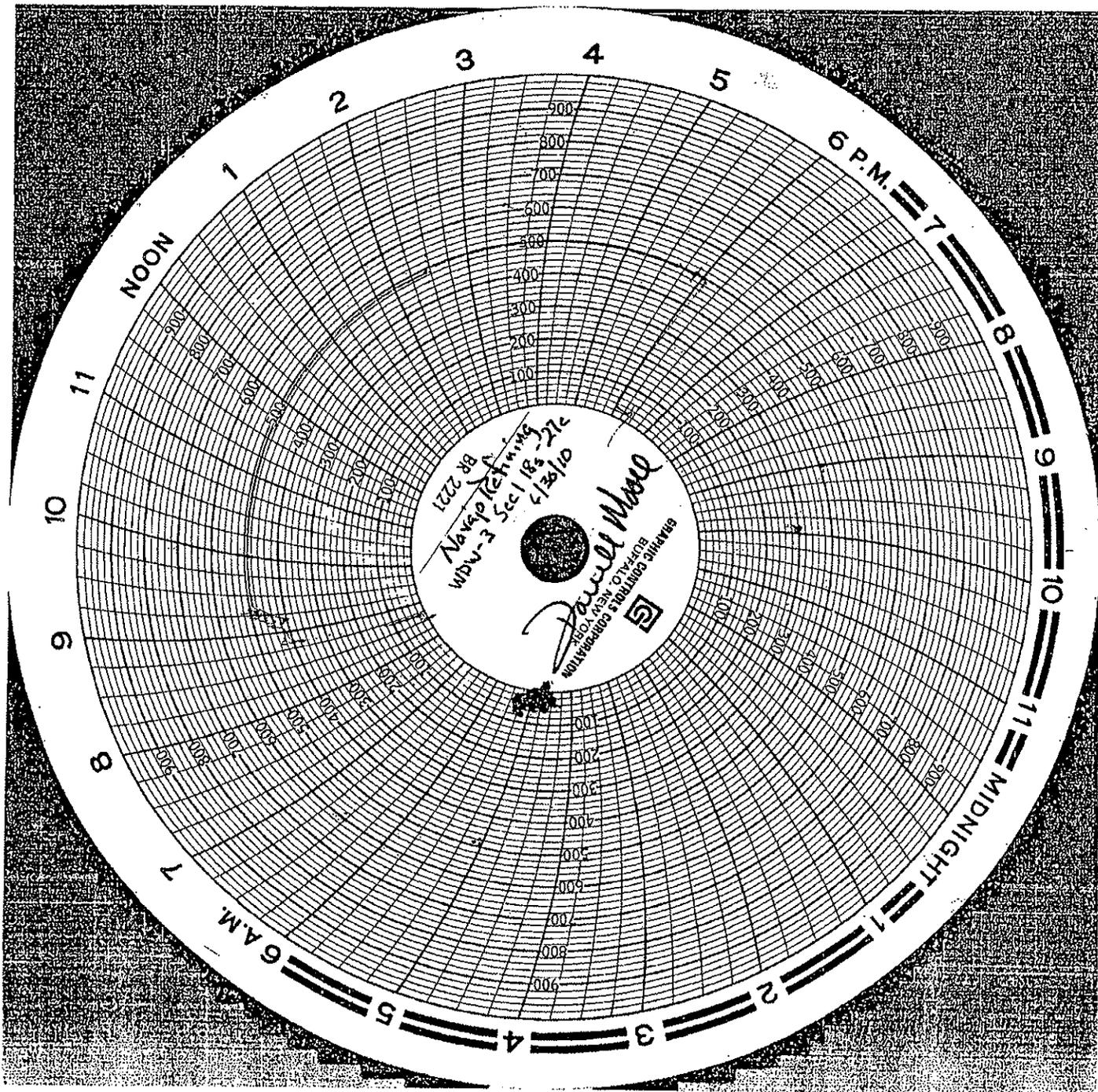
CHART PUT ON _____ TAKEN OFF _____

LOCATION *P-501 PDS*

REMARKS *API # 30-015-26575*

TIME *9:54 AM*

TIME *10:25 A.M.*



Chavez, Carl J, EMNRD

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

Carl

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

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

Darrell Moore

Environmental Manager for Water and Waste

Navajo Refining Company, LLC

Phone Number 575-746-5281

Cell Number 575-703-5058

Fax Number 575-746-5451

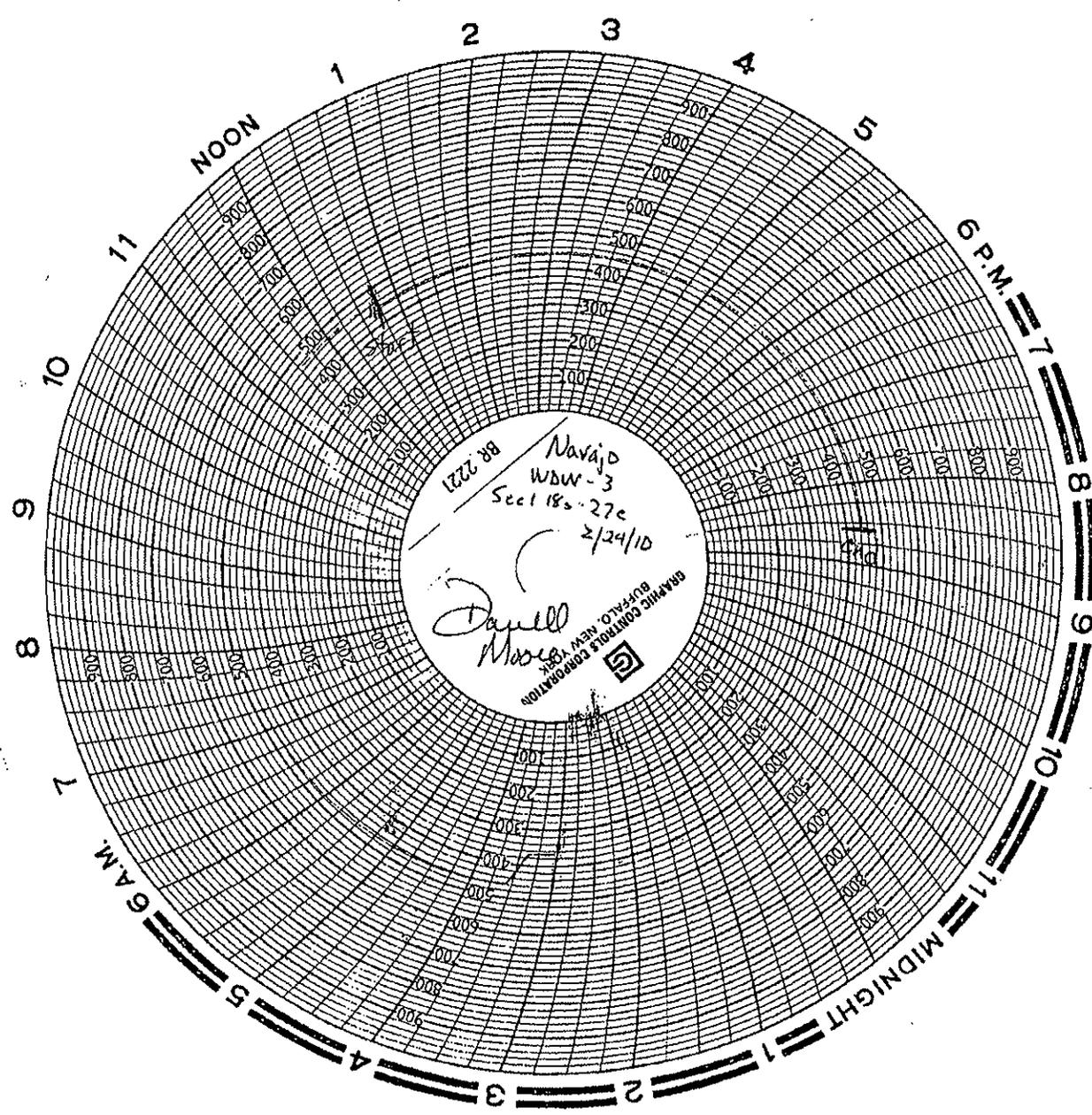
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BR 2221
Navajo
WDW-3
Sect 18s-27e
2/24/10
Dayell
Mason
GRAPHIC CORP'S CORPORATION
BUFFALO, NEW YORK

41a

Chavez, Carl J, EMNRD

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

Darrell:

Thanks for the notification.

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

Please contact me if you have questions. Thanks.

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

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

Carl

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

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

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Chavez, Carl J, EMNRD

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

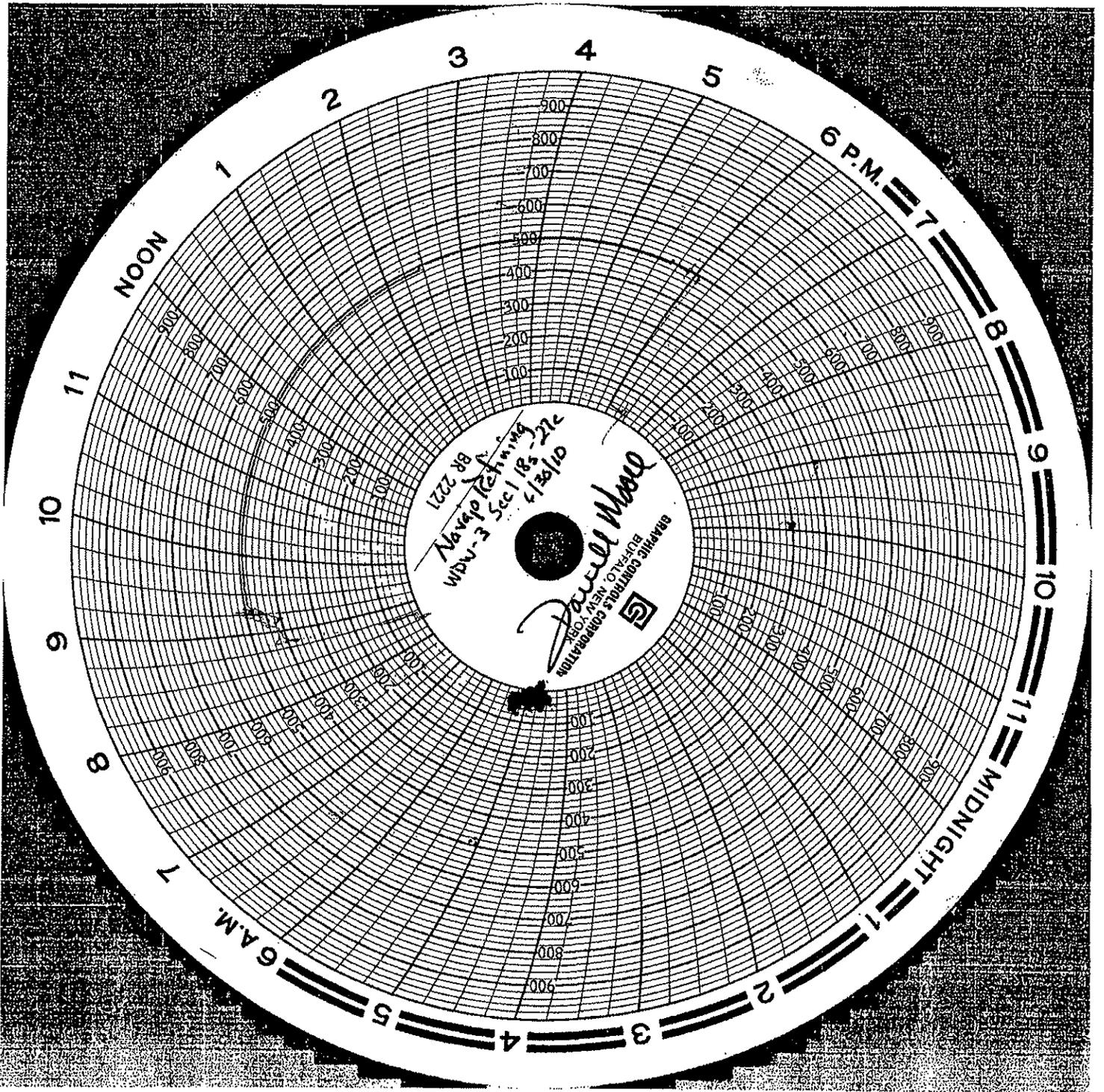
Gentlemen,

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

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

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

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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

Form C-103
 Revised August 1, 2011

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

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.)		WELL API NO. 30-015-26575
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 Navajo Refining Company		6. State Oil & Gas Lease No. NM-0557371
3. Address of Operator Post Office Box 159, Artesia, New Mexico 88211		7. Lease Name or Unit Agreement Name Gaines WDW-3
4. Well Location Unit Letter <u>N</u> : <u>790</u> feet from the <u>South</u> line and <u>2250</u> feet from the <u>West</u> line Section <u>01</u> Township <u>18S</u> Range <u>27E</u> NMMPM County <u>Eddy</u>		8. Well Number WDW-3
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3609' GL, RKB		9. OGRID Number
		10. Pool name or Wildcat: Navajo Permo-Penn

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

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

- December 12, 2011 - Install bottomhole gauges into WDW-1, WDW-2, and WDW-3 by 11:45am. Continue injection into all three wells.
- December 13, 2011 - Continue injection into all three wells.
- December 14, 2011 - At 12:15pm, the offset wells WDW-1 and WDW-2 will be shut-in. A constant injection rate will be established for WDW-3 and continue for a 30 hour injection period. Do not exceed 1000 psig wellhead pressure.
- December 15, 2011 - At 7:00pm, WDW-3 will be shut in for a 30-hour falloff period. WDW-1 and WDW-2 will remain shut-in.
- December 16, 2011 - All three wells will continue to be shut in while monitoring falloff pressure in all three wells.
- December 17, 2011 - At 7:00am, acquire downhole pressure gauges from all three wells. Tag bottom of fill and come out of hole very slowly, making 7-minute gradient stops while coming out of WDW-3 every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Run in hole with a temperature tool and conduct temperature survey from the surface to the top of the fill. Turn the wells back to Navajo personnel.

Spud Date:

Rig Release Date:

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

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

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

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

Chavez, Carl J, EMNRD

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

Darrell:

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

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

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

Comments:

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

Observations:

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

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

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

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

Recommendations:

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

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

Please contact me if you have questions. Thank you.

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

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

Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:

<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)

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 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

Form C-103
 Revised August 1, 2011

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

WELL API NO. 30-015-26575
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. NM-0557371
7. Lease Name or Unit Agreement Name Gaines WDW-3
8. Well Number WDW-3
9. OGRID Number
10. Pool name or Wildcat: Navajo Permo-Penn

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 **Injection Well**

2. Name of Operator
Navajo Refining Company

3. Address of Operator
Post Office Box 159, Artesia, New Mexico 88211

4. Well Location
 Unit Letter **N** ; **790** feet from the **South** line and **2250** feet from the **West** line
 Section **01** Township **18S** Range **27E** NMPM County **Eddy**

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

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

<p>NOTICE OF INTENTION TO:</p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/></p> <p>DOWNHOLE COMMINGLE <input type="checkbox"/></p> <p>OTHER: PERFORM PRESSURE FALLOFF TEST <input checked="" type="checkbox"/></p>	<p>SUBSEQUENT REPORT OF:</p> <p>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/></p> <p>CASING/CEMENT JOB <input type="checkbox"/></p> <p>OTHER: <input type="checkbox"/></p>
---	--

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R. Dade 10/11/11
 Accepted for record
 NMOCD

RECEIVED
 OCT 07 2011
 NMOCD ARTESIA

Spud Date:

Rig Release Date:

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

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

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

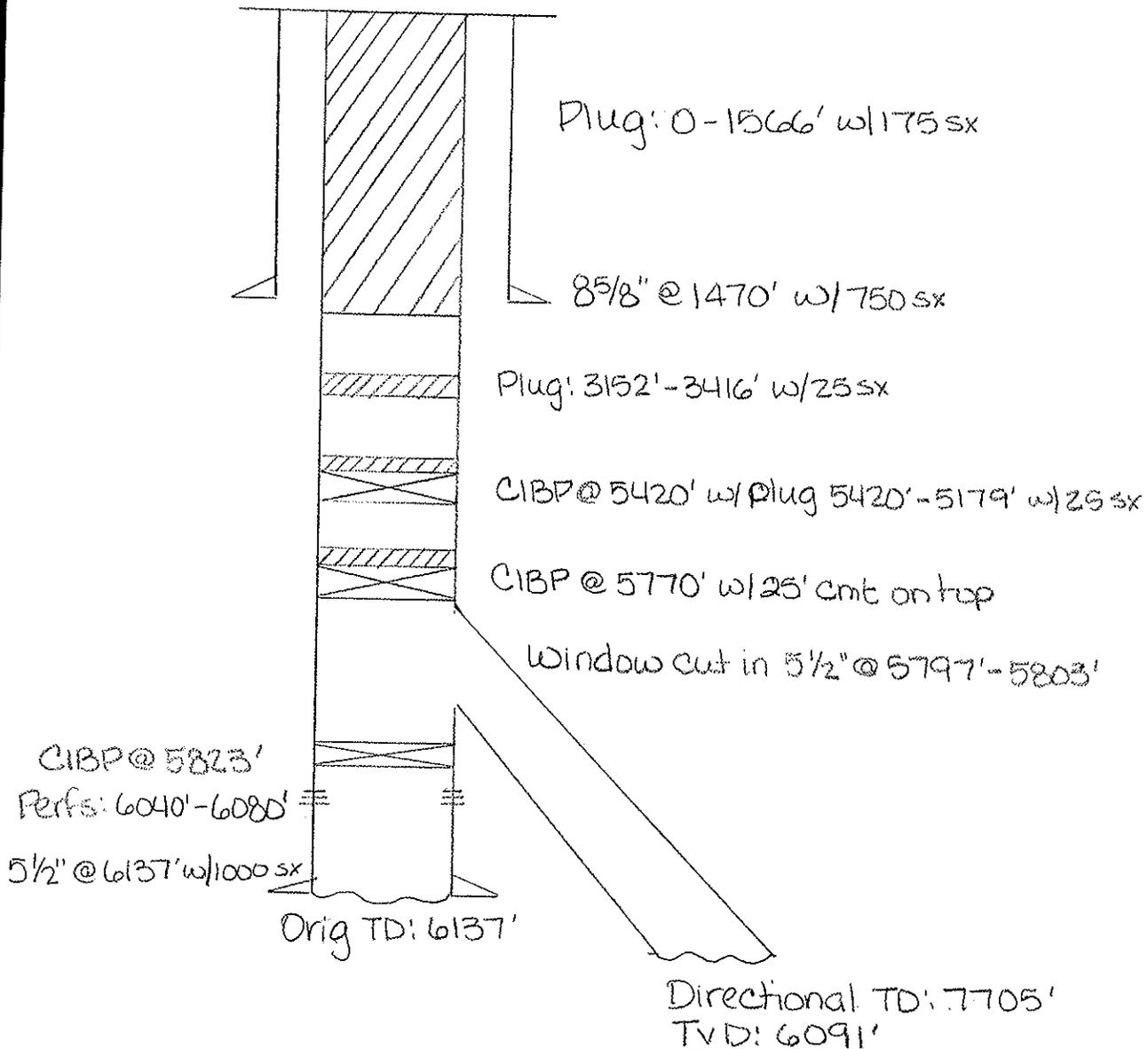
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 90
Artificial Penetration Review

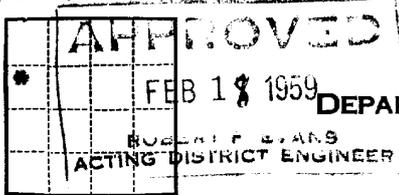
OPERATOR BP America Prod.
LEASE Empire ABO Unit
WELL NUMBER 17A
DRILLED 3-26-59
PLUGGED 12-01-08

STATUS Plugged
LOCATION Sec. 1 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE ~7221' Est.
API NO. 30-015-00703

REMARKS:



COPY TO O. C. C.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces
Lease No. LCC62412
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

1-8F

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

USA MALCO REFINERIES #7*

Water Basin

February 16, 1959

Well No. 1 is located 1980 ft. from S line and 660 ft. from W line of sec. 1

NW/4 SW/4 Section 1 18 - S 27 - E NMPN
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Undesignated Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. furnish logs

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill the above well with rotary tools to an approximate depth of 6200' to test the Abe. Casing program will be as follows:

Size of Hole	Size of Casing	Depth	Cement
11	8-5/8	950	Circulate 2 1/2 Gal with 100 sacks neat on btm.
7-7/8	5-1/2	6135	150

NOTE: Please insert lease number.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address Post Office Box 68
Hobbs, New Mexico

By Original [Signature]
Title Field Superintendent

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128
 Revised 5-1-57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

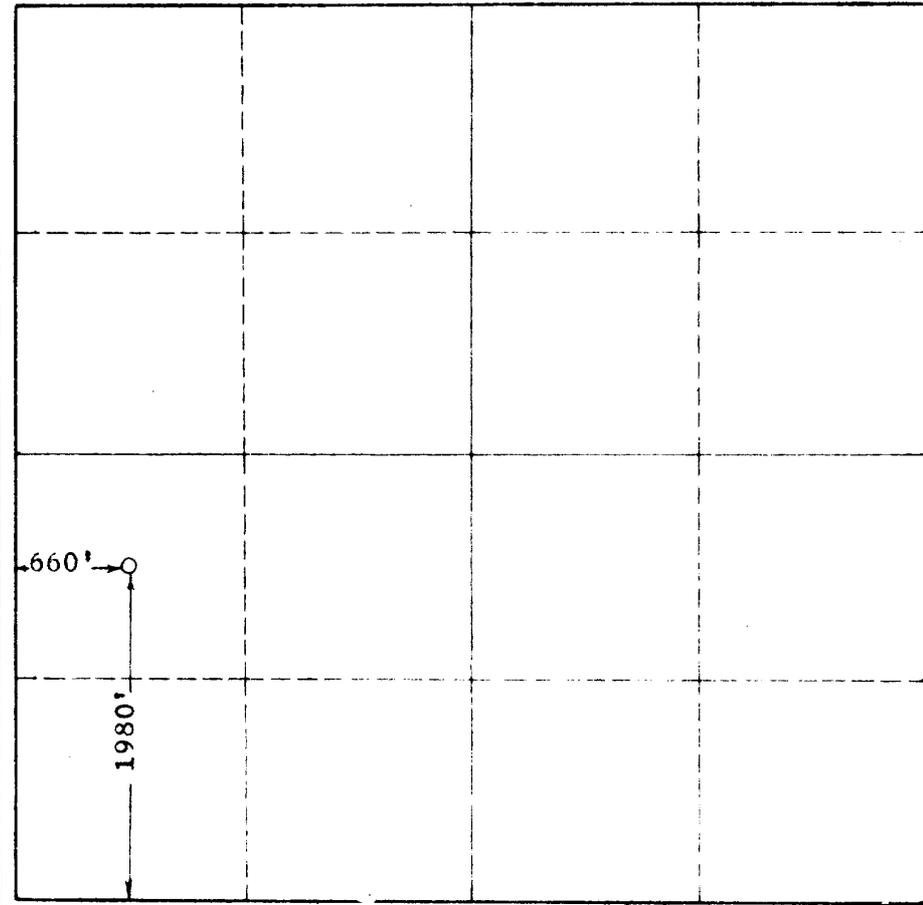
Operator Pan American Pet. Corp.		Lease U.S.A. Malco Refineries F		Well No. 1
Unit Letter L	Section 1	Township 18 S	Range 27 E	County Eddy
Actual Footage Location of Well: 1980 feet from the South line and 660 feet from the West line				
Ground Level Elev. Furnish later	Producing Formation Abo	Pool Empire Abo	Dedicated Acreage: 10 Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1955 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by common agreement of all owners? YES NO If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

RECEIVED
FEB 18 1959
 U. S. GEOLOGICAL SURVEY
 ALBUQUERQUE, NEW MEXICO

Owner	Land Description

SECTION B



CERTIFICATION

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

Name **Original Signed by**
B. W. BROWN

Position
Field Superintendent

Company
Pan American Petroleum Corp.

Date
February 16, 1959

I hereby certify that the well location shown on the plat in SECTION B 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
2-10-59

Registered Professional Engineer and/or Land Surveyor, **JOHN W. WEST**

John W. West

Certificate No.
N.M. - P.E. & L.S. NO. 676

JOHN W. WEST ENGINEERING COMPANY

412 NORTH DAL PASO
HOBBS, NEW MEXICO

February 12, 1959

Pan American Pet. Corp.
Hobbs, New Mexico

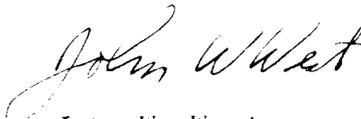
Gentlemen:

On February 10, 1959, a survey was made to locate your U.S.A. Malco Refineries "F" No. 1 well at a point 1980 feet from the South line and 660 feet from the West line of Sec. 1, Township 18 South, Range 27 East, N.M.P.S., Eddy County, New Mexico.

A Flag was set at the USGLO Quarter corner marker common to Sections 1 and 2 and the the Transit was set up at the U.S. G.L.O. Section corner marker common to Sections 1, 2, 11 and 12. Thence chaining North from the Transit on the West line of Section 1 a distance of 1980 feet, thence East 660 feet to the location site of the USA Malco Refineries "F" No. 1 well. As a check on our survey we chained West from the location site 660 feet and thence North 609.5 feet to the USGLO Quarter corner marker common to sections 1 and 2, checking in within 0.6 feet of the distance as shown on the USGLO Township Plats.

I hereby certify that the foregoing survey was made in the field by me and that the same is true and correct to the best of my knowledge and belief.

Respectfully submitted,



John W. West

RECEIVED
FEB 18 1959
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - ~~WELL~~/ALLOWABLE

New Well
~~Recompletion~~

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Hobbs, New Mexico April 24, 1959
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Pan American Petroleum Corp. - Malco Refineries "F", Well No. 1, in NW $\frac{1}{4}$ SW $\frac{1}{4}$,
(Company or Operator) (Lease)
L, Sec. 1, T. 18 S, R. 27 E, NMPM., Empire Abo Pool

Unit Letter
Eddy

County. Chaves Date Spudded 3-26-59 Date Drilling Completed 4-20-59
Elevation 3581 RDB Total Depth 6137 PBD 6101

Please indicate location:

D	C	B	A
E	F	G	H
L X	K	J	I
M	N	O	P

Top Oil/Gas Pay 5460 Name of Prod. Form. Abo

PRODUCING INTERVAL -

Perforations 6040-6080 with 2 shots per foot
Open Hole - Depth 6137 Casing Shoe 6077 Depth Tubing 6077

OIL WELL TEST -

Natural Prod. Test: _____ bbls. oil, _____ bbls water in _____ hrs, _____ min. Size _____
Test After Acid or ~~Fracture~~ Treatment (after recovery of volume of oil equal to volume of load oil used): 82 bbls. oil, no bbls water in 24 hrs, _____ min. Size 10/64"

GAS WELL TEST -

Natural Prod. Test: _____ MCF/Day; Hours flowed _____ Choke Size _____

Sec. 1, T-18-S, R-27-E

1980 S - 660 W
Tubing, Casing and Cementing Record

Size	Feet	Sax
<u>8-5/8</u>	<u>1468</u>	<u>750</u>
<u>5-1/2</u>	<u>6167</u>	<u>1000</u>
<u>2-3/8</u>	<u>6077</u>	

Method of Testing (pitot, back pressure, etc.): _____

Test After Acid or Fracture Treatment: _____ MCF/Day; Hours flowed _____

Choke Size _____ Method of Testing: _____

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): Acidized with 500 gallons 15% regular

Casing Press. PKR Tubing Press. 725 Date first new oil run to tanks 4-20-59

Oil Transporter Malco Refineries Inc.

Gas Transporter _____

Remarks: _____

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

Approved _____, 19____

PAN AMERICAN PETROLEUM CORPORATION
(Company or Operator) Original Signed by
J. W. BROWN

OIL CONSERVATION COMMISSION

By: M. L. Armstrong

By: _____ (Signature)

Title: Field Superintendent
Send Communications regarding well to:

Title _____

Name: J. W. Brown

Address: Box 68 - Hobbs, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Pan American Petroleum Corporation Lease Malco Refineries "F"

Well No. 1 Unit Letter L S 1 T 18 SR 27 E Pool Undesignated

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 18 SR 27 E

Authorized Transporter of Oil or Condensate Malco Refineries Inc.

Address Box 660 - Roswell, New Mexico
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____
Address _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Vented pending market arrangements.

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other _____ ()

Remarks: _____ (Give explanation below)

Completed as an oil well 4-21-59.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 24th day of April 19 59

Approved _____ 19 _____

By _____
Original Signed By
J. W. BROWN

Title Field Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By M L Armstrong

Address Box 68

Title _____

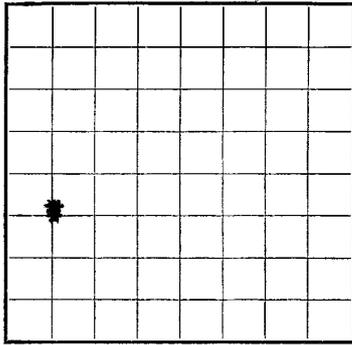
Hobbs, New Mexico

COPY TO O. C. C.

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **LC 062412**
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

APR 23 1959
GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corp.** Address **Box 68 - Hobbs, New Mexico**
Lessor or Tract **USA Malco Refineries "F"** Field **Empire Abo** State **New Mexico**
Well No. **1** Sec. **1** T. **18S** R. **27E** Meridian **NMPM** County **Eddy**
Location **1980** ft. ^[N.] of **S** Line and **660** ft. ^[E.] of **W** Line of **Section 1** Elevation **3581** RDB
(Denote floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.
Original Signed by **L. W. BROWN**
Signed _____

Date **April 23, 1959** Title **Field Superintendent**

The summary on this page is for the condition of the well at above date.

Commenced drilling **3-26**, 19 **59** Finished drilling **4-20**, 19 **59**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **6040** to **6080** No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
8-5/8	24	8	J-55	1468	Float				Surface
5-1/2	22	8	J-55	667	Float				String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	1470	750	HOWCO		
5-1/2	6137	1000	HOWCO		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from **200** feet to **6127** feet and from _____ feet to _____ feet

FOLD MARK

Surface _____ feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed April 21 19 59 Put to producing April 20, 19 59
 The production for the first 24 hours was 82 barrels of fluid of which 160 was oil; _____ %
 emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 42°
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

B. J. Wright _____, Driller R. E. Miles _____, Driller
 J. W. Martin _____, Driller W. E. Tadlock _____, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	387	387	Red Bed
387	600	213	Red Bed, Anhy.
600	1025	425	Anhy.
1025	1463	438	Anhy., Gyp
1463	1521	58	Anhy., Lime
1521	4809	3288	Lime
4809	4822	13	Lime and Dolomite
4822	4844	22	Dolomite
4844	4911	67	Lime
4911	5557	646	Dolomite, Lime
5557	6137	580	Lime
			TOPS
			San Andres - 1830
			Glorieta - 3220
			Abo Reef - 5460

[OVER]

16-43094-4

100-1000

Faint, illegible text, possibly bleed-through from the reverse side of the page.

Original signed by
J. M. BROWN

Well was drilled to a TD of 6137', perforated 6040'-6080' w/2 shots per foot and acidized with 500 gallons 15% regular acid. On test well flowed 82 BO, no water in 24 hrs., (85.3 MCF) gas on 10/64" choke, PPF 725 GOR 1041

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or balling.

HISTORY OF OIL OR GAS WELL

--	--	--	--

NEW MEXICO

OIL CONSERVATION COMMISSION

Post Office Box 2045

Hobbs, New Mexico

May 26, 1959

Pan American Petroleum Corporation
P. O. Box 68
Hobbs, New Mexico

Re: Undesignated Well
Placed in Pool

Gentlemen:

In accordance with the provisions of Commission
Order R-1397, your Malco Refineries "F" No. 1
oil well in Unit L of Section 1, Township 18 South, Range 27
East, which is currently listed in the "Undesignated Section"
of the Proration Schedule, will appear in the Empire-Abo
Pool in the
Schedule.

Please file Form C-110 showing the change in pool
designation of this well with the Artesia office of the Oil
Conservation Commission.

Yours very truly,

OIL CONSERVATION COMMISSION

R. F. Montgomery
Proration Manager

RFM:mg

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

REG-

MAY 25 1959

Company or Operator Pan American Petroleum Corporation Lease Malco Refineries "F"

Well No. 1 Unit Letter L S 1 T 18 R 27 Pool Empire Abo

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 18 R 27E

Authorized Transporter of Oil or Condensate Continental Pipe Line Company

Address Box 367, Artesia, New Mexico
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____

Address _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Vented pending market arrangements

Reasons for Filing: (Please check proper box) New Well _____ ()
Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other Change Transporter ()
(Give explanation below)

Remarks:

Filed to change transporter from Malco Refineries Inc. to Continental Pipe Line Company effective May 1, 1959.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 19th day of May 19 59

Original Signed by
L. W. BROWN

By _____

Approved MAY 25 1959 19 _____

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By [Signature]

Address Box 68 - Hobbs, New Mexico

Title Oil and Gas Inspector

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Pan American Petroleum Corporation Lease Malco Refineries "A"

Well No. 1 Unit Letter L S 1 T 18 R 27 Pool Empire Abo

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 18 R 27

Authorized Transporter of Oil or Condensate Continental Pipe Line Company

Address Box 367 Artesia, New Mexico
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____

Address _____ Date Connected _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Vented pending market arrangements.

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other Change Pool Designation (X)
(Give explanation below)

Remarks:

Filed to show pool designation as Empire Abo.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 29th day of May 19 59

Original Signed by
J. W. BROWN

By _____

Approved JAN 8 1959 19 _____

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By W. A. Gressett

Address Box 68

Title _____

Hobbs, New Mexico

OIL CONSERVATION COMMISSION

ADVISORY DISTRICT OFFICE

No. Copies Issued 5

STATE OF NEW MEXICO

ADVISORY DISTRICT OFFICE

Capital City 1

Santa Fe 1

Proration Office 1

State Land Office

U. S. G. 1

Transporter 1

File 1

PAN AMERICAN PETROLEUM CORPORATION

Post Office Box 68
 Hobbs, New Mexico

April 16, 1959

File: JWM-131-986.510.1

Subject: Request for Exemption to
 Rule 111 Deviation Tests,
 USA Maseo Refineries "F"
 No. 1, Empire Abo Field

New Mexico Oil Conservation Commission (2)
 P. O. Box 871
 Santa Fe, New Mexico

Attention: Mr. D. S. Nutter, Chief Engineer

Gentlemen:

This has reference to your conversation with Mr. N. S. Whitmore of Pan American on April 14, 1959, concerning the deviation test requirements of Rule 111. It is our understanding that the Commission may grant exceptions to the requirement for running a directional survey where computation of the deviation surveys periodically run in conjunction with drilling operations indicates the bottom of hole could not conceivably be off the lease.

Currently, Pan American Petroleum Corporation is drilling their joint interest USA Maseo Refineries "F" No. 1 in the Empire Abo Field. This well was staked 1980 feet from the south line and 660 feet from the west line of Section 1, T-18-S, R-27-E, Eddy County, New Mexico. The projected total depth is approximately 6150 feet. At a depth of 4905 feet a deviation test registered 6-1/2° which was the first deviation recorded above 5°. Since that depth the deviation has varied between 6-1/4° and 6-1/2° with the well currently drilling at approximately 5530 feet.

The attached tabulation furnishes the deviation surveys run on the well to date along with a computation of the drift in a continuous direction. The assumption that the drift would remain in a continuous direction was made to analyze the drift under the least desirable condition to determine if the bottom of the hole were possibly approaching a lease line. That drift would be maintained in a continuous straight line is also considered very unlikely to occur under actual drilling conditions.

These data indicate the horizontal drift from the surface to 5500 feet to be approximately 270 feet. Considering the deviation would remain relatively constant for the remaining 650 feet to be drilled, the maximum anticipated horizontal drift would approach 343 feet. Thus it is indicated that deviations to total depth of the magnitude currently encountered would not place the bottom of the well near a lease line for this 660 foot location.

COPY

1954-1955

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1954-1955

1954-1955

1954-1955

It is therefore respectfully requested that Pan American Petroleum Corporation be granted an exception to Rule 111 for running a directional survey on their USA Maseo Refineries "F" No. 1. Your early consideration of this request will be sincerely appreciated as it is anticipated that drilling operations will be completed by April 18, 1959.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

J. W. Brown
Field Superintendent

By: J. W. Mack

cc: Mr. M. L. Armstrong
New Mexico Oil Conservation Commission
Artesia, New Mexico

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... ..

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DEVIATION SURVEYS
USA MALCO REFINERIES "F" NO. 1

<u>Depth Toteo Run</u>	<u>Interval Between Toteos</u>	<u>Drift Indicated By Toteo</u>	<u>Horizontal Drift Over Interval</u>	<u>Cumulative Horizontal Drift</u>
500'	500'	3/4°	6.55'	6.55'
970'	470'	3/4°	6.15'	12.70'
1350'	380'	3/4°	4.97'	17.67'
1850'	500'	1-3/4°	15.27'	32.94'
2050'	200'	2°	6.98'	39.92'
2380'	330'	1-1/2°	8.64'	48.56'
2970'	590'	1-3/4°	18.02'	66.58'
3410'	440'	2-3/4°	21.11'	87.69'
3745'	335'	3-1/2°	20.45'	108.14'
4050'	305'	3-1/2°	18.62'	126.76'
4350'	300'	4-1/2°	23.45'	150.21'
4555'	205'	4-3/4°	16.98'	167.19'
4650'	95'	4-3/4°	7.87'	175.06'
4805'	155'	6-1/2°	17.55'	192.61'
4990'	185'	6-1/2°	20.94'	213.55'
5115'	125'	6-1/4°	13.61'	227.16'
5245'	130'	6-1/4°	14.15'	241.31'
5380'	135'	6-1/2°	15.28'	256.59'
5500'	120'	6-1/2°	13.58'	270.17'

REVENUE RECEIPTS
STATE OF TEXAS

<u>DATE RECEIVED</u>	<u>AMOUNT RECEIVED</u>	<u>TYPE OF RECEIPT</u>	<u>REVENUE ACCOUNT</u>	<u>STATE FUND</u>
1911.01	100.00	9000	1000	1000
1911.02	100.00	9000	1000	1000
1911.03	100.00	9000	1000	1000
1911.04	100.00	9000	1000	1000
1911.05	100.00	9000	1000	1000
1911.06	100.00	9000	1000	1000
1911.07	100.00	9000	1000	1000
1911.08	100.00	9000	1000	1000
1911.09	100.00	9000	1000	1000
1911.10	100.00	9000	1000	1000
1911.11	100.00	9000	1000	1000
1911.12	100.00	9000	1000	1000
1911.01	100.00	9000	1000	1000
1911.02	100.00	9000	1000	1000
1911.03	100.00	9000	1000	1000
1911.04	100.00	9000	1000	1000
1911.05	100.00	9000	1000	1000
1911.06	100.00	9000	1000	1000
1911.07	100.00	9000	1000	1000
1911.08	100.00	9000	1000	1000
1911.09	100.00	9000	1000	1000
1911.10	100.00	9000	1000	1000
1911.11	100.00	9000	1000	1000
1911.12	100.00	9000	1000	1000

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

April 20, 1959

C
O
P
Y

Pan American Petroleum Corporation
P. O. Box 68
Hobbs, New Mexico

Attention: J. W. Brown

Re: Request for Exception to Rule
111 Deviation Tests, USA Malco
Refineries "F" No. 1, Empire-
Abo Pool.

Gentlemen:

Reference is made to your letter of April 16, 1959, concern-
ing the above-captioned subject.

Inasmuch as the deviation survey which you have run establishes
conclusively that the USA Malco Refineries "F" No. 1 Well will
be bottomed on the lease where it is located, it is my opinion
that the requirements of Rule 111 have been fully complied with.

Accordingly a hearing on this matter is unnecessary.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/OEP/ir

cc: ✓ Mr. M. L. Armstrong
Oil Conservation Commission
Artesia, New Mexico

OLD CONSERVATION COMMISSION
170 South
SANTA FE, NEW MEXICO

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NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Pan American Petroleum Corporation Lease Malco Refineries F

Well No. 1 Unit Letter L S 1 T 18 R 27 Pool Empire Abo

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 18 R 27

Authorized Transporter of Oil or Condensate McWood Corp. (Trucks)

Address 330 Petroleum Building Abilene, Texas

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____

Address _____

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Vented pending market arrangements

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other Change Transporter (X)

Remarks: (Give explanation below)

Filed to change Transporter from Continental Pipe Line Co. to McWood Corp. (Trucks)

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 29 day of May 19 59

Original Signed by
J. W. BROWN

Approved _____ 19 _____

By _____

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company PAPC

By McArmstrong

Address Box 68

Title _____

Hebbs, New Mexico

OIL CONSERVATION COMMISSION

ARTESIA DISTRICT OFFICE

No. Copies Received 1

DISTRIBUTION		
	NO.	
	FURNISHED	
Producers		
State Land Office		
U. S. G. S.		
Transporter	1	
File	1	1

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

SEP 9 1959

Company or Operator Pan American Petroleum Corporation Lease USA Mace Refineries P

Well No. 1 Unit Letter L S 1 T 188 R 27E Pool Empire Abo

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit P S 1 T 188 R 27E

Authorized Transporter of Oil or Condensate Service Pipe Line Co., Box 337, Midland, Texas

Address _____
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Gas Vented

Address _____ Date Connected _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Gas Flared

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other _____ ()

Remarks: _____ (Give explanation below)

Change in transporter from McWood Corporation (Trucks) to Service Pipe Line Co., effective 9-10-59

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 8 day of September 19 59

By _____
Original Signed by
J. W. BROWN

Approved SEP 10 1959 19 _____

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By M. L. Armstrong

Address Box 68 - Hobbs, NM

Title _____

[Faint, illegible text, possibly a header or title area]

OIL CONSERVATION COMMISSION	
ARTESIA DISTRICT OFFICE	
No. Copies Received	3
DATE	
RECEIVED FOR	
BY	
PROJECT	
STATE	
U. S. G.	
WORK NUMBER	
FIELD OF MINES	✓

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

RECEIVED

NAME CHANGED:
FROM: PAN AMERICAN PETROLEUM CORPORATION
TO: AMOCO PRODUCTION CO.
EFFECTIVE: 2-1-71

SEP 19 1960

O. C. C.
ARTESIA, OFFICE

Company or Operator Pan American Petroleum Corporation Lease Amoco 17 Federal

Well No. 1 Unit Letter L S 1 T 123 R 27E Pool Empire Abs

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 123 R 27E

Authorized Transporter of Oil or Condensate Amoco Pipeline Co. Eff. 4/1/70 name change from

Address 3411 Knoxville Avenue Lubbock, Texas 79413 Service to Amoco Pipeline Co.

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Empire Abs Gasoline Plant

Address Pan American Petr. Corp., Box 68, Hobbs, N.M. Date Connected 9-3-60

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Effective 2-1-71

Gas Transporter Name Changed:

From: Pan American Petroleum Corp.

To: Amoco Production Co.

Reasons for Filing: (Please check proper box) New Well ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head (x) Condensate ()

Change in Ownership () Other ()

Remarks: (Give explanation below)

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 14th day of September 19 60

Original Signed by
By J. W. BROWN

Approved SEP 15 1960 19 60

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By M. Armstrong

Address Box 68

Title Area Superintendent

Hobbs, New Mexico

NEW MEXICO
OIL CONSERVATION COMMISSION
P. O. DRAWER DD
ARTESIA, NEW MEXICO

March, 1968

No. A 1

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE 3/1/68

PURPOSE: ALLOWABLE ASSIGNMENT (BACK ALLOWABLE)

Effective 3/1/68, back allowable is hereby assigned to the following
Pan American Petr. Corp. wells in the Empire Abo Pool in accordance
with Commission Order No. A-220.

Malco F Lease

#1-L, 1-18-27,	18 bbls total
#2-E, "	, 18 bbls total
#3-M, "	, 18 bbls total
#4-F, "	, 15 bbls total
#5-K, "	, 16 bbls total
#6-B, "	, 18 bbls total
#7-G, "	, 18 bbls total
#8-C, "	, 18 bbls total
#9-H, "	, 18 bbls total
#11-A, "	, 18 bbls total
#12-N, "	, 18 bbls total

Malco R Lease

#10-D, 1-18-27, 18 bbls total

NAME CHANGED:
FROM: PAN AMERICAN PETR. CORP.
TO: AMOCO PRODUCTION CO.
EFFECTIVE: 2-1-71

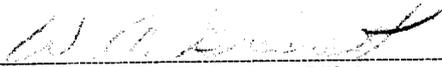
WAG/jw

Pan Am. Petr. Corp.

Service

Amoco 4-1-70

OIL CONSERVATION COMMISSION


SUPERVISOR, DISTRICT NO. 2

EXTRA COPY

RECEIVED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC 062412

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

MALCO "F" Federal

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

EMPIRE A80

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

1-18-27 NMDPM

12. COUNTY OR PARISH

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.
APPLICATION FOR PERMIT--" for such proposals.)

1. ARTESIA, OFFICE

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Amoco Production Company

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

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

1980' FSL x 660' FWL Sec 1 (Unit 4, NW/4 SW/4)

14. PERMIT NO.

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

3581' R.D.B.

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.)*

In an effort to increase productivity propose to acidize perforations 6040-6080' w/ 2500 gal 15% NE. Evaluate and restore to production.

latest flow test 4-20-72, 102 BO+ OBW 24 hrs. GOR 961.

TD-6137
PBD-6101

5 1/2" CSA 6137 - Cmt Circ.

PERFS: 6040-80' w/2USPF.

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

SIGNED

AREA SUPERINTENDENT

TITLE

DATE

MAY 8 1972

(This space for Federal or State use)

APPROVED BY

TITLE

DATE

- 014- USGS- Art
- 1- Div
- 1- SUSP
- 1- RRY
- 1- HONDO

APPROVED
MAY 12 1972
R. L. BECKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

RECEIVED
MAY 24 1972

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS LOCATION
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-0557371

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.
See also space 17 below.)

1. OIL WELL WATER WELL OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Amoco Production Company

8. FARM OR LEASE NAME
MARCO "F" Federal

3. ADDRESS OF OPERATOR
BOX 69, HOBBS, N. M. 88240

9. WELL NO.

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

10. FIELD AND POOL, OR WILDCAT

EMPIRE Acs

1980' Fsk x 660' Fwh Sec 1 (Unit L, NW/4 SW/4)

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

1-18-27 NMPM

14. PERMIT NO.

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

3581' R.D.B.

12. COUNTY OR PARISH; 13. STATE

EDDY NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input checked="" type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Perforations 6040-80' were acidized w/ 2500 gal 15% HF acid. Evaluated & restored to prod.

Prior - Flow 102 BO +0 BW 24 hrs. GOR 96/
After - Flow 152 BO +0 " " " GOR 691

RECEIVED

MAY 19 1972

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED _____

TITLE AREA SUPERINTENDENT

DATE MAY 17 1972

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

0+4- USGS-ART
1- DIV
1- SUSP
1- HONDU

APPROVED
MAY 25 1972
M. L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

RECEIVED

SEP 26 1973

STATE	1
TYPE	1
S.C.S.	
AND OFFICE	
TRANSPORTER	OIL 1 GAS 1
OPERATOR	1
PRODUCTION OFFICE	

Operator
Atlantic Richfield Company /

Address
P. O. Box 1710, Hobbs, New Mexico 88240

Reason(s) for filing (Check proper box)
 New Well Change in Transporter of:
 Recompletion Oil Dry Gas
 Change in Ownership Casinghead Gas Condensate

Other (Please explain) **Included in Empire Abo Unit eff: 10-1-73. Change in lease name from MALCO F Federal #1.**

If change of ownership give name and address of previous owner
AMOCO Production Company P. O. Box 68, Hobbs, New Mexico

II. DESCRIPTION OF WELL AND LEASE

Lease Name Empire Abo Unit K	Well No. 17	Pool Name, including Formation Empire Abo	Kind of Lease State, Federal or Fee Federal	Lease No.
Location Unit Letter L , 1980 Feet From The South Line and 660 Feet From The West				
Line of Section 1 Township 18S Range 27E , NMPM, Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> AMOCO Pipe Line Company	Address (Give address to which approved copy of this form is to be sent) 2300 Continental Bk. Bldg., Ft. Worth, Tex. 76102	
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> AMOCO Production Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 68, Hobbs, New Mexico 88240	
If well produces oil or liquids, give location of tanks.	Unit F Sec. 1 Twp. 18S Rng. 27E	Is gas actually connected? yes When 9-3-60

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								
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 allow able 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.)	
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 (pitot, back pr.)	Tubing Pressure (Shot-in)	Casing Pressure (Shot-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

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

OIL CONSERVATION COMMISSION
SEP 28 1973

APPROVED _____, 19____
BY W. A. Gressett
TITLE **OIL AND GAS INSPECTOR**

A. L. Shackelford

(Signature)

Sr. Acctg. Clerk

(Title)

9-26-73

(Date)

This form is to be filed in compliance with RULE 111.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviated tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiple completed wells.

Supersedes Old
C-102 and C-103
Effective 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
RECEIVED

NOV - 6 1978

O. C. C.

SUNDRY NOTICES AND REPORTS ON WELLS ARTESIA, OFFICE.

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO RE-DRILL OR RE-LEASE TO A DIFFERENT RESERVE.)
(SEE APPLICATION FOR PERMIT - 1030112-101 FOR SUCH PROPOSALS.)

REGISTRATION		
LEASE NO.		
WELL NO.		
FIELD OFFICE		
OPERATOR		

5a. Indicate Type of Lease **Fed**
State **X**

5. State Oil & Gas Lease No.

7. Unit Agreement Name
Empire Abo Unit

8. Form of Lease Name
PAV "NK"

9. Well No.
17

10. Field and Pool, or Wildcat
Empire Abo

12. County
Eddy

1. OIL WELL GAS WELL OTHER

2. Name of Operator
Atlantic Richfield Company

3. Address of Operator
P. O. Box 129 Artesia, New Mexico 88210

4. Location of Well
UNIT LETTER **L**, **1920** FEET FROM THE **South** LINE AND **660** FEET FROM
West LINE, SECTION **1**, TOWNSHIP **18S** RANGE **27E** NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
KB 3581'

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

<input type="checkbox"/> PERM REMEDIAL WORK	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> REMEDIAL WORK	<input type="checkbox"/> ALTERING CASING
<input type="checkbox"/> TEMPORARILY ABANDON	<input type="checkbox"/> CHANGE PLANS	<input type="checkbox"/> COMMENCE DRILLING OPNS.	<input type="checkbox"/> PLUG AND ABANDONMENT
<input type="checkbox"/> REPAIR OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/> CASING TEST AND CEMENT JOBS	<input type="checkbox"/>
<input type="checkbox"/> OTHER	<input type="checkbox"/>	OTHER _____	<input type="checkbox"/>

Piping braden head to surface.

17. 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.

Piping braden head to surface.

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

SIGNED: *D.H. Smith* TITLE: Dist. Prod. Supervisor DATE: 10-31-78

APPROVED BY: *B.W. Weaver* TITLE: Field Rep DATE: 11-8-78

CONDITIONS OF APPROVAL, IF ANY:

DISTRIBUTION		6
SANTA FE		1
FILE		1
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	1
	GAS	2
OPERATOR		1
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
 REQUEST FOR ALLOWABLE
 AND
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

RECEIVED

MAR 14 1979

Operator	ARCO Oil and Gas Company - Division of Atlantic Richfield Company		O. C. C.
Address	P. O. Box 1710, Hobbs, New Mexico 88240		ARTESIA, OFFICE
Reason(s) for filing (Check proper box)	Other (Please explain)		
New Well <input type="checkbox"/>	Change in Transporter of: Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>	Change in Operator Name effective: 4-1-79	
Recompletion <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>		
Change in Ownership <input type="checkbox"/>			

If change of ownership give name
and address of previous owner

I. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease
Empire Abo Unit "K"	17	Empire Abo	State, Federal or Fee <i>Federal</i>
Location			
Unit Letter		Feet From The	Line and
L	1980	South	460 West
Line of Section	Township	Range	NMPM, County
1	18S	27E	Eddy

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)					
Amoco Pipeline Company	2300 Continental National Bank Bldg. Ft. Worth, Texas 76102					
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)					
Amoco Production Company Phillips Petroleum Company	P.O. Drawer A, Levelland, Texas 79338 4001 Penbrook, Odessa, Texas 79760					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
	F	1	18	27	yes	AMO & PP 9-3-60

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

V. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
No Change								
Date Spudded	Date Compl. Ready to Prod.	Total Depth		P.B.T.D.				
No Change								
Pool	Name of Producing Formation	Top Oil/Gas Pay		Tubing Depth				
No Change								
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 Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
No Change			
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 (pitot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size

VI. CERTIFICATE OF COMPLIANCE

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

OIL CONSERVATION COMMISSION

APR 09 1979

APPROVED

BY

W. A. Gressitt

George V. Parks

(Signature)

District Prod & Drlg Supt.

(Title)

3-7-79

(Date)

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 deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply

C/ST
LT
5/1/94

District I
PO Box 1900, Hobbs, NM 88241-1900
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address ARCO Permian A Unit of Atlantic Richfield Co. P.O. Box 1710 Hobbs, NM 88240		OGRID Number 000990
		Reason for Filing Code JUL 1 1994 CH
API Number 30 - 015 - 00703	Pool Name Empire ABO	Pool Code 22040
Property Code C01474	Property Name Empire ABO Unit "K"	Well Number 17

II. Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West line	County
L	1	18S	27E		1980	S	660	W	Eddy

Bottom Hole Location

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

Lea Code F	Producing Method Code F	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date
---------------	----------------------------	---------------------	---------------------	----------------------	-----------------------

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
000734	AMOCO Pipeline 502 NW Avenue Levelland, TX 79336	2811057	O	D-10 FT-18S-27E
000756	AMOCO Production Co. P.O. Box 68 Hobbs, NM 88240	2811047	G	F-1"18S-27E
009171	GPM Gas Corp. 4001 Penbrook Odessa, TX 79760	2811047	G	"

IV. Produced Water

POD	POD ULSTR Location and Description
-----	------------------------------------

V. Well Completion Data

Spud Date	Ready Date	TD	PSTD	Perforations
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement	

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Cap. Pressure
Choke Size	Oil	Water	Gas	AOF	Test Method

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

OIL CONSERVATION DIVISION

Signature: <i>Kellie D. Murrish</i>		Approved by: SUPERVISOR, DISTRICT II	
Printed name: Kellie D. Murrish		Title:	
Title: Records Clerk II		Approval Date: JUN 6 1994	
Date: 6-1-94	Phone: 505-391-1649		
* If this is a change of operator fill in the OGRID number and name of the previous operator			
Previous Operator Signature		Printed Name	
		Title	
		Date	

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

NM OIL CONS COMMISSION *clsf*
Drawer DD FORM APPROVED
Artesia, NM 88210 Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
LC-062412 NM 055737

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
EMPIRE ABO UNIT "K" # 17

9. API Well No.
30-015-00703

10. Field and Pool, or exploratory Area
EMPIRE ABO

11. County or Parish, State
EDDY NM

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.
P.O. BOX 1610, MIDLAND, TX 79702 915 688-5672

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980 FSL & 660 FWL (UNIT LETTER L)
1-18S-27E

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

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

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

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

PROPOSE TO ADD HORIZONTAL DRAINHOLE AS FOLLOWS:

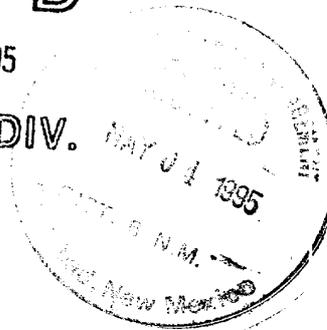
1. POH W/PROD CA.
2. SET RETRIEVABLE WHIPSTOCK.
3. SIDETRACK & DRILL 250' RADIUS CURVE.
4. DRILL 1000' HORIZONTAL LATERAL.
5. RETRIEVE WHIPSTOCK.
6. RIH W/PROD CA.

RECEIVED

MAY - 9 1995

OIL CON. DIV.
DIST. 2

subject to
Like Approval
by State (CC)



14. I hereby certify that the foregoing is true and correct
Signed Ken W Gosnell Title AGENT Date 05-03-95

(This space for Federal or State office use)
Approved by (ORIG. SCD.) JOE G. LARA Title PETROLEUM ENGINEER Date 5/5/95
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

HORIZONTAL SIDETRACK PROCEDURE

DATE: May 1, 1995

WELL: Empire Abo #K-17 DRILLED: 1959 FIELD: Empire Abo COUNTY: Eddy, NM

BY: P.N. Drennon TD: 6,137' PBD: 6,101' DATUM: 12' KB

CASING:	SIZE	WEIGHT	GRADE	SET @	SX CMT	TOC
SURFACE:	8 5/8"	24#	J-55	1,470'	750	surf-circ
PROD:	5 1/2"	14#	J-55	6,137'	1,000	surf-circ

PERFORATIONS: Open perms: Abo 6,040'-6,080'

HISTORY AND BACKGROUND: Drilled in 1959, completed as a flowing oil well from the Abo.

SCOPE OF WORK: Set retrievable whipstock, sidetrack and drill 250' radius build curve, 1,000' horizontal lateral, retrieve whipstock, complete as flowing/pumping well from existing Abo perms and new horizontal lateral.

TARGET INFORMATION:	Whipstock Depth:	5,810'
	Kickoff Point:	Same as above
	Azimuth:	E (90°)
	Target Depth:	6,060'
	Planned Displacement:	Total 1,250'
	Surface Location:	1,980' FSL, 660' FWL, Sec. 1, T-18-S, R-27-E, Eddy Co., N.M.

PROCEDURE

1. MIRU PU, pump, swivel, pits. Install H₂S safety equipment. Pull rods and pump, warehouse same. ND tree, NU BOPE. Pull tubing, LD and warehouse.
2. PU 4 3/4" bit and scraper, 10 3-1/2" DC, 2 7/8" AOH DP, TIH to PBTD 6,101, circulate @ TD if necessary. RU & run gyro multi-shot survey via DP. RD survey equipment, TOOHL, LD bit and scraper.
3. GIH w/ packer and set in vicinity of 5,800'.
4. Test casing and stack to 750 psig.
5. PU anchor, whipstock assembly w/ starter mill, BHA, TIH, hydraulically set anchor @ 5,810'.

Note: Oriented assembly, azimuth E (compass 90°) per O/A Engineer (Gary Smallwood).

6. Shear off whipstock assembly w/ starter mill. Mill out casing and shear bolt assembly to start window, use Abo produced water for circulation. Use polymer additions for additional lift if necessary.
7. TOOHL, LD starter mill, PU window mill, 1 jt S-135 AOH DP, BHA, TIH.
8. Finish cutting window, drill out into open hole, circulate clean.
9. TOOHL, LD window mill and inspect for proper wear. PU window mill, watermelon mill, BHA.

Note: Air/foam package to be on location at this point.

10. TIH, clean and dress window, drill 8-10' formation, circulate clean.

11. TOO, LD window and watermelon mills, check for proper wear. PU 4 3/4" drag bit, bent housing motor, bent sub, non-mag DC, 2 7/8" 8.7# PH-6 tbg DC's (minimum 2 DC's in casing @ TD of build curve), TIH.
12. Displace hole w/ stiff foam (expect 700-800 SCF/min w/ 1.75 BPM water w/ 8-10 gal/1000 foamer).
13. RU wet connect, steering tool, land same, drill build curve, plan to drill 23°/100' build rate (radius 250') to max angle of 87°- 90°- from vertical.
14. RD steering tool/wet connect, TOO, LD build motor, PU packer on DP, TIH, set packer @ ±5,700'.
15. Open by-pass, jet via DP to kick-off and test production from build curve. If necessary, polymer squeeze build curve to shut off excess gas production.
16. TOO, LD packer, PU 4 3/4" bit, hold motor, Monel DC, 2 7/8" tbg. DC's (minimum 9 DC's in casing @ TD), DP, TIH, RU wet connect, steering tool, land same drill lateral ±1,000' due East. All drilling done w/ stiff foam.
17. TOO, LD BHA, PU tbg to go to end of lateral, DP, TIH.
18. Stage in and blow hole w/ air to unload foam, @ EOC blow hole dry, load to kill w/ produced water, TOO.
19. PU CA and production tubing, TIH.
20. Swab to KO well, test.
21. Kill well w/ produced water, TOO w/ CA.
22. PU die collar, 4 3 1/2" DC, tubing, TIH, latch and release packer stock, TOO, LD packer stock, die collar, DC's.
23. TIH w/ CA and production tubing.
24. Swab to KO well, test.
25. If recommended, TIH to EOL w/ 1 1/4" coil tubing, spot 15% HCl w/ adds throughout lateral, POOH w/ coil tubing.
26. Swab to KO well, test.
27. TOPS

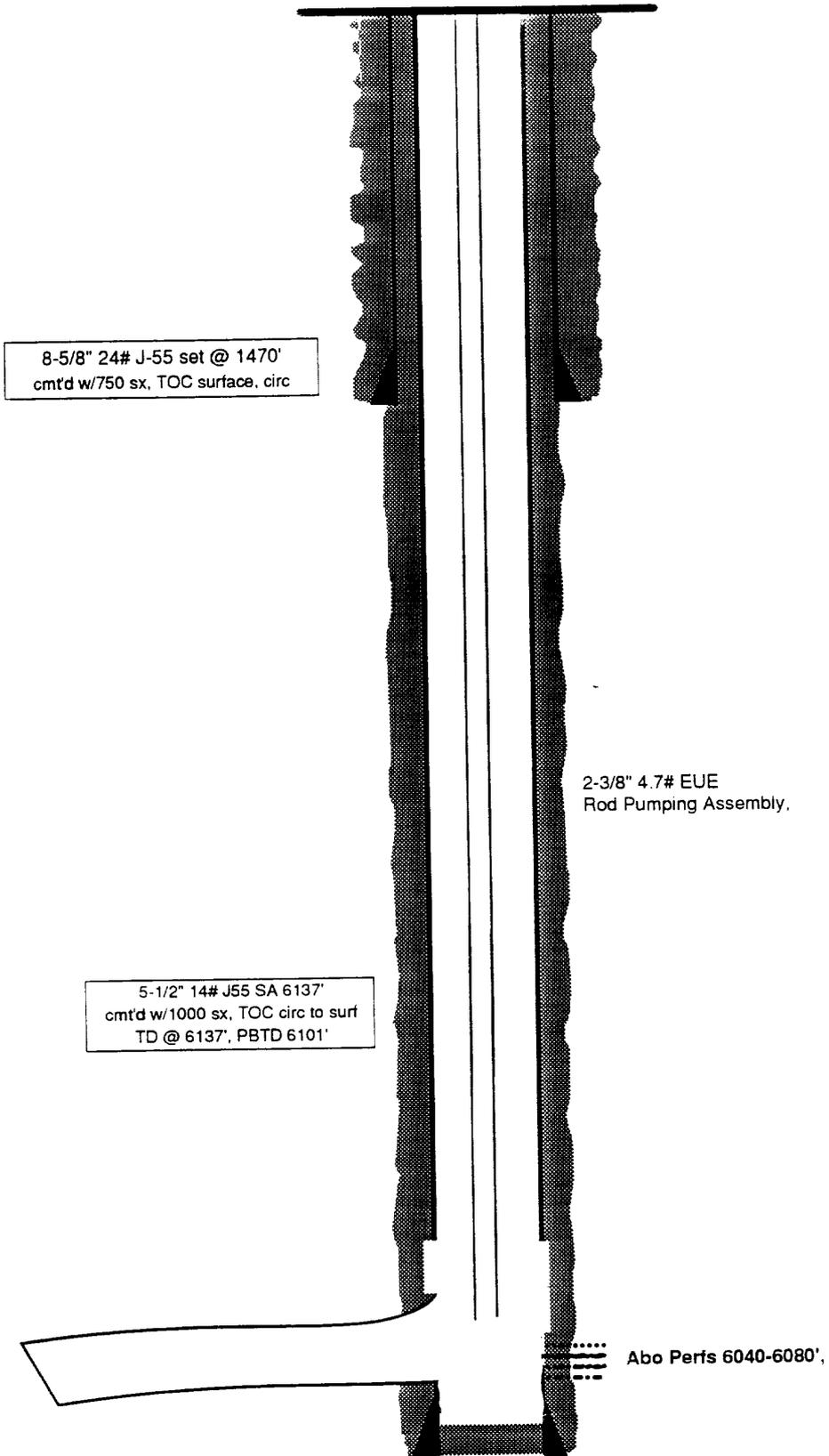
P. N. Drennon

J. E. Shields

EMPIRE ABO K-17

Proposed Status

Drilled 1959



disf

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Drawer DD

Artesia, NM 88210

FOR 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.
LC-062412

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation
8910138010

8. Well Name and No.
EMPIRE ABO UNIT K-17

9. API Well No.
30-015-00703

10. Field and Pool, or exploratory Area
EMPIRE ABO

11. County or Parish, State
EDDY NM

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.
P.O. Box 1710 Hobbs, N.M. 88240 505-391-1649

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FSL & 660' FWL, Unit Letter L
Sec. 1, T18S, R27E

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

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

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

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

TD: 6137' PBD: 6101' PERFS: 6040-6080' CIBP ABOVE PERFS @ 5823'. WHIPSTOCK @ 5782'.
TOP OF WINDOWS @ 5797', BOTTOM OF WINDOW @ 5803'. HORIZONTAL 5800-7705'

06/21/95: ACIDIZE HORIZONTAL EXTENTION 5800-7705 W/2500 GALS 15% NEFE ACID AND 2500 GALS
CONDENSATE. DISPLACED ACID/CONDENSATE WHILE MOVING C.T. ALONG HORIZONTAL. FLUSH W/20 BPW.

RECEIVED

SEP 12 1995

OIL CON. DIV.
DIST. 2

ACCEPTED FOR RECORD
J. Lara
8 1995

RECEIVED
AUG 16 10 58 AM '95

RECEIVED

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

Signed Karen D. Murrell Title Administrative Assistant Date 8/15/95

(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

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4 - If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

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

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

PRINCIPAL PURPOSE - The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operation, on a Federal or Indian lease.

ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION - Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that:

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

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory only for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT - " for such proposals

CLSF

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

5. Lease Designation and Serial No.

LC-062412 NW 0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA. Agreement Designation

8. Well Name and No.
EMPIRE ABC UNIT "K" 17

9. API Well No.
30-015-00703

10. Field and Pool, or exploratory Area
EMPIRE ABC

11. County or Parish, State
EDDY NM

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.
P.O. BOX 1610, MIDLAND, TX 79702 915 688-5672

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980 FSL & 660 FWL (UNIT LETTER L)

1-18S-27E

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

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

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

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

05-22-95. RUPU. POH W/PROD CA. RIH W/4 3/4 BIT TO 6099 PBD. SET CIBP AT 5830. RIH W/WHIPSTOCK. RAN GYRO SURVEY F/SURF-5798. SET WHIPSTOCK PKR ASSEMBLY AT 5812. CUT 6' WINDOW IN 5 1/2 CSG(5797-5803). DIRECTIONAL DRILLED TO 7705 MD. **RECEIVED**
RIH W/PROD CA:2 3/8 TBG & PKR TO 5906. PKR SET AT 5772. RDPU 06-13-95

DEC 18 1995

ACCEPTED OIL CON. DIV.
DIST. 2
DEC 14

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

Signed Kenneth Gosnell

Title AGENT

Date 11-16-95

(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

Date: 6/8/1995 Time: 7:28: 6

PAGE: 1

Filename: "ARCO.SRV" Description: "ARCO PERMIAN EMPIRE ABO UNIT K17 RE-ENTRY
 HORIZONTAL WELL NW/4 SW/4 SEC 1 T18S R27E EDDY COUNTY, NEW MEXICO
 "

Target Coordinates: 23.6 N 1064.3 E Target TVD: 6048.600
 Using Minimum Curvature Method.

S #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUE		RECTANGULAR COORDINATES (feet)	DOGLEG -SEVERITY DG/100FT
					VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)		
0	5700.0	5.15	346.670	0.0	5689.8	0.0	210.9 N 168.9 W	0.00
1	5798.0	4.73	350.130	98.0	5787.5	-165.7	219.2 N 170.6 W	0.53
2	5828.0	8.60	48.200	30.0	5817.3	-164.2	221.9 N 169.1 W	24.31
3	5857.0	17.10	64.500	29.0	5845.6	-158.6	225.2 N 163.7 W	31.59
4	5887.0	23.60	76.700	30.0	5873.7	-148.7	228.5 N 153.8 W	25.77
5	5918.0	27.90	93.300	31.0	5901.6	-135.4	229.5 N 140.5 W	26.96
6	5948.0	33.70	97.900	30.0	5927.4	-120.2	228.0 N 125.3 W	20.85
7	5979.0	42.70	97.000	31.0	5951.7	-101.2	225.5 N 106.3 W	29.09
8	6011.0	51.40	95.200	32.0	5973.5	-78.0	223.0 N 83.0 W	27.50
9	6043.0	59.60	96.100	32.0	5991.6	-51.9	220.4 N 56.8 W	25.73
10	6074.0	58.70	97.300	31.0	6007.5	-25.5	217.3 N 30.3 W	4.41
11	6106.0	64.20	100.300	32.0	6022.8	2.1	213.0 N 2.6 W	19.06
12	6136.0	69.40	105.500	30.0	6034.6	28.8	206.8 N 24.3 E	23.54
13	6167.0	76.70	106.200	31.0	6043.7	57.2	198.7 N 52.8 E	23.65
14	6198.0	84.00	104.500	31.0	6048.9	86.4	190.7 N 82.2 E	24.16
15	6230.0	87.00	103.700	32.0	6051.4	117.2	182.9 N 113.2 E	9.70
16	6262.0	87.70	103.200	32.0	6052.8	148.1	175.5 N 144.2 E	2.69
17	6293.0	87.80	103.700	31.0	6054.1	178.1	168.2 N 174.4 E	1.64
18	6323.0	88.10	104.700	30.0	6055.1	207.0	160.9 N 203.4 E	3.48
19	6355.0	87.80	105.200	32.0	6056.3	237.7	152.6 N 234.3 E	1.82
20	6387.0	86.10	103.100	32.0	6058.0	268.5	144.8 N 265.3 E	8.44
21	6418.0	86.00	103.200	31.0	6060.1	298.4	137.8 N 295.4 E	0.46
22	6450.0	85.70	103.200	32.0	6062.4	329.3	130.5 N 326.5 E	0.94
23	6481.0	85.70	103.300	31.0	6064.8	359.2	123.4 N 356.6 E	0.32
24	6512.0	87.20	101.700	31.0	6066.7	389.3	116.7 N 386.8 E	7.07
25	6544.0	87.00	101.000	32.0	6068.3	420.5	110.4 N 418.1 E	2.27
26	6574.0	86.50	100.800	30.0	6070.0	449.8	104.8 N 447.5 E	1.79
27	6604.0	86.50	100.900	30.0	6071.8	479.0	99.1 N 477.0 E	0.33
28	6636.0	88.00	99.300	32.0	6073.4	510.4	93.5 N 508.4 E	6.85
29	6666.0	87.70	99.000	30.0	6074.5	539.9	88.8 N 538.0 E	1.41
30	6697.0	87.40	99.200	31.0	6075.8	570.3	83.9 N 568.6 E	1.16
31	6758.0	88.10	99.400	61.0	6078.2	630.2	74.0 N 628.7 E	1.19
32	6819.0	88.10	100.200	61.0	6080.2	690.1	63.6 N 688.8 E	1.31
33	6848.0	87.90	100.300	29.0	6081.2	718.5	58.5 N 717.3 E	0.77
34	6909.0	88.80	98.400	61.0	6083.0	778.4	48.6 N 777.5 E	3.45
35	6939.0	88.50	98.500	30.0	6083.7	808.0	44.2 N 807.2 E	1.05

S #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUE VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)	RECTANGULAR COORDINATES (feet)	DOGLEG SEVERITY DG/100FT
36	7001.0	89.60	98.300	62.0	6084.7	869.1	35.1 N 868.5 E	1.80
37	7062.0	86.60	95.700	61.0	6086.8	929.4	27.7 N 929.0 E	6.51
38	7152.0	89.80	96.500	90.0	6089.6	1018.6	18.1 N 1018.4 E	3.66
39	7214.0	91.30	96.300	62.0	6089.0	1080.0	11.2 N 1080.0 E	2.44
40	7276.0	92.40	96.100	62.0	6087.0	1141.5	4.5 N 1141.6 E	1.80
41	7336.0	92.60	96.500	60.0	6084.4	1200.9	2.1 S 1201.2 E	0.74
42	7362.0	92.90	96.400	26.0	6083.1	1226.6	5.0 S 1227.0 E	1.22
43	7427.0	92.20	97.100	65.0	6080.2	1290.9	12.6 S 1291.5 E	1.52
44	7458.0	90.00	97.600	31.0	6079.6	1321.6	16.6 S 1322.3 E	7.28
45	7520.0	88.30	97.700	62.0	6080.6	1382.8	24.8 S 1383.7 E	2.75
46	7583.0	87.10	98.100	63.0	6083.1	1444.9	33.5 S 1446.0 E	2.01
47	7641.0	86.40	98.500	58.0	6086.4	1502.0	41.8 S 1503.3 E	1.39
48	7672.0	85.80	98.900	31.0	6088.5	1532.5	46.5 S 1533.9 E	2.32
--- Survey #49 is Projected to TD!								
49	7705.0	85.20	98.900	33.0	6091.1	1564.9	51.6 S 1566.4 E	1.82
--- Final Closure Direction:				91.887				
--- Final Closure Distance:				1567.266 feet				

SCIENTIFIC DRILLING INTERNATIONAL
MIDLAND, TEXAS

Finder Survey
for

ARCO OIL & GAS COMPANY
MIDLAND, TEXAS

Job Number : 32F0595215
Well Number : EMPIRE ABO "K" NO. 17
Site Location : EDDY COUNTY, NEW MEXICO
Latitude : 32.750
Survey Date(s) : 24-MAY-95
S.D.C. personnel : GARY DESPAIN
Calculation Method : Minimum Curvature
Survey Depth Zero : RKB
Proposal Direction : 99.000
Depth Unit : Feet

Comments :

Inrun Survey
ARCO OIL & GAS COMPANY

page 1

Well number : EMPIRE ABO "K" NO.

Date : 24-MAY-95

Measured Depth	Vertical Depth	Vert. Section	Inc Deg	Azimuth Deg	Coordinates		D-leg /100ft
					Latitude	Departure	
0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00
100.0	100.00	-0.1	0.26	336.94	0.21	-0.09	0.26
200.0	200.00	-0.3	0.24	338.11	0.61	-0.26	0.02
300.0	300.00	-0.6	0.31	329.92	1.04	-0.47	0.08
400.0	400.00	-1.1	0.41	315.24	1.53	-0.86	0.14
500.0	499.99	-1.7	0.48	316.06	2.08	-1.40	0.07
600.0	599.99	-2.5	0.60	308.21	2.71	-2.10	0.14
700.0	699.98	-3.6	0.77	290.57	3.27	-3.14	0.27
800.0	799.97	-5.1	1.00	281.40	3.68	-4.63	0.27
900.0	899.94	-7.3	1.47	287.75	4.24	-6.70	0.49
1000.0	999.90	-10.0	1.75	293.11	5.23	-9.33	0.32
1100.0	1099.86	-12.9	1.76	300.33	6.61	-12.06	0.22
1200.0	1199.81	-15.8	1.82	301.42	8.21	-14.74	0.07
1300.0	1299.76	-18.7	1.84	305.46	9.97	-17.40	0.13
1400.0	1399.71	-21.6	1.85	307.40	11.88	-19.99	0.06
1500.0	1499.66	-24.4	1.86	309.17	13.89	-22.53	0.06
1600.0	1599.60	-27.2	1.84	309.49	15.93	-25.03	0.02
1700.0	1699.55	-30.0	1.85	306.69	17.92	-27.56	0.09
1800.0	1799.50	-32.9	1.90	305.11	19.84	-30.21	0.07
1900.0	1899.44	-35.9	1.84	298.32	21.55	-32.98	0.23
2000.0	1999.39	-39.0	1.80	295.41	22.99	-35.82	0.10
2100.0	2099.34	-42.0	1.76	292.14	24.24	-38.66	0.11
2200.0	2199.30	-44.9	1.63	289.34	25.29	-41.42	0.15
2300.0	2299.26	-47.7	1.61	285.57	26.14	-44.12	0.11
2400.0	2399.22	-50.5	1.65	289.24	26.99	-46.83	0.11
2500.0	2499.18	-53.4	1.77	292.86	28.06	-49.61	0.16
2600.0	2599.13	-56.4	1.81	295.13	29.33	-52.46	0.08
2700.0	2699.07	-59.5	1.92	297.43	30.78	-55.38	0.13
2800.0	2799.02	-62.7	1.98	299.76	32.38	-58.38	0.07
2900.0	2898.95	-66.0	2.09	300.78	34.14	-61.46	0.13
3000.0	2998.88	-69.5	2.18	304.51	36.15	-64.60	0.17
3100.0	3098.81	-72.9	2.29	307.13	38.44	-67.76	0.15
3200.0	3198.72	-76.5	2.41	308.70	40.96	-70.99	0.14
3300.0	3298.63	-80.3	2.56	310.17	43.71	-74.34	0.16
3400.0	3398.52	-84.2	2.67	310.66	46.67	-77.81	0.11
3500.0	3498.41	-88.3	2.92	310.46	49.84	-81.52	0.25
3600.0	3598.27	-92.8	3.09	311.16	53.27	-85.48	0.17
3700.0	3698.12	-97.4	3.19	310.20	56.84	-89.64	0.11
3800.0	3797.95	-102.2	3.37	313.04	60.64	-93.91	0.24

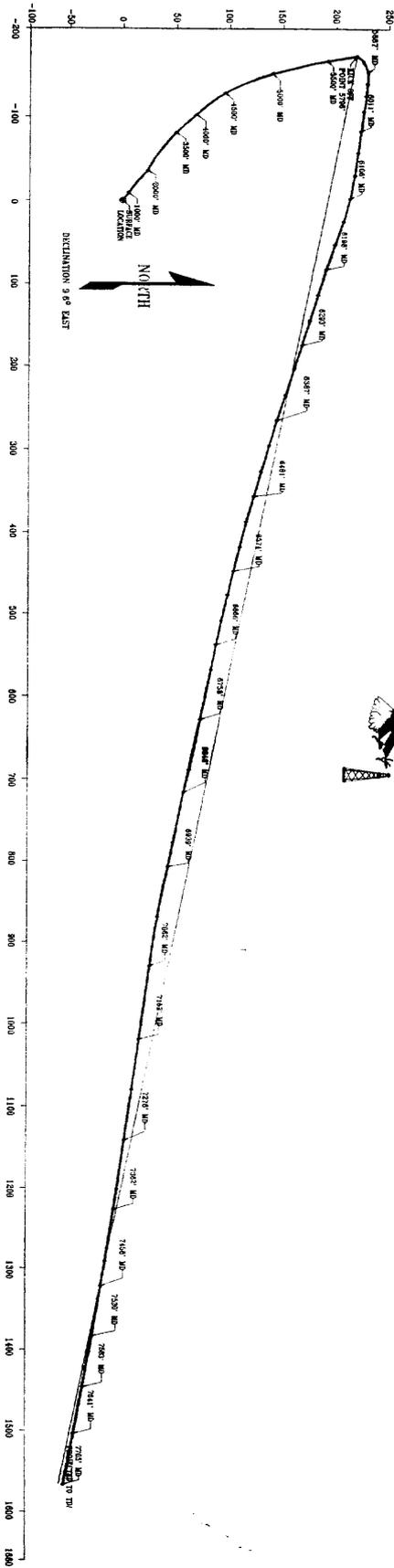


ARCO PERMIAN
 EMPIRE ABO UNIT
 WELL #K17 RE ENTRY
 NW/4 SW/4 SECTION 1 TOWNSHIP 18 SOUTH RANGE 27 EAST
 EDDY COUNTY, NEW MEXICO

SCALE 1"=150' PROPOSAL DRAWN @ 99° AZIMUTH FROM KICK OFF POINT

ARCO REP: MR. DOYLE CATES
 EAGLE REPS: MIKE PELLESSIER
 ROB PORTER
 VOGEL REPS: KENNY GEORGE
 BOBBY KLEPPER

SIERRA ENGINEERING: MR. PAT DRENNON
 MR. C. D. KEMP



**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

CISF

5. LEASE DESIGNATION AND SERIAL NO.
LC-062412 NM-0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other **NOV 20 8 22 AM '95**

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other **HORIZONTAL EXT**

2. NAME OF OPERATOR
ARCO PERMIAN

3. ADDRESS AND TELEPHONE NO.
P.O. BOX 1610, MIDLAND, TX 79702 915 688-5672

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface
1980 FSL & 660 FWL (UNIT LETTER L)
At top prod. interval reported below

At total depth
1928 FSL & 2216 FEL

14. PERMIT NO. DATE ISSUED

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
EMPIRE ABO UNIT "K" 17

9. API WELL NO.
30-015-00703

10. FIELD AND POOL, OR WILDCAT
EMPIRE ABO

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
1-18S-27E

12. COUNTY OR PARISH
EDDY

13. STATE
NM

15. DATE SPUDDED **05-22-95** 16. DATE T.D. REACHED **06-08-95** 17. DATE COMPL. (Ready to prod.) **06-13-95** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **7705 MD 6091** 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS
DIRC **X**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD) **5797-7705 ABO** 25. WAS DIRECTIONAL SURVEY MADE
YES

26. TYPE ELECTRIC AND OTHER LOGS RUN **DEC 13 1995** 27. WAS WELL CORED
NO

28. CASING RECORD (Report all strings set in well) **OIL CON. DIV.**

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8	24	1470	12 1/4	DIRC	0
5 1/2	14	6137	7 7/8	CIRC	0

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	5906	5772

31. PERFORATION RECORD (Interval, size and number) **5797-7705 OH**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
5797-7705 A W/1700 GALS

33.* PRODUCTION

DATE FIRST PRODUCTION **06-13-95** 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 - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)

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

35. LIST OF ATTACHMENTS
DIRECTIONAL SURVEY

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

SIGNED Ken W. Gosnell TITLE **AGENT** DATE **11-16-95**

*(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.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH

N.M. OIL CONTS. DEPARTMENT
 1301 W. Grand
 Artesia, NM 88210

dsp

Form 3160-5
 (June 1990)

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.

NM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8910138010

8. Well Name and No.

Empire Abo Unit "K" 17

9. API Well No.

30-015-00703

10. Field and Pool, or exploratory Area

Empire Abo

11. County or Parish, State

Eddy NM

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

ARCO Permian

3. Address and Telephone No.

P.O. Box 1089, Eunice, NM 88231 505-394-1649

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

Unit Letter L, 1980' FSL & 660' FWL
 Section 1, T18S, R27E

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

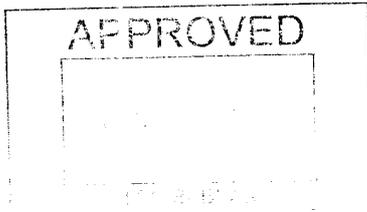
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
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

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

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

TD: 6137' PBD: 6101' PERFS: 5800-7705'

MIRUPU. POH w/rods & pmp. NDWH. NUBOP. Release TAC @ 5705'. POH w/tbg & TAC.
 RIH w/4-3/4" bit & scraper to top of whipstock @ 5782'. POH.
 RUWL. GIH w/CIBP & set @ 5770'. POH.
 GIH & perf w/2JSPF 5472-5736'. POH. GIH w/PPI tools & breakdown perfs f/5472-5736'
 w/50 gals/ft. 15% HCL NEFE. POH.
 RIH w/bull plugged MA, perf sub, SN & 2-3/8" tbg. Land SN at +/- 5736'.
 NDBOP. NUWH. Swab for test. GIH w/GA, pmp & rods. Hang well on. RDP. RTP.



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

Signed [Signature] Title Sr. Administrative Assistant Date 01/08/02

(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 statement or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

RECEIVED
2007 JAN -9 AM 9:09
BUREAU OF LAND MANAGEMENT
ROSWELL OFFICE

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
March 19, 2001

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

Submit 1 copy of the final affected wells
list along with 1 copy of this form per
number of wells on that list to appropriate
District Office

Change of Operator

Previous Operator Information:

OGRID: 000900
Name: ARCO Permian
Address: P.O. Box 3092
Address: _____
City, State, Zip: Houston, Texas 77253

New Operator Information:

Effective Date: 12/31/2001
New Ogrid: 000778
New Name: BP America Production Company
Address: P.O. Box 3092
Address: _____
City, State, Zip: Houston, TX 77253

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

New Operator
Signature: Mary Corley
Printed name: Mary Corley
Title: Sr. Regulatory Specialist
Date: 12/10/2001 Phone: 281-366-4491



Previous operator complete below:

Previous
Operator: ARCO Permian
Previous
OGRID: 000990
Signature: Mary Corley
Printed
Name: Mary Corley

NMOCD Approval	
Signature: <u>Jim W. Beem?</u>	
Printed Name: <u>District Supervisor</u>	
District: _____	
Date: <u>FEB 07 2002</u>	

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Con - D14-Dist 9
1001 W. Grand Ave
Albuquerque, NM 87106

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

CIST

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.
NM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
8910138010

8. Well Name and No.
Empire Abo Unit "K" 17

9. API Well No.
30-015-00703

10. Field and Pool, or exploratory Area
Empire Abo

11. County or Parish, State
Eddy NM

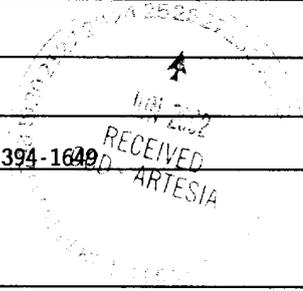
SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
BP America Production Company

3. Address and Telephone No.
P.O. Box 1089, Eunice, NM 88231 505-394-1649

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter L, 1980' FSL & 660' FWL
Section 1, T18S, R27E



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

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

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

TD: 6137' CIBP: 5770' PERFS: 5472-5736'

- 05.30.02: Unset pmp & TOH w/rods & pmp. NDWH. NUBOP. Unset at TAC & POH w/tbg.
- 05.31.02: TIH w/bit & scraper. Testing tbg to 5000# psi below slips. Tag @ 5780'. TOH.
- 06.03.02: RU & perf 2 JSPF 5472-79', 5492-94', 5498-5516', 5527-29', 5540-48', 5565-75', 5580-86', 5591-97', 5613-17', 5638-59', 5540-58', 5565-75', 5580-86', 5591-97', 5613-17', 5638-59', 5710-15', 5722-36', 230 holes. TIH w/treating pkr. Set @ 5383'.
- 06.04.02: Drop SV. RU & pmp 20 bbls 7.5% HCL to pickle tbg. Swab back acid. Fish SV. Pmp 5,150 gals 15% HCL w/350 ball sealers. TOH w/pkr. SION.
- 06.05.02: TIH w/3-3/4" bailer & recover ball seals. TOH. TIH w/production tbg. Set @ 5704' SN @ 5720'. NDBOP. Set TAC NUWH.
- 06.07.02: Load & test to 500# psi. Held OK. In 24 hrs pmp 0 BO, 1 BW, 2 MCF.

ACCEPTED FOR RECORD
JUN 21 2002
LES BABYAK
PETROLEUM ENGINEER

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

Signed [Signature] Title Sr. Administrative Assistant Date 06.18.02

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

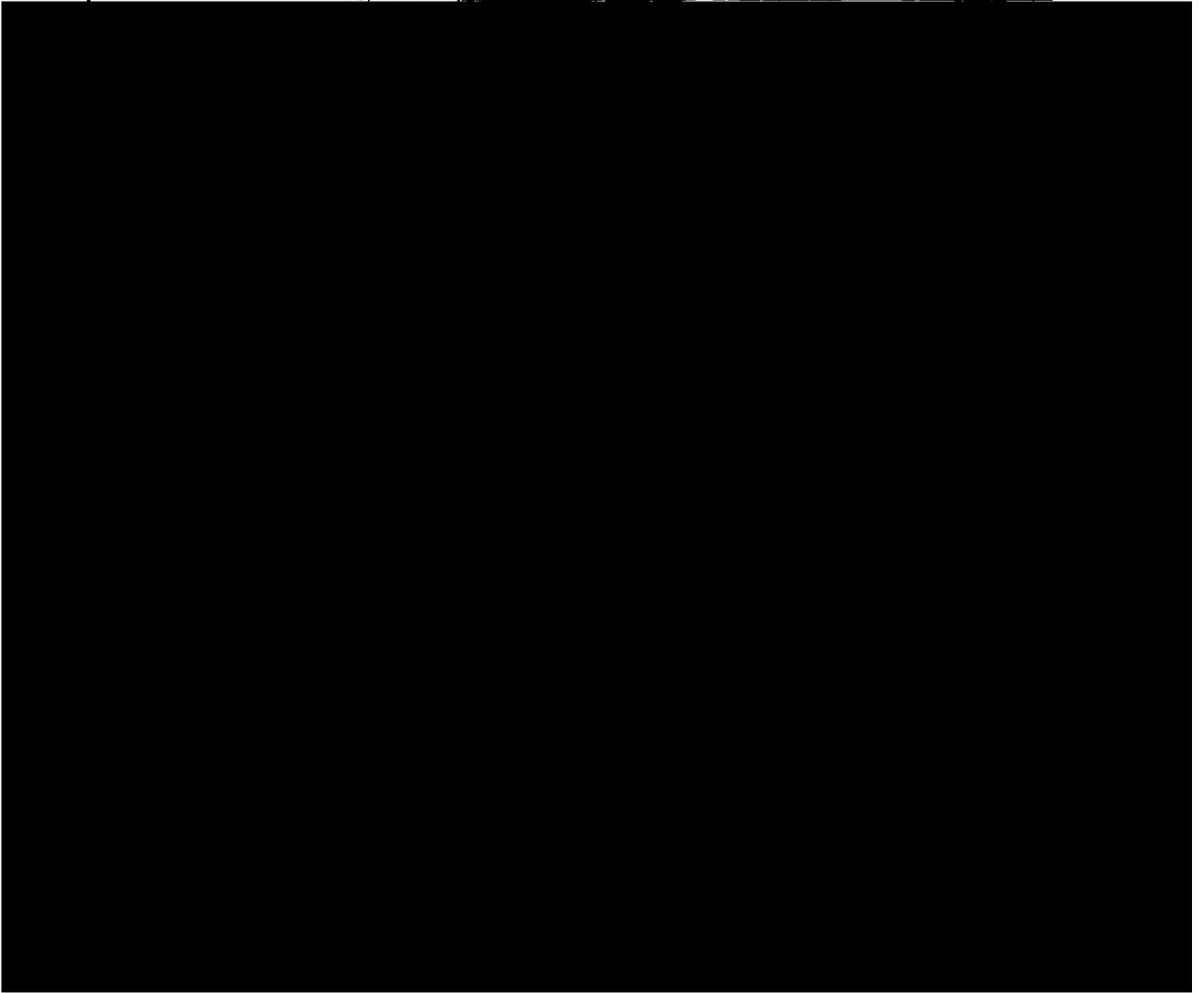
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

30-015-100103

466850-W
2811047-G
2811057-O
2812373-G

DD-105(H)
Appv 1-18-95



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

EC

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.

5. Lease Serial No.
NMNM0557371

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.
NMNM70945X

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
EMPIRE ABO K 17

2. Name of Operator
BP AMERICA PRODUCTION CO
Contact: KELLIE D. MURRISH
E-Mail: murrikd@bp.com

9. API Well No.
30-015-00703-00-S1

3a. Address
HOUSTON, TX 77253 Eunice, Nm 88231

3b. Phone No. (include area code)
Ph: 505.394.1649
Fx: 505.394.1624

10. Field and Pool, or Exploratory
EMPIRE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 1 T18S R27E NWSW 1980FSL 660FWL

11. County or Parish, and State
EDDY COUNTY, NM

RECEIVED
NOV 19 2004
OCD-ARTESIA

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

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

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports 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 requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

TD: 6137' PBD: 5770' CIBP PERFS: 5472-5736'

SET CIBP @ 5442' W/35' CMT ON TOP
CIRC HOLE W/PKR FLUID
TEST TO 500# FOR 30 MINS. CUT CHART
IDLE WELL

** Perform MIT + submit justification for TA status.*

ATTACHMENT: WELLBORE SCHEMATIC EAU-N-901

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

**Electronic Submission #35932 verified by the BLM Well Information System
For BP AMERICA PRODUCTION CO, sent to the Carlsbad
Committed to AFMSS for processing by ARMANDO LOPEZ on 09/10/2004 (04AL0355SE)**

Name (Printed/Typed) KELLIE D. MURRISH	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 09/10/2004

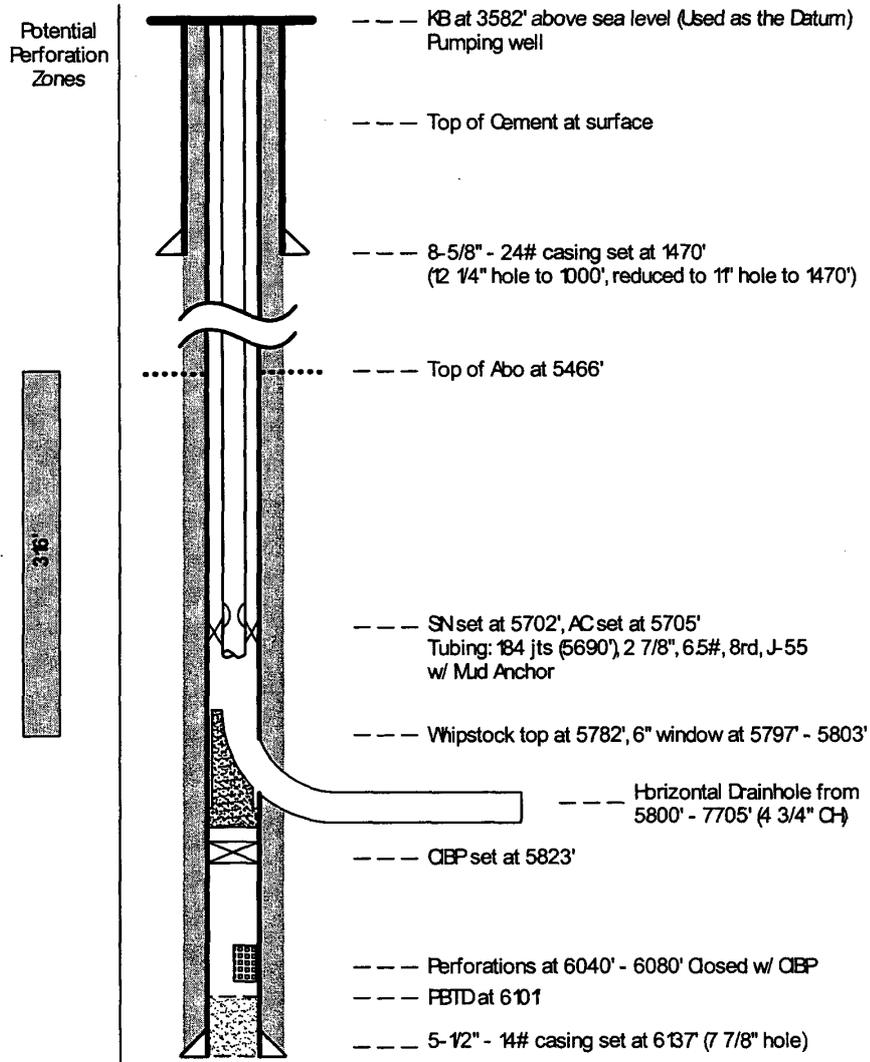
THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>/s/ Joe G. Lara</u>	Title <u>Petroleum Engineer</u>	NOV 16 2004
* 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 <u>CARLSBAD FIELD OFFICE</u>

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Empire Abo Unit 'K' 17





NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

29-Jul-05

BP AMERICA PRODUCTION COMPANY
PO Box 1089
Eunice NM 88231-0000

NOTICE OF VIOLATION - Inactive Well(s)

Dear Operator:

A review of our records and recent inspection(s) indicate that the subject well(s) has been shut-in for an extended period of time. Rule 201 of the Rules and Regulation of the Oil Conservation Division provides that a well may be shut-in no longer than sixty days after suspension of drilling operations, upon determining that the well is no longer usable (e.g., a dry hole), or one year after last production. To comply with guidelines as established in the Rules and Regulations, corrective actions must be taken immediately and the well(s) brought into compliance.

The detail section below indicates preliminary findings and/or probable nature of the violation.

The following options are available:

1. Immediately restore the well(s) to production, injection or disposal as applicable.
2. Request 'Temporary Abandoned' status pursuant to Rule 203, which requires that you set a plug and conduct a mechanical integrity test.
3. Submit a proposal to 'Plug and Abandon' the well(s) pursuant to Rule 202, proceed with plugging procedures on a timely basis after the proposal has been evaluated, amended and/or approved.

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.

IDLE WELL INSPECTION DETAIL SECTION

EMPIRE ABO UNIT 017A	L-1-18S-27E	30-015-00703-00-00	Inspection No. iCLB0521037721
Inspection Date: 7/29/2005 10:28:39 AM	Corrective Action Due by: 11/1/2005		
Type Inspection	Inspector	Violation?	*Significant Non-Compliance?
Routine/Periodic	Chris Beadle	Yes	No
Comments on Inspection:	idle Well (Rule 201). No flowline attached, no production equipment on site. Last reported production was December 2002. Marker approximately 15 feet from wellhead for new well (AAO Federal 9).		

Thank you for your prompt attention to this matter and your efforts in helping to protect our environment and the infrastructure of the oil and gas industry.

Sincerely,



Artesia OCD District Office

* Significant Non-Compliance events are reported directly to the U.S. Environmental Protection Agency, Region VI, Dallas, Texas.

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 reverse side

RECEIVED

OCT 11 2005

OOO-ANTESIA

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
BP America Production Company

3a. Address
P.O. Box 1089 Eunice NM 88231

3b. Phone No. (include area code)
505.394.1600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NWSW, SEC 1, T18S, R27E, 1980' FSL & 660' FWL

5. Lease Serial No.
NMNM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
EMPIRE ABO UNIT 17

8. Well Name and No.
'K'

9. API Well No.
30.015.00703

10. Field and Pool, or Exploratory Area
EMPIRE ABO

11. County or Parish, State
EDDY NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u> IDLE WELL </u>
	<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	

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

ID: 6137' PBD: 6101' VERTICAL PERFS: 5472-5736' CIEP: 5823'
WHIPSTOCK PERFS: 040-6080'

BP America Production Company requests a 60 day extention for the Notice of Violation - Idle Well issued by the New Mexico Oil Conservation Commission. The Corrective Action Due Date for this notice is 11.01.05.

The current scope of work includes testing the previous perfs @ 6050-6080 by:

- MIRUPU
- POH RODS & EQUIP
- REMOVE WHIPSTOCK & CIEP
- RIH W/PKR ASSY & SET BELOW HORIZONTAL SECTION
- TEST LOWER PERFORATED INTERVAL
- EVALUATE FINDINGS FROM LOWER ZONE

Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct
 Name (Printed/Typed) **Kellie D. Murrish** Title **Scheduler**

Kellie D. Murrish Date **10.07.05**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

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 _____

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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.

SUNDRY NOTICES AND REPORTS ON WELLS
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SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
BP America Production Company

3a. Address
P.O. Box 1089 Emice NM 88231

3b. Phone No. (include area code)
505.394.1600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NWSW, SEC 1, T18S, R27E, 1980' FSL & 660' FWL

RECEIVED
OCT 18 2005
OCD-ALTESIA

5. Lease Serial No.
NMM0557371

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
EMPIRE ABO UNIT 17 'K'

9. API Well No.
30.015.00703

10. Field and Pool, or Exploratory Area
EMPIRE ABO

11. County or Parish, State
EDDY NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other IDLE WELL
	<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	

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WHIPSTOCK PERFS: 040-6080'

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- POH RODS & EQUIP
- REMOVE WHIPSTOCK & CIBP
- RIH W/PKR ASSY & SET BELOW HORIZONTAL SECTION
- TEST LOWER PERFORATED INTERVAL
- EVALUATE FINDINGS FROM LOWER ZONE

APPROVED FOR 2 MONTH PERIOD
ENDING 12/15/05

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

Kellie D. Murrish

Title

Scheduler

Date **10.07.05**

Accepted for record - NMOCD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **(ORIG. SGD.) ALEXIS C. SWOBODA**

Title **PETROLEUM ENGINEER**

Date **OCT 13 2005**

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 **RFO**

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 10 2008

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

OCD
ARTESIA

SUNDRY NOTICES AND REPORTS ON WELLS

OCD-ARTESIA

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

5. Lease Serial No
NMNM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM70945X

8. Well Name and No.
Empire Abo Unit 17

9. API Well No.
K
30-015-00703

10. Field and Pool, or Exploratory Area
Empire Abo

11. County or Parish, State
Eddy NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
BP America Production Company

3a. Address
P.O. Box 1089 Eunice NM 88231

3b. Phone No. (include area code)
575-394-1648

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter L, 1980 FSL & 660 FWL
Section 1, T18S, R27E

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

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

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- MIRU PU. Check tubing, casing and surface pipe for pressure - bleed off into containment. Kill well as necessary. Monitor well and assure it's stable. POH LD/warehouse rods and pump.
- Monitor well and assure it is stable. ND WH, NU BOP. Release TAC and TOH.
- TIH with CIBP on 2 3/8" tubing and set at 5420'. Spot 250' cement plug on top of CIBP using 25 sx Class C neat. PU to 5150'. Load hole with mud-laden fluid (9 ppg, 1250# gel/100 bbl).
- TOH to 3400' (Glorieta top = 3290'). Spot 25 sack balanced cement plug from 3400' - 3150'. TOH.
- TIH with bull plug and perf nipple on tubing. Tag Glorieta plug; re-spot if necessary.
- TOH to 1550' (8 5/8" surface casing shoe = 1470'). Spot 35 sack balanced cement plug from 1550' - 1200'. PU and WOC 2 hours. Tag plug, re-spot if necessary.
- TOH to 300' (Yates top = 172'). Fill 5 1/2" casing from 300' to surface with 30 sx Class C neat. TOH LD tubing.
- RD PU.
- Dig out WH and cut-off casingheads to 3' below GL.
- Install regulation dry-hole marker. Clean location and prepare location for BLM inspections.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Barry C. Price

Title

Area Operations Team Lead

DEC 10 2008

Date 11/18/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED

Approved by

Date

DEC 1 2008

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

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JAMES A. AMOS
SUPERVISOR-EPS

**BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972**

**Permanent Abandonment of Federal Wells
Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in a cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. **Dry Hole Marker:** All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. **Subsequent Plugging Reporting:** Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

MAR 30 2009

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

RM

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 checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No. NMMN70945X
2. Name of Operator BP AMERICA PRODUCTION COMPANY		8. Well Name and No. EMPIRE ABO UNIT K 17
3a. Address P.O. BOX 1089, EUNICE NM 88231	3b. Phone No. (include area code) 575-394-1648	9. API Well No. 30-015-00703
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) UNIT LETTER L, 1980 FSL & 660 FWL, SECTION 1, T18S, R27E		10. Field and Pool or Exploratory Area EMPIRE ABO
		11. Country or Parish, State EDDY NM

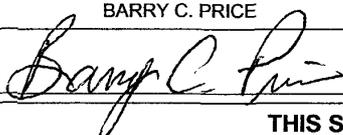
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

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 checked="" 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	

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

3/12/09: ND WH. RELEASE TAC. NU BOP. POH LAYING DOWN TBG:
3/13/09: RIH W/ 4 3/4" BIT, CSG SCRAPER & 185 JTS 2 3/8" TBG TO 5787'. POH W/ TBG TO 3523'.
3/16/09: KILL WELL W/ 20 BBL BRINE. POH W/ 2 STANDS TBG. POH W/ TBG & SCRAPER. LAY DOWN SCRAPER. RIH W/ CIBP & TBG. SET CIBP @ 5770'. PUMP 25 BBL FRESH WATER ON VACUUM. PUMP 20 SX CMT ON VACUUM. DISPLACED W/ 20 BBL FRESH WATER ON VACUUM. POH LAYING DOWN 11 JTS TBG. FLUSH TBG W/ 10 BBL FRESH WATER ON VACUUM.
3/17/09: POH W/ TBG. RIH W/ CIBP & 2 3/8" TBG. SET CIBP @ 5420'. DISPLACE CSG W/ FRESH WATER. TEST TO 500 PSI. TEST GOOD. SPOT 25 SX CMT FROM 5420' TO 5179'. LAY DOWN 8 JTS TBG. DISPLACE CSG FROM 5160' TO SURFACE. POH LAYING DOWN TBG TO 3416'. SPOT 25 SX CMT FROM 3416' TO 3175'. POH W/ TBG & SETTING TOOL. RIH W/ SLOTTED SUB ON 2 3/8" TBG.
3/18/09: RIH W/ TBG. TAG CMT @ 3152'. LAY DOWN 51 JTS TBG TO 1566'. MIX & PUMP 170 SX CMT FROM 1566' TO SURF. POH LAYING DOWN TBG. ND BOP. TOP OFF CSG W/ 5 SX CMT. RD.
3/19/09: DIG OUT AROUND WELLHEAD. CUT OFF ALL ANCHORS AND WELL HEAD, WELD IN PLATE, 1" NIPPLE & VALVE, DRY HOLE MARKER, BACKFILL AND LEVEL LOCATION.

**Approved as to plugging of the well bore,
Liability under bond is retained until
Surface restoration is completed.**

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) BARRY C. PRICE		Title AREA OPERATIONS TEAM LEAD
Signature 	Date 03/23/2009	<div style="border: 2px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p style="font-size: 1.2em; margin: 0;">APPROVED</p> <p style="font-size: 1.2em; margin: 0;">MAR 26 2009</p> <p style="font-size: 0.8em; margin: 0;">Date</p> <p style="font-size: 0.8em; margin: 0;">JAMES A. AMOS SUPERVISOR-EPS</p> </div>
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by _____	Title _____	Office _____
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		

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(Instructions on page 2)

 3/31/09

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

LM

SUNDRY NOTICES AND REPORTS ON WELLS

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APR 15 2009

5. Lease Serial No.
NMNM0557371

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side

7. If Unit or CA/Agreement, Name and/or No.
NMNM70945X

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Empire Abo Unit 17

2. Name of Operator
BP America Production Company

9. API Well No.
30-015-00703

3a. Address
P.O. Box 1089 Eunice NM 88231

3b. Phone No. (include area code)
575-394-1648

10. Field and Pool, or Exploratory Area
Empire Abo

4. Location of Well (Footage, Sec, T, R., M., or Survey Description)
Unit Letter L, 1980 FSL & 660 FWL
Section 1, T18S, R27E

11. County or Parish, State
Eddy NM

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

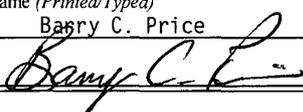
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
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Per BLM letter referencing this well, dated March 27, 2009, all requirements have been met for final abandonment.

APPROVED
 APR 11 2009
 JAMES A. AMOS
 SUPERVISOR-EPS

APR 14 2009

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

Title Area Operations Team Lead
Date 4/7/09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____
Office _____

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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.