

UIC - I - 8-1, 2 & 3

WDWs-1, 2 & 3

PERMITS,

RENEWALS,

& MODS (5 of 18)

2017

Amoco Production Company
-2-

COMMINGLING ORDER PLC-43 (con'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

April 6, 1972

RECEIVED

APR 7 1972

GOVERNOR
BRUCE K. L. L.
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMJO
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

V. E. STALEY
ARTESIA, OFFICE

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

Gentlemen:

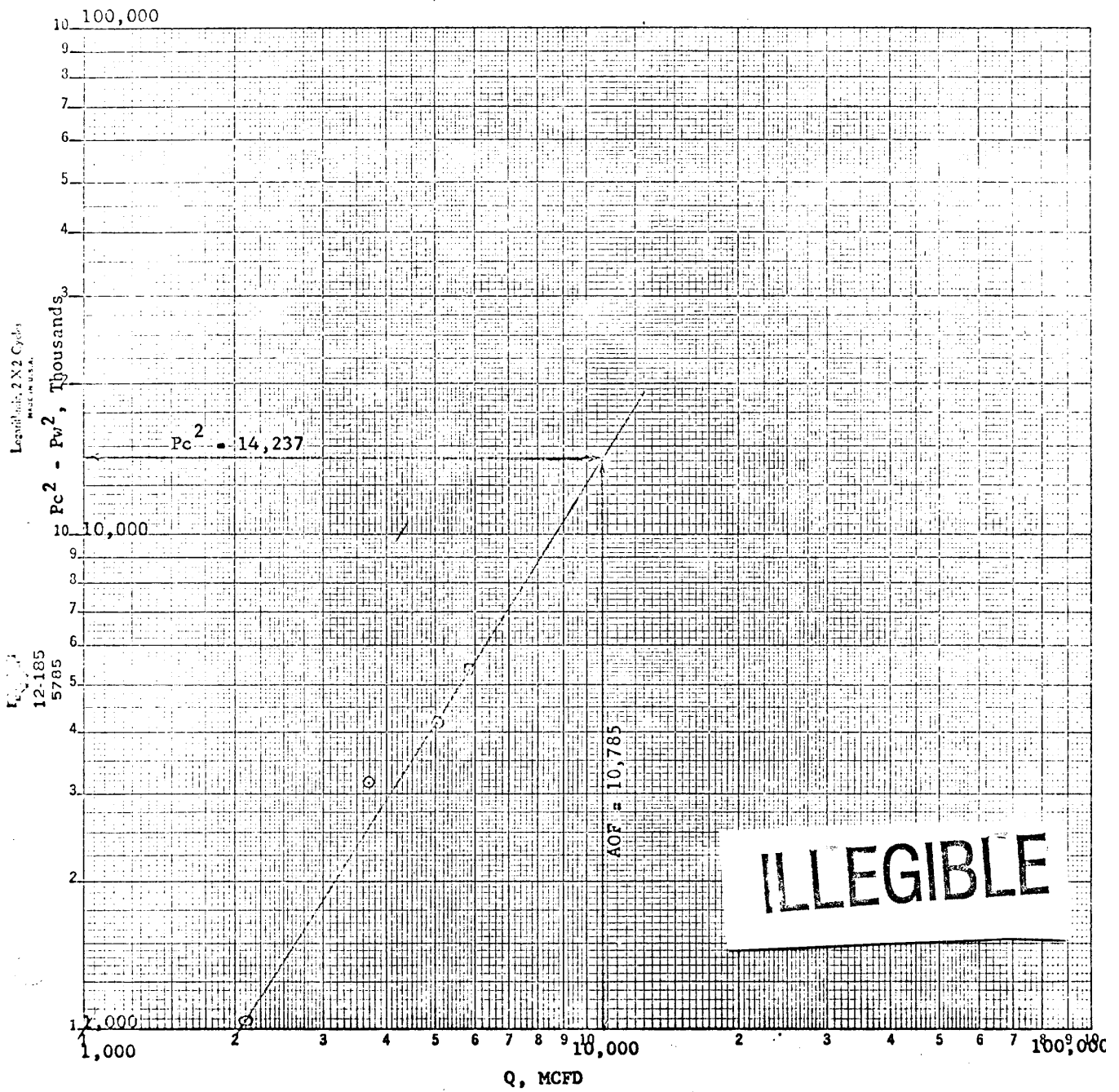
Attached herewith is a One Point Back Pressure Test on Amoco's Malco "S" Federal No. 1, F-11-18-27, Eddy County, New Mexico. Due to a drastic decline in reservoir pressure and low producing rates, it was not feasible to take a Four Point test on this well and the One Point test submitted is based on 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



Form C-122
Revised 9-1-69

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-100 Production Company			Connection NORA		O. C. C. ARTESIA OFFICE
Pool Willcat			Formation Morrow Penn		
Completion Date 12/11/71		Total Depth 10,168		Plug Back TD 10,000	
Elevation 3587 KDB		Farm or Lease Name Valco "S" Federal		Well No. 1	
Core Size 5-1/2"	Wt. 17#	d 4.892	Set At 9277'	Perforations: From 9621 To 9929	Unit 1
Thg. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 9504	Perforations: From Open End To	Unit - Sec. Twp. Rge. F 11 14S 27E
Type Well - Single - Rodenthead - G.O. or G.O. Multiple Single			Packer Set At 5491'		County Elm
Producing Thru 2-3/8" Tbg		Reservoir Temp. °F 145 @ 9775		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State New Mexico			
L 95.4	H 9504	G _g 0.630	% CO ₂ 0.33	% N ₂ 0.31	% H ₂ S 0
Prover -	Meter Run 6"	Taps Flange			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI							2362		Pkr	-	60 hrs
1.	6.065 x 2.500			565	5.3	110	2639	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			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	120.79	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	Mcf/bbl.
1	0.95	570	1.57	0.923	74.135	
2	0.95	557	1.53	0.922	54.0	
3	0.95	547	1.50	0.911		
4	0.92	541	1.49	0.903		
5						

NO.	P ₁ ²	P _w	R ₁ ²	R ₂ ² - R ₁ ²	(1) $\frac{P_1^2}{R_2^2 - R_1^2} =$	(2) $\left[\frac{R_1^2}{R_2^2 - R_1^2} \right]^n =$
1	3632.8	13,197	1,040		2.661	1.348
2	3330.2	11,090	3,147			
3	3173.2	10,069	4,168			
4	2981.1	8,657	5,350			
5						

Absolute Open Flow 10,785 Mcfd @ 15.025		Angle of Slope Φ		Slope, n 0.629	
Remarks: WTC measured with bottom hole pressure recorder					

Approved By Commission:	Conducted By: Al Klear	Calculated By: Ed Snook	Checked By: Ed Snook
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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, LVELLAND, TEXAS 79336
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) 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 MALCO "S" FEDERAL	Well No. 1	Pool Name, Including Formation SCOBGIN 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				

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) Box 1183 - HOUSTON, TEXAS 77001
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/> GAS COMPANY OF NEW MEXICO	Address (Give address to which approved copy of this form is to be sent) 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 Rest.	Diff. Rest.
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (DF, RKB, RT, CR, 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 (pitot, 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

BY

TITLE

SUPERVISOR, DISTRICT II

054-NMOC-AAS

1- Div

1-IMG

1- Hondo

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
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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

AMOCO PRODUCTION COMPANY

Address

P.O. Drawer A, Levelland, Texas 79336

O.C.C.

ARTESIAN OFFICE

Other (Please explain) Eff. 8-1-76

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

If change of ownership give name
 and address of previous owner

DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
Malco "S" Federal	1	Scoggin Draw-Morrow	State, Federal or Fee Federal	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"/>	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 checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Production Company	P.O. Drawer A, Levelland, Texas 79336
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
Unit <u>F</u> Sec. <u>11</u> Twp. <u>18</u> Rge. <u>27</u>	Yes <u>12-27-72</u>

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 Rest'v.	Diff. Rest'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

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. Gussert

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.

NM OIL COM COMMISSION
Drawer DD
Artesia, NM 88210

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

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

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

(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 BY (This space for Federal or State office use)
(Orig. Sgd.) PETER W. CHESTER TITLE _____ DATE _____
APPROVED BY _____
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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☐ DEEPEN ☐ PLUG BACK ☐
b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER *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
7610'
20. ROTARY OR CABLE TOOLS
Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3587 RDB
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
Melco'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. *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*
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE
APPROVED BY *L. Mark Spitzing* TITLE *Asst. Dir.* DATE *1-9-85*
CONDITIONS OF APPROVAL, IF ANY:
045 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 DPTSPF 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 GR 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.

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.

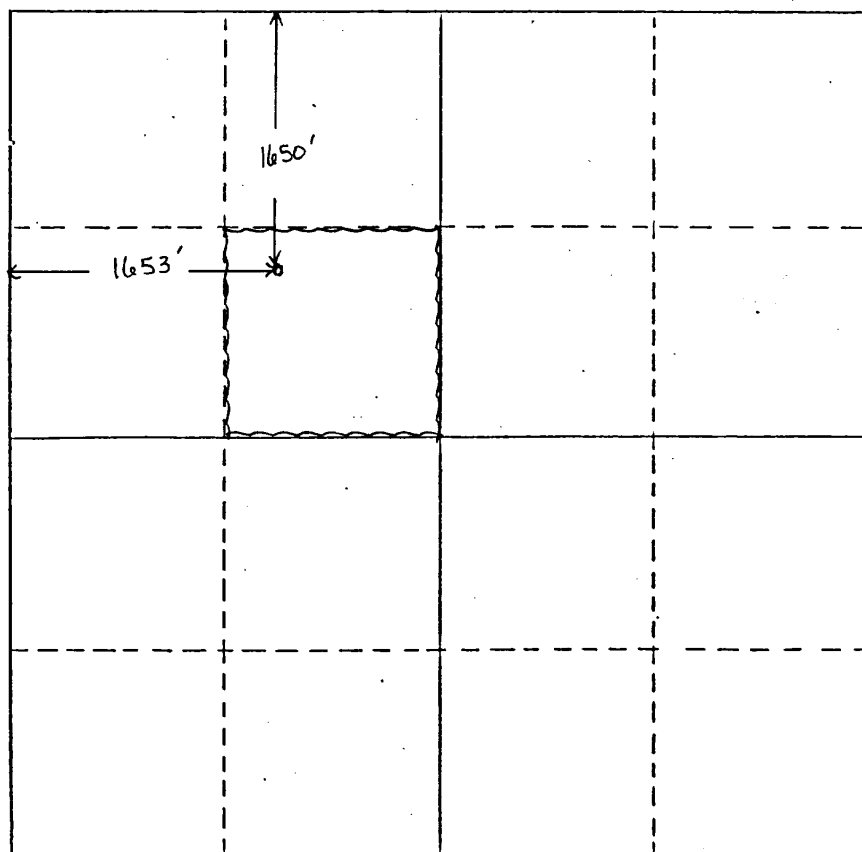
Operator <i>Amoco Production Company</i>		Lease <i>Malco "S" Federal</i>		Well No. <i>1</i>
Unit Letter <i>F</i>	Section <i>11</i>	Township <i>18-S</i>	Range <i>27-E</i>	County <i>Eddy</i>
Actual Footage Location of Well: <i>1650</i> feet from the <i>North</i> line and <i>1653</i> feet from the <i>West</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 hairpencil 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.

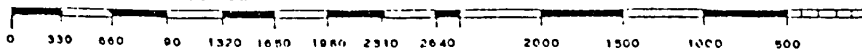
Name *Harry C. Clark*
Position *Asst. Admin. Analyst*
Company *Amoco Production Company*
Date *1-7-85*

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

Date Surveyed _____

Registered Professional Engineer and/or Land Surveyor _____

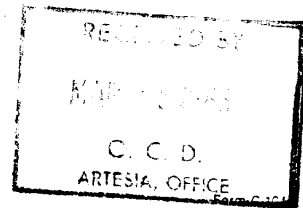
Certificate No. _____



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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LAND OFFICE	
TRANSPORTER	OIL ✓ GAS ✓
OPERATION	✓
PRODUCTION OFFICE	

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



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 118 Hobbs NM 88240

Reason(s) for filing (Check proper box):

<input type="checkbox"/> New Well	Change in Transporter of:	<input type="checkbox"/> Oil	<input type="checkbox"/> Dry Gas
<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Condensate	
<input type="checkbox"/> Change in Ownership			

Other (Please explain): Request 1000 bbl testing allowable 7090 - 7388 (Wolfgang perfo) FOR MARCH

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

II. DESCRIPTION OF WELL AND LEASE

Lease Name: <u>Miles S' Federal</u>	Well No.: <u>1</u>	Pool Name, including Formation: <u>Chalk Bluff Wolfcamp</u>	Kind of Lease: <u>State (Federal or Fee)</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> , N.M.P.M., <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, Abilene, 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. Rge. 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 NMCD, A 1-JRB 1-FJN 1-GCC

OIL CONSERVATION DIVISION
APPROVED MAR 6 1985
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 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.

IV. COMPLETION DATA

Designate Type of Completion - (X)		Oil well	Gas well	New well	Workover	Deepen	Plug back	Same as prev.	Diff. Res.
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.S.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 Flow 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 (G shut-in)	Casing Pressure (E shut-in)	Casing Size

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

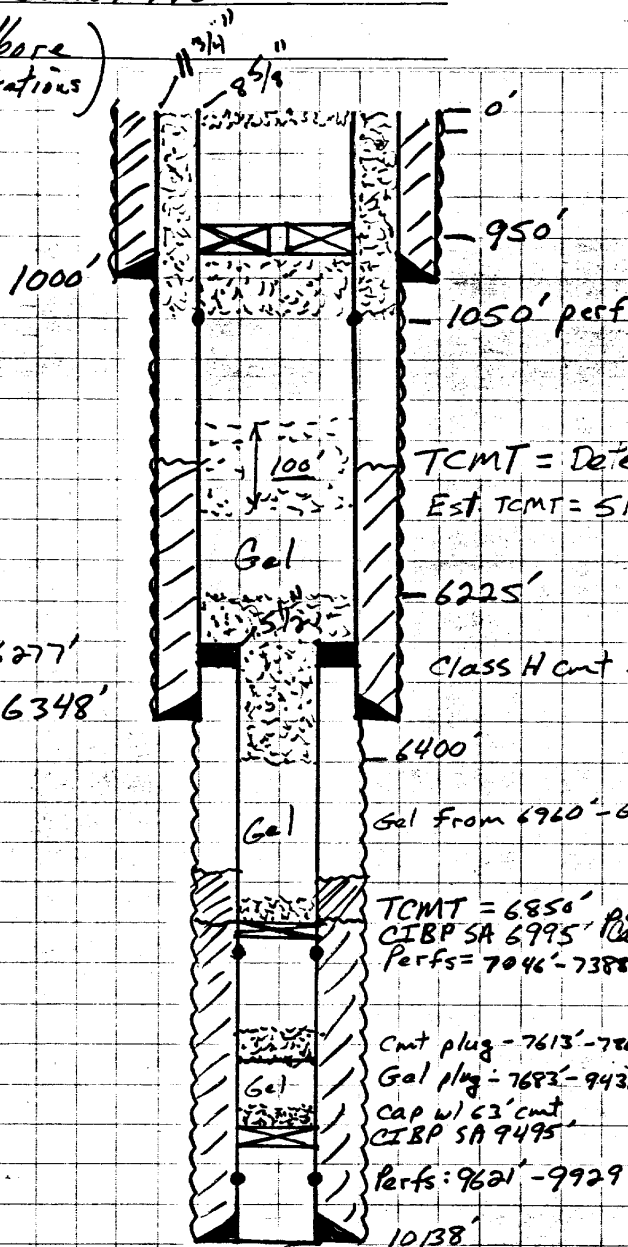
DATE 9/27/85

BY RER

SUBJECT *Mako's Federal No 1*

*(Proposed Wellbore
after P/A operations)*

TLA 6277'
CSA 6348'



TCMT = Determine from CBL
Est. TCMT = 5100' at 70% eff.

Class H cmt from 6400' - 6225'

Gel From 6960' - 6400'

TCMT = 6850' per CBL
CIBP SA 6995' Cap w/ 33' cmt.
Perfs = 7046' - 7388'

Cmt plug - 7613' - 7663'
Gel plug - 7683' - 9432'
Cap w/ 63' cmt.
CIBP SA 9495'
Perfs: 9621' - 9929'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions
reverse side)

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

dsp

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)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	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 E, SE1/4, NW1/4)	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 "5" 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
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"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	<input type="checkbox"/>

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 gal/100 Bbl brine).
4. Spot 32 sx class H 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 3/8" bradenhead 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 <u>Charles M. Derrum</u>	TITLE <u>Administrative Analyst (SG)</u> DATE <u>9/30/85</u>
(This space for Federal or State office use)	
APPROVED BY _____	TITLE _____ DATE <u>11-14-85</u>
CONDITIONS OF APPROVAL, IF ANY:	

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRI
(Other Instruction
verse 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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DRILLING	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Hondo Production Company ✓	8. FARM OR LEASE NAME MAICO "A" Federal
3. ADDRESS OF OPERATOR P.O. Box 11065, 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 1650' FNL x 1653' FNL Sec 11 (Unit F. SE 1/4 NW 1/4)	10. FIELD AND POOL, OR WILDCAT WILDCAT
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-18-27 NM PM	12. COUNTY OR PARISH EDDY
	13. STATE NM

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐FULL 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.)

Noble Drilg 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 (cpq
w/ 2000 psi for 30 min. Test O.K.

Reduced hole to 11" @ 1000' and resumed
drilling.

RECEIVED

OCT 22 1971

O. C. G.

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
OCT 21 1971
K. L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRI
(Other instruction
verse side)

DATE

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. Journal

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

13. STATE

EDDY

NM

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☐ GAS WELL ☐ OTHER ☒

DRILLING

2.

NAME OF OPERATOR

Amoco Production Company ✓

3.

ADDRESS OF OPERATOR

BOX 63, HOBBS, N. M. 85240

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

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 perti-
nent to this work.)

On 11-9-71, 8 5/8" OD 24-36" Casing was set
@ 6348' w/ 300 sq. class H. neat. after N.O.C.
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

O. 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-ART
1- DIV
1- SUSP
1- RRY
2- HONDO-ROSWELL
NOV 15 1971
L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
N. M. O. C. C. COPY
SUBMIT IN TR (Other instructi
verse side)

DATE on re

Form approved.
Budget Bureau No. 42-R142

SUNDY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	2. NAME OF OPERATOR MCCO Production Company	3. ADDRESS OF OPERATOR Box 10, 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 1005 P.M. & 1008 P.M. Sec. 11 (T. 36N R. 10E)	5. LEASE DESIGNATION AND SERIAL NO. 10-000000	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME MCCO Aerial	9. WELL NO. 3	10. FIELD AND POOL, OR WILDCAT 1005 P.M.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-10-27 NMEM	12. COUNTY OR PARISH ROCKY	13. STATE N.M.
14. PERMIT NO.	15. ELEVATIONS (Show whether DP, RT, GR, etc.) 3387' R. D. B.											

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 checked="" 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) <u>Completion</u> <input checked="" type="checkbox"/>	

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 12-7-71, 5 1/2" casing liner set from 6277' to 10138'.
Cemented w/ 5005x. Class II 4 1/2" set 34912 CFR-2.
class 23004. Class II w/ 24 7/8 CFR-2. Ret. 45 cu.
TENT 7125-TEMP Survey. Cased casing w/ 2000 psi
for 30 min. Test O.K. etc. Top of liner w/ 1255x
class C + 24 7/8 CFR-2. Plug Casing 2000 psi. OK.
Plug 8621-27, 67:72, 82, 86 w/ 2SPF.

Evaluating.

RECEIVED

DEC 29 1971

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

TO-10103

~~Work done on casing from: Males A. James Well No. 3.~~

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 [Signature] TITLE DISTRICT ENGINEER DATE DEC 29 1971

CONDITIONS OF APPROVAL, IF ANY:

C-4. UCCS-117
1-61V
1-555P
1-61V
2-10103

*See Instructions on Reverse Side

N. M. O. C. C. CORY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUP. ATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC-067858	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Amoco Production Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR BOX 68, HOBBS, N. M. 88240		8. FARM OR LEASE NAME MALCO "A" FEDERAL	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1650 FNLV 1653 FNL Sec. 11 (7, SW 1/4 NW 1/4) At top prod. interval reported below At total depth		9. WELL NO. 3	
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Biggin Draw - new - 2a WILDCAT R-4291	
DATE ISSUED		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 5-1-72	
15. DATE SPUDDED 10-16-71		12. COUNTY OR PARISH EDDY	
16. DATE T.D. REACHED 12-5-71		13. STATE N.M.	
17. DATE COMPL. (Ready to prod.) 12-20-71		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3587 R.D.B.	
19. ELEV. CASINGHEAD		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 O-TD		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 9621-9929'	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN GR-N, Prox, Porosity, Etc.	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
Casing Size		Weight, lb./ft.	
11 3/4"		47#	
8 5/8"		32#	
5 1/2" LINER		17#	
Depth Set (MD)		Hole Size	
1000'		15"	
6348'		11"	
6277-10138'		7 7/8"	
Cementing Record		Amount Pulled	
970 Sx			
300 "			
855 "			
29. LINER RECORD		30. TUBING RECORD	
Size		Size	
TOP (MD)		DEPTH SET (MD)	
BOTTOM (MD)		PACKER SET (MD)	
Sacks Cement*		Screen (MD)	
		2 3/8	
		9504	
		9491	
31. PERFORATION RECORD (Interval, size and number) 9621-27', 67-72', 82', 86' 9735', 39', 42', 72', 75'-84', 91-95' 9851'-56', 58', 64', 66', 9929' W/2 JSPF		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Depth Interval (MD)		Amount and Kind of Material Used	
9735-9929		300 gal 10% HCF x 3% HCL	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
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		TEST WITNESSED BY RECEIVED	
Date of Test 1-2-72		Hours Tested 4	
Choke Size VARIOUS		Prod'n. for Test Period 56	
Oil—BBL. 9.3		Gas—MCF. 708	
Water—BBL. 0		Gas-Oil Ratio 76/136	
Flow. Tubing Press. 2035-2689		Casing Pressure PKR	
Calculated 24-hour Rate 56		Oil—BBL. 10785	
Water—BBL. 0		Oil Gravity-API (corr.) 54°	
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		TITLE AREA SUPERINTENDENT	

43-0345-AET
1-Div
1-Well file
1-Roy
2-Howado

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

JAN-6-1972
U.S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO

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 both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not dated 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, lithology, pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 30: "Cement Slurry": Separately prepared, showing the additional data pertinent to such material.
Item 31: "Gravel": Attached supplemental records for this well should show the details of any gravel placement and the location of the gravel.
Item 32: "Gravel Seal": Attached supplemental records for this well should show the details of any gravel seal placement and the location of the gravel seal.
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.)

SUMMARY OF POROUS ZONES:		TOP		BOTTOM		DESCRIPTION, CONTENTS, ETC.		GEOLOGIC MARKERS	
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									
9621	9929	Gas and Dist Zone							
Queen Lyburg Lano Alto Wolfcamp Disco Canyon Otoka Chester	1030 1516 1887 3457 5087 8405 7745 8865 8277 9960								

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP
(Other instruction
verse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.
LC-037056

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.)

RECEIVED

1. GIL WELL ☐ GAS WELL ☒ OTHER ☐

FEB 3 1972

2. NAME OF OPERATOR
Malco Production Company ✓

3. ADDRESS OF OPERATOR
P.O. Box 38240

**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 1/4 NW 1/4)

14. PERMIT NO.

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

3587' RDB

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Malco's Federal

9. WELL NO.

1

10. FIELD AND POOL OR WILDCAT

Malco's Federal

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

11-18-27 NMPM

12. COUNTY OR PARISH

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 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 well occasioned
Changes.*

RECEIVED
JAN 21 1972
U.S. GEOLOGICAL SURVEY
ARTESIA

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

SIGNED

TITLE **AREA SUPERINTENDENT**

DATE **JAN 18 1972**

(This space for Federal or State office use)

DISTRICT ENGINEER

DATE **FEB 2 1972**

APPROVED BY
CONTENTS OF APPROVAL, IF ANY:

TITLE

DATE

*24- USGS- HWT
1- DIV
1- USDP
1- RRY
2- HONDO*

*See Instructions on Reverse Side

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
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
Operator Amoco Production Company		
Address BOX 68, HOBBS, N. M. 88240		
Reason(s) for filing (check proper box)		Other (Please explain)
New Well <input checked="" type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input checked="" type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>

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"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Production Company (Trucks)	P. O. Box 3119, Midland, Texas 79701
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)
Amoco Production Company (DAU)	P. O. Box 68, Hobbs, New Mexico 88240
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	F 11 18-S 27-E 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'			
Perforations 9621'-27', 67'-72', 82', 86', 9735', 39', 42', 72', 75'-84', 91'-95', 9851'-56', 58', 64', 66', 9929'		TUBING, CASING, AND CEMENTING RECORD		Depth Casing Shoe 10,138'				
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 (pilot, 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**

BY *W. A. Gussitt*

, 19

0 & 4 - NMOCC-Art

1 - Div

1 - JEL

1 - OBP

1 - Susp

1 - RRY

2 - Hondo

(Signature)

AREA SUPERINTENDENT

(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. York
AREA SUPERINTENDENT

Engineer

Sworn to this date. *December 27, 1972*

DR Markes
NOTARY PUBLIC IN & FOR LEA COUNTY, NEW MEXICO

MY COMMISSION EXPIRES

6-15-76

FM OIL CONS. COMMISSION
RECEIVED TO
ALBUQUERQUE, NM 8710

Form Approved.
Budget Bureau No. 42-R1424

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:

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:

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☐
☐
☐

5. LEASE
LC-067858 RECEIVED
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME MAY - 6 1982
8. FARM OR LEASE NAME O. C. D.
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

(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. Gorman TITLE Ast. Adm. Analyst DATE 3-16-82

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

ACCEPTED FOR RECORD
APR 27 1982
U.S. GEOLOGICAL SURVEY
ROSWell, NEW MEXICO

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

NM OIL & GAS CO. 88210
Artesia, NM

Form Approved.
Budget Bureau No. 42-R1424

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:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

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☐
☐

5. LEASE

LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBAL **RECEIVED**

7. UNIT AGREEMENT NAME

MAY - 4 1982

8. FARM OR LEASE NAME

Malco "S" Federal O. C. D.

9. WELL NO.

ARTESIA, OFFICE

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

(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. German TITLE Ast. Adm. Analyst DATE 4-19-82

(THIS space for Federal or State office use)

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

ACCEPTED FOR RECORD
PETER W. CHESTER
MAY 3 1982
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

See Instructions on Reverse Side

NM OIL CONS. COMMISS
Drawer RD
Artesia, NM 83210

9/5F

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

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.)

RECEIVED
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:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☒
☐
☐
☐
☐
☐
☐
☐

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

(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: Manual 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. Leung TITLE Ast. Adm. Analyst

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

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE FEB 16 1983

JUL 7 1983

RECEIVED
OIL & GAS
MINERAL SERVICE
ROSWELL, NEW MEXICO

*See Instructions on Reverse Side
ROSWELL, NEW MEXICO

Form 3160-5
November 1983)
Formerly 9-231)

UN'ED STATES
DEPARTMENT OF THE INTERIOR

Artesia, NM 88210
SUBMIT IN TRIPL
(Other instructions on re-
verse side)

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

clsf

RECEIVED BY BUREAU OF LAND MANAGEMENT

FEB 28 SUNDY NOTICES AND REPORTS ON WELLS

1. OIL ☒ GAS ☒ WATER ☒ OTHER ☒ *Recompletion*

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
(SE/4, NW/4, Unit F)*

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

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 ALY. AND
SURVEY OR AREA
11-18-27

12. COUNTY OR PARISH
Eddy

13. STATE
NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent 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 cmr. 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'.
Swbld. Acidized with 1000 gals. 15% NEFE HCL and 1000 gals. 5% HCL.
Swbld. 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. Swbld.
Ran before-treatment survey and acidized with 5000 gals. gelled 15%.
NEFE HCL. Jagged Radio Active material. Ran after-treatment survey. Swbld.
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-NMOCDA

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

APPROVED FOR RECORD

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
FEB 26 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.

Post FD-2
3-8-85
P+H Morrow

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 B O X 180 B W X 0 MCF. MISU 2-11-85. Pulled rods and pump. Pulled tbg. and ran pbs., seating nipple and tbg. Retrivable bridge plug set at 7150'. Tested RBP to 1000 PSI and OK. Set pbs. at 7073'. Swld. Released pbs., 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. Drilled 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.

RECEIVED BY DEPARTMENT OF THE INTERIOR
MAR 13 1985
O. C. D.
ARTESIA, OFFICE

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. NAME OF OPERATOR
2. ADDRESS OF OPERATOR
3. 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

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

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) Production start-up	<input checked="" 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.)

This is to inform you that production from pump testing began on the Malco's Federal No. 1 2-26-85. Produced 9 B0, 150 Bbl/w, and 0 gas. The subject well is currently being recompleted from the Morrow to the Wolfcamp.

D+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
(This space for Federal or State office use)

APPROVED BY ACCEPTED FOR RECORD TITLE DATE
CONDITIONS OF APPROVAL, IF ANY:

MAR 12 1985

*See Instructions on Reverse Side

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

RECEIVED BY

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	UNIT AGREEMENT NAME
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)	5. ELEVATIONS (Show whether DF, RT, GR, etc.) 3587' RDB
6. FIELD AND POOL, OR WILDCAT	7. SEC., T., R., M. OR BLK. AND SURVEY OR AREA 11-18-27
8. COUNTY OR PARISH Eddy	9. 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) <u>Status Update</u> <input checked="" type="checkbox"/>	

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.

0+5 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 _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY

APR 11 1985

*See Instructions on Reverse Side

CANONICAL

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.

RECEIVED BY

MAY 13 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *
1a. NAME OF WELL:
ARTESIA, OFFICE

1b. TYPE OF COMPLETION:
NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☒ DIFF. RESVR. ☐ 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)*

At surface (1650' FNL X 1653' FWL)
(Unit F, SE 1/4 NW 1/4)

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE o/c
1-21-85

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (OF 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

ROTARY TOOLS

CABLE TOOLS

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

7046'-7388' Wolfcamp

CBL

25. WAS DIRECTIONAL
SURVEY MADE

No

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11-3/4"	47#	1000'	15"	970 SX	CIRC
8-5/8"	32#	6348'	11"	300 SX	UNKNOWN
5-1/2"	17#	6277'-10,138'	7 7/8"	855 SX	7165'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

7046'-62', 7090'-7100', 7382'-88'
W/ 4 DPJSF (.380")

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7382'-88'	1000 Gal 15% NEFF HCL
7046'-7100'	4000 Gal Gelled 15% NEFF HCL
	w/ Ball Sealers and 1000 Gal
	15% NEFF HCL

33. PRODUCTION

DATE FIRST PRODUCTION 2-26-85		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping				WELL STATUS (Producing or shut-in) Shut-In	
DATE OF TEST 3-18-85	HOURS TESTED 24	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL. 0	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO 0
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.)

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

Michael J. Jones

TITLE

Administrative Analyst

DATE

6 MAY 1985

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

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ATC RIM-C, 1-TER, 1-FJN, 1-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)				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH

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-enter or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT TO DRILL" for new proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> P&A	5. LEASE DESIGNATION AND SERIAL NO. LC-067858
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY	6. IF INDIAN, ALLUTTEE 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, SE1/4, NW1/4)	8. FARM OR LEASE NAME Malco "5" Federal
14. PERMIT NO. 3001520510	9. WELL NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3587' RDB	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., R., M., S., BLK. AND SURVEY OR AREA 11-18-27
	12. COUNTY OR PARISH 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"/>		
(Other)	<input type="checkbox"/>						

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. RIH/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 405x 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/4DPISPF. Established circulation out 11 3/4" casing.
9. Set Cement retainer at 950'. Squeezed w/350sx class C cement. Circulated 175sx 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)
(This space for Federal or State office use)		DATE	12/5/85
APPROVED BY	Paul H. ...	TITLE	
CONDITIONS OF APPROVAL, IF ANY:		DATE	3-14-86

*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.

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

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

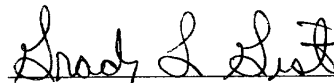
SECTION: 11 TOWNSHIP: 18 RANGE: 27

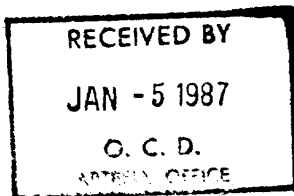
POOL: ~~Scroggin Draw Morrow~~ Chalk Bluff Wellcamp

DATE WELL DISCONNECTED: 12/15/86

GCNM'S STATION NUMBER: 1890-00

GAS COMPANY OF NEW MEXICO
TRANSPORTER


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

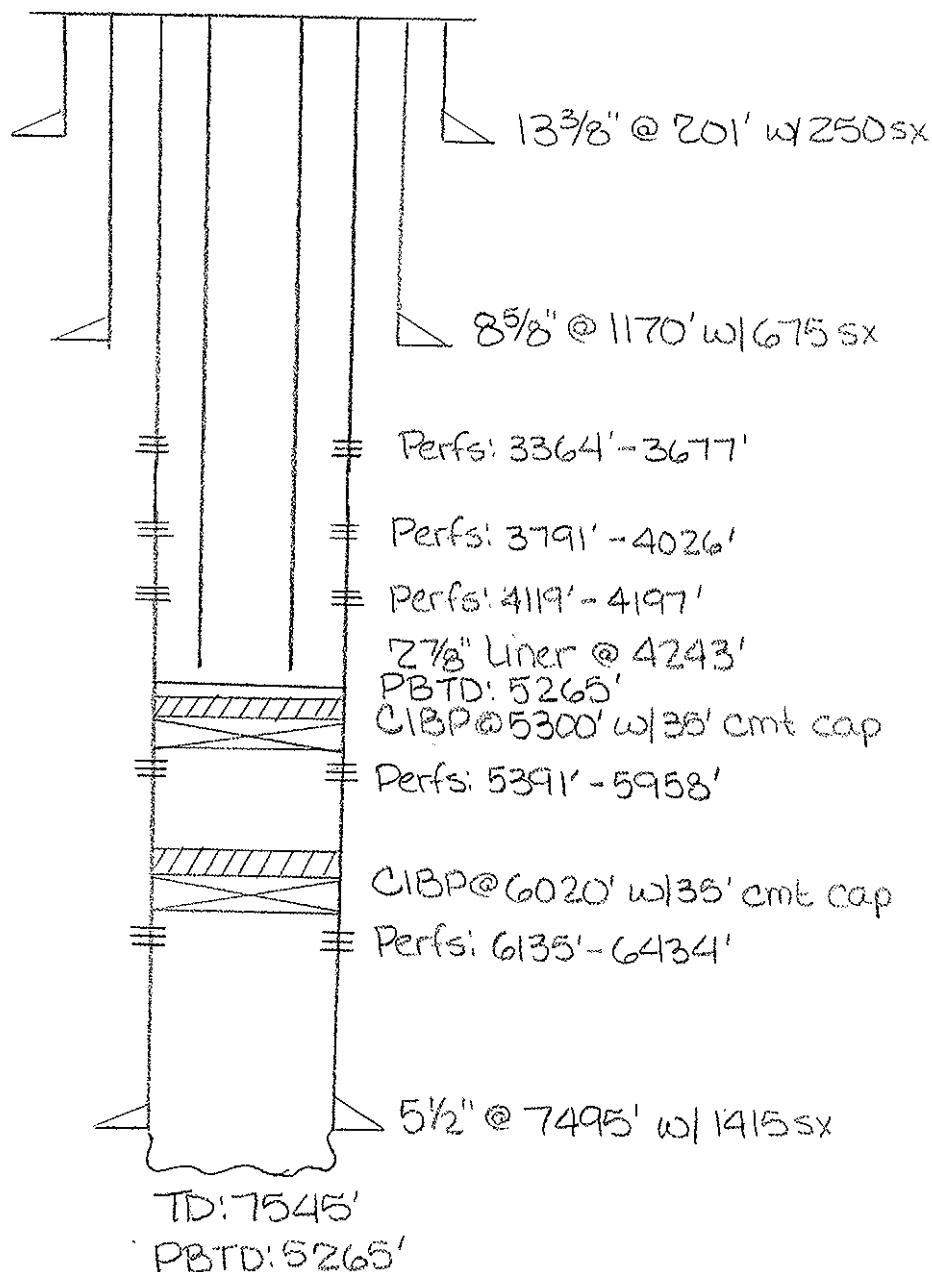
SUBSURFACE

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.



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 guidelinses <input type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCB-approved plan <input type="checkbox"/>.	OIL CONSERVATION DIVISION	
	Approved By: Bryan Arrant	
Printed Name: Electronically filed by Jerry Sherrell	Title: Geologist	
Title: Production Clerk	Approved Date: 9/19/2007	Expiration Date: 9/19/2008
Email Address: jerrys@mackenergycorp.com		
Date: 9/11/2007	Phone: 505-748-1288	Conditions of Approval Attached

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

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

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

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

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

Form C-102
Permit 60506

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

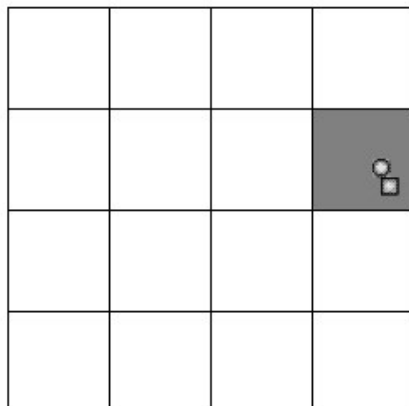
10. Surface Location

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

11. Bottom Hole Location If Different From Surface

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

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: Jerry Sherrell
Title: Production Clerk
Date: 9/11/2007

SURVEYOR CERTIFICATION

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

Surveyed By: Ronald Eidson
Date of Survey: 8/28/2007
Certificate Number: 3239

Permit Comments

Operator: MACK ENERGY CORP , 13837

Well: STATE H #002

API: 30-015-35814

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

Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837

Well: STATE H #002

API: 30-015-35814

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

SEP 12 2007
OCD-ARTESIA



30-015-35814

Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

State H #2

State H #2

Wellbore #1

Plan: Plan #1

Standard Planning Report

11 September, 2007





Scientific Drilling Planning Report



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

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

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

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

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

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

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



Scientific Drilling Planning Report



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

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



Scientific Drilling Planning Report



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

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

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



Scientific Drilling
Planning Report

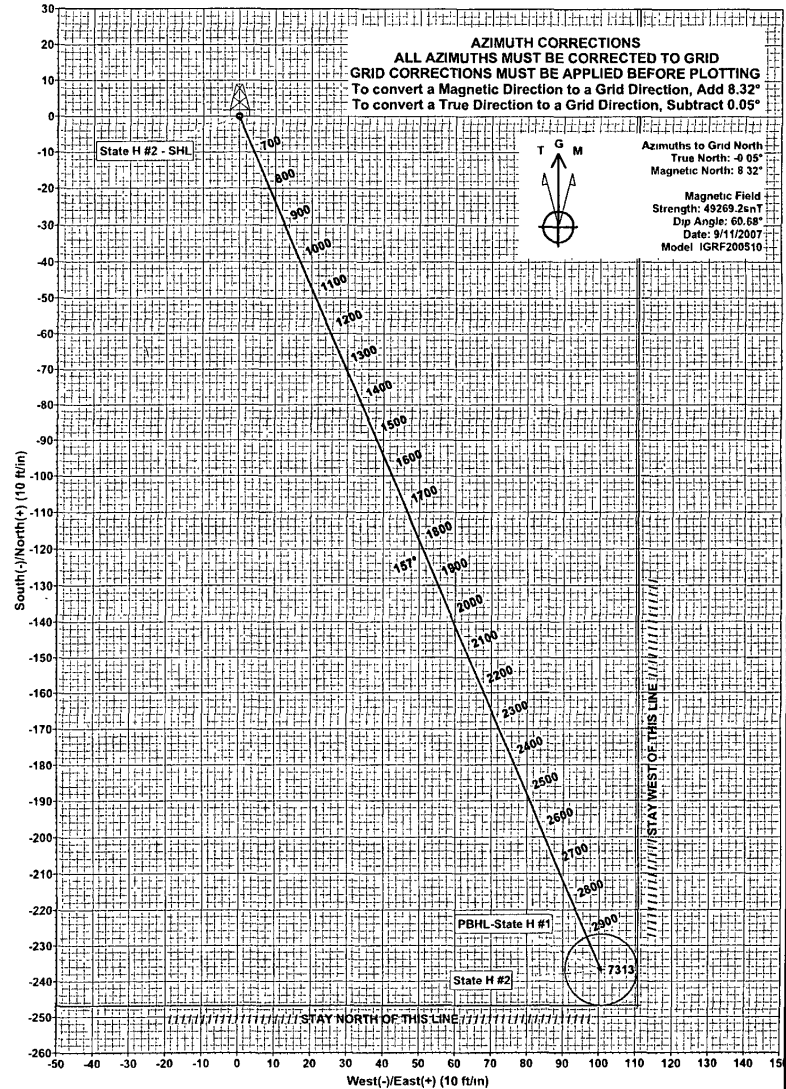
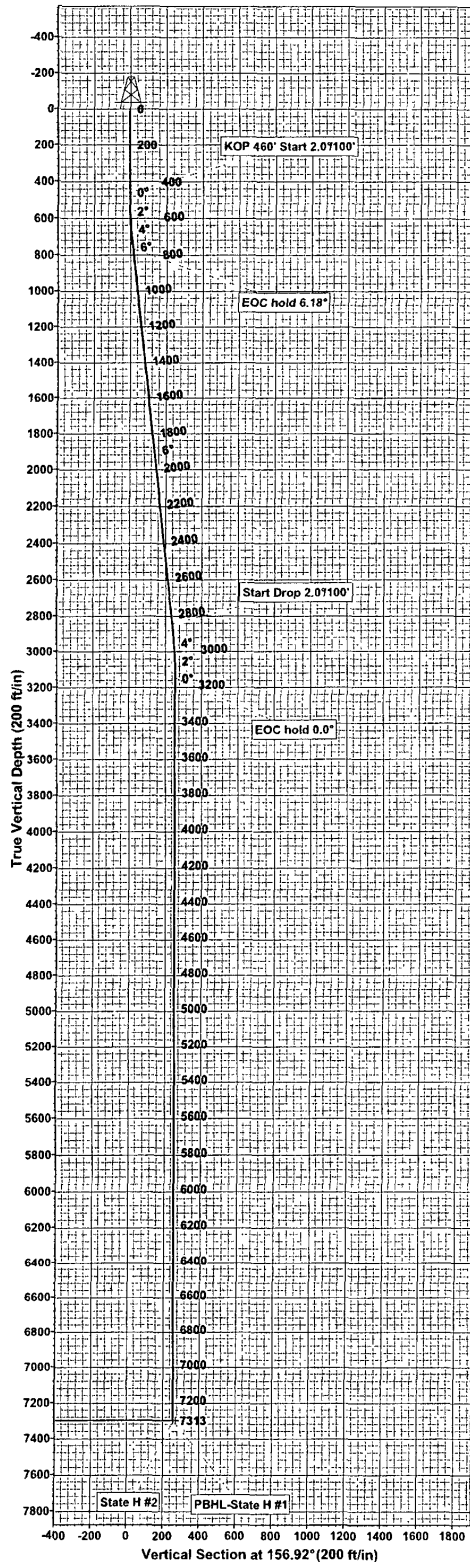


Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation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

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



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



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 8.32°
To convert a True Direction to a Grid Direction, Subtract 0.05°

Azimuths to Grid North
True North: -0.05°
Magnetic North: 8.32°
Magnetic Field
Strength: 49269.2nT
Dip Angle: 60.68°
Date: 9/11/2007
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	460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	
3	768.78	6.18	156.92	768.18	-15.29	6.52	2.00	156.92	16.62	
4	2854.52	6.18	156.92	2841.82	-221.71	94.48	0.00	0.00	241.00	
5	3163.30	0.00	0.00	3150.00	-237.00	101.00	2.00	180.00	257.62	
6	7313.30	0.00	0.00	7300.00	-237.00	101.00	0.00	0.00	257.62	PBHL-State H #1

WELL DETAILS: State H #2

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

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
East HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46' 37.065 N	104°14' 28.576 W	Rectangle (Si 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 (Sides: 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 #1 (State H #2/Wellbore #1)

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

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

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 type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		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 Chalk Bluff Wolfcamp
Pit type <u>Depth Groundwater</u> Distance from nearest fresh water well Distance from nearest surface water		
Pit Liner Thickness: <u>mil</u> Below-Grade Tank: Volume <u>bbbls</u> ; 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: <u>Change casing</u> <input checked="" type="checkbox"/>		OTHER: <u></u> <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 NMOC 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

BRYAN G. ARRAUT

APPROVED BY: DISTRICT II GEOLOGIST TITLE DATE

Conditions of Approval (if any):

OCT 22 2007



Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

State H #2

State H #2

Wellbore #1

OCT 22 2007

OCD-ARTESIA

Plan: Plan #2

Standard Planning Report

19 October, 2007





Scientific Drilling
Planning Report



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

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

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

Well	State H #2			
Well Position	+N/-S	0 00 ft	Northing:	646,629 20 ft
	+E/-W	0 00 ft	Easting:	528,184 50 ft
Position Uncertainty	0 00 ft	Wellhead Elevation:	3,606 00 ft	Ground Level: 0 00 ft

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

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

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



Scientific Drilling
Planning Report



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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
1,150 00	0 00	0 00	1,150 00	0 00	0 00	0 00	0 00	0 00	0 00
8 5/8" Casing									
1,250 00	0 00	0 00	1,250 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP 1250' Start 2.0°/100'									
1,300 00	1 00	156 92	1,299 99	-0 40	0 17	0 44	2 00	2 00	0 00
1,400 00	3 00	156 92	1,399 93	-3 61	1 54	3 93	2 00	2 00	0 00
1,500 00	5 00	156 92	1,499 68	-10 03	4 27	10 90	2 00	2 00	0 00
1,600 00	7 00	156 92	1,599 13	-19 64	8 37	21 35	2 00	2 00	0 00
1,700 00	9 00	156 92	1,698 15	-32 45	13 83	35 27	2 00	2 00	0 00
1,785 00	10 70	156 92	1,781 90	-45 82	19 53	49 81	2 00	2 00	0 00
EOC hold 10.70°									
1,800 00	10 70	156 92	1,796 63	-48 38	20 62	52 59	0 00	0 00	0 00
1,900 00	10 70	156 92	1,894 89	-65 46	27 90	71 16	0 00	0 00	0 00
2,000 00	10 70	156 92	1,993 15	-82 54	35 18	89 73	0 00	0 00	0 00
2,100 00	10 70	156 92	2,091 41	-99 63	42 46	108 29	0 00	0 00	0 00
2,200 00	10 70	156 92	2,189 68	-116 71	49 74	126 86	0 00	0 00	0 00
2,300 00	10 70	156 92	2,287 94	-133 79	57 01	145 43	0 00	0 00	0 00
2,400 00	10 70	156 92	2,386 20	-150 87	64 29	163 99	0 00	0 00	0 00
2,500 00	10 70	156 92	2,484 46	-167 95	71 57	182 56	0 00	0 00	0 00
2,599 99	10 70	156 92	2,582 72	-185 03	78 85	201 13	0 00	0 00	0 00
2,636 01	10 70	156 92	2,618 11	-191 18	81 47	207 81	0 00	0 00	0 00
Start Drop 2.0°/100'									
2,699 99	9 42	156 92	2,681 11	-201 46	85 85	218 99	2 00	-2 00	0 00
2,799 99	7 42	156 92	2,780 03	-214 93	91 59	233 63	2 00	-2 00	0 00
2,899 99	5 42	156 92	2,879 39	-225 22	95 98	244 81	2 00	-2 00	0 00
2,999 99	3 42	156 92	2,979 09	-232 31	99 00	252 52	2 00	-2 00	0 00
3,099 99	1 42	156 92	3,079 00	-236 19	100 65	256 74	2 00	-2 00	0 00
3,171 01	0 00	0 00	3,150 00	-237 00	101 00	257 62	2 00	-2 00	0 00
EOC hold 0.0°									
7,321 01	0 00	0 00	7,300 00	-237 00	101 00	257 62	0 00	0 00	0 00
East HL-State H #1 - PBHL-State H #1 - South HL-State H #1									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-State H #1	0 00	0 00	7,300 00	-237 00	101 00	646,392 20	528,285 50	32° 46' 37 164 N	104° 14' 28.693 W
- plan hits target									
- Circle (radius 10 00)									
South HL-State H #1	0 00	0 00	7,300 00	-247 00	111 00	646,382 20	528,295 50	32° 46' 37 065 N	104° 14' 28 576 W
- plan misses by 14 14ft at 7321.01ft MD (7300.00 TVD, -237 00 N, 101.00 E)									
- Rectangle (sides W0 00 H200.00 D0.00)									
East HL-State H #1	0 00	0 00	7,300 00	-247 00	111 00	646,382.20	528,295 50	32° 46' 37 065 N	104° 14' 28.576 W
- plan misses by 14 14ft at 7321 01ft MD (7300 00 TVD, -237 00 N, 101 00 E)									
- Rectangle (sides W800 00 H0 00 D0 00)									



Scientific Drilling
Planning Report



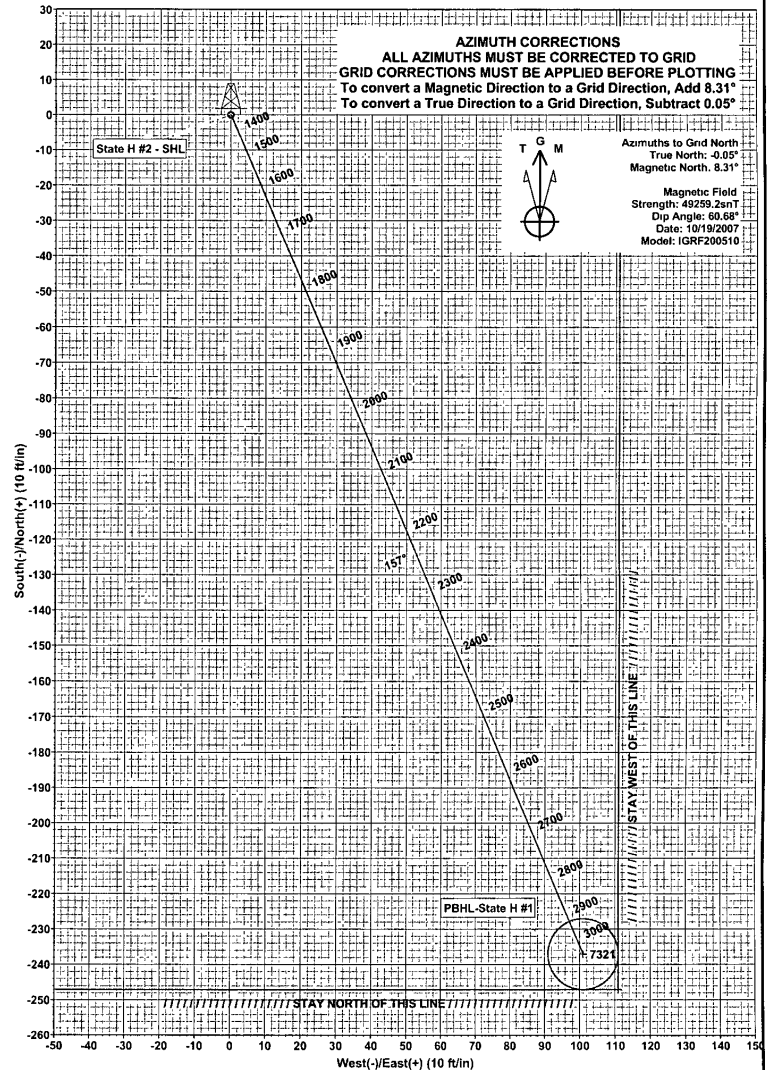
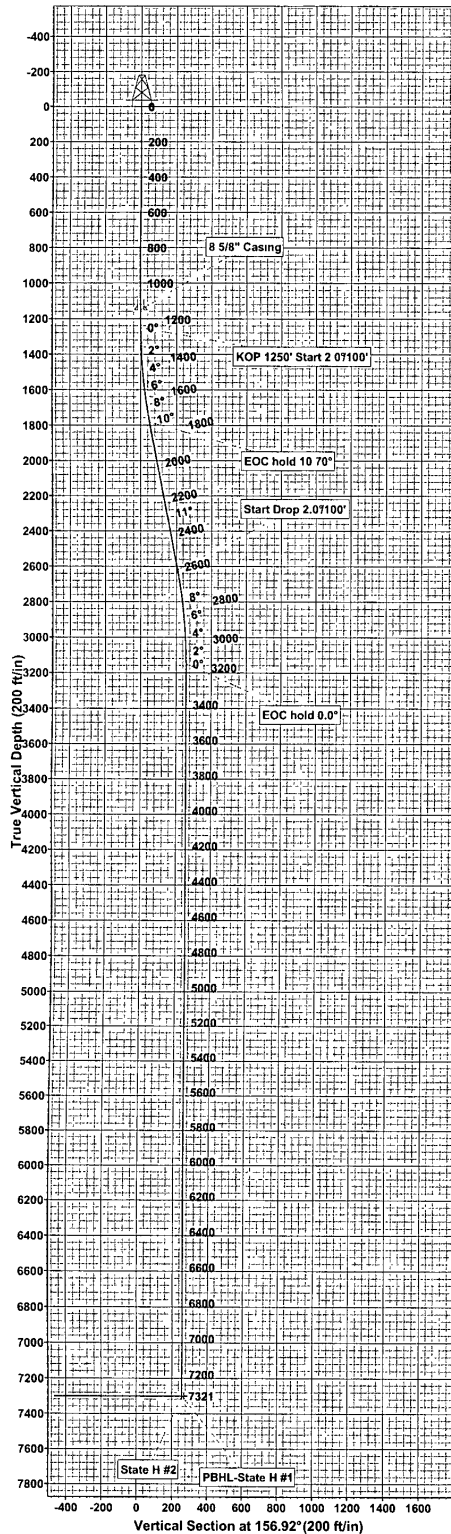
Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606 00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606 00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation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



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	2836.01	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	189.00	257.62	
6	7321.01	0.00	0.00	7300.00	-237.00	101.00	0.00	0.00	257.62	PBHL-State H #1

WELL DETAILS: State H #2

+N/-S	+E/-W	North	East	Latitude	Longitude	Slot
0.00	0.00	646629.20	528184.50	32°46'39.510 N 104°14'29.874 W		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
East HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46' 37.065 N	104°14' 28.576 W	Rectangle (Sides: 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 (Sides: 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 RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name STATE H
1. Type of Well: <input type="radio"/>		8. Well Number 002
2. Name of Operator MACK ENERGY CORP		9. OGRID Number 13837
3. Address of Operator PO BOX 960, , 11352 LOVINGTON HWY ARTESIA, NM 88211		10. Pool name or Wildcat
4. Well Location Unit Letter H : 2063 feet from the N line and 441 feet from the E line Section 2 Township 18S Range 27E NMPM Eddy County		
11. Elevation (Show whether DR, KB, BT, GR, etc.) 3590 GR		
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		
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 <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE OF PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> Other: _____	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTER CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> Other: Drilling/Cement <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.
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 Sherrell 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 <u>Depth Groundwater</u> 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 NMOC 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

Form C-104
Revised Feb. 26, 2007

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

FEB 26 2008
OCD-ARTESIA

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

1. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

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

10 H. Surface Location

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

11 Bottom Hole Location

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

III. Oil and Gas Transporters

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

IV. Well Completion Data

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

V. Well Test Data

31 Date New Oil 1/14/2008	32 Gas Delivery Date 1/14/2008	33 Test Date 1/30/08	34 Test Length 24 hours	35 Tbg. Pressure	36 Csg. Pressure
37 Choke Size 8	38 Oil 30	39 Water 30	40 Gas 30		41 Test Method P
42 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Jerry W. Sherrell</i>			OIL CONSERVATION DIVISION Approved by: <i>Kimberly M. Wilson</i> Title: <i>Compliance Officer</i> Approval Date: <i>3-5-08</i>		
Printed name: Jerry W. Sherrell			Title: Production Clerk		
E-mail Address: jerrys@mackenergycorp.com					

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

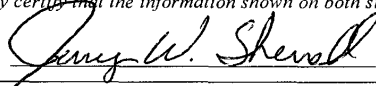
State of New Mexico
Energy, Minerals and Natural Resources Department

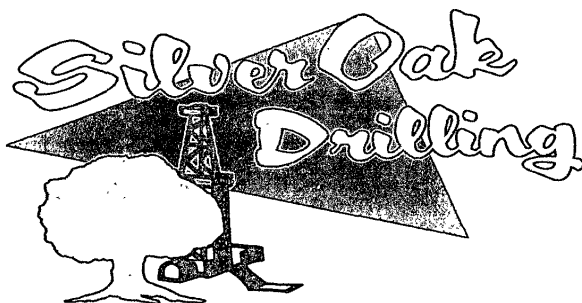
OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

Form C-105
Revised 1-1-89

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG							
1 Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____				7 Lease Name or Unit Agreement Name			
b Type of Completion NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> Deepen <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER _____				State H			
2 Name of Operator Mack Energy Corporation				8 Well No 2			
3 Address of Operator P.O. Box 960, Artesia, NM 88211-0960				9 Pool name or Wildcat Red Lake; Glorieta-Yeso, NE			
4 Well Location Unit Letter <u>H</u> : <u>2063</u> Feet From The <u>North</u> Line and <u>441</u> Feet From The <u>East</u> Line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM <u>Eddy</u> County							
10 Date Spudded 10/31/2007	11 Date TD Reached 11/21/2007	12 Date Compl (Ready to Prod.) 1/11/08	13 Elevations (DF & RKB, RT, GR, etc) 3590' GR	14 Elev Casinghead			
15 Total Depth 7545'	16 Plug Back TD 5265'	17 If Multiple Compl How Many Zones?	18 Intervals Drilled By	Rotary Tools Yes	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							
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25 TUBING RECORD		
					SIZE	DEPTH SET	PACKER SET
					2 7/8	4243'	
26 Perforation record (interval, size, and number) 6134.5-6434', .42, 57 CIBP @ 6020 w/35' cmt cap 5391-5957.5', .42, 92 CIBP @ 5300' w/35' cmt cap 4118.5-4197', .42, 40				27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.			
				DEPTH INTERVAL			AMOUNT AND KIND MATERIAL USED
							See C-103 for detail
28 PRODUCTION							
Date First Production 1/14/2008		Production Method (Flowing, gas lift, pumping - Size and type pump) 2 1/2x2x20' Pump				Well Status (Prod. or Shut-in) Producing	
Date of Test 1/30/08	Hours Tested 24 hours	Choke Size	Prod'n For Test Period	Oil - Bbl 8	Gas - MCF 30	Water- Bbl 30	Gas - Oil Ratio 3750
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl 8	Gas - MCF 30	Water- Bbl 30	Oil Gravity - API - (Corr.)	
29 Disposition of Gas (Sold, used for fuel, vented, etc) Sold						Test Witnessed By Robert C. Chase	
30 List Attachments Deviation Survey and Logs							
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief							
Signature 		Printed Name Jerry W. Sherrell		Title Production Clerk		Date 2/25/08	



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

FEB 26 2008
OCD-ARTESIA

November 30, 2007


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

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

Dear Sir,

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

Very truly yours,

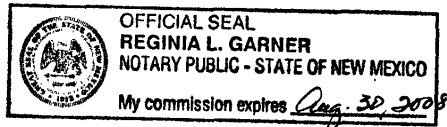

Leroy Curry
Drilling Superintendent

State of New Mexico }
County of Eddy }

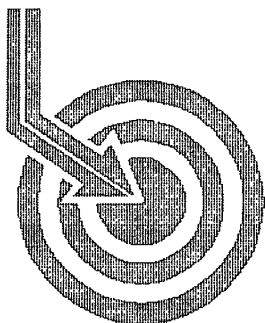
The foregoing was acknowledged before me this 30th day of November, 2007.



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

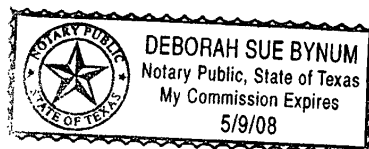
Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006
Survey: 11/05/07-11/14/07

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
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		Start Date: 11/05/2007	
MWD 1206'-7367'			
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



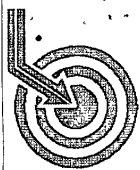
Scientific Drilling International Survey Report

Company: MACK ENERGY
Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006

Date: 12/16/2007 Time: 19:33:59 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0 00N,0.00E,156.92Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

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



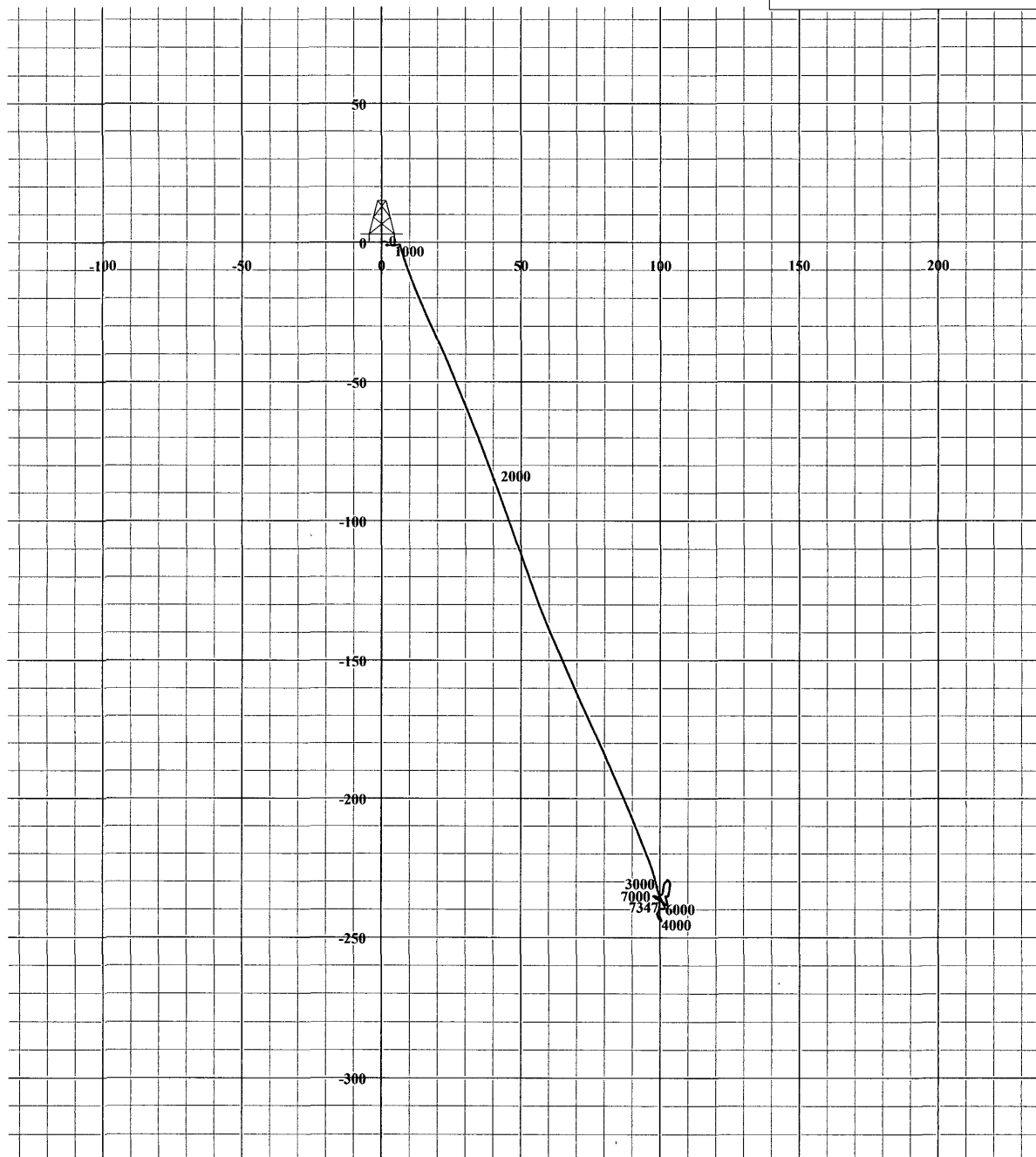
Scientific
Drilling

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



Adjusts to Grid North
True North 0.00°
Magnetic North 0.00°
Magnetic Field
Strength 0.01
Dip Angle 0.00°
Date 12/16/2007
Model gpr2000

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]

Wilson, Kimberly M, EMNRD

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

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

Donna –

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

Please contact me if you have any questions.

Thanks,

Mikal



Mikal M. Altomare

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

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3/5/2008

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3/5/2008

Submit 3 Copies To Appropriate District
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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:

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

SUBSEQUENT REPORT OF:

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

OTHER: ☐ OTHER: Workover ☒

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

NMOCD 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]
Conditions of Approval (if any):

TITLE Dist. Supervisor

DATE 9/26/12

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

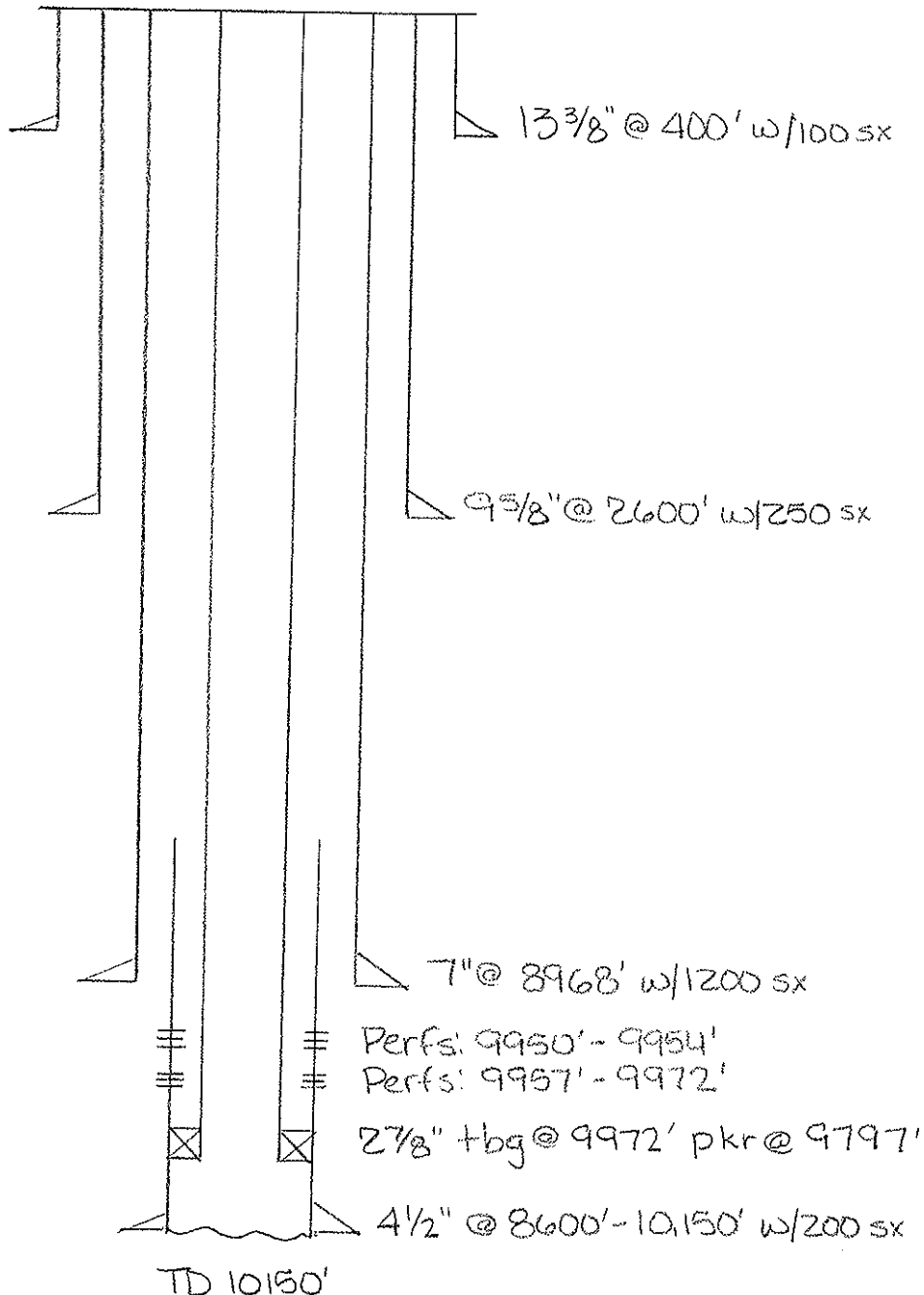
LOCATION Sec. 1 -T18S-R27E

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

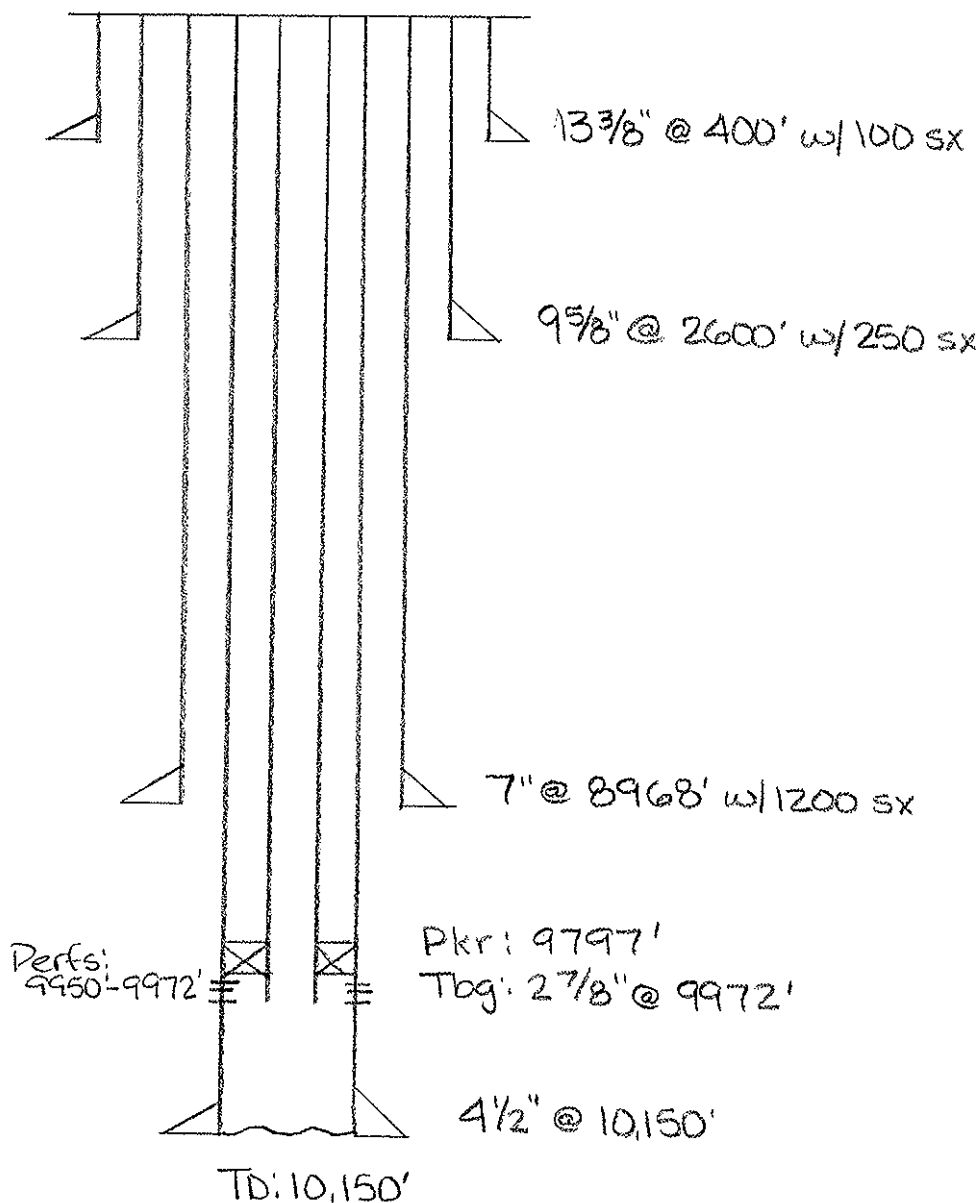
LOCATION Sec. 1 -T18S-R27E

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 test, ANSI 900 series is 3,000# psi working pressure, ANSI 1500 series is 5,000# psi work-pressure.

SCHEDULE ONE

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

CASING MINIMUM PERFORMANCE PROPERTIES

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

GRADE OF CASING: 85 % OF NEW

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

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

WELLBORE CONDITIONS

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

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

FINIAL CASING DESIGN

SAFETY 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

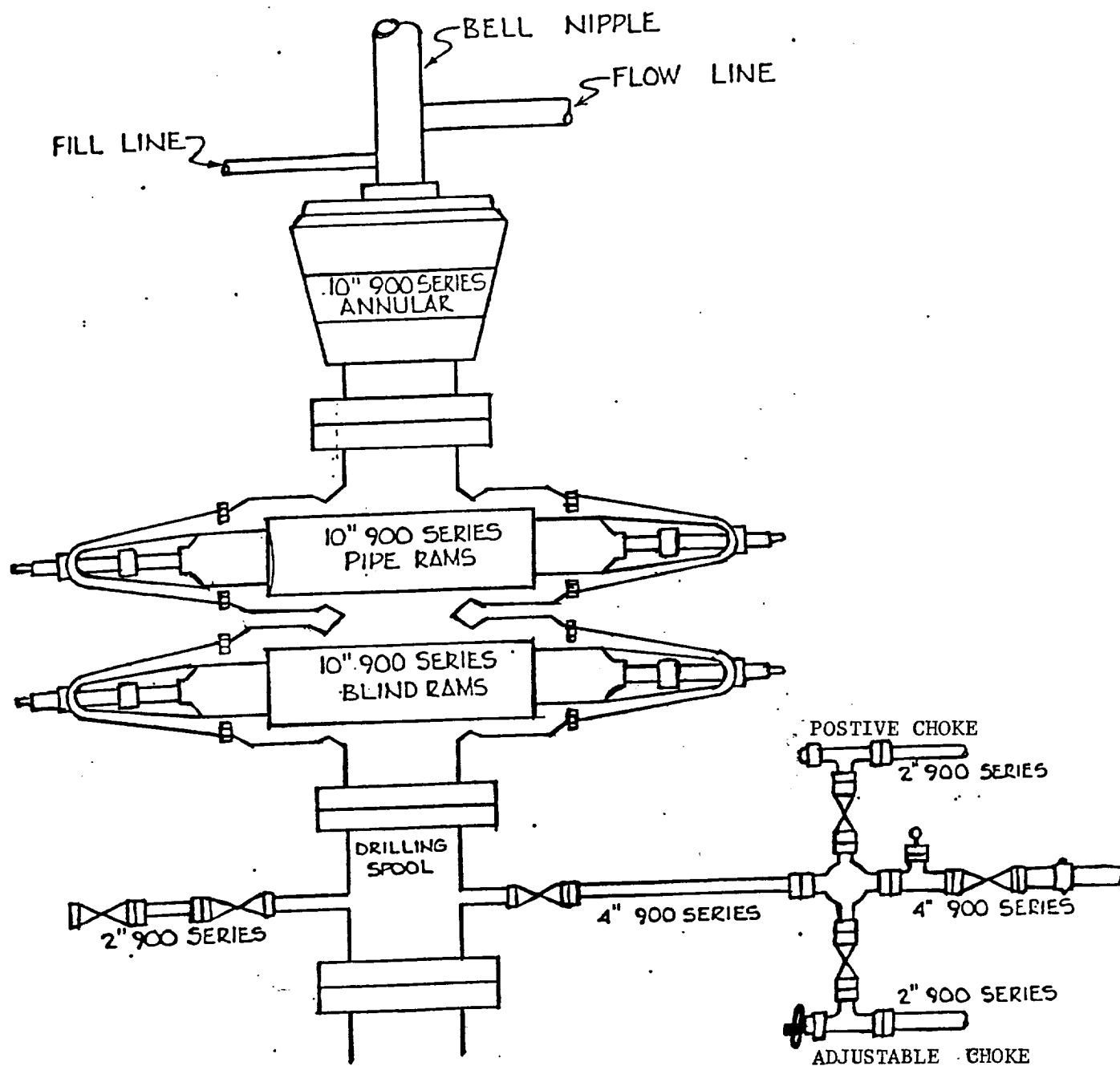
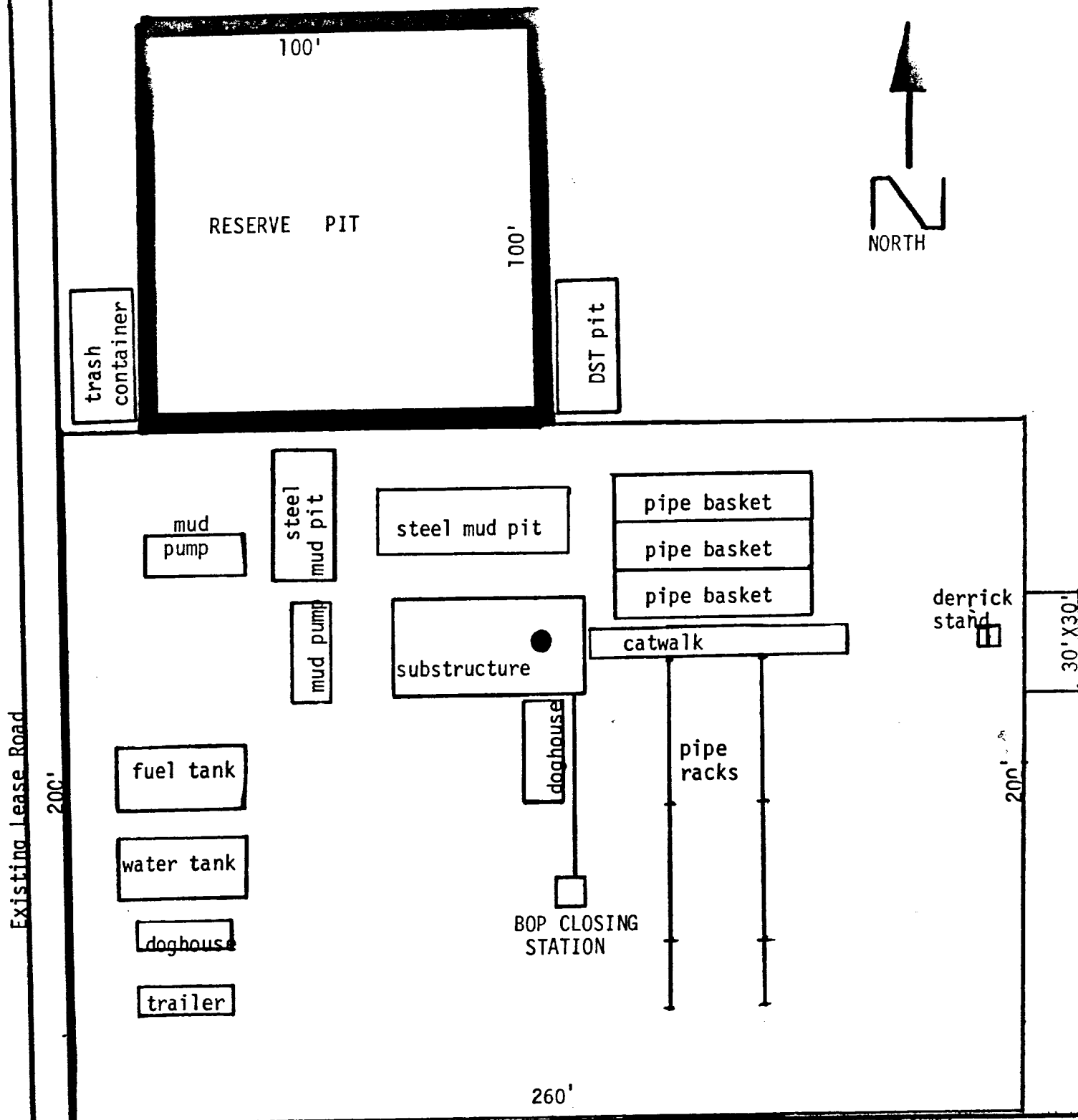


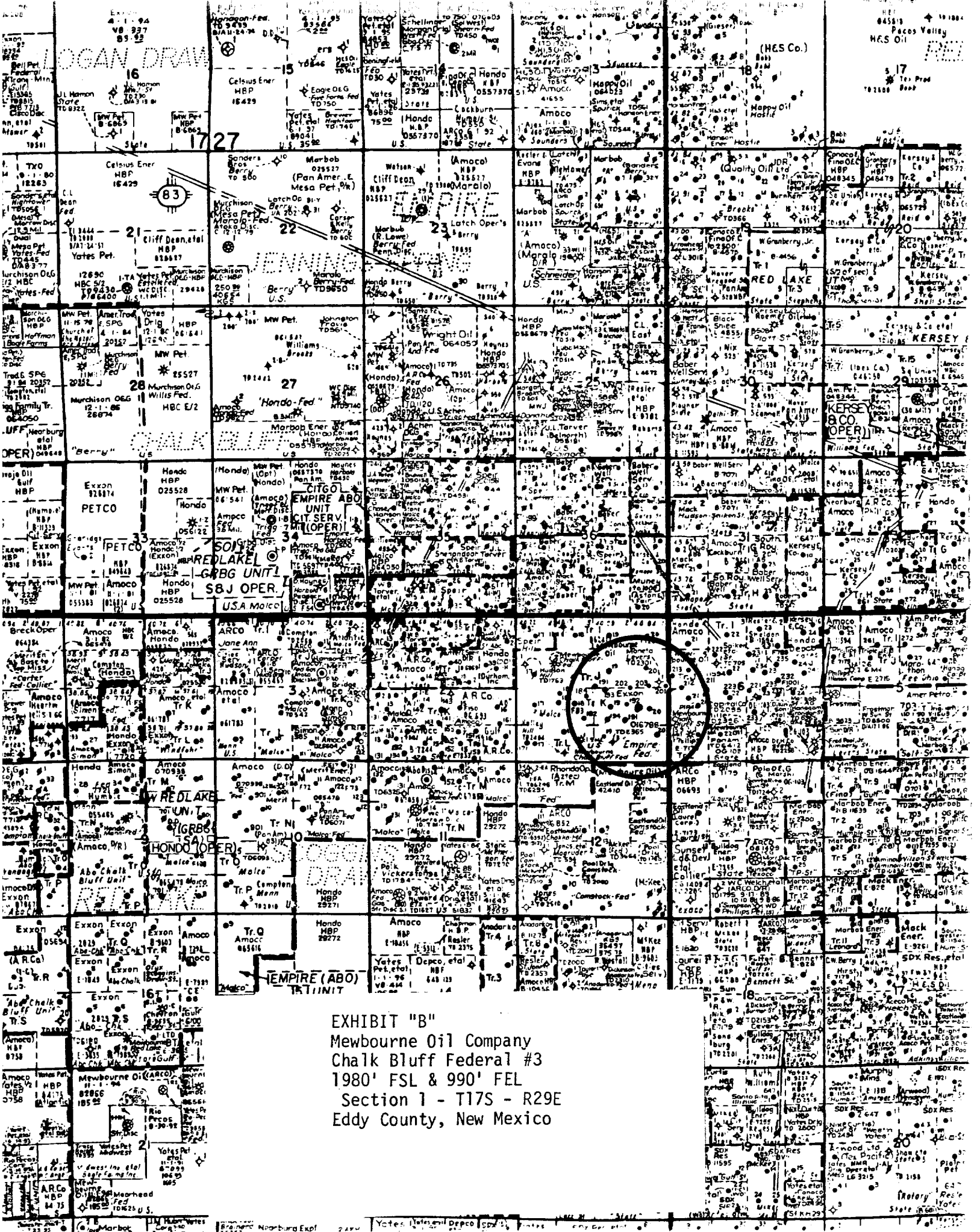
EXHIBIT "D"

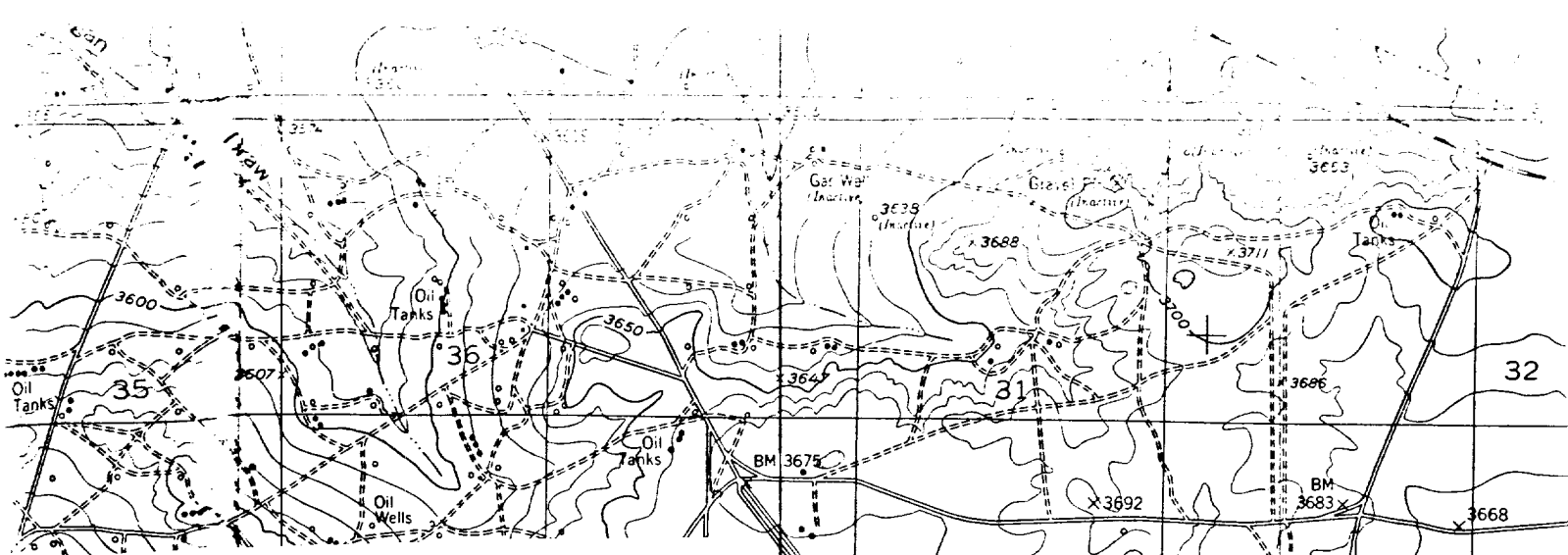
Mewbourne Oil Company
 Chalk Bluff Federal #3.
 1980' FSL & 990' FEL
 Section 1-T17S-R29E
 Eddy County, New Mexico



Existing lease road

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





Proposed location and existing access roads.

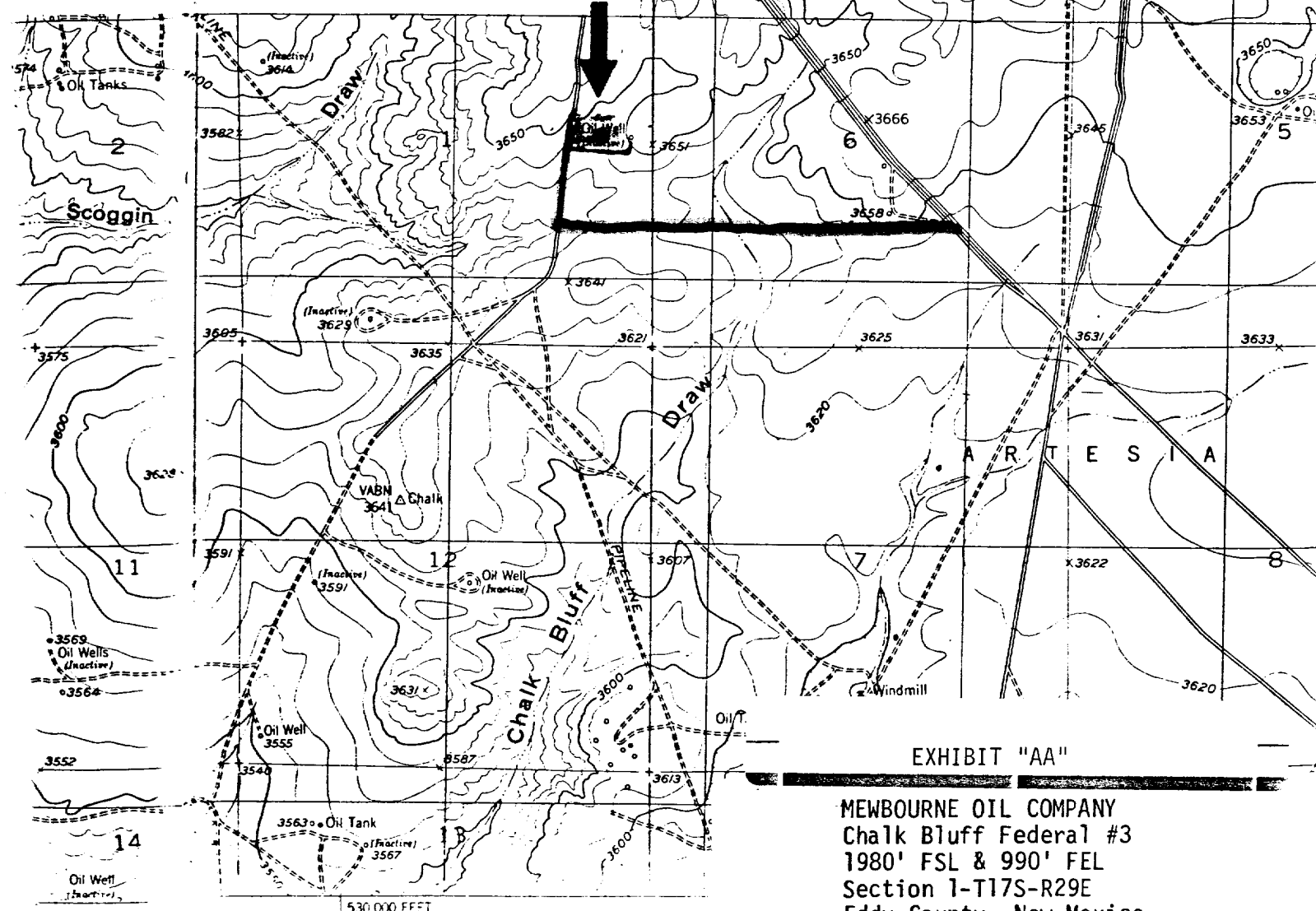


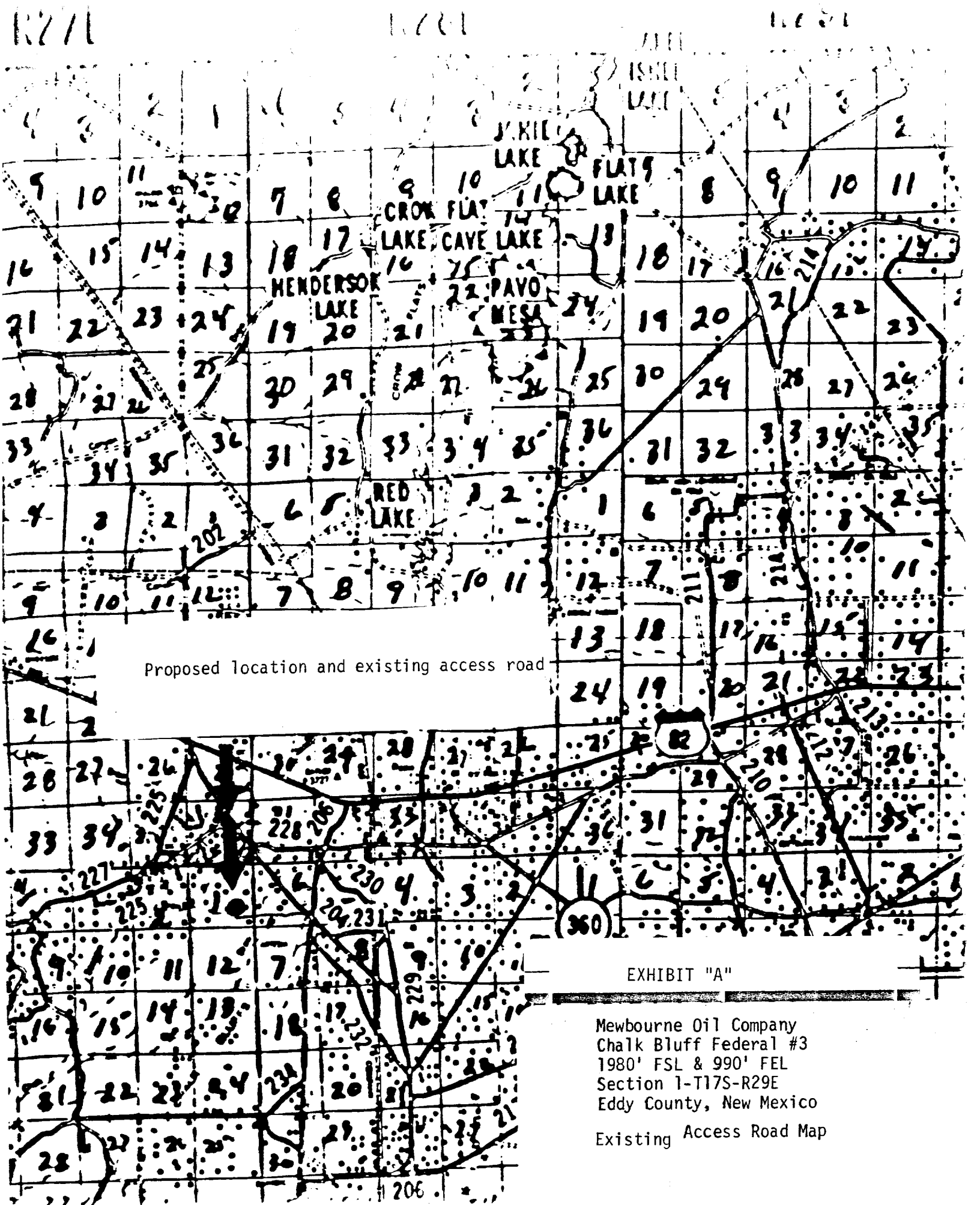
EXHIBIT "AA"

MEWBOURNE OIL COMPANY
Chalk Bluff Federal #3
1980' FSL & 990' FEL
Section 1-T17S-R29E
Eddy County, New Mexico
Detail Map for road and location.

Existing Roads

Proposed Location

Map prepared, edited, and published by the Geological Survey
Control by USGS and the BGS
Contours and drainage compiled from other photographs
© 1946. Topographic maps of the area surveyed 1955



Proposed location and existing access road

EXHIBIT "A"

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

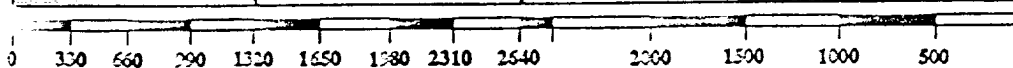
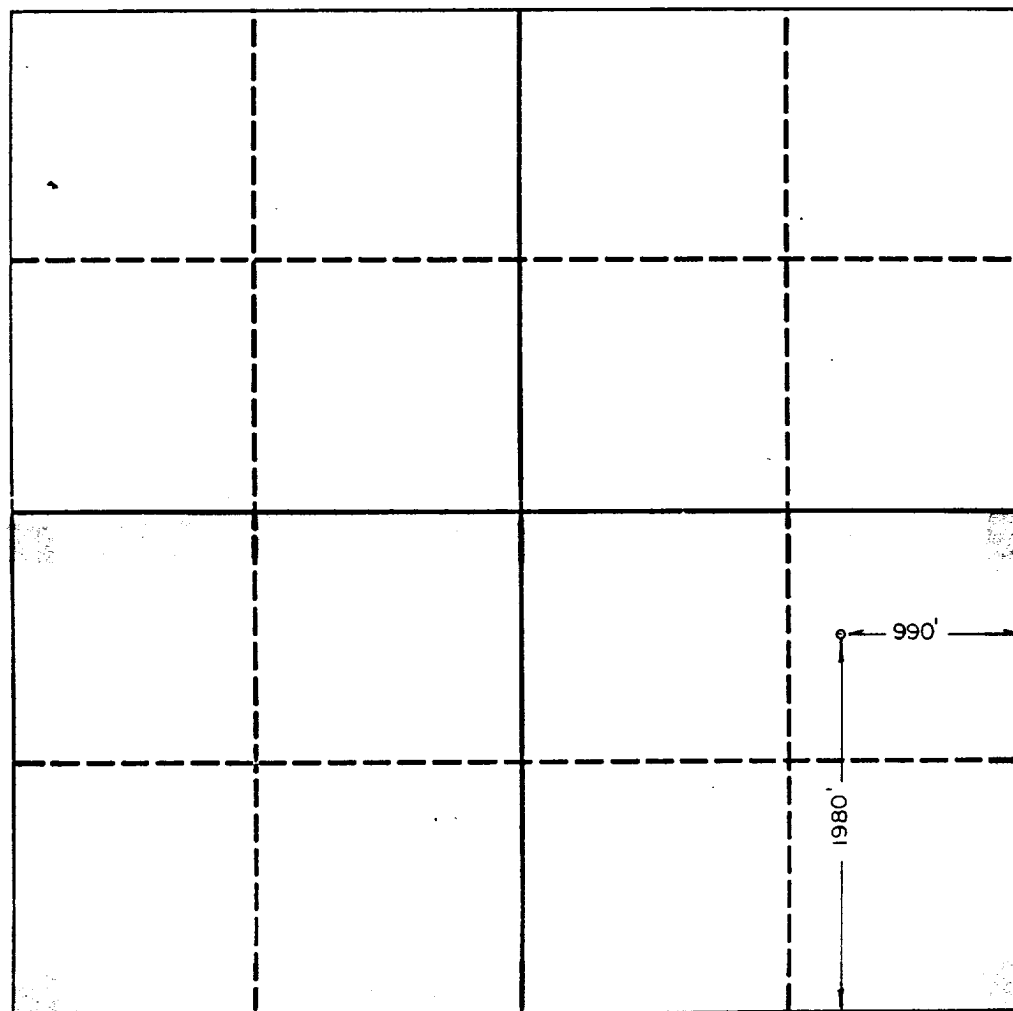
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator MEWBOURNE OIL COMPANY		Lease CHALK BLUFF FEDERAL		Well No. 3
Unit Letter I	Section 1	Township 18 SOUTH	Range 27 EAST	County EDDY
Actual Footage Location of Well: 1980 feet from the SOUTH line and 990 feet from the EAST line				
Ground level Elev. 3628	Producing Formation Morrow	Pool North Illinois Camp Morrow	Dedicated Acreage: 320 Acres	
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation <u>Communitization</u></p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)</p> <p>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>				



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

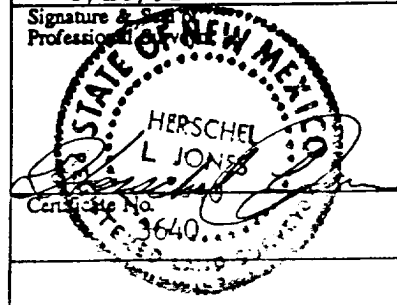
Date
August 31, 1992

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

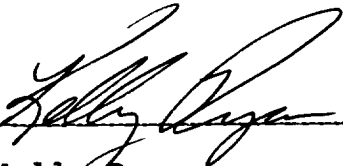
Signature & Seal of Professional Surveyor
Herschel L. Jones
Certificate No. **3640**



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 enviromental effects associated with this operation. The surface is owned by the Federal Government and is managed by the Bureau of Land Management.

1. **EXISTING ROADS:**

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

2. **LOCATION OF EXISTING WELLS**

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

3. **LOCATION OF PROPOSED ACTIVITIES:**

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-016788 0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chalk Bluff Fed. Comm.

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

North Illinois Camp Morrow

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

18S 27E
1-T17S-R29E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Mewbourne Oil Company

3. ADDRESS OF OPERATOR

Box 5270 Hobbs, New Mexico 88241

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

At surface

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

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

12 miles southeast of Artesia, New Mexico

15. DISTANCE FROM PROPOSED*

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

990'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

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

2040'

19. PROPOSED DEPTH

10,300'

20. ROTARY OR CABLE TOOLS

Rotary

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

3628' GR

22. APPROX. DATE WORK WILL START*

Upon BLM approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

No Water Basin

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	61#	400' ±	450 sks. Class C circulated
12 1/4"	9 5/8"	36#	2,600' ±	800 sks. Tie back into surface.
8 3/4"	5 1/2"	17 & 20#	10,300' ±	600 sks. of Class "H" - SEE SLIPS.

Mud Program:

0-400' Spud mud with fresh water gel and lime. LCM as needed.

400' - 2600' Fresh water gel and lime. LCM as needed.

2,600' - 8500' Cut brine with lime for pH control. Wt. 9.2 - 9.6# ppg, WL - NC. LCM as needed.

8,500 - 10,300' Cut brine with Drispac, salt gel, lime, soda ash, and starch. Wt. 9.2 - 9.6 ppg. WL 10 CC or less. Raise weight accordingly if abnormal pressures are encountered.

BOP PROGRAM:

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

Gas is not dedicated.

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

24.

SIGNED

TITLE District Superintendent

DATE 09/09/1992

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

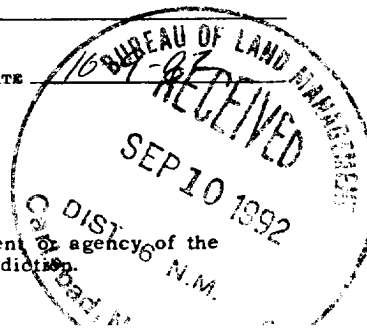
APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

*See Instructions On Reverse Side

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



INSTRUCTIONS

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

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

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

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

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

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

NOTICE

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

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

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

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

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

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

This information will be used to analyze and approve applications.

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

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special in-

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

SPECIFIC INSTRUCTIONS

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

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

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

NOTICE

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

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

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

ROUTINE USES:

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

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

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

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

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

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

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

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

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WFO-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

RECEIVED

JAN 04 1993

O. C. D.
APPROPRIATE

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal

9. API Well No.

Comm. #3

3001527163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., New Mexico

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

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

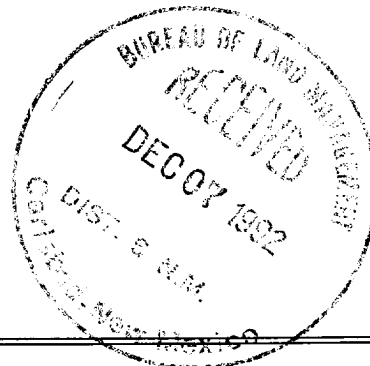
☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Cement 9-5/8" Inter.
Casing

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

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

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

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



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

Signed Bill Pierce

Title Drilling Supt.

Date 12-02-92

(This space for Federal or State office use)

Approved by David A. Glass Title _____

Date _____

Conditions of approval, if any:

GENERAL INSTRUCTIONS

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.

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 in-

SPECIFIC INSTRUCTIONS

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.

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

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

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241

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

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

5. Lease Designation and Serial No

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. 3

9. API Well No.

30-015-27163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy

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

TYPE OF SUBMISSION

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

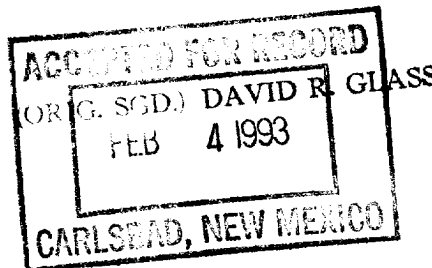
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Cement 7" casing
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

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

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



CARLSBAD, NEW MEXICO
JAN 25 9 40 AM '93

RECEIVED

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

Signed

Bill Pierce

Title Drilling Superintendent

Date 01/20/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #3

9. API Well No.

30-015-27163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy

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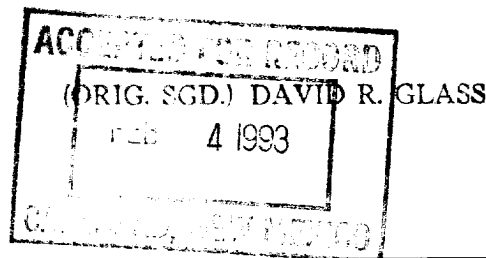
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Run 4-1/2" Liner
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

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

Drilled well to a total depth of 10,150' w/6" hole, ran 45 jts. of 4-1/2", 11.6#, N-80, used API casing and hung liner from 8599' to 10,150'. Western cemented w/200 sks. of Class "H" containing 5 pps CSE + 20 pps SF-3 + .9% CF-14 + 1 gal./100 sacks of Klay-Treat. Plug down to 10,113' @ 5:00 a.m. 01/06/93. Released rig and moved off location. 01/08/93



RECEIVED
JAN 25 9 40 AM '93
CABLE NEWS SERVICE
AREA

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

Signed Bill Pierce Title Drilling Superintendent Date 01/21/93

(This space for Federal or State office use)

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

SEC 1 TWN 18 RGE 27

API # 30-015-27163

OPERATOR MEWBOURNE OIL CO

WELL NAME CHALK BLUFF FEO Com #3

STATE OCD TOPS AS PER MARK ASHLEY

DATE 1-25-93

Southeastern New Mexico

Anhy	T. Canyon
Salt	T. Strawn 8932
Salt	T. Atoka 9490
Yates 450	T. Miss
7 Rivers 565	T. Devonian
Queen 1159	T. Silurian
Grayburg 1494	T. Monroya
San Andres 1485	T. Simpson
Glorieta 3535	T. McKee
Paddock	T. Ellenburger
Blinberry	T. Gr. Wash
Tubb 4760	T. Delaware Sand
Drinkard	T. Bone Springs
Abo 5745	T. Morrow LS 9710
Wolfcamp 6475	T.
Penn 7970	T.
Cisco (Bough C)	T.

Northwestern New Mexico

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

OIL OR GAS SANDS OR ZONES

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

IMPORTANT WATER SANDS

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

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

REMARKS:

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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

RECEIVED

JAN 9 1993

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

O. C. D.
APPROVED

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 XXX Federal or XXX	Lease No. NM-0557371
Location Unit Letter <u>I</u> : 1980 Feet From The <u>South</u> Line and 990 Feet From The <u>East</u> Line Section <u>1</u> Township <u>18S</u> Range <u>27E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	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 <u>I</u>	Sec. <u>1</u>	Twp. <u>18S</u>	Rge. <u>27E</u>	Is gas actually connected? Yes	When? 01/15/93

If this production is commingled with that from any other lease or pool, give commingling order number: None

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 11/24/92	Date Compl. Ready to Prod. 01/16/93	Total Depth 10,150'	P.B.T.D. 10,102'					
Elevations (DF, RKB, RT, GR, etc.) KB 3643' DF 3641' GL 3628'	Name of Producing Formation Lower Morrow	Top Oil/Gas Pay 9950'	Tubing Depth 9972'					
Perforations 9950'-9954' 9957'-9972'		Depth Casing Shoe 10,150'						
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
17-1/2"	13-3/8"	54.5#	400'		100 sacks <u>POSTED-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 + 215</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.

Signature R. A. Jones
Printed Name Robert A Jones Title Engineer
Date 01/19/93 Telephone No. (505) 393-5905

OIL CONSERVATION DIVISION

JAN 29 1993

Date Approved _____
By ORIGINAL SIGNED BY
MIKE WILLIAMS
Title SUPERVISOR, DISTRICT II

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

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.



LTR



Job separation sheet

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Alameda, NM 88210

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FOR APPROVED
OMB NO. 1004-0137
Expires December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

NM-0559371

6. IF INDIAN ALLOTTEE, NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chalk Bluff Fed. Comm. #3

9. API WELL NO.

30-015-27163

10. FIELD AND POOL, OR WILDCAT

N. Illinois Camp Morrow

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

Sec. 1-T18S-R27E

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐

2. NAME OF OPERATOR

Mewbourne Oil Company

3. ADDRESS AND TELEPHONE NO.

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

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

At surface

1980' FSL & 990' FEL

At top prod. interval reported below

At total depth Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

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, OR, 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

CABLE TOOLS

X

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

9950'-9954', 9957'-9972' Lower Morrow Orange Sand

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

SDL-DSN Dual-Latero-MFSL-GR Sonic CBL

27. WAS WELL CORRED

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	400'	17-1/2"	100 sx. Class "H"	None
9-5/8"	36#	2,600'	12-1/4"	250 sx. Class "C"	None
7"	26 & 29#	8,968'	8-3/4"	1200 sx. Class "C & H"	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4-1/2"	8600'	10,150'	200 sxs.	None

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	9972'	9797'
2-3/8"		

31. PERFORATION RECORD (Interval, size and number)

9950'-9954' 9957'-9972'

4 SPF 19' 76 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9950'-9954'	None
9957'-9972'	None

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
01/16/93		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
01/16/93	24	10/64"	→	50	2000	0	40 MCF/BBL
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
2720	0	→	60	2000	0		

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

Sold

35. LIST OF ATTACHMENTS

Logs- * Please hold in confidence

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

SIGNED

TITLE

Engineer

DATE 01/21/93

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

7. 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):

7. 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):				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'		



KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — ROSWELL DRILLING CONTRACTORS

RECEIVED

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

JAN 27 10 52 AM '93

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.

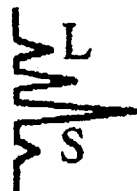
MY COMMISSION EXPIRES

October 07, 1996

NOTARY PUBLIC

RECEIVED JAN 07 1993

COMPANY :MEWBOURNE OIL		LEASE :CHALK BLUFF FED.COMWELL NO. :		3		Pc = 2273.2		Pc2 = 5167.4 *	
UNIT :I		SECTION : 1		TOWNSHIP : 18				*	
L :	9961	H :	9961	L/H :	1	G/GMIX :	0.849	Pt2 = 5031.9	Pw = 2244.7 *
%CO2 :	0.42	%N2 :	0.33	H2S :		DATE :		4810.1	2199.5 *
d :	2.278	Fr :	0.012892	GH :	8456.9	RANGE :	27	4465.6	2132.7 *
								4053.0	2055.4 *
=====									
									*
VOL 1 :	655	PSIA 1 :	2243.2	RESV.TEMP	173.6	Pc2-Pw2=	128.6	Pw2 = 5033.8 *	
VOL 2 :	1310	PSIA 2 :	2193.2				329.8	4837.6 *	
VOL 3 :	2283	PSIA 3 :	2113.2	SHUT-IN PR=	2273.2		618.9	4548.6 *	
VOL 4 :	3294	PSIA 4 :	2013.2				942.6	4224.8 *	
									*
								n = 0.884	*
									*
								Pc2/(Pc2-Pw2) =	40.184
									15.666
									8.350
									5.482
									*
LINE	RATE 1		RATE 2		RATE 3		RATE 4		*
	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	*
1	GM	0.655	0.655	1.310	1.310	2.283	2.283	3.294	3.294
2	TW	534	534	534	534	534	534	534	534
3	Ts	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6
4	T	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8
PR (est)		3.36		3.28		3.16		3.01	
5 Z(est)		0.727	0.738	0.727	0.736	0.723	0.733	0.731	0.730
6 TZ		424.5	430.8	424.6	429.5	425.2	427.7	426.5	426.0
7 GH/TZ		19.924	19.629	19.918	19.691	19.891	19.774	19.829	19.852
8 eS		2.111	2.088	2.110	2.093	2.108	2.099	2.104	2.105
9 l-e-S		0.526	0.521	0.526	0.522	0.526	0.524	0.525	0.525
10 Pt		2243.2	2243.2	2193.2	2193.2	2113.2	2113.2	2013.2	2013.2
11 Pt2 /1000		5031.9	5031.9	4810.1	4810.1	4465.6	4465.6	4053.0	4053.0
12 Fr		0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.0128924
13 Fc=FrTZ		5.472	5.555	5.474	5.537	5.481	5.514	5.498	5.492
14 FcSh		3.58	3.64	7.17	7.25	12.51	12.59	13.11	18.09
15 L/H(FcSh)		12.8	13.2	51.4	52.6	156.6	158.5	328.0	327.3
16 Fw		6.761363	6.896563	27.05758	27.47157	82.32401	82.97298	172.0865	171.83059
17 Pw2		5038.7	5038.8	4837.2	4837.6	4547.9	4548.6	4225.1	4224.8
18 Ps2		10636.7	10519.8	10208.7	10123.1	9588.7	9547.9	8897.4	8894.3
19 Ps		3261.4	3243.4	3195.1	3181.7	3096.6	3090.0	2981.2	2982.3
20 P		2752.3	2743.3	2694.2	2687.4	2604.9	2601.6	2497.2	2497.8
21 Pr		4.12	4.11	4.03	4.02	3.90	3.89	3.74	3.74
22 Tr		1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
23 I		0.733	0.733	0.736	0.735	0.733	0.732	0.730	0.730
									17.148
									14.915
									14.903
									14.823
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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:
------	---	--

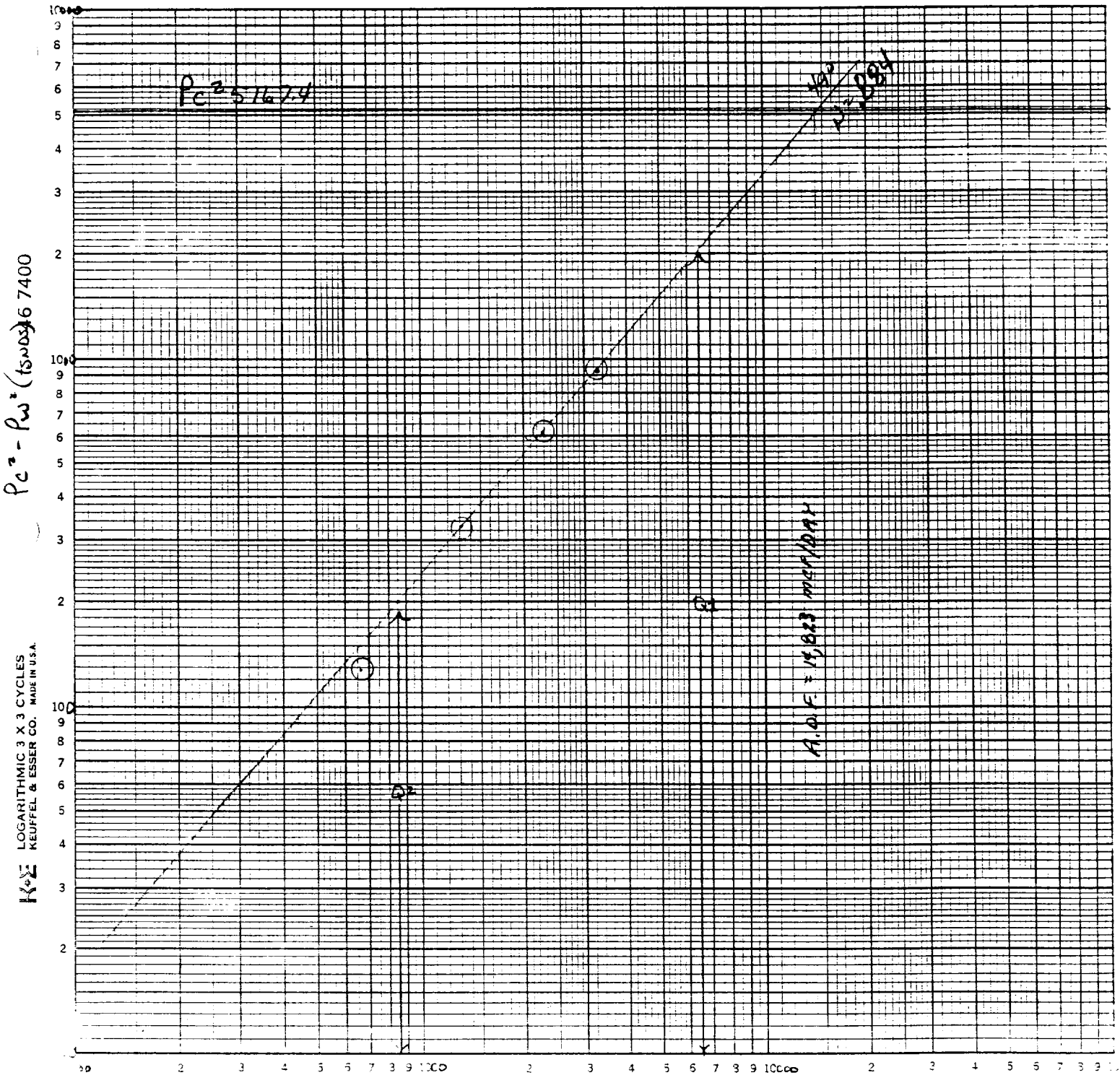
SAMPLE DATA:	DATE SAMPLED: 3/4/93 12:30PM	GAS (XX)	LIQUID ()
	ANALYSIS DATE: 03-05-93	SAMPLED BY:	R. Jones
	PRESSURE - PSIG 530.0	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F		
	ATMOS. TEMP. °F		

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



2 mcf/day

$\log Q = 3.31291$

$\log P_c^2 - P_w^2 = 2.92942$

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 Lr. - Sec. - TWP - Rge. 1 1 18S 27E	
Csg. Size 4 1/2	Wt. 10.5	d 4.052	Set At 3600 10150	Perforations: From: 9950 To: 9954			County EDDY		
Tbg. Size 2 3/8 & 2 7/8	Wt. 4.7 & 6.5	d 1.91 & 2.441	Set At 9972	Perforations: From: 9957 To: 9972			Pool MORROW NORTH ILLINOIS		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple subgke				Packer Set At 9797			Formation MORROW		
Producing Thru tbg. 9950		Reservoir Temp. °F 133		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Transwestern	
L 9950	H 9950	Gg .731	% CO ₂ .42	% N ₂ .33	% H ₂ S	Prover	Meter Run 3.068	Taps flg.	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifice X Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI						2260		Pkr.		48 hr.
1.	3 X 1.500		530	5	148	2230		"		1 hr.
2.	3 X 1.500		530	19	124	2180		"		1 hr.
3.	3 X 1.500		535	52	88	2100		"		1 hr.
4.	3 X 1.500		540	102	70	2000		"		1 hr.
5.										

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$h_w P_m$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11.13	52.12	543.2	.9248	1.170	1.043	655
2.	11.13	101.59	543.2	.9436	1.170	1.049	1310
3.	11.13	168.84	548.2	.9741	1.170	1.066	2283
4.	11.13	237.54	553.2	.9905	1.170	1.075	3294
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 23.63 Mcf/bbl.			
1.	.81	608	1.52	.919	A.P. I Gravity of Liquid Hydrocarbons 57.0 Deg.			
2.	.81	584	1.46	.909	Specific Gravity Separator Gas .731 XXXXXXXXXX			
3.	.82	548	1.37	.880	Specific Gravity Flowing Fluid XXXXXX G Mix .849			
4.	.83	530	1.32	.865	Critical Pressure 668 P.S.I.A. 664 P.S.I.A.			
5.					Critical Temperature 401 R 441 R			

P _c 2273.2 P _c ² 5167.4					1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4821$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.500$
NO.	P _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:
WELL TESTERS

Calculated By:
KS

Checked By:
KS

THE WESTERN COMPANY OF NORTH AMERICA

WATER ANALYSIS

HOBBS, NEK MEXICO LAB

ANALYSIS #: HE010251

GENERAL INFORMATION

OPERATOR: Mewbourne Oil Company	DEPTH: 0
WELL: Chalk Bluff Fed #3	DATE SAMPLED:
FIELD:	DATE RECEIVED: 02/24/93
FORMATION:	SUBMITTED BY: Leonard Pounds
COUNTY: Eddy	WORKED BY: M Keith
STATE: NM	PHONE #: 505-392-5556

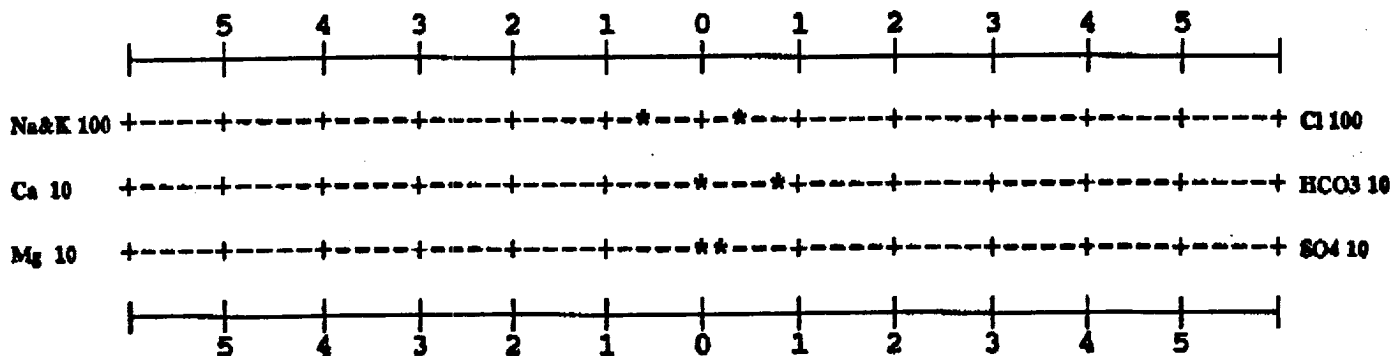
SAMPLE DESCRIPTION: all water

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY: 1.003 @ 70 °F	PH: 6.75
RESISTIVITY (MEASURED): 3 OHMS @ 0 °F	
IRON (FE++): 150 PPM	SULFATE: 100 PPM
CALCIUM: 10 PPM	TOTAL HARDNESS: 50 PPM
MAGNESIUM: 6 PPM	BICARBONATE: 487 PPM
CHLORIDE: 1595 PPM	SODIUM CHLORIDE (CALC): 2624 PPM
SODIUM+POTASS: 1243 PPM	TOT. DISSOLVED SOLIDS: 3474 PPM
KCL :no trace	OIL :none

REMARKS:

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

MK
M Keith

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS. COMMISSION

Drawer DD
Artesia, NM 88010

FORM APPROVED
Budget Bureau No. 1004-0111
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #3

9. API Well No.

30-015-27163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., N.M.

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

TYPE OF SUBMISSION

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

TYPE OF ACTION

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

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

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

- 1) Formation: Morrow
- 2) Amount of water produced 10 BW/mo.
- 3) Water analysis attached
- 4) Water is stored on lease in fiberglass tank
- 5) Produced water will be trucked by I & W Inc.
- 6) The disposal well is I & W Inc., Walter Solt #1, Unit Letter L, Section 5-T18S-R28E
Eddy County, New Mexico

SWD #318

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

Signed David R. Glass

Title Production Engineer

Date March 4, 1993

(This space for Federal or State office use)

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

Title PETROLEUM ENGINEER

Date 4/22/93

Conditions of approval, if any:

SEE ATTACHED

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

*See instruction on Reverse Side

COMPANY : MENDOURNE OIL LEASE : CHALK BLUFF FED. COMWELL NO. : 3
 UNIT : I SECTION : 1 TOWNSHIP : 15
 L : 9961 H : 9961 L/H : 1 G/GMIX : 0.849
 %CO2 : 0.42 %N2 : 0.33 H2S : DATE :
 d : 2.278 Fr : 0.012892 GH : 8456.9 RANGE : 27

Pc = 2273.2 Pc2 = 5167.4 *
 Pt2 = 5031.9 Pw = 2244.7 *
 4810.1 2199.5 *
 4465.6 2132.7 *
 4053.0 2055.4 *

VOL 1 : 655 PSIA 1 : 2243.2 RESV. TEMP 173.6 Pc2-Pw2 = 128.6 Pw2 = 5038.8 *
 VOL 2 : 1310 PSIA 2 : 2193.2 329.8 4837.6 *
 VOL 3 : 2283 PSIA 3 : 2113.2 SHUT-IN PR= 2273.2 618.9 4548.6 *
 VOL 4 : 3294 PSIA 4 : 2013.2 942.6 4224.8 *

PCR : 668 n = 0.884
 TCR : 401

Pc2/(Pc2-Pw2) = 40.184
 15.666
 8.350
 5.482

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND
1 QM	0.655	0.655	1.310	1.310	2.283	2.283	3.294	3.294
2 TW	534	534	534	534	534	534	534	534
3 Ts	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6
4 T	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8
PR (est)	3.36		3.28		3.16		3.01	
5 Z(est)	0.727	0.738	0.727	0.736	0.728	0.733	0.731	0.730
6 TZ	424.5	430.8	424.6	429.5	425.2	427.7	426.5	426.0
7 GH/TZ	19.924	19.629	19.918	19.691	19.891	19.774	19.829	19.852
8 eS	2.111	2.088	2.110	2.093	2.108	2.099	2.104	2.105
9 1-e-S	0.526	0.521	0.526	0.522	0.526	0.524	0.525	0.525
10 Pt	2243.2	2243.2	2193.2	2193.2	2113.2	2113.2	2013.2	2013.2
11 Pt2 /1000	5031.9	5031.9	4810.1	4810.1	4465.6	4465.6	4053.0	4053.0
12 Fr	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892
13 Fc=FrTZ	5.472	5.555	5.474	5.537	5.481	5.514	5.498	5.492
14 FcQm	3.58	3.64	7.17	7.25	12.51	12.59	18.11	18.09
15 L/H(FcQm)	12.8	13.2	51.4	52.6	156.6	158.5	328.0	327.3
16 Fw	6.761363	6.896568	27.05758	27.47157	82.32401	82.97298	172.0865	171.83059
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19 Ps	3261.4	3243.4	3195.1	3181.7	3096.6	3090.0	2981.2	2982.3
20 P	2752.3	2743.3	2694.2	2687.4	2604.9	2601.6	2497.2	2497.8
21 Pr	4.12	4.11	4.03	4.02	3.90	3.89	3.74	3.74
22 Tr	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
23 Z	0.738	0.738	0.736	0.735	0.733	0.732	0.730	0.730

[Pc2/Pc2-Pw2]n = 26.181
 11.386
 6.528
 4.500
 AOF= Q 17.148
 14.915
 14.903
 14.823



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr. R. Jones
P. O. Box 5270
Hobbs, New Mexico 88240

SAMPLE
IDENTIFICATION: Chalk Bluff #3
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

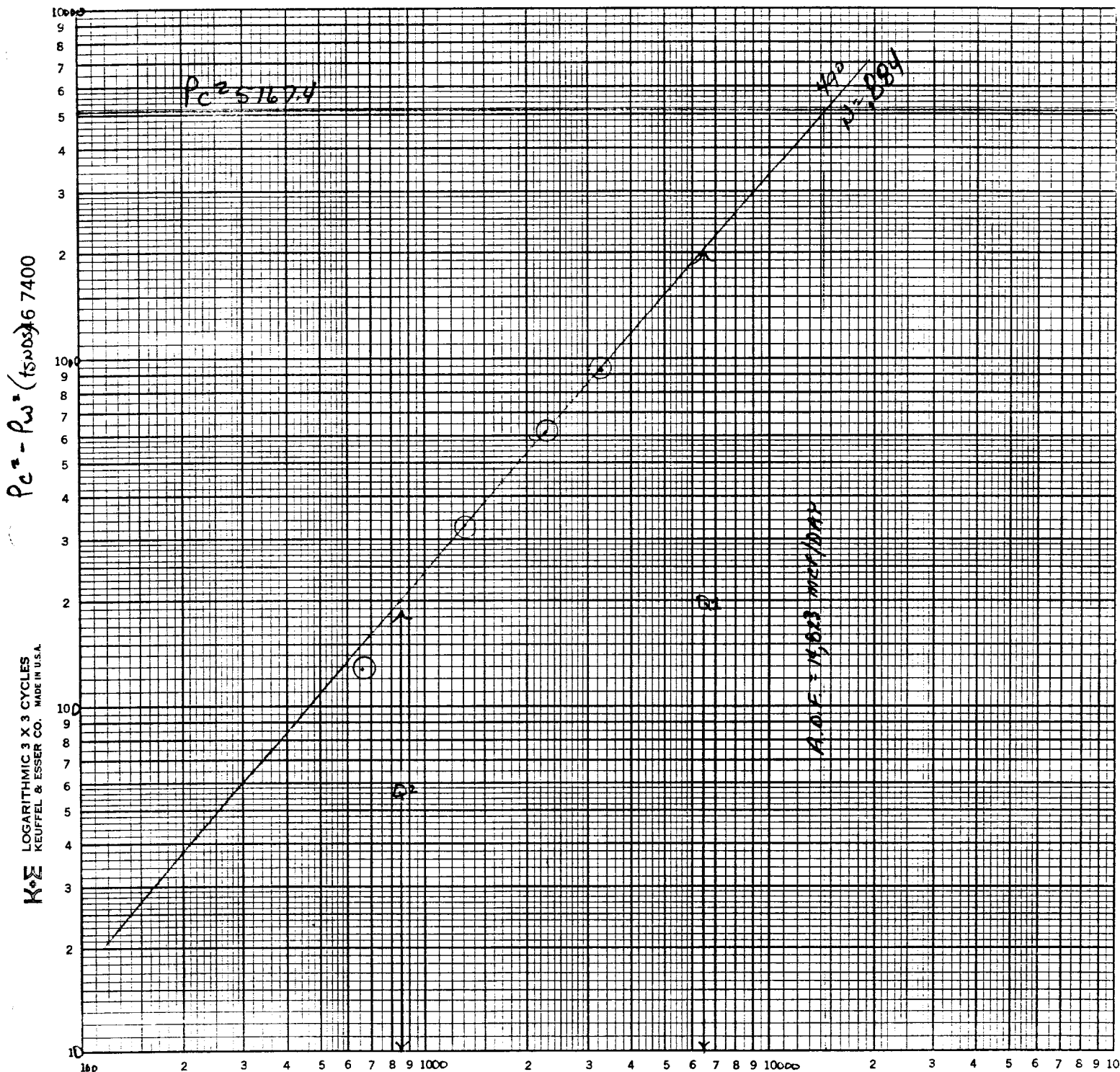
SAMPLE DATA:	DATE SAMPLED:	3/4/93 12:30PM	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	03-05-93	SAMPLED BY:	R. Jones
	PRESSURE - PSIG	530.0	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F			
	ATMOS. TEMP. °F			

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM	
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.33		
Carbon Dioxide	(CO2)	0.42		
Methane	(C1)	83.10		
Ethane	(C2)	8.14	2.164	
Propane	(C3)	3.14	0.862	
I-Butane	(IC4)	0.40	0.130	
N-Butane	(NC4)	0.86	0.270	
I-Pentane	(IC5)	0.39	0.140	
N-Pentane	(NC5)	0.41	0.147	
Hexane	(C6)	2.81	1.214	
Heptanes Plus	(C7+)	0.00	0.000	
		100.00	4.927	
BTU/CU.FT. - DRY		1269	MOLECULAR WT.	21.1701
AT 14.650 DRY		1265		
AT 14.650 WET		1239	26# GASOLINE -	1.591
AT 15.025 DRY		1298		
AT 15.025 WET		1304		
SPECIFIC GRAVITY -				
CALCULATED		0.731		
MEASURED				

MEWBOURNE OIL COMPANY
 Chalk Bluff Federal Com. Well #3
 1-18S-27E
 Eddy County, New Mexico
 3/4/93



Q MCF/DAY

$$\text{Log } Q_1 = 6500: \text{Log} = 3.81291$$

$$\text{Log } Q_2 = 8500: \text{Log} = 2.92942$$

$$\text{Slope } N = .88349 = .884$$

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

APR 08 1993

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWOURNE OIL COMPANY					Lease or Unit Name CHALK BLUFF FEDERAL COM.				
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 3/4/93		Well No. 3		
Completion Date 1/16/93		Total Depth 10150		Plug Back TD 10102		Elevation GL 3628'		Unit Ltr. - Sec. - TWP - Rge. I 1 18S 27E	
Csg. Size 4 1/2	Wt. 10.5	d 4.052	Set At 3600 10150	Perforations: From: 9950 To: 9954			County EDDY		
Tbg. Size 2 7/8	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		Baro. Press - P _a 13.2			Connection Transwestern		
9950	H 9950	Gg .731	% CO ₂ .42	% N ₂ .33	% H ₂ S	Prover	Meter Run 3.068	Taps flg.	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifice X Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI						2260		Pkr.		48 hr.
1.	3 X 1.500		530	5	148	2230		"		1 hr.
2.	3 X 1.500		530	19	124	2180		"		1 hr.
3.	3 X 1.500		535	52	88	2100		"		1 hr.
4.	3 X 1.500		540	102	70	2000		"		1 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11.13	52.12	543.2	.9248	1.170	1.043	655
2.	11.13	101.59	543.2	.9436	1.170	1.049	1310
3.	11.13	168.84	548.2	.9741	1.170	1.066	2283
4.	11.13	237.54	553.2	.9905	1.170	1.075	3294
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.81	608	1.52	.919	23.63	
2.	.81	584	1.46	.909	57.0	
3.	.82	548	1.37	.880		
4.	.83	530	1.32	.865		
5.						

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1.	5031.9	2244.7	5038.8	128.6
2.	4810.1	2199.5	4837.6	329.8
3.	4465.6	2132.7	4548.6	618.9
4.	4053.9	2055.4	4224.8	942.6
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4821$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.500$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14,823$

Absolute Open Flow	14,823	Mcf/d @ 15.025	Angle of Slope θ	49	Slope, n	.884
--------------------	---------------	----------------	-------------------------	-----------	----------	-------------

Remarks: **13.3 BBLS CONDENSATE PRODUCED DURING TEST**

Approved By Division	Conducted By: PRO WELL TESTERS	Calculated By: KS	Checked By: KS
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil & Gas Division
811 S. 1st
Artesia, NM 88212

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

Designation and Serial No.
NM 0557371

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

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

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P. O. Box 5270, Hobbs, NM 88241 505-393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FSL & 990' FEL of Section 1, T18S, R27E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #3

9. API Well No.
30-015-27163

10. Field and Pool, or Exploratory Area
N. Illinois Camp Morrow

11. County or Parish, State

Eddy

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

TYPE OF SUBMISSION

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

TYPE OF ACTION

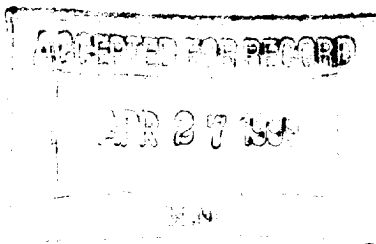
- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

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

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

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

Add Morrow perforations 9860' to 9870'.



(ORIG. SGD.) GARY GOURLEY

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

Signed [Signature]
(This space for Federal or State office use)

Title District Manager

Date 04/15/99

Approved by
Conditions of approval, if any:

Title

Date

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

*See Instruction on Reverse Side

Oxford[®]

ESSELTE

MADE IN U.S.A.

NO. R753 1/3

1-21-98

Spectral Density
Dual Speed Neutron

6365' - 8467'

400' - 10,100'

Comp. Sonic Log.

6365' - 8467'

Dual Induction Laterolog

6365' - 8501'

Dual Lat.

6365' - 8467'

8768' - 10,143'

MSL Gamma Collar

CBL Log

1340' - 10,700'

NSL-R-9760

R-9760

SD + NSL

11-4-92

SUBSURFACE

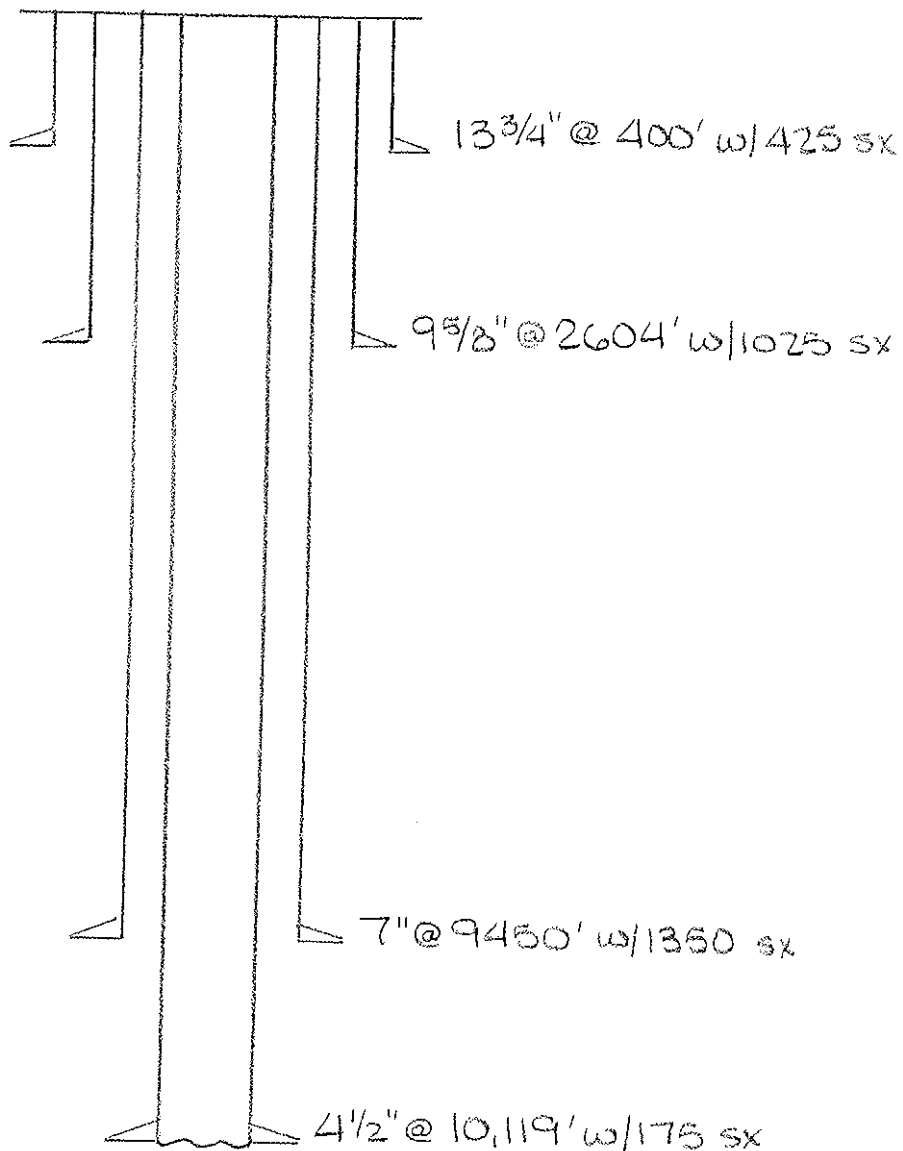
NAVAJO REFINING COMPANY

Map ID No. 83

Artificial Penetration Review

OPERATOR Navajo Refining Co.LEASE WDWWELL NUMBER 3DRILLED 12-22-90PLUGGED NASTATUS Active SWDLOCATION Sec. 6 -T18S-R27EMUD FILLED BOREHOLE NATOP OF INJECTION ZONE 7319'API NO. 30-015-26575

REMARKS: Calc. Top of Cement behind 7" @ 384'

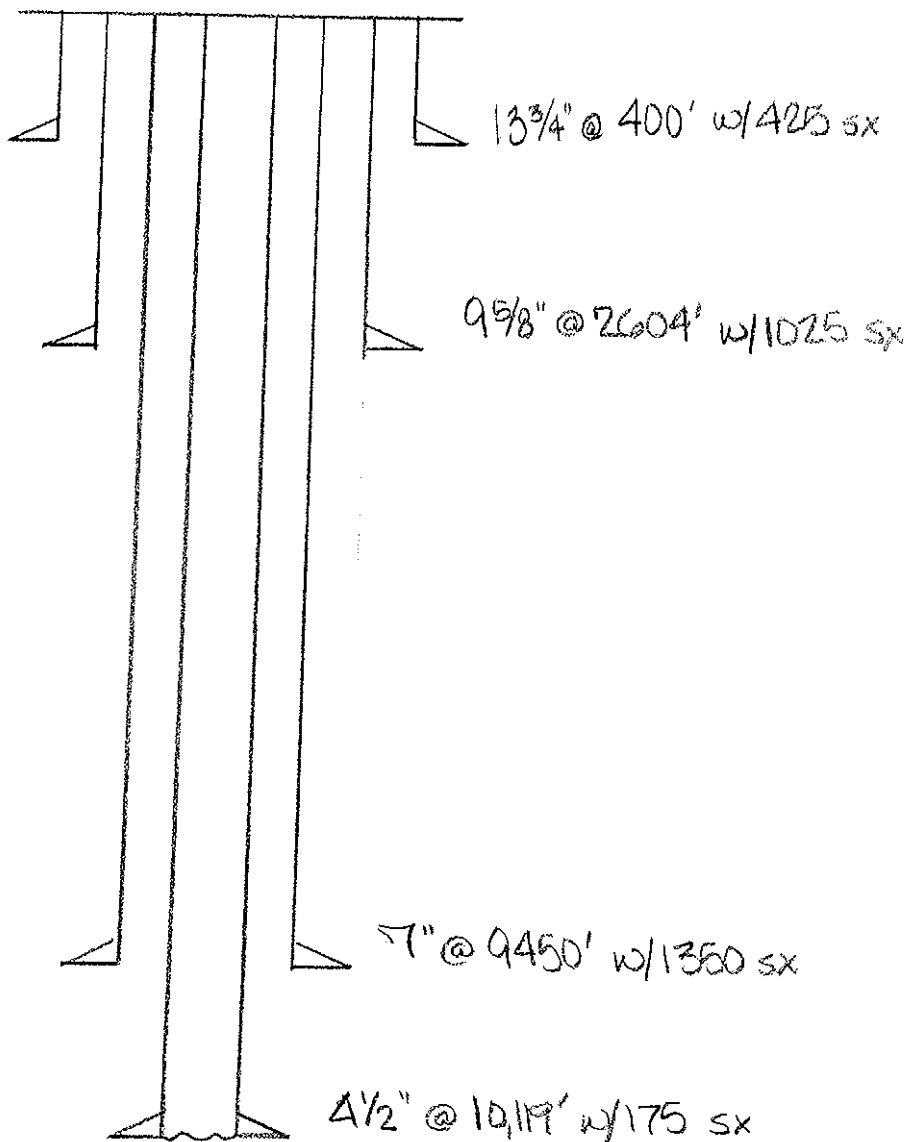


SUBSURFACE

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

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

C/SF

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal Comm #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy, NM

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

TYPE OF SUBMISSION

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

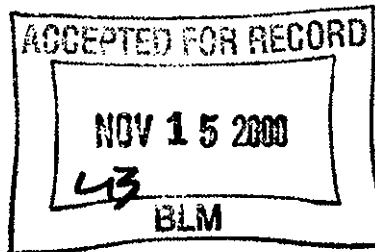
TYPE OF ACTION

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

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

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

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



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

Signed *N.M. Young*

Title N.M. Young District Manager

Date 11/01/00

(This space for Federal or State office use)

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

Title

Date

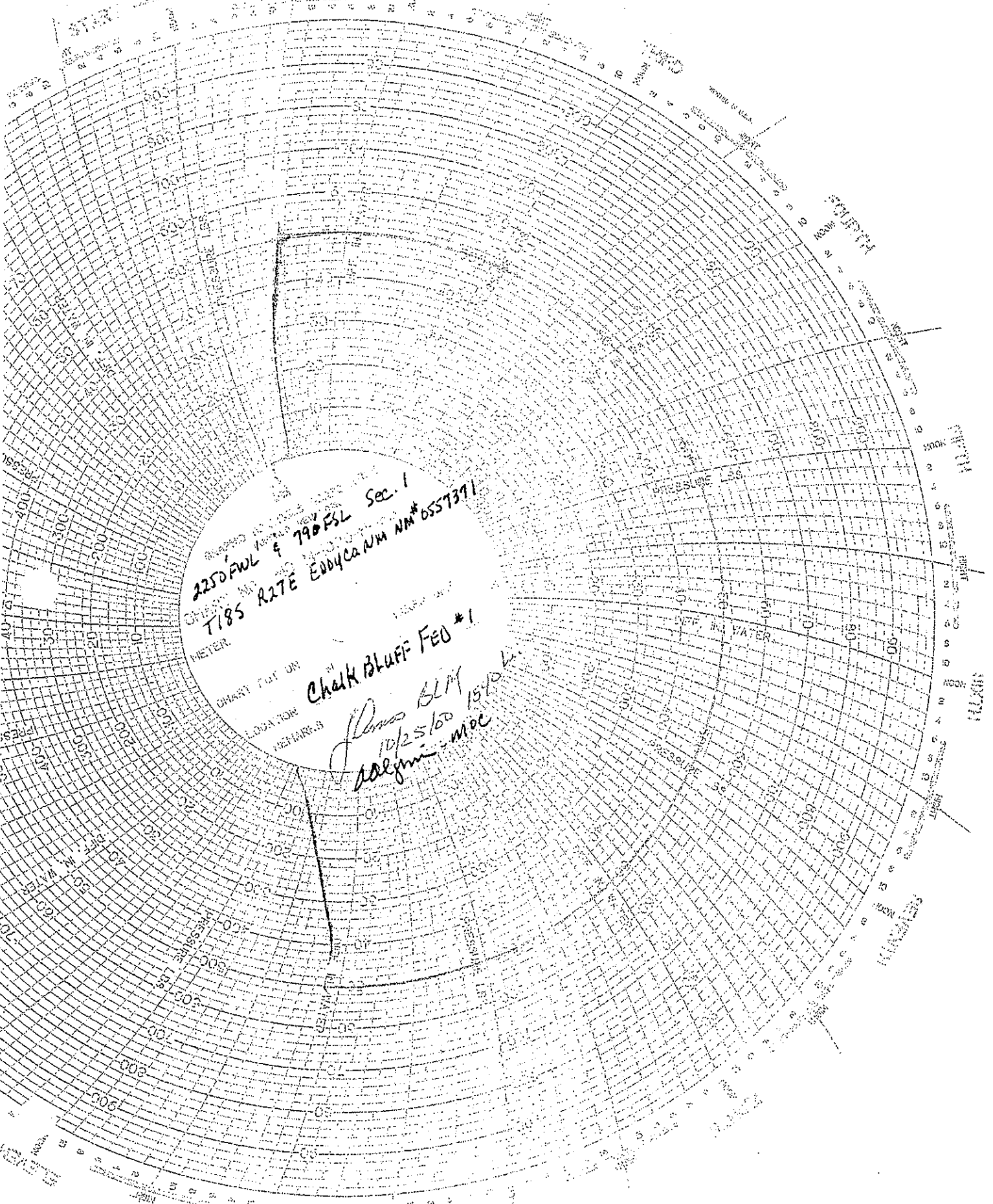
*Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

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

CHALK BLUFF FEO #1

Done BLM
10/25/00
adgim moc



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 20 1991

O. C. U.
ARTESIA, OFFICE

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P. O. Box 7698, Tyler, Texas 75711

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

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

CHALK BLUFF FED. COM #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

No. Illinois Camp Morrow

11. County or Parish, State

Eddy, New Mexico

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

TYPE OF SUBMISSION

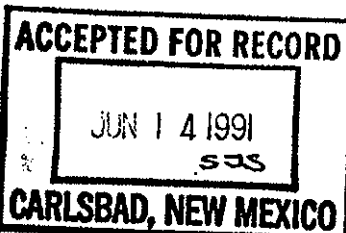
☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

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

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

4/24/91 - Western fracture treated Morrow Sand 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.



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

Signed Clayton Thompson Title Engr. Oprns. Secretary

Date 5/21/91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any: _____

Title _____ Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make 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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

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

TYPE OF SUBMISSION

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

TYPE OF ACTION

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

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

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

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

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

APPROVED FOR 12 MONTH PERIOD
ENDING 1/25/95

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

Signed

Robert G. Jones

Title Petroleum Engineer

Date 01/25/94

(This space for Federal or State office use)

Approved by

(ORIG SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 2/16/94

Conditions of approval, if any:

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

*See Instruction on Reverse Side

Form 3160-3
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NEW MEXICO OIL & GAS COMMISSION
Drawer DD
Alamosa, NM

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

NOV 17 1993

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(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 perfs. to 7792'. Squeeze held 2,000#.

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

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

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

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

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

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

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

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

9/25/93 Set CIBP @ 7010'.

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

Signed

Robert L. Jones

Title Petroleum Engineer

Date 10/05/93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

ACCEPTED FOR RECORD

Date

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

*See Instructions at READING NEW MEXICO

7 3160-5
: 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

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

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

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

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

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

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

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

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

- Recomplete in Cisco Formation - Test & evaluate.

- If uneconomical recomplete in Wolfcamp - Test & evaluate.

RECEIVED
SEP 22 10 48 AM '93
CART
AREA 1

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

Signed R. G. Jones

Title Petroleum Engineer

Date 09/07/93

(This space for Federal or State office use)

(ORIG. SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 10/15/93

Approved by _____
Conditions of approval, if any:

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

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 28 1992

O. C. D.

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed.Com.#1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N.Illinois Camp-Mor.-Gas

11. County or Parish, State

Eddy

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

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

TYPE OF SUBMISSION

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

TYPE OF ACTION

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

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

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

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

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

Signed

(This space for Federal or State office use)

Title Engr. Oprns. Secretary

Date 9/11/92

Approved by

Conditions of approval, if any:

Title

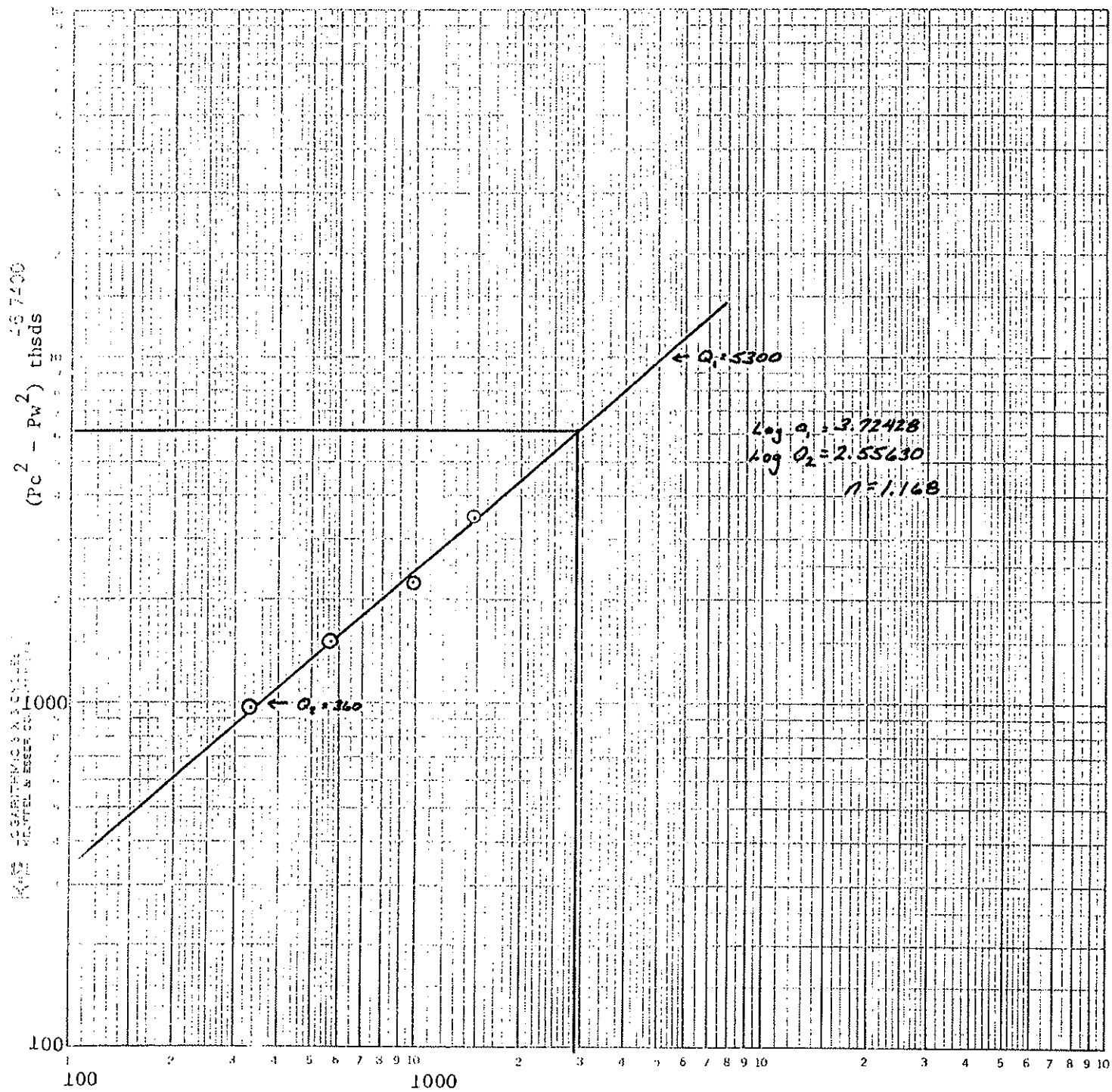
Date

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

*See Instruction on Reverse Side

RECEIVED

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



Q MCF/D

AOF = 2.9 MMCF/D



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

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

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

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

REMARKS:

COMPONENT ANALYSIS

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

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

Form C-122F
Adopted 9-1-65

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

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

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

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

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

Form C-1221
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE P_b or P_s

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

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

L 9949 H 9949 L/H 1.00 G .660 % 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 _r = (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	88983	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 _{cr} + 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

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

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

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

1	
2	
3	
4	

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

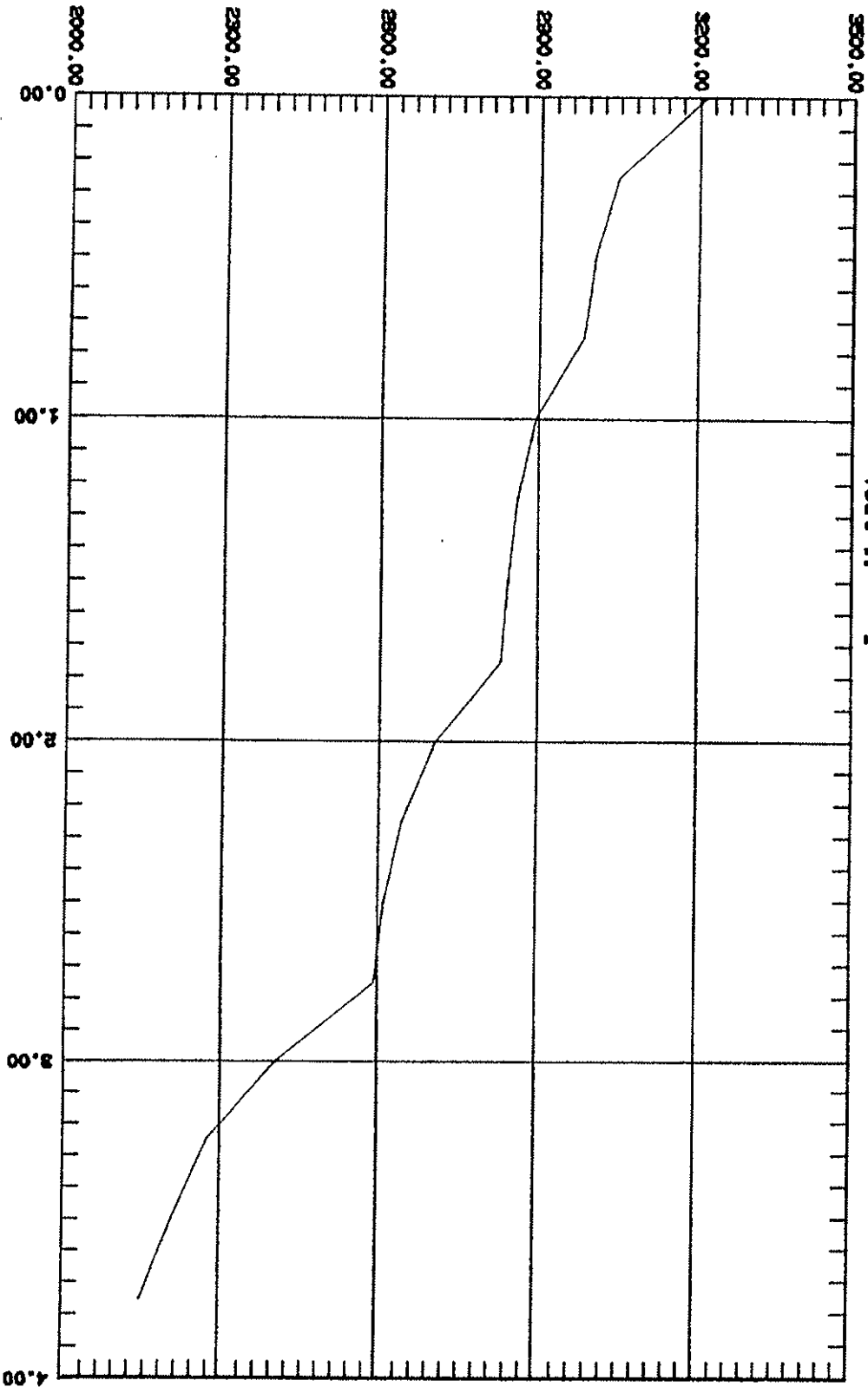
REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
9:45: 0	0.0000	3213.00		START RATE 1
10: 0: 0	0.2500	3046.00		
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00		START RATE 2
10:45: 0	1.0000	2894.00		
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00		START RATE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

Plot starting date: 3/15/91
time: 8:45: 0
Gauge S/N

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

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

PRESSURE - PSIA



DELTA TIME - HRS

UNITED STATES COMMISSION
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RENVR. ☐ Other _____

2. NAME OF OPERATOR
Mewbourne Oil Company ✓

3. ADDRESS OF OPERATOR
P. O. Box 7698, Tyler, Texas 75711

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2250' FWL & 790' FSL
At top prod. interval reported below
At total depth Same

CONFIDENTIAL
JUL 23 1992
O. C. D.

5. LEASE DESIGNATION AND SERIAL NO.
NM-0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chalk Bluff Federal Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

N. Illinois Camp Morrow

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

Sec. 1-T18S-R27

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

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

15. DATE SPUNDED 12/22/90 16. DATE T.D. REACHED 1/29/91 17. DATE COMPL. (Ready to prod.) 3/07/91 18. ELEVATIONS (DV, RKB, RT, OR, ETC.)* KB 3625', CM 3609'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 10,120' 21. PLUG, BACK T.D., MD & TVD 10,079' 22. IF MULTIPLE COMPL., HOW MANY* → 23. INTERVAL DRILLED BY X 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 9936-46', 9964-67' - Morrow 25. WAS DIRECTIONAL SURVEY MADE Yes 26. TYPE ELECTRIC AND OTHER LOGS RUN SDL-DSN, DLL-MSFL, DILL 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FULLED
13-3/8"	54.50#	400'	17-1/2"	425 - Circ	None
9-5/8"	36#	2604'	12-1/4"	1025 - Circ	None
7"	26# & 29#	9450'	8-3/4"	1350 - Circ	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	9051'	10119'	175		2-3/8"	9805'	9805'

31. PERFORATION RECORD (Interval, size and number)
9936-46', 9964-67'
13", 2 SPF, Total 28

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

DEPTH INTERVAL (MD)	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. 1600# CASING PRESSURE _____ CALCULATED 24-HOUR RATE → OIL—BBL. 1 GAS—MCF. 886 WATER—BBL. 0 OIL GRAVITY-API (CORR.) 58.00

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

Sold

TEST WITNESSED BY

W. H. CLOVER

35. LIST OF ATTACHMENTS

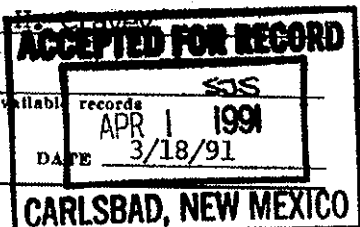
Logs

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

SIGNED *Raymond Thompson* TITLE Engr. Opms. Secretary

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

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



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

38. GEOLOGIC MARKERS

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



KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

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

February 05, 1991

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

REF: Chalk Bluff Fed Comm #1

Gentlemen:

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

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

Sincerely,

Arnold Newkirk
Vice-President

STATE OF NEW MEXICO)

COUNTY OF CHAVES)

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

MY COMMISSION EXPIRES

October 07, 1992

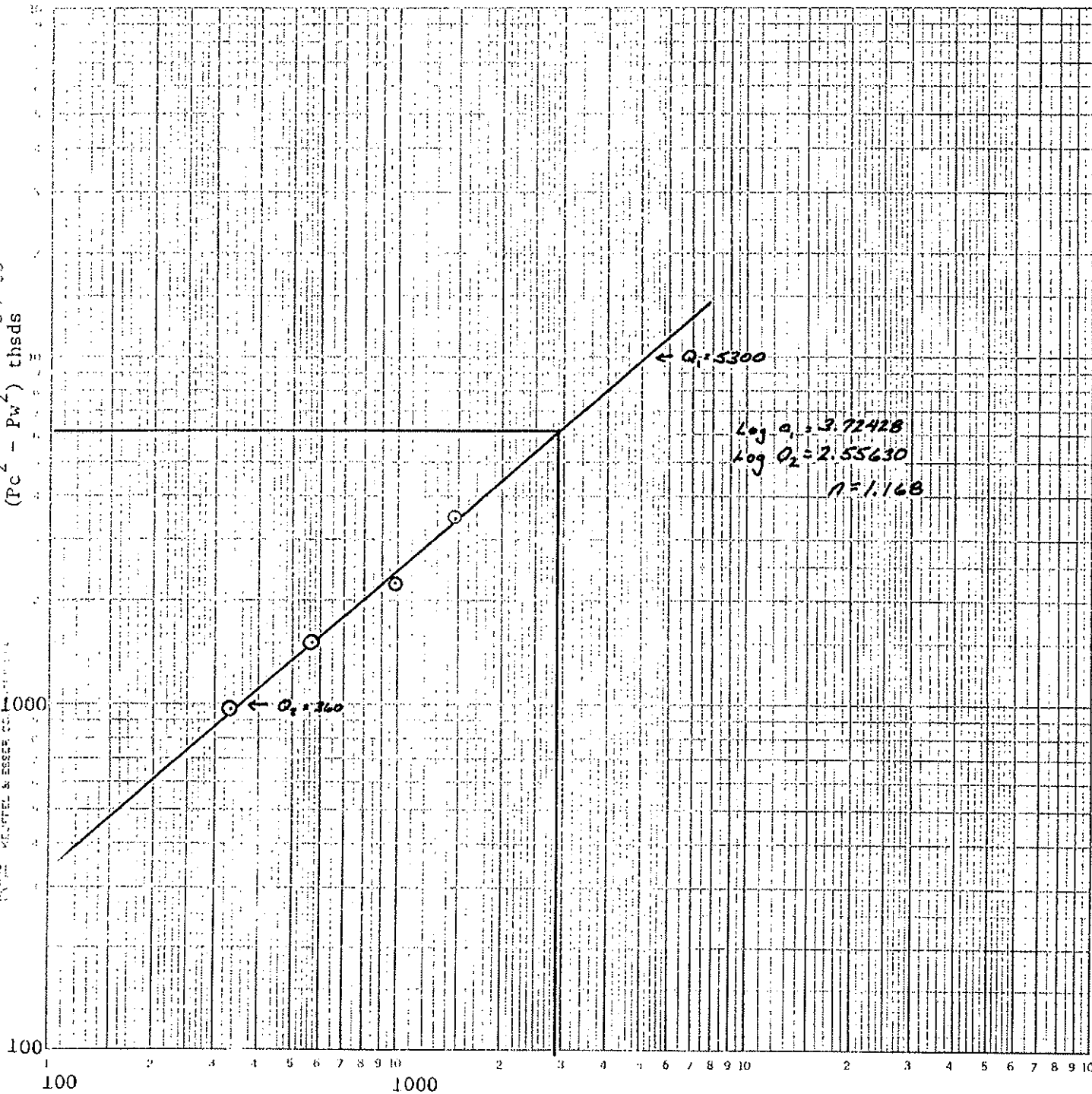
NOTARY PUBLIC

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 03/15/91									
Company Mewbourne Oil Company		Connection Transwestern									
Pool Undesignated		Formation Morrow									
Completion Date 03/05/91		Plug Back TD 10,075'									
Total Depth 10,120'		Perforations From 9936' To 9967'									
Casing Size 4 1/2"		Well No. 1									
Wellbore Size 5 1/2"		Unit N 1 18S 27E									
Wellbore Size 2 7/8"		County Eddy									
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single Gas		Packer Set At 9805'									
Producing Thru Tbg. 148 # 10,120		Baro. Press. - P _a 13.2									
L 9949		H 9949									
Cg .660		% CO ₂ .43									
% N ₂ .42		% H ₂ S ---									
Prover 3.068		Motor Run Fig.									
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	Duration of Flow	
SI	S.I.					2380				72 Hr.	
1.	3 X 1.125		426.8	4	51	2175		Pkr.		1 Hr.	
2.	3 X 1.125		446.8	11	51	2070		Pkr.		1 Hr.	
3.	3 X 1.125		446.8	32	51	1900		Pkr.		1 Hr.	
4.	3 X 1.125		426.8	72	45	1605		Pkr.		1 Hr.	
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd				
1	6.217	41.952	440	1.009	1.225	1.048	337				
2	6.217	71.134	460	1.009	1.225	1.051	574				
3	6.217	121.326	460	1.009	1.225	1.051	980				
4	6.217	177.989	440	1.015	1.225	1.051	1446				
5											
NO.	P ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Gas Mcf/bbl.						
1	.65	511	1.37	.910	A.P.I. Gravity of Liquid Hydrocarbons Deg.						
2	.68	511	1.37	.906	Specific Gravity Separator Gas .660 XXXXXXXXXX						
3	.68	511	1.37	.906	Specific Gravity Flowing Fluid XXXXX						
4	.65	505	1.35	.905	Critical Pressure 673 P.S.I.A. P.S.I.A.						
5					Critical Temperature 374 R R						
P _c 2472 P _c ² 6110.7											
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.784$			(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.967$			
1		2264	5125	985.7	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.844$						
2		2147	4609	1501.7							
3		1966	3865	2245.7							
4		1639	2686	3424.7							
5											
Absolute Open Flow 2,844 Mcfd @ 15.025								Angle of Slope 41°		Slope, n 1.168	
Remarks: Well made 0 bbl. fluid during test											
Approved By Division			Conducted By: Greg Milner			Calculated By: Greg Milner			Checked By: Bill Pierce		

157400
($P_c^2 - P_w^2$) thsds

LOG PERMEABILITY INDEX
(K) & LOG Q



Q MCF/D

AOF = 2.9 MMCF/D



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

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

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

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

REMARKS:

COMPONENT ANALYSIS

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

WORK SHEET FOR CALCULATION OF WELL BOTTOM HOLE PRESSURE (P_b or P_{wh})

Form C-122P
Adopted 9-1-65

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

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

H 9949 L/H 1.000 G .660 % CO₂ .43 % N₂ .42 % H₂S ---

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

TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1 T _w (W.H. °R)	532	532						
2 T _s (B.H. °R)	608	608						
3 T _f ($\frac{T_w + T_s}{2}$)	570	570						
4 Z (Est.)	.800	.790						
5 T _Z	456.0	450.4						
6 GH/TZ	14.399	14.578						
7 e ^S (Table XIV)	1.716	1.727						
8 P _f or P_{wh}	3249	3249						
9 P _f ² or P_{wh}²	10556	10556						
10 P _c ² = P _f ² /e ^S or P_{wh}²/e^S	6151.7	6110.6						
11 P _c or P_{wh}	2480.3	2472.0	= P _c					
12 P _r = ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	2864.6	2860.5						
13 P _r = (P/P _{CT})	4.26	4.25						
14 T _r = (T/T _{CT})	1.52	1.52						
15 Z (Table XI)	.790	.790						

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

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

Form C-1221
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (or P_s)

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

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

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

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

TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	532	532	532	532	532	532	532
2	T _s (B.H. °R)	608	608	608	608	608	608	608
3	T = ($\frac{T_w + T_s}{2}$)	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_s or P _s	2983	2983	2831	2831	2593	2152	2152
9	P_s or P _s ²	88983	8898.3	8014.6	8014.6	6723.6	4631.1	4631.1
10	P_s = 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 = ($\frac{P_w + P_s}{2}$) or ($\frac{P_s + P_i}{2}$)	2643.1	2623.6	2489.8	2488.9	2279.8	1891.7	1895.3
13	P _r = (P/P _{CT})	3.93	3.90	3.70	3.70	3.39	2.81	2.82
14	T _r = (T/T _{CT})	1.52	1.52	1.52	1.52	1.52	1.52	1.52
15	Z (Table XI)	.783	.783	.781	.780	.780	.792	.792

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

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

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

1	
2	
3	
4	

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

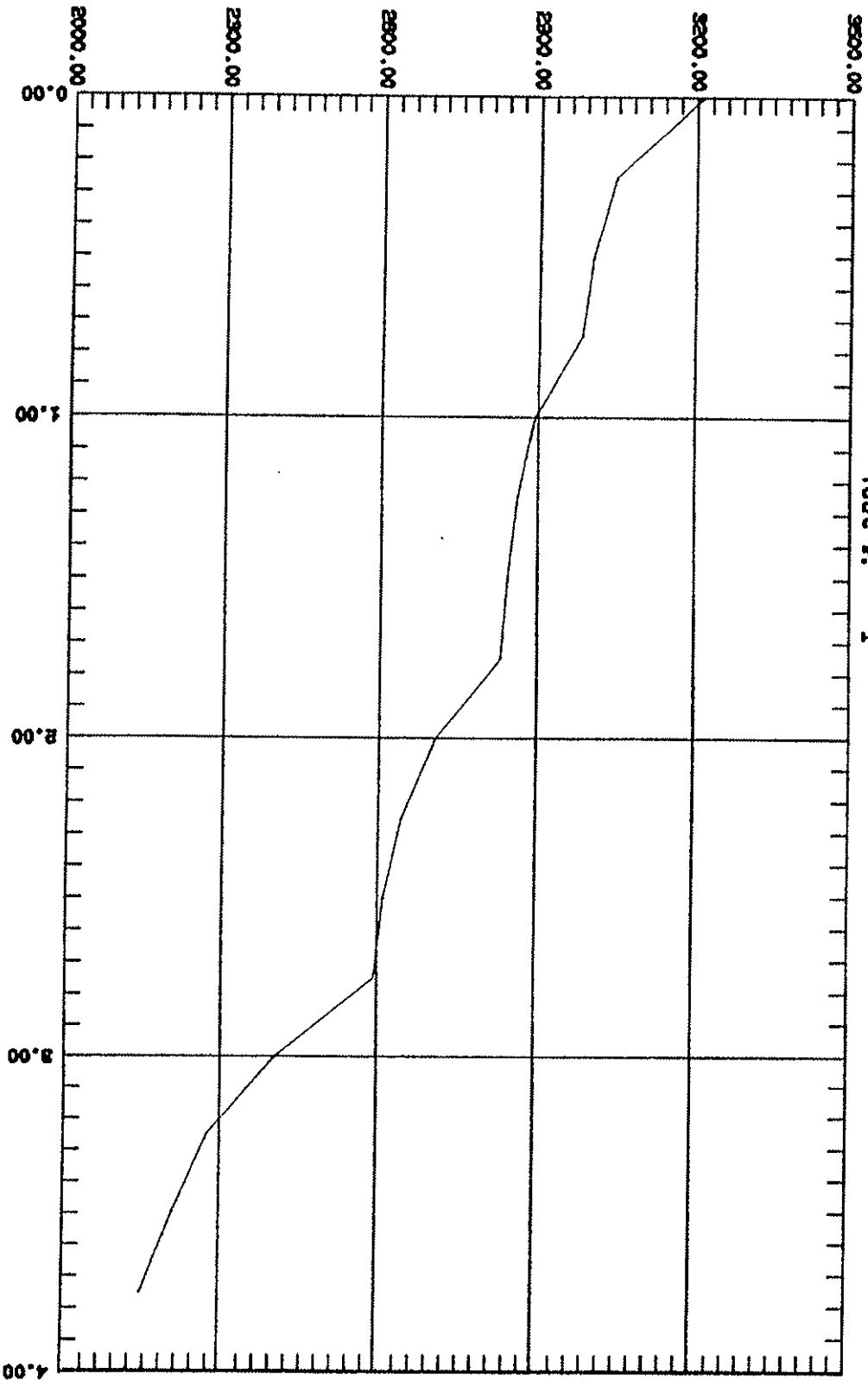
REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
9:45: 0	0.0000	3213.00		START RATE 1
10: 0: 0	0.2500	3046.00		
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00		START RATE 2
10:45: 0	1.0000	2894.00		
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00		START RATE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

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

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

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

PRESSURE - PSIA



DELTA TIME - HRS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 28 1992

O. C. D.

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

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

2. Name of Operator
Mewbourne Oil Company

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

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

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

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

9. API Well No.
30-015-26575

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

11. County or Parish, State
Eddy

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

TYPE OF SUBMISSION

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

TYPE OF ACTION

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

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

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

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

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

Date 9/11/92

(This space for Federal or State office use)

Approved by
Conditions of approval, if any:

Title

Date

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

*See instruction on Reverse Side

UNITED STATES COMMISSION
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*
(See other In-
structions on
reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ Other _____
2. NAME OF OPERATOR
Mewbourne Oil Company ✓
3. ADDRESS OF OPERATOR
P. O. Box 7698, Tyler, Texas 75711
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2250' FWL & 790' FSL
At top prod. interval reported below
At total depth Same

CONFIDENTIAL
JUL 23 1992
O.C.D.

5. LEASE DESIGNATION AND SERIAL NO.
NM-0557371
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Chalk Bluff Federal Com
9. WELL NO.
1
10. FIELD AND POOL, OR WILDCAT
N. Illinois Camp Morrow
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 1-T18S-R27

14. PERMIT NO. DATE ISSUED
API #30-015-216575
15. DATE SPUDDED 12/22/90 16. DATE T.D. REACHED 1/29/91 17. DATE COMPL. (Ready to prod.) 3/07/91 18. ELEVATIONS (DV, RKB, HT, OR, ETC.)* KB 3625', GM 3609'
19. ELEV. CASINGHEAD
20. TOTAL DEPTH, MD & TVD 10,120' 21. PLUG BACK T.D., MD & TVD 10,079' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY X 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 9936-46', 9964-67' - Morrow 25. WAS DIRECTIONAL SURVEY MADE Yes 26. TYPE ELECTRIC AND OTHER LOGS RUN SDL-DSN, DLL-MSFL, DILL 27. WAS WELL CORRED No

29.

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.50#	400'	17-1/2"	425 - Circ	None
9-5/8"	36#	2604'	12-1/4"	1025 - Circ	None
7"	26# & 29#	9450'	8-3/4"	1350 - Circ	None

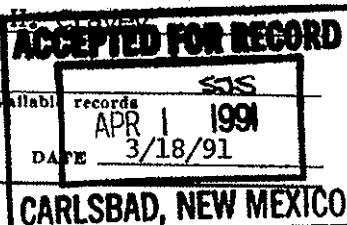
LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	9051'	10119'	175		2-3/8"	9805'	9805'

31. PERFORATION RECORD (Interval, size and number)
9936-46', 9964-67'
13', 2 SPF, Total 28
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
9936-67' 3000 gals Mod-101 acid + 1000 SCF/bbl N2 + 50 ball sealers, Flushed w/35 bbls 2% KCl water + 1000 SCF/bbl N2.

33.* PRODUCTION
DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing
DATE OF TEST 3/11/91 HOURS TESTED 24 hrs CHOKER SIZE 8/64" PROD'N. FOR TEST PERIOD OIL—BBL. 1 GAS—MCF. 886 WATER—BBL. 0 GEL RATIO 886:1
FLOW. TUBING PRESS. 1600# CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. 1 GAS—MCF. 886 WATER—BBL. 0 OIL GRAVITY-API (CORR.) 58.05

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

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



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

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

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

38. GEOLOGIC MARKERS

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

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I.

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

If change of operator give name and address of previous operator _____

II. DESCRIPTION OF WELL AND LEASE

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

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

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

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

IV. COMPLETION DATA

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

Gaylon Thompson
Signature
Gaylon 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.



[REDACTED]

[REDACTED]

[REDACTED]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

C/SF

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., N.M.

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

TYPE OF SUBMISSION

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

TYPE OF ACTION

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

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

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

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

RECEIVED

AUG 18 1995

OIL CON. DIV.
DIST. 2

RECEIVED
JUN 2 10 45 AM '95
OIL CON. DIV.

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

Signed

Title Engineer

Date 5/25/95

(This space for Federal or State office use)

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

Title PETROLEUM ENGINEER

Date 8/14/95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

OCD - Artesia

0151

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal Comm #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy, NM

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 Extend T/A & CIT.
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

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

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

If any question, please call.



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

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

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

Signed [Signature]

Title N.M. Young District Manager

Date 10/06/00

(This space for Federal or State office use)

Approved by (ORIG. 522) MEG. LARA
Conditions of approval, if any:

Title Deputy District Manager

Date 11/6/2000

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

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

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

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
PO Box 5270, Hobbs, NM 505-393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
790' FSL & 2250' FWL, Sec.1 T-18S R-27E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Chalk Bluff Federal Comm #1

9. API Well No.
30-015-26575

10. Field and Pool, or Exploratory Area
N. Illinois Camp Morrow

11. County or Parish, State
Eddy, NM

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

TYPE OF SUBMISSION

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

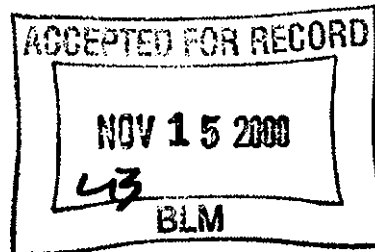
TYPE OF ACTION

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

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

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

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



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

Signed N.M. Young Title N.M. Young District Manager Date 11/01/00
(This space for Federal or State office use)

Approved by Record Only
Conditions of approval, if any:

Title _____ Date _____

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

*See Instruction on Reverse Side

2250 FWL & 790 FSL Sec. 1
T185 R27E EDDYCA NM# 6557371

CHALK BLUFF FEO #1

Donna BLM
10/25/00
adgim-moc

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
Drawer DD

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

25F

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

FEB 21 1994

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

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

TYPE OF SUBMISSION

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

TYPE OF ACTION

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

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

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

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

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

APPROVED FOR 12 MONTH PERIOD
ENDING 1/25/95

JAN 27 1994
RECEIVED
BUREAU OF LAND MANAGEMENT
U.S. DEPARTMENT OF THE INTERIOR

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

Signed

Robert G. Jones

Title Petroleum Engineer

Date 01/25/94

(This space for Federal or State office use)

Approved by

(ORIG SGD) JOE G. LARA

Title

PETROLEUM ENGINEER

Date

2/16/94

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

*See Instruction on Reverse Side

Form 3160-3
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NEW MEXICO OIL & GAS COMMISSION
Drawer 85
Alamosa, NM

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

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.

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TYPE OF SUBMISSION

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

TYPE OF ACTION

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

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

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

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

* Verbal from Adam Salameh

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

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

Signed Robert L. Jones

Title Petroleum Engineer

Date 10/05/93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title

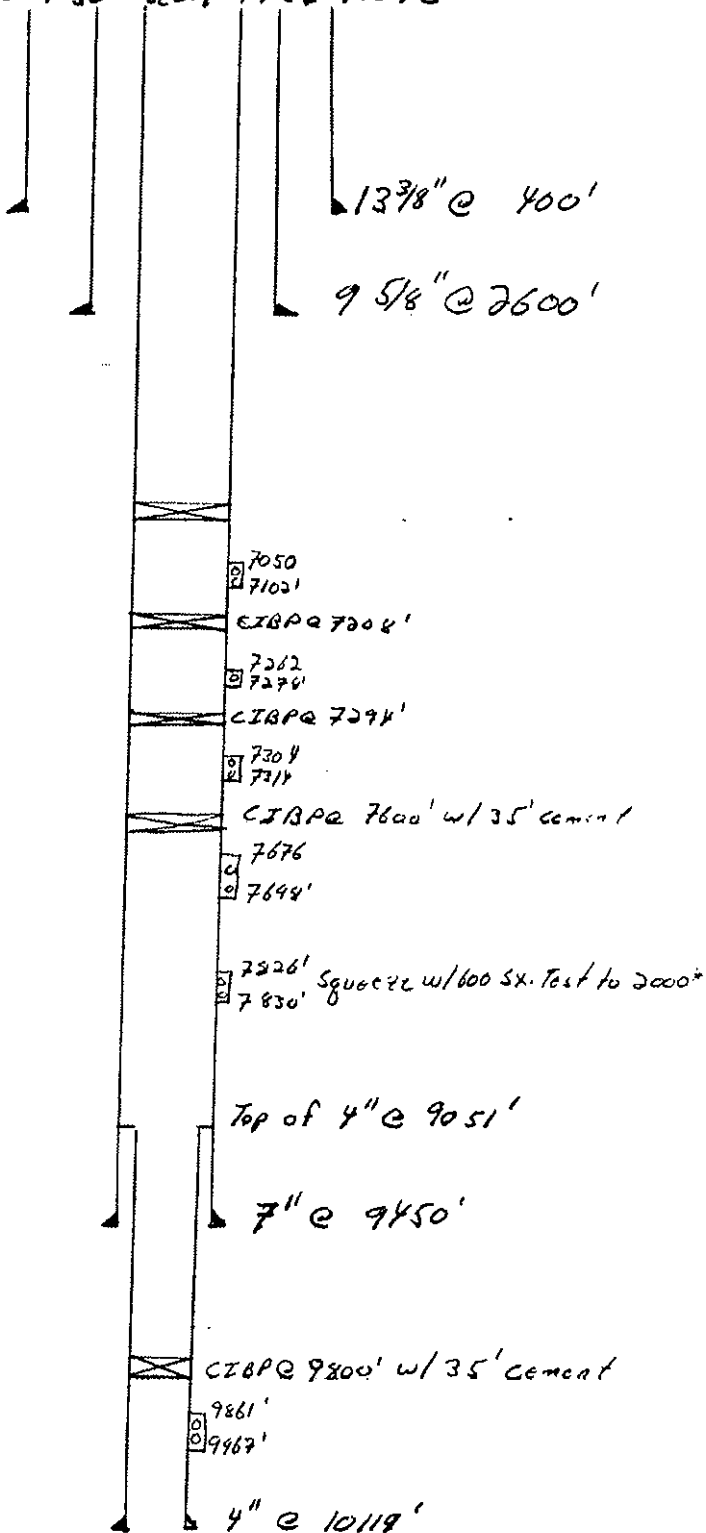
ACCEPTED FOR RECORD

Date

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

*See Instructions at READING NEW MEXICO

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



CO. NO. 24-01 7 Mar
 03402028

3160-5
(1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

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

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

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

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

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

TYPE OF SUBMISSION

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

TYPE OF ACTION

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

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

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

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

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

RECEIVED
SEP 22 10 43 AM '93
CARL AREA

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

Signed

[Signature]

Title

Petroleum Engineer

Date

09/07/93

(This space for Federal or State Office use)

(ORIG. SGD.) JOE G. LARA

Approved by

Conditions of approval, if any:

Title

PETROLEUM ENGINEER

Date

10/15/93

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

*See Instruction on Reverse Side

30-015-810575

Agid- 14744

Property- 7876

Pool- 78890

3-19-91

DUAL LAT.

2575-9446

4330-1012

DUAL SPACED
NEUTRON

Long- 9417

8500-10121

3-19-91

DUAL LAT.

2575-9446

4330-1012

DUAL SPACED
NEUTRON

Long- 9417

8500-10121

NC Tops DEM 5/14/91

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





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

31 January 2003

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

File
Copy

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

Dear Sirs:

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

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

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

201 WELLS TO BE PROPERLY ABANDONED

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

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

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

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

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

Sincerely,

Van Barton
Field Rep. II

To:

Shirley Jones - CRUDE OIL SUPPLY CLERK

LEASE RECORDS

Navajo Refining Company

P.O. Box 159

Artesia, NM 88211-0159

phone (505) 746-5325

fax (505) 746-5283

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

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

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

MESSAGE:

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

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

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

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

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

Thank you.


-Shirley Jones

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



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

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
August 11, 2000

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

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

Change of Operator

Previous Operator Information:

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

New Operator Information:

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

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

New Operator

Signature:

Darrell Moore

Printed name:

Darrell Moore

Title:

Env. Mgr. for Water and Waste

Date:

12/5/00

Phone:

505-748-3311

Previous operator complete below:

Previous

Operator: Mewbourne Oil Company

Previous

OGRID: 14744

Signature:

Monty Whetstone

Printed Name:

Monty Whetstone

NMOCD Approval

Signature:

Jim W. Green

Printed

Name:

District Supervisor

District:

NOV 27 2000

Date:

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

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

6. If Indian, Allottee or Tribe Name

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

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other TEMPORARILY ABANDONED

2. Name of Operator

NAVAJO REFINING COMPANY

3a. Address

PO BOX 159, ARTESIA, NM 88211

3b. Phone No. (Include area code)

505-748-3313

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

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

8. Well Name and No.

WDW-3 #3 23592

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

NAVAJO INJECTION, PERMO-PENN.

11. County or Parish, State

EDDY

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

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

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

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

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

SUBJECT TO
LIKE APPROVAL
BY NMOCD

APPROVED

SEP 29 2003

LES BABYAK
PETROLEUM ENGINEER

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

Darrell Moore

Title Env. Mgr. for Watersheds

Signature

Darrell Moore

Date 9/11/03

Approved by (Signature)

Name
(Printed/Typed)

Title

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

Office

Date

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

(Continued on next page)

Accepted for record - NMOCD

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 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

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

Accepted for record - NMOCD

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

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

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

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

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

Depth of Plugs

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

Anticipated Formation Pressure

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

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.

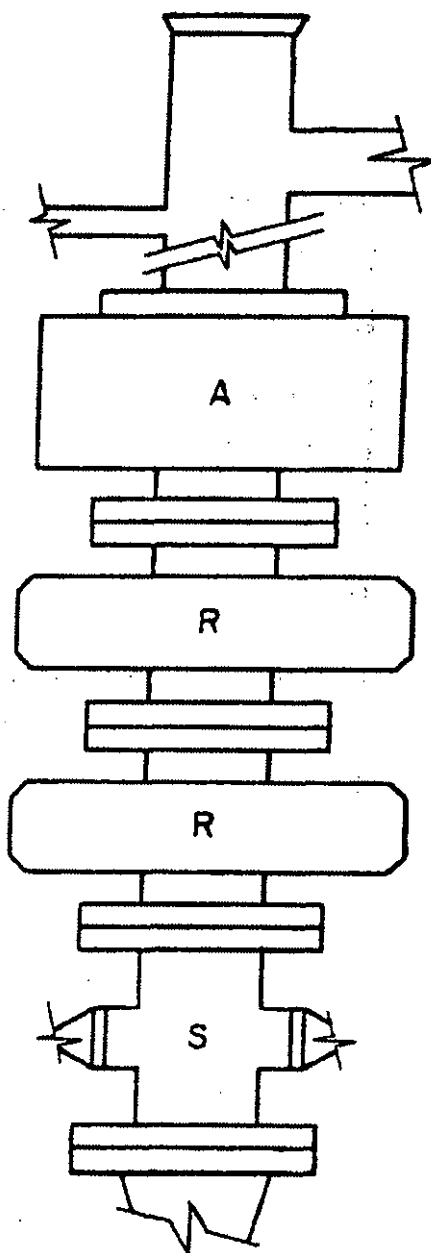
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5. Pull the bit and run a retrievable squeeze packer on the work string. Set the packer at 7150 feet and test for communication between the perforations. Squeeze the perforations from 7262 feet to 7278 feet and 7304 feet to 7314 feet with approximately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

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

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

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

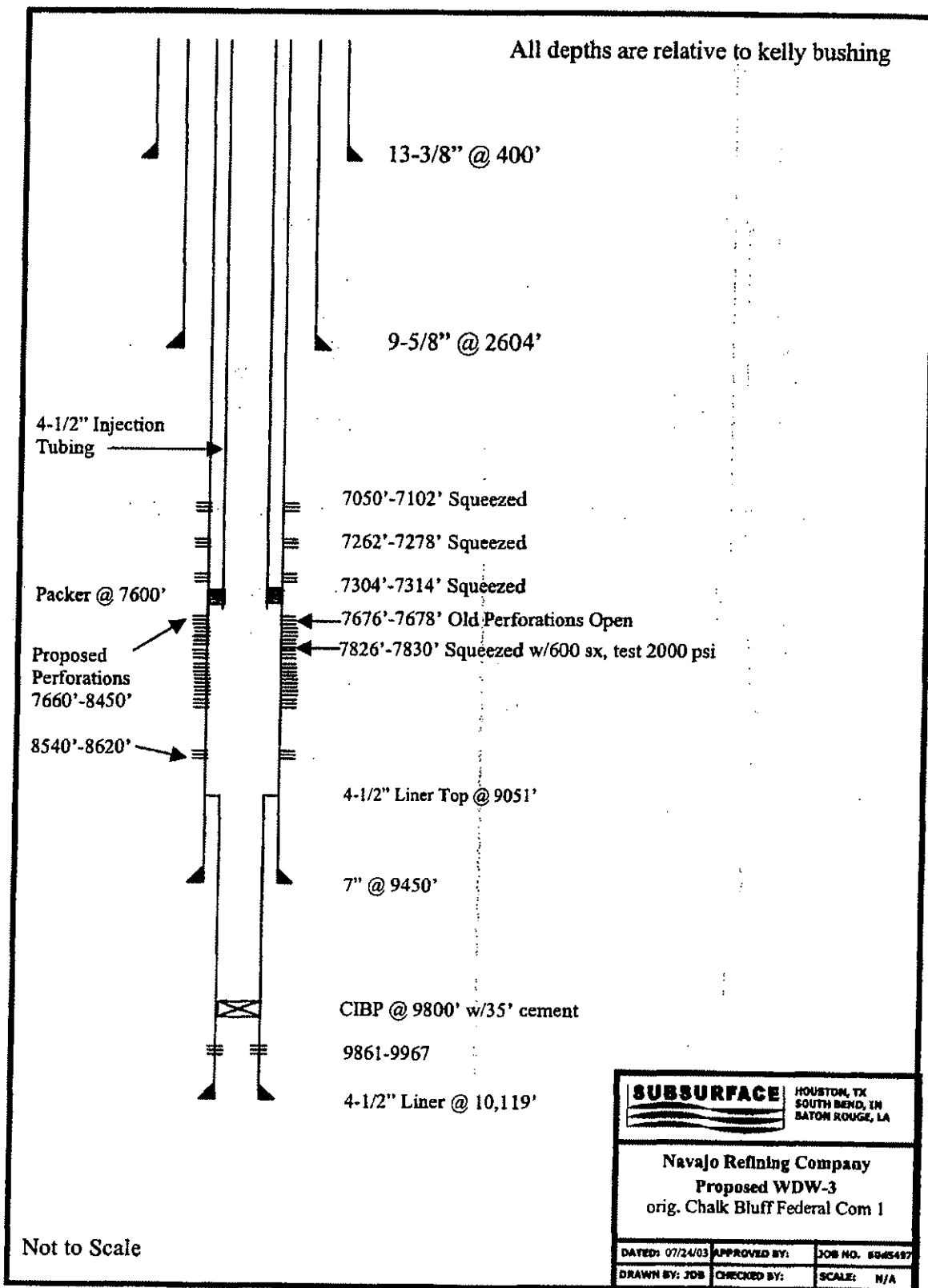
S = DRILLING SPOOL WITH SIDE OUTLETS
7-1/16", 3000 psi working pressure

Manual Choke Manifold 2", 3000 psi working pressure

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

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Exhibit A Blowout Preventer Minimum Requirements		
DATED: 07/24/03	APPROVED BY:	JOB NO. 6845497
DRAWN BY: JDS	CHECKED BY:	SCALE: 1/4" = 1'-0"

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SURFACE USE PLAN

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

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

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

Accepted for record - NMOCD

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

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

Exhibits

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

14. Certification:

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

Date

9/17/03

Signature

Darrell Moore

Name

Darrell Moore

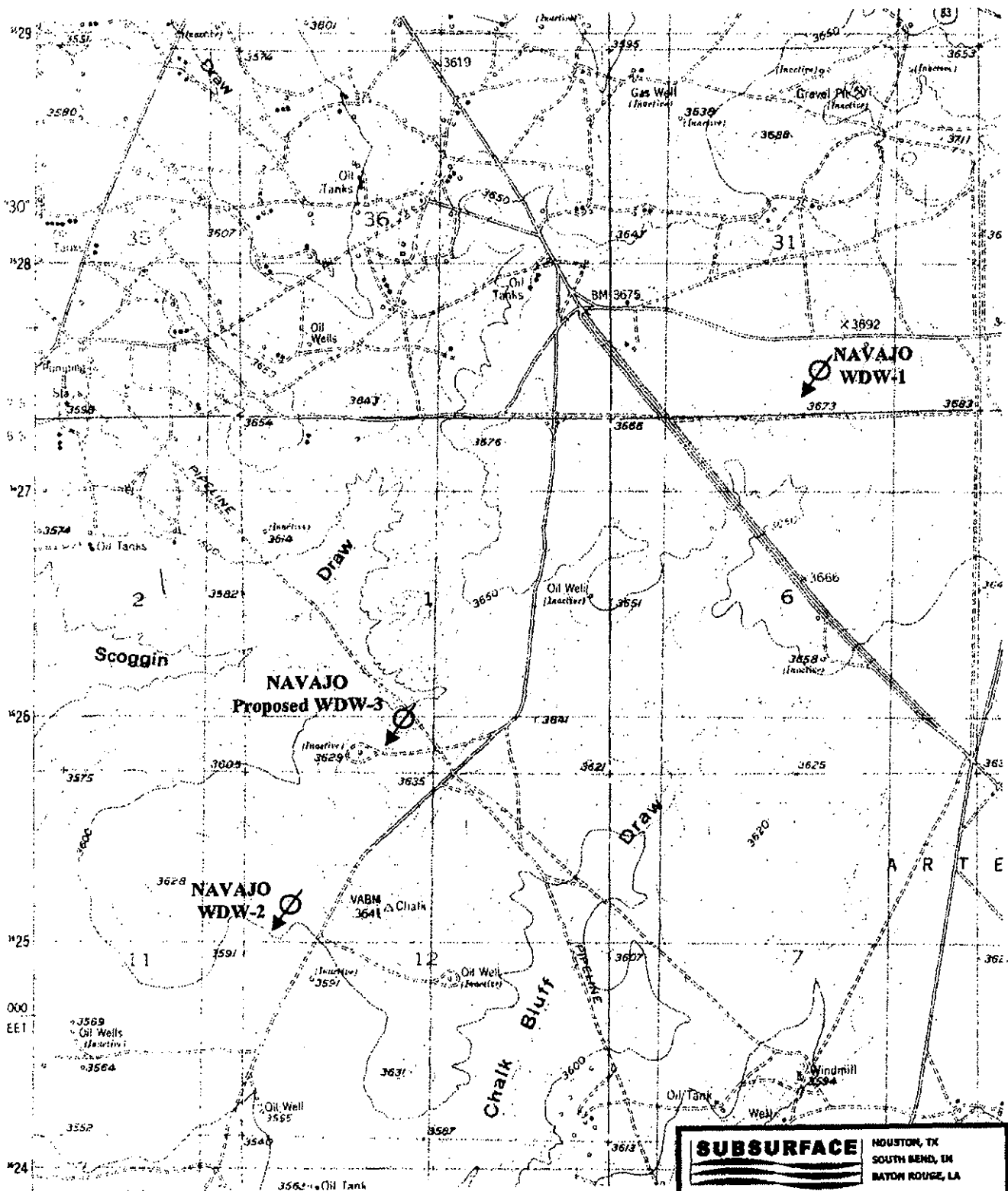
Title

Env. Mgr. for Water-Waste

Navajo Refining Company

Company

Accepted for record - NMOCD



USGS Topographic Map
Red Lake Quadrangle, Eddy County, NM

Section corners marked with +

Accepted for record - NMOCD

SUBSURFACE

HOUSTON, TX
SOUTH BEND, IN
BATON ROUGE, LA

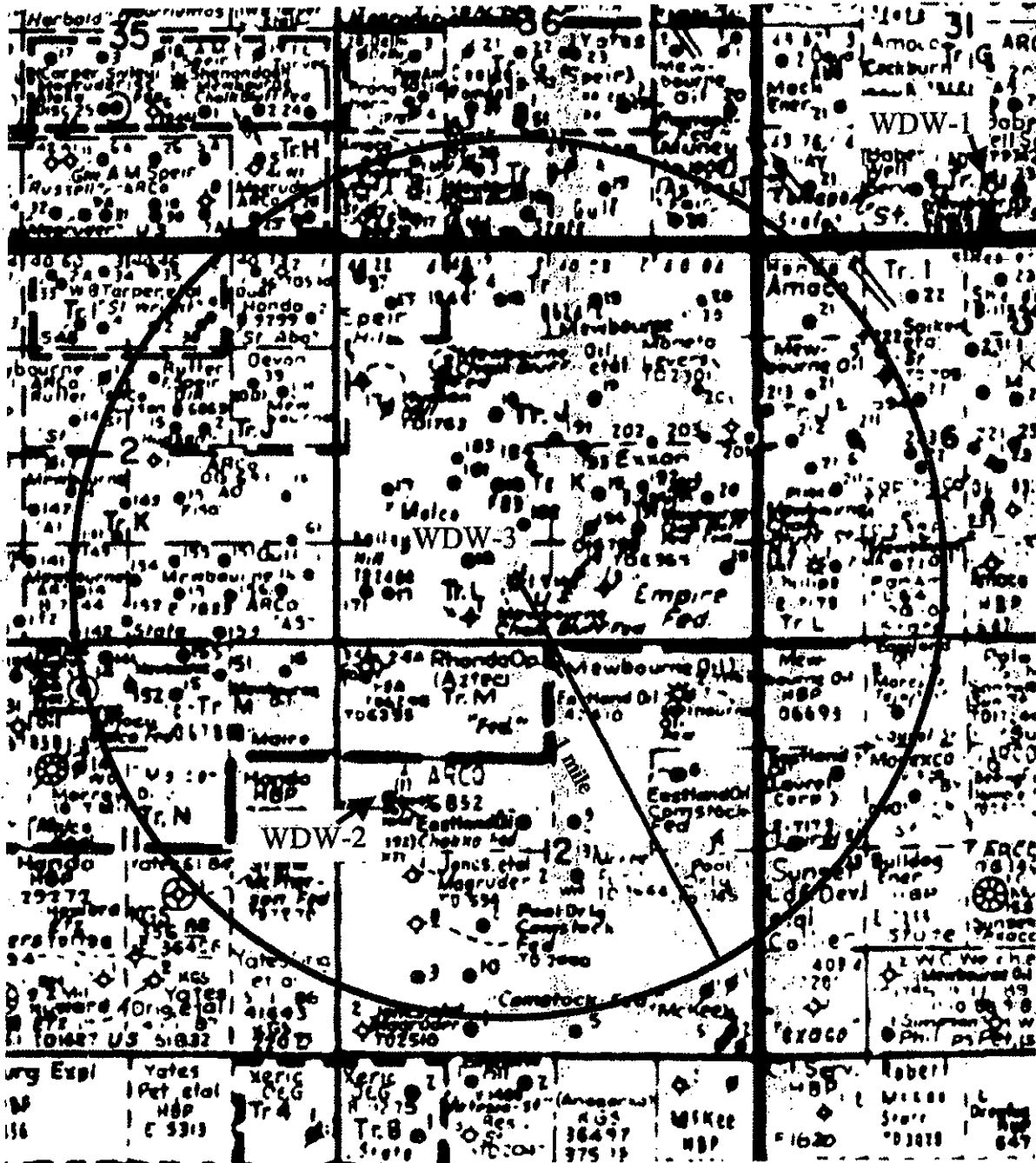
EXHIBIT A

NAVAJO REFINING COMPANY
PROPOSED WDW-3
790' FSL, 2250' FWL 1-18S-27E

DATE: 7/28/03	APPROVED BY: NLM	JOB NO: 6005497
DRAWN BY:	CHECKED BY:	SCALE: 1"=2000'

T17S - R27E

T17S - R28E



T18S - R27E
EDDY COUNTY, NM

Accepted for record - NMOCD

Map courtesy of Midland Map Company

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
EXHIBIT B		
WELLS WITHIN 1 MILE OF NAVAJO REFINING COMPANY PROPOSED WDW-3		
DATE: 7/28/03	APPROVED BY: NLH	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 area code)
505-746-5181

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

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

JUL 17 2006

OCD-ARTESIA

5. Lease Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
WDW-3

9. API Well No.
30-015-26575

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

11. County or Parish, State
EDDY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other RECOMPUTE 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 CALIPER FROM 9051' TO SURFACE;
PERFORATE 8340'-8620' AND 7660'-8450';
RUN INJECTIVITY TEST, AND ACIDIZE IF NECESSARY;
RUN INJECTION/FALLOFF TEST;
RUN DIFFERENTIAL TEMPERATURE SURVEY;
RUN RADIOACTIVE TRACER SURVEY;
INSTALL INJECTION TUBING AND PACKER TO APPROX. 7600'; AND
INSTALL WELL ANNULUS MONITORING EQUIPMENT, AND PREPARE FOR WELL INJECTION.**

ACCEPTED FOR RECORD

JUL 12 2006

LES BABYAK

PETROLEUM ENGINEER

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

DARRELL MOORE

Title **ENVIRONMENTAL MANAGER FOR WATER & WASTE**

Signature

Darrell Moore

Date

6/29/06

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Title

Office

**Accepted for record
NMOCB/8**

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

(Instructions on page 2)

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

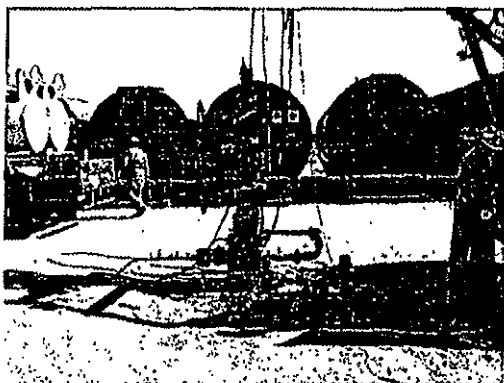


Image 1: Facing west. Christmas Tree with 500-barrel tanks in background. Far left tank was the only tank providing salt water. Truck on left is the pump truck pumping brine water only. Right truck is the rig truck (Wood Group Logging Service).

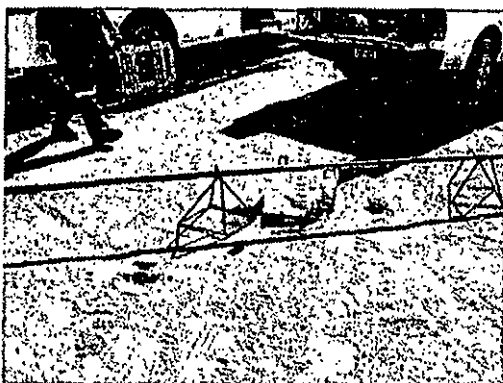


Image 2: Radioactive tool set up. Tracer, Iodine 131 (half-life ~ 8 days).



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

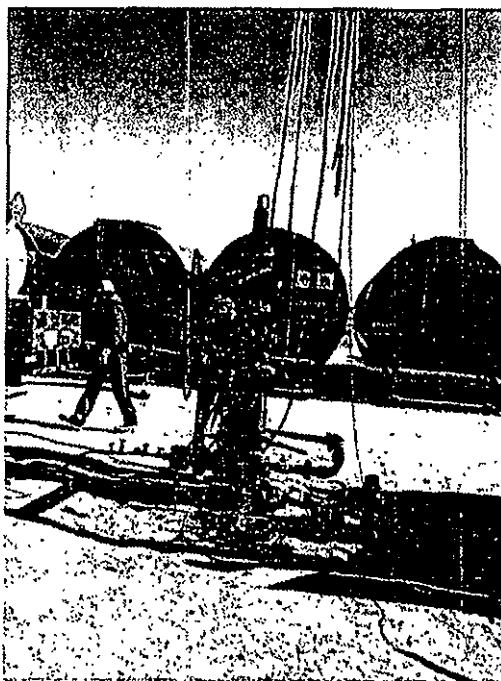


Image 4: Petroplex workers prepping wellhead for wire line tool entry.



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

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

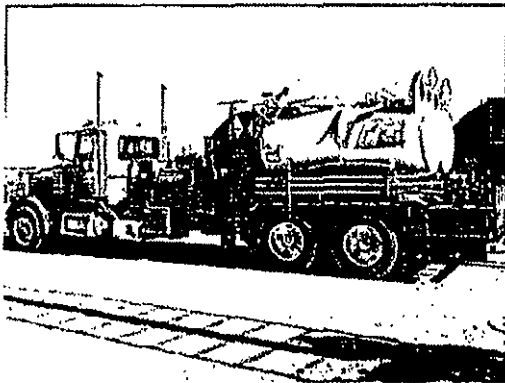


Image 6: Pump truck, Petroplex, for Brine water pumping only. No HCL used throughout process.

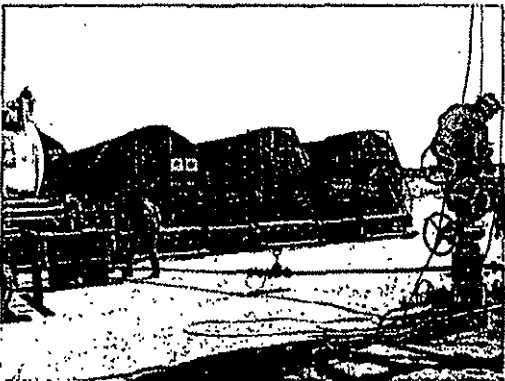


Image 7: Securing of the wire line to the wellhead.

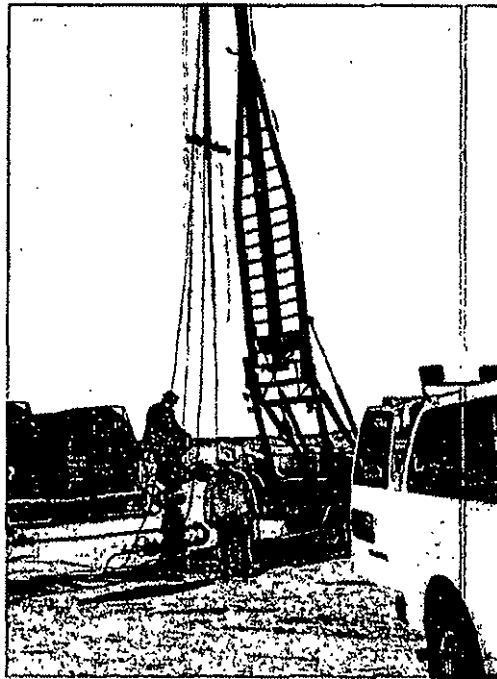


Image 8: Wood Group employee securing wellhead for tool entry.

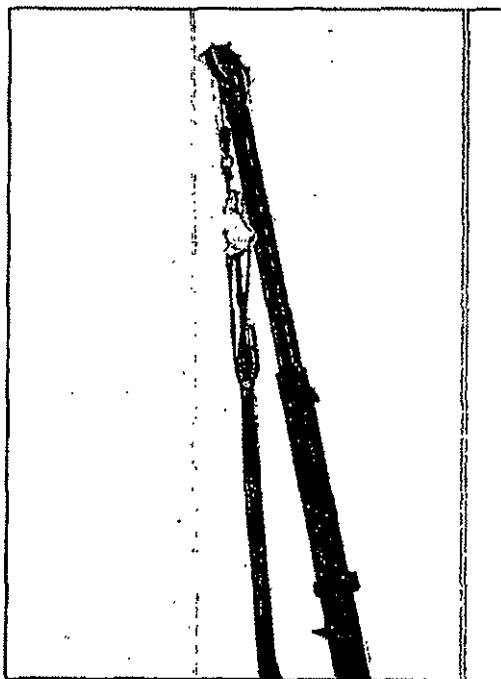


Image 9: Configuration at the top end of the boom.

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

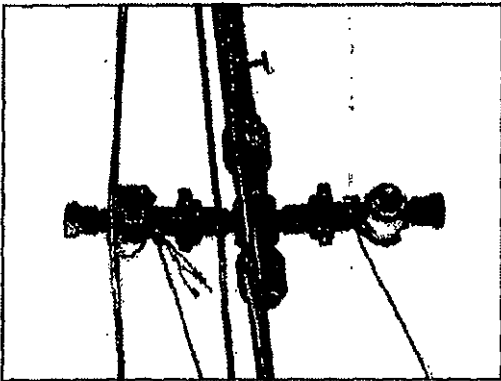


Image 10:

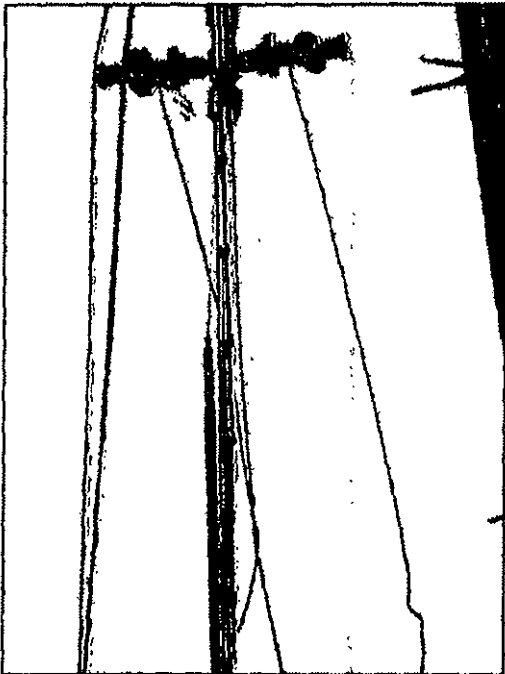


Image 11:

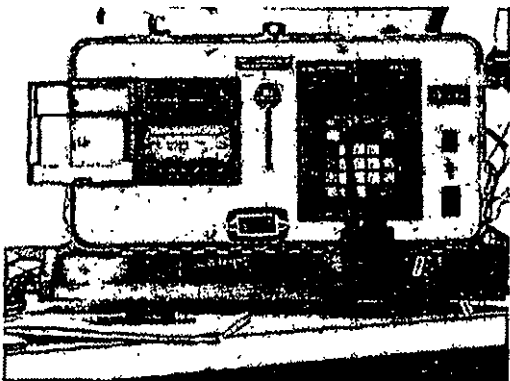


Image 12:

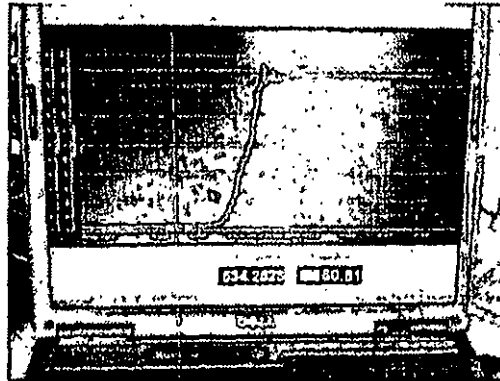


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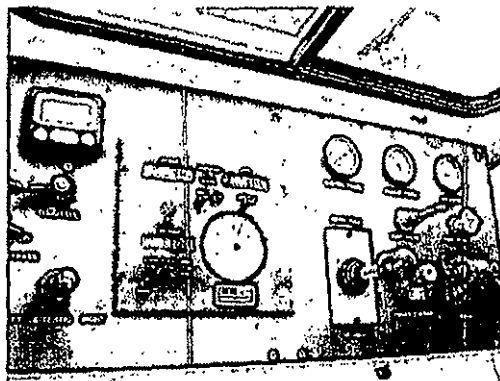


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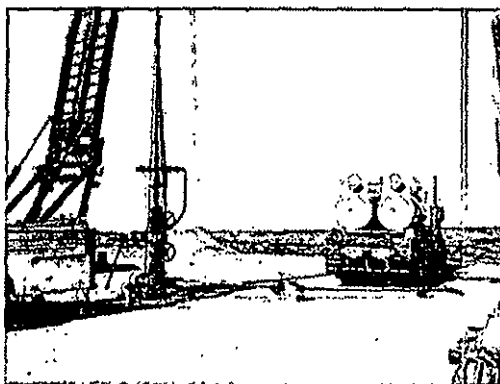


Image 15:

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

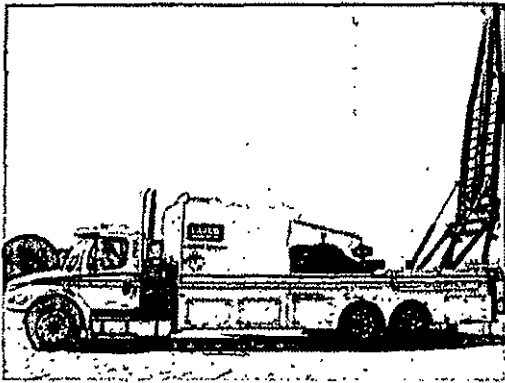


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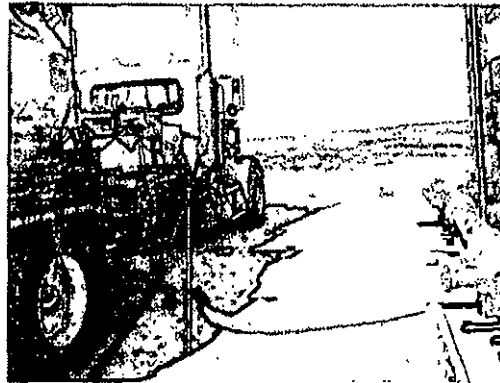


Image 19:

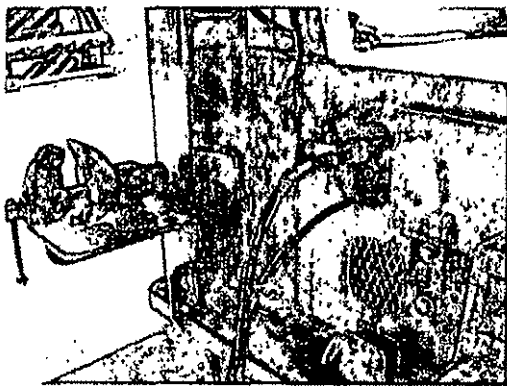


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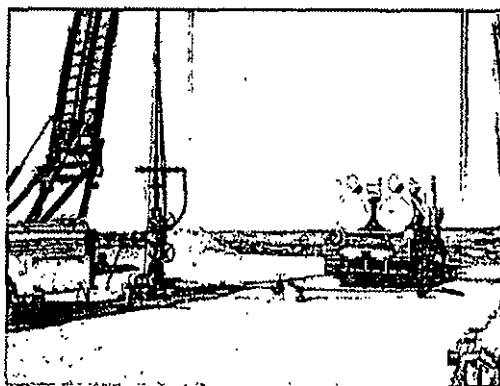


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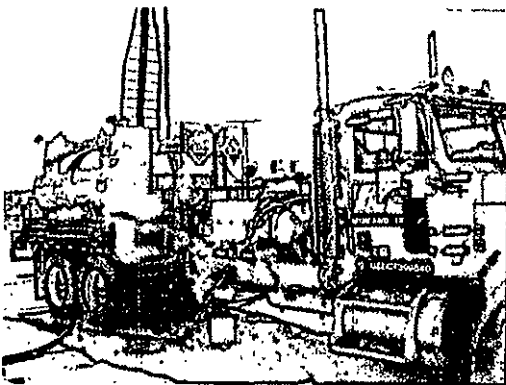
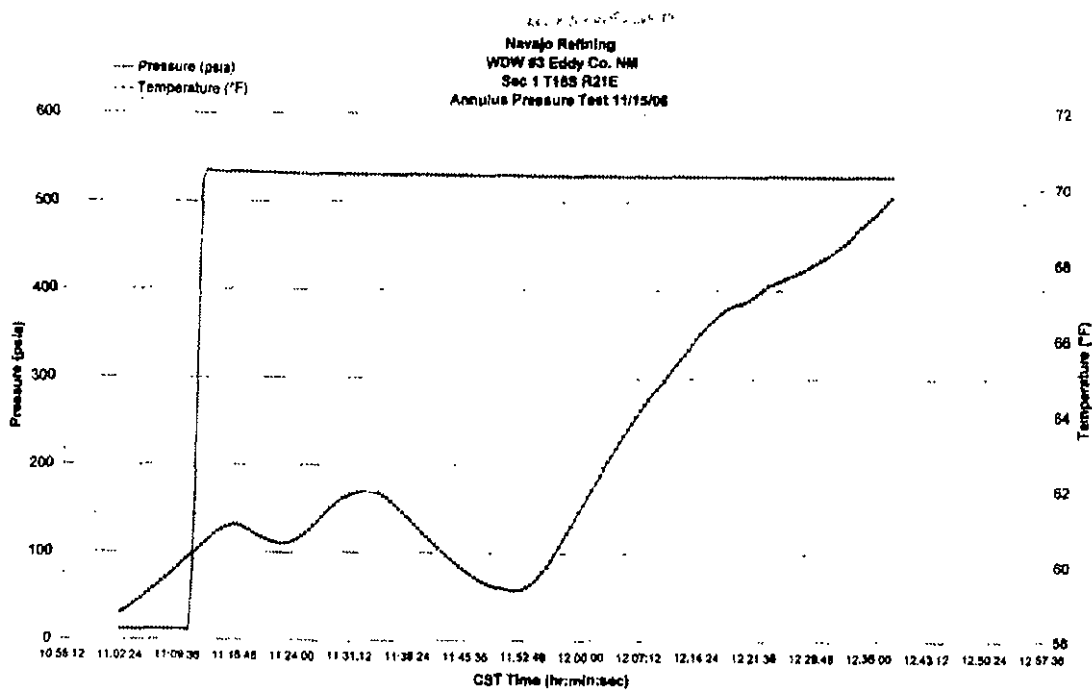
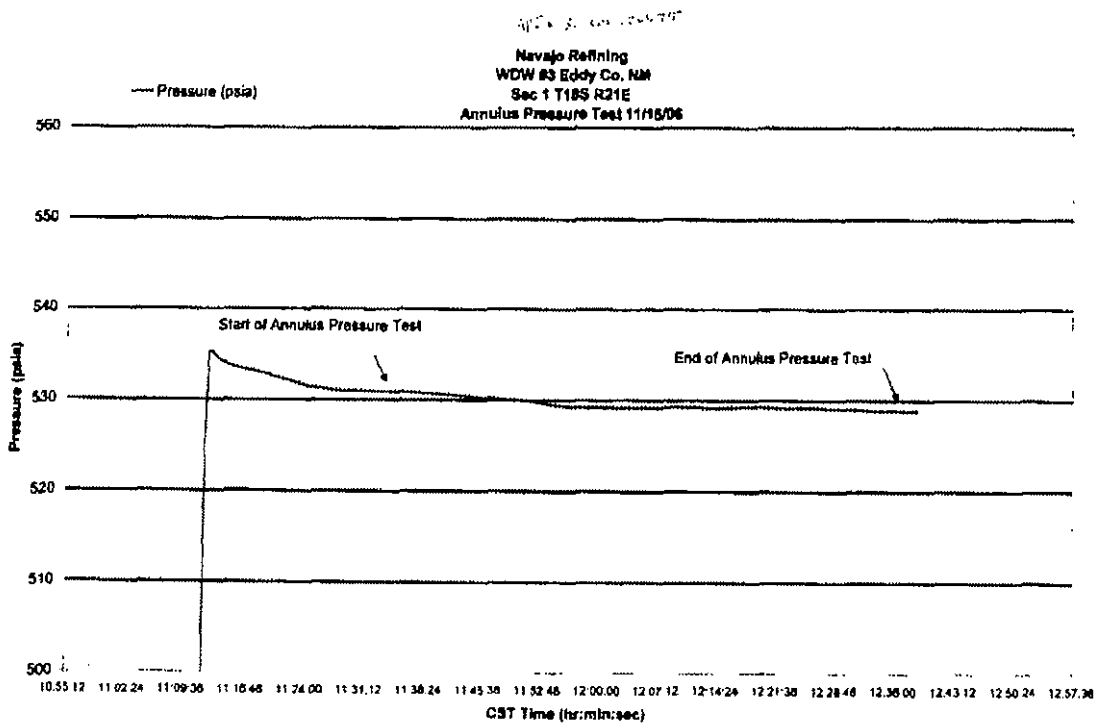


Image 18:



Image 21:

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



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

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT

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

Operator Name and Address NAVAJO REFINING COMPANY		OGRID Number API Number 30-015-26575
Property Code	Property Name WDW	Well No. 3
Proposed Pool 1 NAVAJO INJECTION; PERMO-PENN		Proposed Pool 2

Surface Location

UL or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County
	I	18S	27E		2250 FWL		750 FSL		EDDY

Proposed Bottom Hole Location If Different From Surface

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

Additional Well Information

11 Work Type Code E	12 Well Type Code I	13 Cable/Rotary R	14 Lease Type Code	15 Ground Level Elevation 3609
16 Multiple NO	17 Proposed Depth 9051'	18 Formation CANYON	19 Contractor	20 Spud Date
Depth to Groundwater UNKNOWN		Distance from nearest fresh water well 1.25 ML TO 18.28 7.330		Distance from nearest surface water 10 MILES
Pit: Liner: Synthetic <input type="checkbox"/> mls thick Clay <input type="checkbox"/> Pit Volume: bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

Proposed Casing and Cement Program

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

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

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

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

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

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

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

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

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

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

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

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

RUN INJECTIVITY TEST, AND ACIDIZE IF NECESSARY;

RUN INJECTION/FALLOFF TEST;

RUN DIFFERENTIAL TEMPERATURE SURVEY;

RUN RADIOACTIVE TRACER SURVEY;

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

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

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

OIL CONSERVATION DIVISION

Approved by:

Wayne Price

Printed name: *Darrell Moore*

Title:

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

Approval Date:

8/11/06

Expiration Date:

8/11/07

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

Date: *6/29/06*

Phone: *505-746-5201*

Conditions of Approval Attached ☒

*DISTRICT OFFICE MUST
APPROVE CASING
PROGRAM.*

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

¹⁰ Surface Location

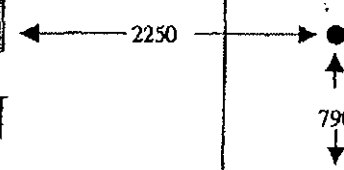
UL or lot no. N	Section 1	Township 18S	Range 27E	Lot Idn	Feet from the 790	North/South line South	Feet from the 2250	East/West line West	County Eddy
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¹¹ Bottom Hole Location If Different From Surface

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

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

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

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

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

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

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

Depth of Plugs

7010 feet in 7-inch casing above perforations 7050 feet to 7102 feet

7208 feet in 7-inch casing above perforations 7262 feet to 7278 feet

7294 feet in 7-inch casing above perforations 7304 feet to 7314 feet

7600 feet in 7-inch casing above perforations 7676 feet to 7678 and

7826 feet to 7830 feet

9800 feet in 4-1/2-inch liner above perforations 9861 feet to 9967 feet

Anticipated Formation Pressure

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


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

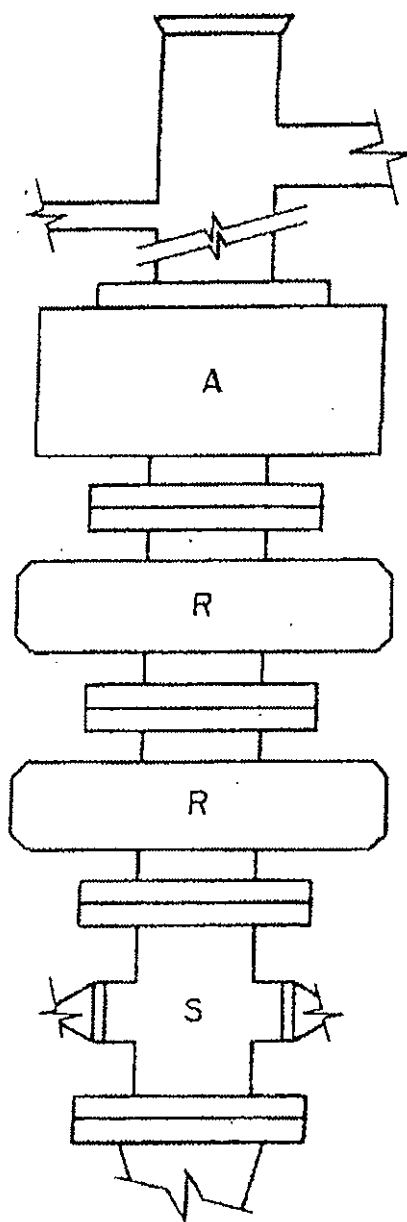
$$\begin{aligned}\text{BHP (9000 feet)} &= 2813 \text{ psia} + (9000 \text{ feet} - 7570 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.025 \\ &= 3448 \text{ psia}\end{aligned}$$

Reentry Procedure

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

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

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



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

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

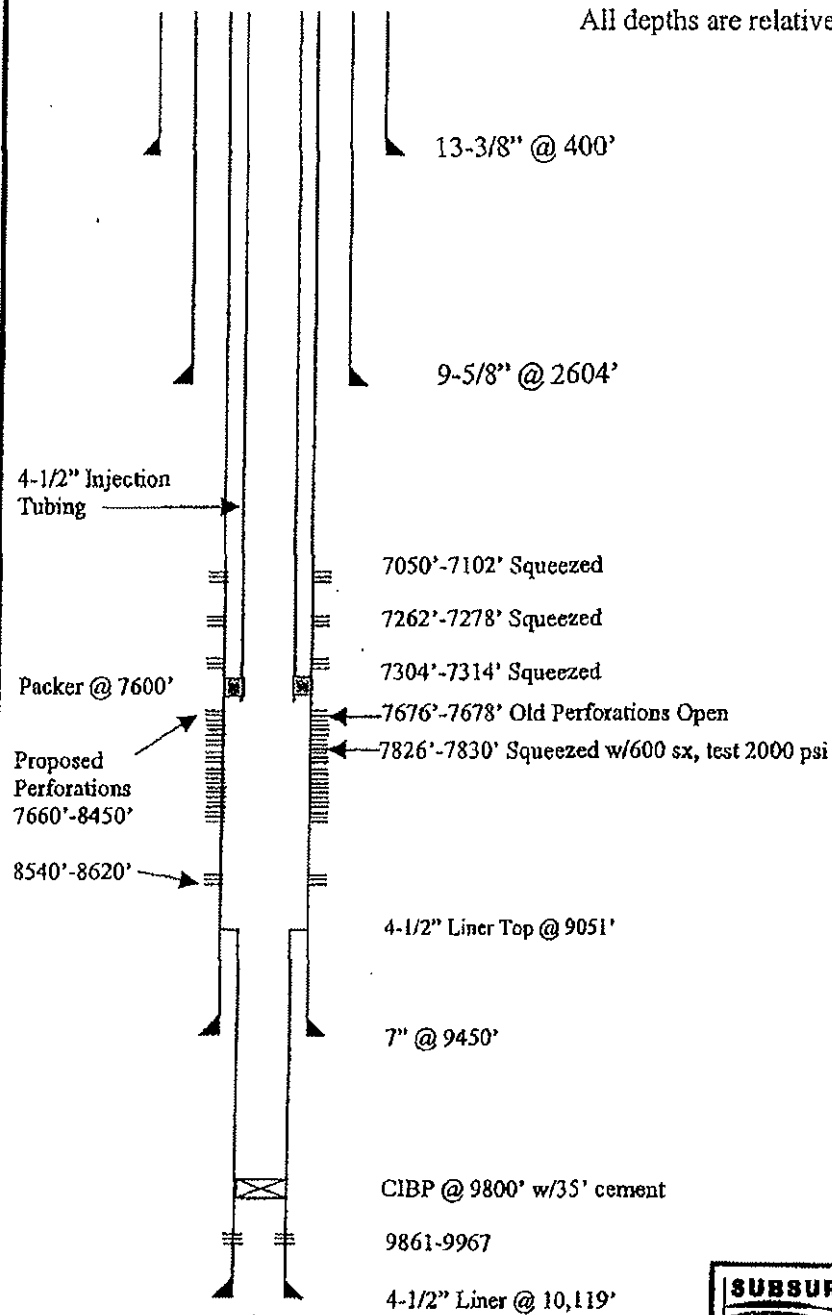
S = DRILLING SPOOL WITH SIDE OUTLETS
7-1/16", 3000 psi working pressure

Manual Choke Manifold 2", 3000 psi working pressure

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

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Exhibit A Blowout Preventer Minimum Requirements		
DATE: 07/24/03	APPROVED BY:	JOB NO. 6805497
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: 07/24/83	APPROVED BY:	JOB NO. 6048497
DRAWN BY: JDB	CHECKED BY:	SCALE: N/A

SURFACE USE PLAN

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

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

8. Ancillary Facilities: None anticipated.

9. Wellsite Layout:

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

10. Plans for Restoration of Surface:

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

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

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

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

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

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

Exhibits

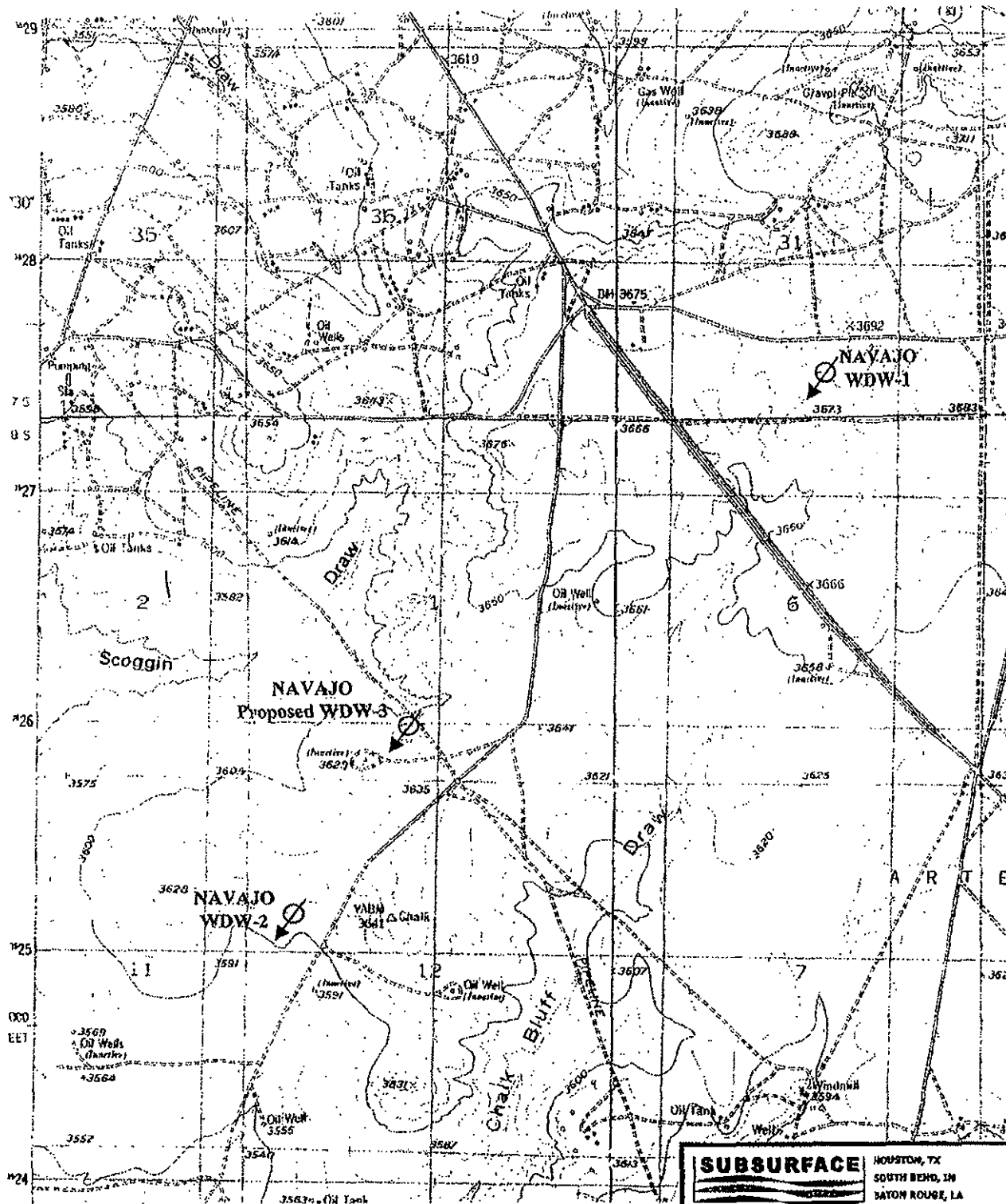
- A. Topographic Map
- B. Oil and Gas Map

14. Certification:

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

9/17/03
Date

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

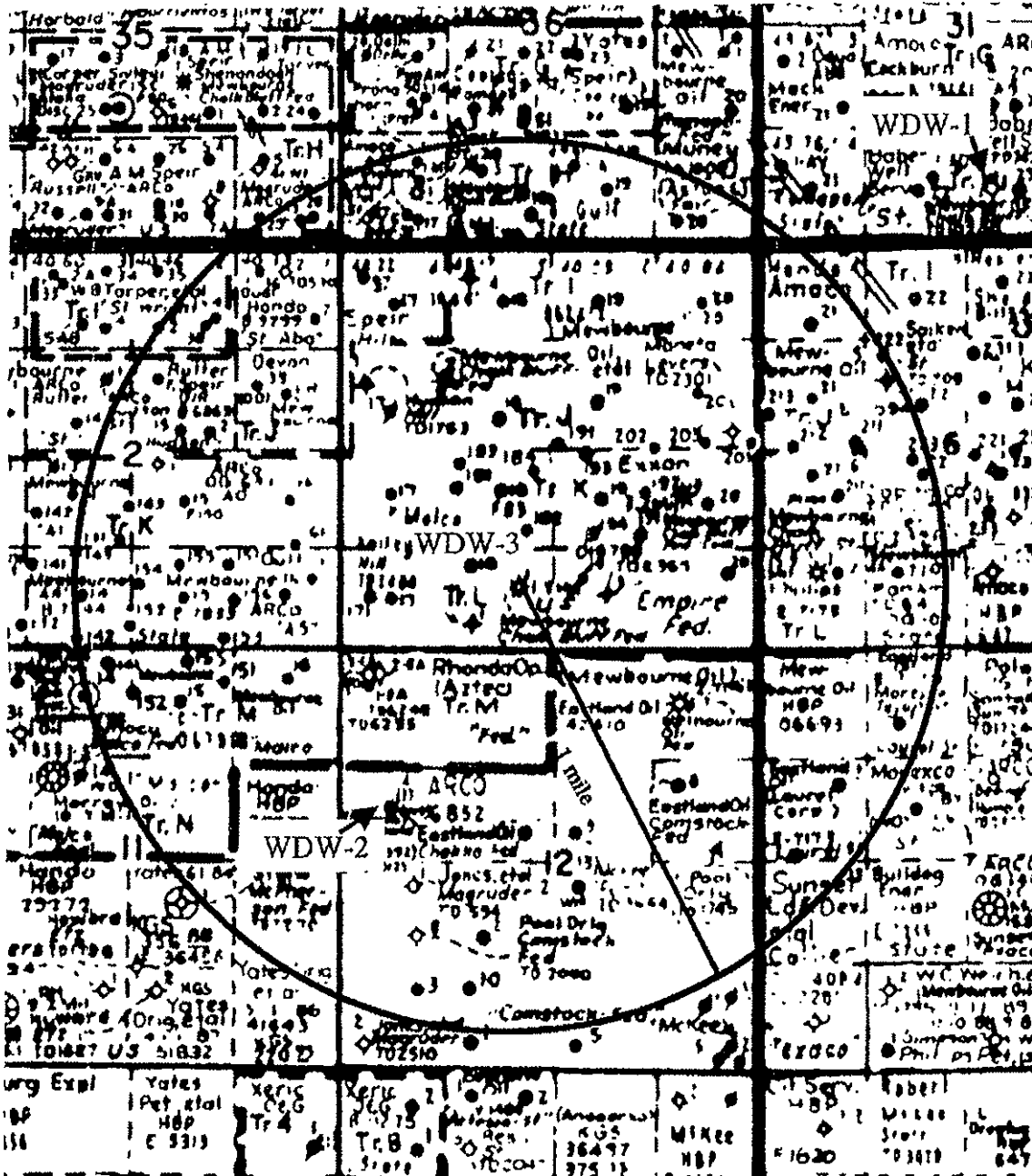


USGS Topographic Map
Red Lake Quadrangle, Eddy County, NM


Section corners marked with +

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
EXHIBIT A		
NAVAJO REFINING COMPANY		
PROPOSED WDW-3		
790' FSL, 2250' FWL 1-18S-27E		
DATE: 7/28/83	APPROVED BY: M.W.	JOB NO: 6003497
DRAWN BY:	CHECKED BY:	SCALE: 1"=2000'

T17S - R28E



T18S - R27E
EDDY COUNTY, NM

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

Map courtesy of Midland Map Company

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

WELL API NO.
30 - 015 - 26575

5. Indicate Type of Lease
STATE ☒ FEE ☐

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

7. Lease Name or Unit Agreement Name
WDW - 3

8. Well Number 3

9. OGRID Number

10. Pool name or Wildcat

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

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

2. Name of Operator
NAVAJO REFINING COMPANY

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

4. Well Location

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

Section 1 Township 18 south Range 27 East NMPM County Eddy

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

Pit or Below-grade Tank Application ☐ or Closure ☐

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

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

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

OTHER: Well completion report to follow X

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

See attached well summary document and well schematic.

MIT Witnessed by Carl Chavez
No Chart Submitted
/s/

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

SIGNATURE Paul M. Moore TITLE Env. Mgr. for Water & Waste DATE 1/18/07

Type or print name
r State Use Only

E-mail address:

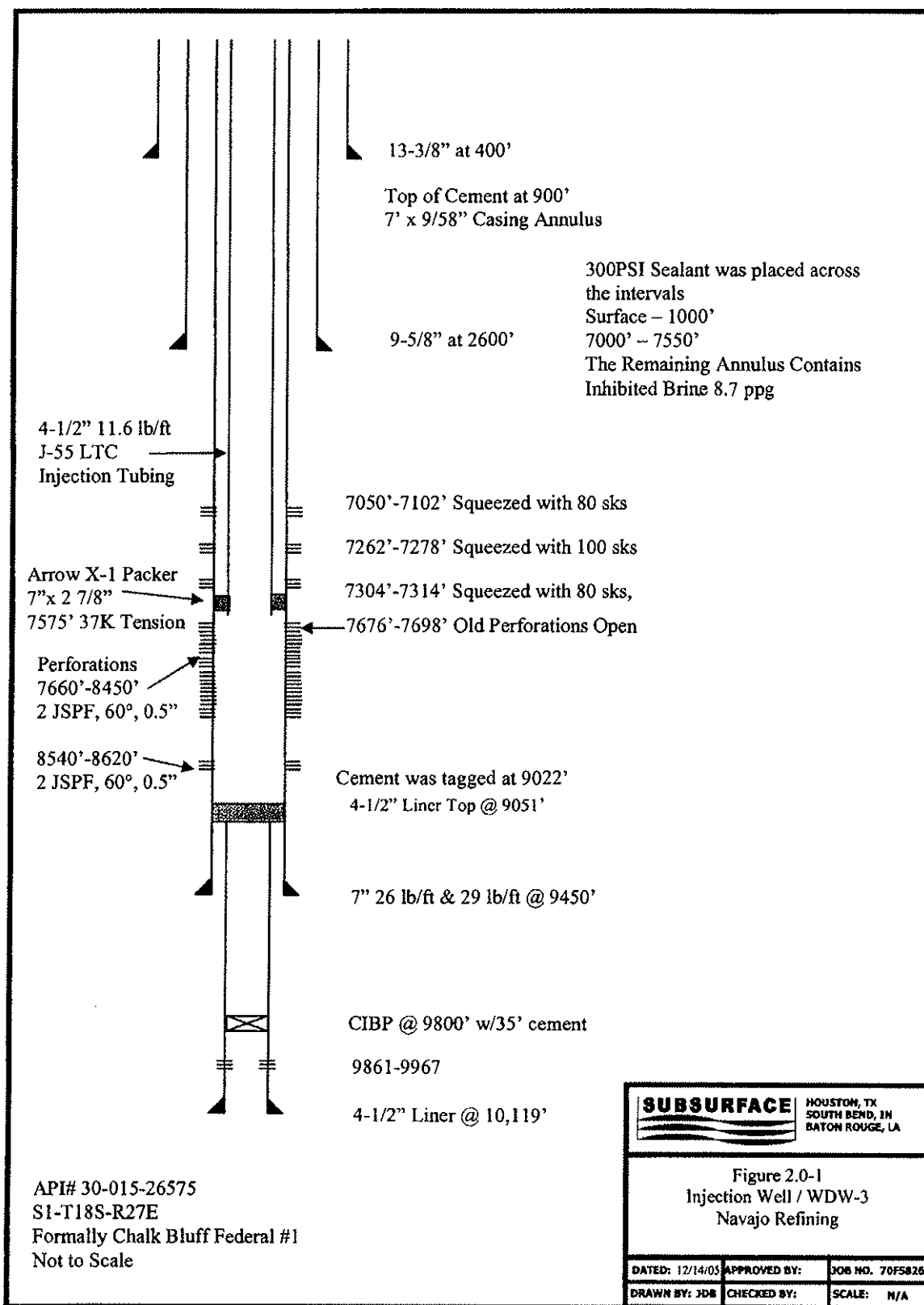
Telephone No.

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Accepted for record
NMOCD /s/

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



Well Summary

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

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

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

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

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

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

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

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

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

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