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

WDWs-1, 2 & 3
PERMITS,
RENEWALS,
& MODS (7 of 18)

2017

## STATE OF NEW MEXICO



## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**DIL CONSERVATION DIVISION** 

GARREY CARRUTHERS
GOVERNOR

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

May 3, 1990

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

Attention: James Bruce

Administrative Order NSL-2785

Dear Mr. Bruce:

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

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

Sincerely,

William J. LeMan

Director

WJL/MES/ag

cc: Oil Conservation Division - Artesia

US Bureau of Land Management - Carlsbad

## 12. CERTIA ATION:

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

May 18, 1990

Date

For W.H. Cravey

W.H. Cravey Production Superintendent Mewbourne Oil Company

## 10. OTHER 1. ORMATION:

- A. The geologic surface formation is hard clay interspersed with sand and chert outcroppings. Vegetative cover is generally sparse and consist mostly of greasewood and bear grass.
- B. The estimated tops of geologic markers are as follows:

Queen	1260'	Cisco	7740 <b>'</b>
San Anres	2100'	Canyon	8350'
Glorieta	3720 <b>'</b>	Strawn	8900 <b>'</b>
Tubb	4930 <b>'</b>	Atoka	9500 <b>'</b>
Abo	5900'	Morrow	9600 <b>'</b>
Wolfcamp	6900 <b>'</b>	Mississippian	10,100'

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

Water: Possible surface water between 100-300'.

Oil: Penrose @ 1520'.
Gas: Wolfcamp @ 6900'.

- D. Proposed Casing Program: See Form 9-331C.
- E. Pressure Control Equipment: See Form 9-331C and Exhibit "D".
- F. Mud Program: See Form 9-331C.
- G. Auxiliary Equipment: Mud-gas seperator and PVT aystem from 6.000' T.D.
- H. Testing and Coring Program: Possibility of 6 DST's in the following zones; Wolfcamp, Cisco, Canyon, Strawn, Atoka, and Morrow. No cores are planned at this time.

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

- No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the weight.
- J. Anticipated Starting Date: As soon as possible after BLM approval.

## 11. OPERATOR'S REPRESENTATIVE

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

W.H. Cravey
Erick W. Nelson
Bill Pierce
701 South Cecil Street
Hobbs, New Mexico
Phone: (505) 393-5905

## 5. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the road and location hopefully will come from the construction site. In the event that unsuitable material is encountered, caliche will be taken from a BLM pit located in the NE4/NW4 of section 12-T18S-R27E, which would be BLM pit # 18271203. This pit also extends into the SE4/SW4 of section 1-T18S-R27E which would be BLM pit # 18270114. An alternate pit which may be used in the event BLM pit # 18271203 contains unsuitable material would be a BLM pit located in the SW4/NE4 of section 1-T18S-R27E, which would be BLM pit # 18270107.

## 6. METHODS OF HANDLING WASTE DISPOSAL:

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

## 7. ANCILLIARY FACILITIES:

A. None required.

## 8. WELLSITE LAYOUT:

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

## 9. PLANS AND RESTORATION OF THE SURFACE:

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

## MULTI-POINT SURFACE USE AND OPERATING PLAN

MEWBOURNE OIL COMPANY

FEDERAL "T" WELL NO. 1

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

EDDY COUNTY, NEW MEXICO

NEW MEXICO LEASE NO. NM-42410

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

## 1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM map, 30 x 60 minute quadrangle; Artesia, New Mexico, showing the location of the proposed well as staked. From the junction of U.S. 82 and U.S. 285 Highways in Artesia, proceed east on U.S. 82 for 12 miles. Turn right (south) on Eddy County Road #206 (Illinois Camp Road) and proceed south for 1 3/4 miles. Turn right (west) on Eddy County Road #204 and proceed west for 3/10 of a mile. Turn left (south) on an existing caliche lease road and follow southwest for 7/8 of a mile. Turn left (south) and proceed 1/4 mile, turn left (east) into location.
- B. Culverts: None required.
- C. Cuts and Fills: A three foot cut will be required for construction of the location.
- D. Turn-Outs: None required.
- E. Gates and Cattleguards: None required.

## 2. LOCATION OF EXISTING WELLS:

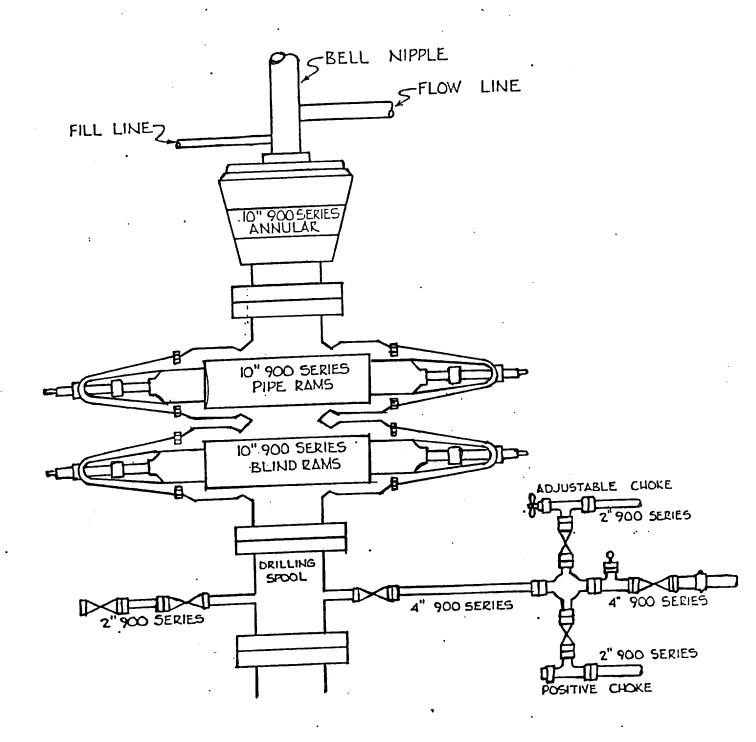
A. Existing wells in a 1 mile radius are shown of Exhibit "B".

## 3. LOCATION OF PROPOSED FACILITIES:

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

## 4. LOCATION AND TYPE OF WATER SUPPLY:

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



## EXHIBIT "D"

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

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

## State of New Mexico nergy, Minerals and Natural Resources Depar

Form C-102 Revised 1-1-89

## OIL CONSERVATION DIVISION

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

RECEIVED

DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

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are

Form 3160-3 (November 1983) (formerly 9-331C)

#### Drawer DD SUBMIT IN TRIPLICATE\*

Artesis III 88210 (Other instructions on reverse side)

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

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DEPARTMENT	OF	THE	INTERI	OR	

5. LEASE DESIGNATION AND SERIAL NO. PUREAU OF LAND MANAGEMENT

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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 fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instructions On Reverse Side

SPECIAL STIPULATIONS

#### 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

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 equipproposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory

investigations or prosecutions, as well as routine regulatory responsibility, effect OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operation on an oil and gas lesse.

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

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 opera-

tions on an oil and gas lease.

Ferm 3160--5 (November 1983)

## U...TED STATES

SUBMIT IN The LICATE.

Form approved.

Budget Bureau No. 1004Expires August 31, 1985

(Formerly 9-331)	DEPARTMENT OF BUREAU OF LAND		R verne in RECEIVED	5. LEASE DESIGNATION NM-42410	
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4. LOCATION OF WELL (1 See also space 17 bel At surface	teport location clearly and in accord.	ordance with any Stat	e requireMut 18'90	North Illinois	
660	' FNL & 990' FEL		arthsia, office	12. SEC., T., B., M., OR SURVEY OR AND 12-18S-27	BLK. AND
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16.	Check Appropriate Box	k To Indicate Natur	re of Notice, Report, o	or Other Data	
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# UNV. ED STATES SUBMIT IN TRIL CATE Other Instructions on results DEPARTMENT OF THE INTERIOR verse side) BUREAU OF LAND MANAGEMENT Form approved. Budget Bureau No. 1004—0.73 Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL SIZE NO. 40440

BUREAU OF LAND MANAGEMENT	NM-42410
SUNDRY NOTICES AND REPORTS ON WELLS  (1) o not use this form for proposals to drill or to deepen or plug back to a difference we "APPLICATION FOR PERMIT.—" for such proposals.)	6 IF INDIAN, ALLOTTEE OR THIBE NAM
OIL GAS WELL X OTHER  2. NAME OF OPERATOR  SEP 13 '90	7. UNIT AGREEMENT NAME
Mewbourne Oil Company	8. FARM OR LEASE NAME FEDERAL "T"
3. ADDRESS OF OPERATOR O. C. D.	9. WELL NO.
P. O. Box 7698, Tyler, Texas 75711 ARTESIA, OFFICE	1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	10. FIELD AND POOL, OR WILDCAT
660' FNL & 990' FEL	N. Illinois Camp Morro
OOO FAL 4 990 FEL	11. SEC., T., R., M., OR BLK. AND SURVEY OR AHMA 12-18S-27E
14. PRIMIT NO. API #30-015-26404  15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3618.9 FR	12. COUNTY OR PARISH 13. STATE
	Eddy N.M.
Check Appropriate Box To Indicate Nature of Notice, Report, or (	Other Data
NOTICE OF INTENTION TO:	UENT REPORT OF:
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FRACTURE THEAT MULTIPLE COMPLETE FRACTURE TREATMENT SHOOT OF ACIDIZE ARANDON?	ALTERING CASING
REPAIR WELL CHANGE PLANS (Other)	ABANDON MENT*
(Other)	of multiple completion on Well
<ol> <li>DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertice near to this work.)*</li> </ol>	letton Report and Log form.) Including estimated date of starting an all depths for all markers and zones pert.
Casing set at 9473', cemented with 430 sxs Class salt + ½# Celloseal. Overdisplaced 1 bbl No back flow or vacuum.  8/27/90 - Ran 4" liner set at 10,140' with top of liner 500 gallons Sure Bone, followed by 5 bbl frest cemented with 80 sacks Class "H" with 1% CF-14 down at 11:30 AM.	without bumping plug.  at 9055'. Pumped h water. Spaced and
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Marie Marie Carlo	B Cm
SEP 1 i 1996	
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SIGNED WITH TITLE Engr. Oprns. Secretary	7 DATE 9/06/90
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APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	_ DATE
OF ALLEGANT; IR ANI;	

(Formerly 9=331) DEPARTI	UI ED STATES MEN F OF THE INTER U OF LAND MANAGEMEN		Expires Augus 5. LEASE DESIGNATION	i No. 1004–0135 it 31, 1985
(Do not use this form for propos	ICES AND REPORTS als to drill or to deepen or plug TION FOR PERMIT—" for such	back to a different reservoir	6. IF INDIAN, ALLOTTI	AME
Mewbourne Oil Compa 3. ADDRESS OF OPERATOR P. O. Box 7698, Tyl 4. Location of Well (Report location of See also space 17 below.) At surface	er, Texas 75711	OCT 17 '90  y State requirement S. C. D.	FEDERAL *  8. WELL NO.  1  10. FIELD AND POOL, C.  N. Illinois C.	
660° FNL &  14. PERMIT NO.  API #30-015-26404	15. ELEVATIONS (Show whether n		11. SEC., T., E., M., OR SURVEY OR ARM/ 12-18S-27E 12. COUNTY OR PARISE	BLE. AND
		Nature of Notice, Report, or	Eddy Other Data	N.M.
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	CLL OR ALTER CASING ILLTIPLE COMPLETE BRANDON* CHANGE PLANS	Completion or Recon	X ALTERING C X ABANDONME  Its of multiple completion appletion Report and Log for	on Well
17. DESCRIBE PROPOSED OR COMPLETED OPER proposed work. If well is direction nent to this work.) •  9/14/90 - Perforated Total 48 hc 9/15/90 - Halliburtor	Morrow 10,008-01	14, 12 holes; 10,	038-054°, 36	holes.

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

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

Adr

18. I hereby certify that the foregular intrue and entreet			a control
SIGNED Stephen Some	TITLE Engr. Oprns.	Secretary DATE	10/02/90
(This space for Federal or State office use)  APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE	



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

P. D. BOX 1498 ROSWELL, NEW MEXICO 88202-1498 505/623-5070 505/746-2719

ROSWELL, NM

MECENTESIA, NM

JAN 3 1 1991

August 29, 1990 ARTEMA OFFICE

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

Ref: Federal "T" #1

Gentlement:

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

$2589' - \frac{1}{4}^{\circ}$ $6479' - 3 \frac{3}{4}^{\circ}$ $8137'$ $3068' - \frac{1}{2}^{\circ}$ $6564' - 4\frac{1}{2}^{\circ}$ $8815'$	- 3½° - 2 3/4° - 2 3/4° - 2° - 2° - 2°
2000	- 1 3/4 °

Sincerely Contint

Arnold Newkirk Vice-President

STATE OF NEW MEXICO)

COUNTY OF CHAVES )

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

My Commission Expires:

10-07-1992

Notary Public

	TOP	TRUE VERT. DEPTH					*		•			: ·	1						
GEOLOGIC MARKERS		MEAS, DEPTH	476	1218	1572	4824	6016	6716	7682	8912	9513	9628	9828	9965	10104				
38. GEO		NAME	Yates	Queen	Grayburg San Andres	Tubb	Abo	Wolfcamp	Cisco	Strawn	Atoka	Morrow	Morrow Clastics	Lower	Barnett			-	
zones of porosity and contents thereof; cored intervals; and all ishion used, time tool open, flowing and shut-in pressures, and	DESCRIPTION, CONTENTS, ETC.	Sandstone	Sandstone	Sandstone	Sandstone			Tool open 30 m	FFP 88-50#, FSIP 430#, 62 mins.	O' drilling flui	ushion. Tool	72-37# ISIP	120 mins. Recovered 2' free oil, 122' drilling fluid.	)					
now all important terval tested, cu	BOTTOM	1556	9575	99281	10054			58501			64991								
ROUS ZONES: (SIncluding depth in	TOP	1522'	9566	99021	10008			5749"			64751					-			
37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity drill-stem, tests, including depth interval tested, cushion used, time recoveries):	FORMATION	Penrose	Atoka	Middle Morrow	Lower	M O T T O	DST .#1	Drinkard			DST #2	Abo							

Submit 5 Copies
Appropriate District Office
DISTRICT 1
P.O. Box 1980, Hobbs, NM 88240

#### State of New Mexico Energy, Minerals and Natural Resources Department

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

## OIL CONSERVATION DIVISION

DISTRICT II P.O. Drawer DD, Artesia, NM 88210					ox 2088	4 0000			MP CEIAI			
DISTRICT III		Sai	nta Fe,	New M	exico 8750	14-2088	5		IE MAL	1991		
1000 Rio Brazos Rd., Aztec, NM 87410					BLE AND A			ATION	a.c.	D		
I. Operator			1451	JITT OIL	. AND INA	OTIAL	·	Well A	PANERA	OHICE		
Mewbourne Oil	Compan	ıy 🗸						30-	015-26	404		
P. O. Box 7698	, Ty1e	er, Te	exas	75711								
Reason(s) for Filing (Check proper box) New Well		Change in	Transpor	ter of:	∐ Oth	er (Please	explain	1)				
Recompletion	Oil		Dry Gas									
Change in Operator	Casinghea	d Gas 📋	Condens	sate 🗌								
If change of operator give name and address of previous operator												
II. DESCRIPTION OF WELL	AND LEA	ASE										
Lease Name FEDERAL ''T''		Well No.			ng Formation nois Cam	n Mor	row	Kind o	of Lease Federal op(Fee		2410	
Location		1	NOI C.	11 1111	IIOIS Call	p 1401.	LOW	TAKA				
Unit LetterA	<u>:                                    </u>	50	Feet Fro	om The	North Lin	e and	990	Fe	et From The _	East	Line	
Section 12 Township	ip 185	3	Range	27E	, NI	мрм,			Edo	dy	County	
III. DESIGNATION OF TRAN	SPORTE	R OF OI	L AN	D NATU	RAL GAS							
Name of Authorized Transporter of Oil Amoco Pipeline Inter- corporate Trucking		or Conden	sale							orm is to be se	nı) 170-2068	
Name of Authorized Transporter of Casin	ghead Gas		or Dry	Gas X						orm is to be se		
Transwestern Pipeline			l <sub>m</sub>	<del></del>						77251 <b>-</b> 1	188	
If well produces oil or liquids, give location of tanks.	Unit     A	Sec	Twp. 18S	Kge.   27E	Is gas actuall No	y connect	ear	When		ary, 199	91	
If this production is commingled with that IV. COMPLETION DATA	from any oth	er lease or	pool, giv	e comming	ling order num	ber:	No					
		Oil Well	10	ias Well	New Well	Worko	ver	Deepen	Plug Back	Same Res'v	Diff Res'v	
Designate Type of Completion  Date Spudded		ol. Ready to	Bood	X	X Total Depth	<u> </u>	L		DDTD	L		
6/28/90	1 -	713/90	riou.		Total Depth	10	0,143	1'	P.B.T.D.	10,100		
Elevations (DF, RKB, RT, GR, etc.)	Name of Pr		rmation		Top Oil/Gas	Pay			Tubing Dept			
DF 3632, GL 3618,	Morro	DW				1	0,008	3 1	Depth Casin	9,842'		
10,008-054												
11015.075	-,				CEMENTI			·		14 OKO OEN	FAIT	
HOLE SIZE 17-1/2"	CAS	SING & TU 13-3		ize		DEPTH	172 <b>'</b>		SACKS CEMENT			
12-1/4"			5/8"				589 <b>'</b>		450			
7-7/8"	<u> </u>		12"			•	173 <b>'</b>		430			
5-1/2"		4" Li	<del></del>				140'		80			
V. TEST DATA AND REQUE				9		4 4 .		-11.6-40	. 44 1		1	
OIL WELL (Test must be after a Date First New Oil Run To Tank	Date of Tes		uj ioda o	u ana musi	Producing Me			·		or just 24 hou	ra.j	
		-							•	Post	ID-2	
Length of Test	Tubing Pre	asure			Casing Press.	ire			Choke Size	3-19	5-94	
Actual Prod. During Test	Oil - Bbls.				Water - Bbis.				Gas-MCF Camp & BR			
GAS WELL	1				1		-	<del> </del>	L			
Actual Prod. Test - MCF/D	Length of	Test			Bbls. Conden	sate/MM(	CF.		Gravity of C	ondensate		
923	2	2.4 hou	ırs			1				80		
Testing Method (pitot, back pr.) Back Pressure		ssure (Shut- 2300#	-in)		Casing Pressa	re (Shut-i	in)	:	Choke Size	4/64''		
VI. OPERATOR CERTIFIC  I hereby certify that the rules and regul Division have been complied with and is true and complete of the best of my	ations of the	Oil Conserv	valion	CE					L	DIVISIO	N	
1.000////	am	pro	W/		Bv_	Appro	oved		a/a/l			
Signature Gaylon Thompson, Printed/Name	Engr.	Oprns	Sec	·			<u> </u>	BUISO	, DISTRI	CT II		
1/28/91 (	903) 5	61 - 29		<del></del>	Title		y⊌PE-	KYISUK	, DISTRI			

- 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
- 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 filled for each pool in multiply completed wells.

## OIL CONSERVATION DIVIDIO

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

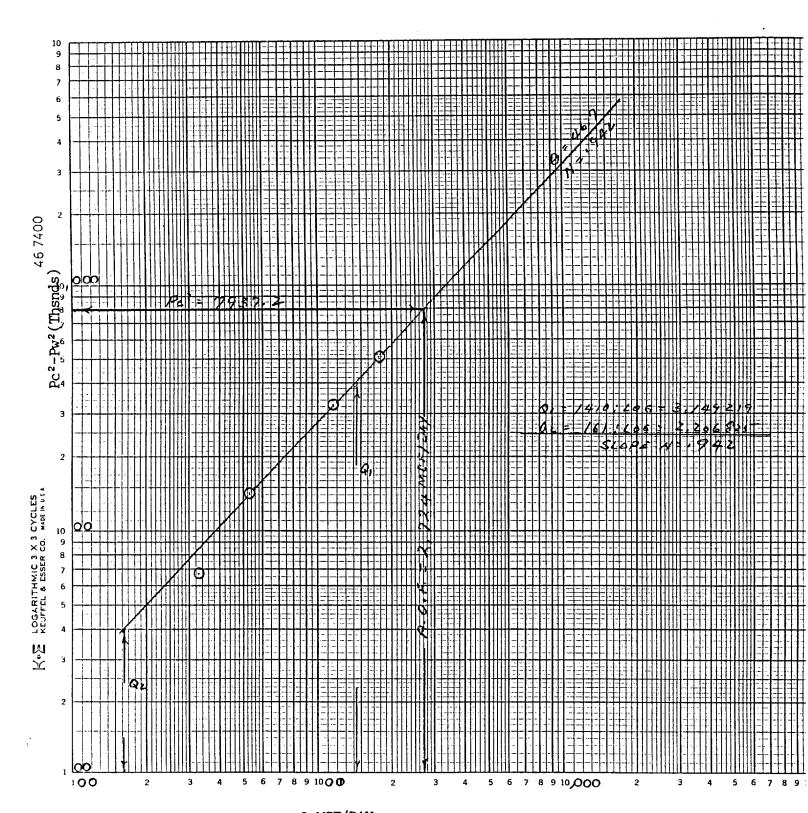


Forn C-122 Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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_	pietion Date			Total Capib		<del></del>	Plug Back			Elevation	•	1	Legae No		
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			2.6	BBLS !		API C	ONDENSAT	E duri		est & .	5 BBL	H <sup>2</sup> O	Вуг	<del></del>	

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



Q MCF/DAY

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

State of New Mexico nergy, Minerals and Natural Resources Depar. nt

## OH CONCEDIVATION DIVISION

	C-104	
	ed 1-1-89	
	nstruction	
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DISTRICT II	,		)NS	EKVA P.O. Bo	TTON D ox 2088	111210	N		,	15/
O. Drawer DD, Artesia, NM 88210		Sant	a Fe,		exico 8750	4-2088			ζ	127
ISTRICT III 000 Rio Brazos Rd., Aztec, NM 87410					BLE AND					, ¢ √0
	1	OTRAN	ISPO	ORT OIL	AND NA	TURAL GA		API No.		V <sub>f</sub>
perator Of L. Com							Well		526404	
Mewbourne Oil Con	npany			1.795 4184			1	30-01.	<u> </u>	
P.O. Box 5270 Ho	obbs, N	ew Mexi	.co			- <u></u> .				
eason(s) for Filing (Check proper box)  ew Well		Change in T	·	eter of:	Othe	er (Piease expla	iin)			
ecompletion	Oil		лашор∾ Эгу Gа							
hange in Operator	Casinghead	i Gas 🔲 C	Conden	sate						
change of operator give name ad address of previous operator										<del> </del>
. DESCRIPTION OF WELL	AND LEA									
ease Name		1			ng Formation	- 1/	TESTER	of Lease Federal <b>of Fig</b>	7	ease No.
Federal "T"		1	Nor	th III1	nois Can	np Morrot	y 23		NM-	42410
Ocation Unit LetterA		660 <sub>r</sub>	Feet Fr	om The	orth Line	and (	990 Fe	et From The _	East	Line
_									1	
Section 12 Township	p 1	8S I	Range	27E	, NI	мрм,		Ede	ау	County
I. DESIGNATION OF TRAN	SPORTE			D NATU	RAL GAS			6.11.6		
lame of Authorized Transporter of Oil moco Pipeline Inter-		or Condensa	te	X		address to wh	• • •			
orporate Trucking lame of Authorized Transporter of Casing	head Gas		or Drv	Gas X		e address to wh				k 74170-2 ens)
ranswestern Pipeline (		· · ·	,			x 1188 I				
well produces oil or liquids,			Гwp.	Rge.	Is gas actually	y connected?	When			
ve location of tanks.		12	185			es		02/07/91		
this production is commingled with that the completion DATA	from any other	er lease or po	ooi, giv	e commingi	ing order num	per: No				
	an.	Oil Well	7	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Designate Type of Completion		]			Total Depth	L		P.B.T.D.		
Date Spudded	Date Comp	ol. Ready to I	rtoa.		Total Depai			P.B.1.D.		İ
levations (DF, RKB, RT, GR, etc.)	Name of Pr	roducing For	mation		Top Oil/Gas 1	Pay		Tubing Dept	h	
	<u></u>							Depth Casing	r Shoe	
Perforations								Depair Casing	5 Shoc	
	T	UBING, C	CASI	NG AND	CEMENTI	NG RECOR	D			
HOLE SIZE		SING & TUE				DEPTH SET		s	ACKS CEM	ENT
								-		
	-									
. TEST DATA AND REQUES OIL WELL (Test must be after t	ST FOR A	LLOWA	BLE	oil and much	he equal to or	exceed top all	owable for the	is denth or be f	for full 24 hos	urs.)
OIL WELL (Test must be after r Date First New Oil Run To Tank	Date of Te		1000	DI GAG MIGS	Producing Me	ethod (Flow, pr	ımp, gas lift,	etc.)		
								Chala Cia		
ength of Test	Tubing Pre	ssure			Casing Press	are		Choke Size		
Actual Prod. During Test	Oil - Bbls.			-	Water - Bbls.	<del> </del>		Gas- MCF		
actual from During Foot	0 20	_							·	
GAS WELL										
Actual Prod. Test - MCF/D	Length of	Test			Bbls. Conden	sate/MMCF		Gravity of C	Condensate	
esting Method (pitot, back pr.)	Tubing Pre	essure (Shut-	in)		Casing Press	ure (Shut-in)		Choke Size		
					<u> </u>					
VI. OPERATOR CERTIFIC	CATE OF	COMP	LIAÌ	NCE			ISFRV	ATION	DIVISIO	NC
I hereby certify that the rules and regulation have been complied with and	lations of the	Oil Conserv	ation n abov	e	∥ `					
is true and complete to the best of my	knowledge a	nd belief.		-	Date	Approve	ed	MAR 1 2	1991	
1 / /2//2						Applove	·			
_//0////00	ane	4			By_	ORIGI	NAL SIG	NED BY		
Signature W.H. Craneey	— A	istric	t Su	pt.	-, -		WILLIAM			

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

Printed Name

Date

1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance

Title.

SUPERVISOR, DISTRICT IT

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

(505) 393-5905 Telephone No.

Title

- 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.



#### STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

BRUCE KING GOVERNOR OIL CONSERVATION DIVISION ARTESIA DISTRICT OFFICE

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

Date: August 9, 1991

Mew bourne Oil Co. P.O. Box 5270 Hobbs, N.M. 88241

Re: Wells placed in pools

Gentlemen:

As the result of Division Order R-9545 the following described well (s) (has have) been placed in the pool (s) shown below. This change in nomenclature has been made in our files. Please change your records to reflect the proper pool name. All subsequent reports must show this nomenclature until further notice.

North Illinois Camp- Morrow Gas Pool-78890

Federal T #1 A-12-18-27

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

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

Sincerely.

Darrell Moore
District Geologist

cc: Each Transporter Amoco Pipeline, Transwestern Santa Fe

Mae

Well File / Joe Chism

BLM

Form, 316 -1. (June 1993)

# UNITED STATES DEPARTMENT OF THE INTERIOR LUREAU OF LAND M. SEMENT.

FORM APPROVED

Euggs Bureau No. 1004-0036

Expires: March 31, 1955

Leuis Designation and Serial No.

SUNDRY NOTICES	AND	REPORTS	ON	WELLS	
t toand to dr	ill or t	o deanen o	700	ntry to a	di

NM-42410

Do not use this form for proposals to dri Use "APPLICATION FOI	R PERMIT—" for such proposals	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well    X Oil	AUG - 2 1993	8. Well Name and No.  Federal "T" No. 1 9. API Well No.
P.O. Box 5270 Hobbs, New Me 4. Location of Well (Footage, Sec., T., R., M., or Survey D 660' FNL & 990' FEL Sec. 12-T18S-R27E	exico 88241 (505) 393-5905 escription) s) TO INDICATE NATURE OF NOTICE, REPOR	10. Field and Pool, or Exploratory Area  Canyon  11. County or Parish, State  Eddy Co., N.M.  RT. OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment  Recompletion  Yelugging Back  Casing Repair  Altering Casing  Other	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

- 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*
  - 1. Plug back existing perforations (10,008'-10,054') with a CIBP @ 9950' and 9040'. Cap both plugs with 50' cement.
  - 2. Perforate the Cisco formation @ 7700'-8050'.
  - 3. Stimulate if necessary.



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

14. I hereby certify that the foregoing is true and correct Signed	TitleDistrict_Supt	Date July 14, 1993
(This space for Federal of State office (Sec.)  Approved by Conditions of approval, if any:	Tide Petroleum Engineer	Date JUL 1876

015F

Form 3160-5	RESERVED U		ver DD	FORM APPROVED Budget Bureau No. 1004-0135
(June 1990)	DLI AKT W.	ENT OF THE INTERI <b>OR</b>	esta. NM 88810	Expires: March 31, 1993  5. Lease Designation and Serial No.
	BUREAU O	F LAND MANAGEMENT		NM-42410
Çet	SUNDRY NOTICE	S AND REPORTS ON W	/ELLS	6. If Indian, Allottee or Tribe Name
Do not use	this form for proposals to	drill or to deepen or reentr FOR PERMIT—" for such p	ry to a different reserv roposals	oir.
	SUBM	IIT IN TRIPLICATE	MECEIVED	7. If Unit or CA, Agreement Designation
1. Type of Well			00T - 6 <b>19</b> 5	93
	Gas Other		060	8. Well Name and No.
2. Name of Opera	,		ALC: NOTE OF THE PARTY	Federal "T" #1
Mewbour  3. Address and Te	ne Oil Company			30-015-26404
	x 5270 Hobbs, New M	exico 88241		10. Field and Pool, or Exploratory Area
4. Location of W	ell (Footage, Sec., T., R., M., or Surve	y Description)		North Illinois Camp Morrow
660' FN	L & 990' FEL			11. County or Parish, State
Sec. 12	-T18S-R27E			Eddy Co. New Mexico
12. CH	HECK APPROPRIATE BO	X(s) TO INDICATE NATU	JRE OF NOTICE, RE	EPORT, OR OTHER DATA
TY	PE OF SUBMISSION		TYPE OF ACT	TION
	Notice of Intent	Abandonn	nent	Change of Plans
	n	Recomple		New Construction
Ľ	Subsequent Report	Plugging I		Non-Routine Fracturing Water Shut-Off
Г	Final Abandonment Notice	Altering (		Conversion to Injection
_	1 mai Moandonnion Mondo	Other		Dispose Water
				(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Prop	osed or Completed Operations (Clearly sta urface locations and measured and true v	ate all pertinent details, and give pertinent vertical depths for all markers and zones	dates, including estimated date of pertinent to this work.)*	starting any proposed work. If well is directionally drilled,
	from Adam Salameh		•	
00/34/03	Nall numbing 1/1/2	DU O DO O MCE fro	om attempted comm	oletion in Cisco formation.
08/14/93	MIDH well service	ria.		
08/15/93	3 Set CIBP @ 7595' (	over @isco Perfs (76	85'-7695'). Dump	o 4 sx. cmt. on plug. Perf.
00, 10, 0	Wolfcamp formation	n (7330'-7360') (44 .	н)	
08/16/93		w/no entry.	llew FF soid (	Swabbod waton w/no show of
08/17/93		formation w/3000 ga	1 15% FE acid.	Swabbed water w/no show of
08/18/9	oil or gas.	over Wolfcamp format	ion (7330'-7360'	). Dump 4 sx. cmt. on plug.
00/10/9	Perfid Wolfcamp fo	ormation (7092'-7146	') (62H). Swabbe	ed well down. No entry.
08/19/9	3 Acidized Wolfcamp	formation (7092'-71	46') w/3000 gal.	15% RE acid.
08/20/9	2 Cushbod wall w/no	show of oil or gas.	4613 0 01114	7.6 (60601 70201) (0011)
08/21/9	3 Set CIBP @ 7078'	over Perfs (7092'-71	46'). Pert'd Wo	lfcamp (6868'-7038') (80H)
08/22/9	3 Acidized Wolfcamp	formation (6868'-70	38.) M/3000 gal.	15% FE acid.
08/24/9	3 Swabbing water w/	trace of oil.	20000 3 00% 55	and a le ood and and water
08/26/9			3000 gal. 20% FE	acid & 15,000 gal. gel water.
,	See attached page	•		
14. I hereby cert	ify that the foregoing is true and correct	Duadua	tion Theirean	Date 09/08/93
Signed	Heat Kenne	Title Produc	tion Engineer	Date U9/ 00/ 93
(This space f	for Federal or State office use)	<u>-</u>	ACC	CEPTED FOR RECORD
Approved by Conditions o	f approval, if any:	Title		A Jara
				CT - 4 1993
Title 18 U.S.C.	Section 1001, makes it a crime for any p	erson knowingly and willfully to make to	any department or agency of the	: United States any false, fictitious or flaudulent statements
or representation	s as to any matter within its jurisdiction.		- CAR	LSBAD, NEW MEXICO
		*See Instruction or	I LALDISO OIUS	

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

	TED STATES OIL COMM. (** BEICH TOF THE INTERIOR OF DD	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993
BUREAU OF I	LAND MANAGEMENT IN BORLO	5. Lease Designation and Serial No.
Aug 24 11 03 ASUNDRY NOTICES	AND DEPORTS ON WELLS	NM-42410
AUG 24 11 03 HSUNDRY NOTICES	AND REPURIS ON WELLS	6. If Indian, Allottee or Tribe Name
OAR: Use "APPLICATION FOI	ill or to deepen or reentry to a different reservoir R PERMIT—" for such proposals	•
AREA	OPE HIVED	7. If Unit or CA, Agreement Designation
SUBMIT	IN TRIPLICATE	
1. Type of Well	SEP - 8 1993	8. Well Name and No.
Oil Gas Well Other	A C.D.	
2. Name of Operator	A SECOND STATE OF THE SECO	Federal "T" #1 9. API Well No.
Mewbourne 0il Company   3. Address and Telephone No.		30-015-26404
P.C. Box 5270 Hobbs, New Me	xico 88241 (505) 393-5905	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D		North Illinois Camp
		11. County or Parish, State MOTTOW
660' FNL & 990' FEL Sec. 12	-T18S-R27E	514 6 8 8
		Eddy Co. N.M.
CHECK APPROPRIATE BOX(	s) TO INDICATE NATURE OF NOTICE, REPO	ORI, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTIO	N
Notice of Intent	Abandonment	Change of Plans
<del></del>	Recompletion	New Construction
X Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection Dispose Water
	□ Other	(Note: Report results of multiple completion on Well
12 Describe Proposed or Completed Operations (Clearly state a	ll pertinent details, and give pertinent dates, including estimated date of start	Completion or Recompletion Report and Log form.)  ting any proposed work. If well is directionally drilled
give subsurface locations and measured and true verti-	verba	11 from Adam - BLM.
07/19/93 Set 4" CIBP @ 9950'	over Morrow Perfs. (10,008'-10,054')	Dump 2 sx. cmt.
07/21/03 Sat 5_1/2" CIRP @ 90	ገ4በ' @ top of liner. Dumped 4 sx. CM	]τ.
07/22/92 Perf. Cisco Formatio	on (8034'-8042' w/2 SPF & 8055'-8060'	w/2SPF. Swabbed tested
all water.	8000'. Pumped 100 sx. cmt. into per	efs (8034'-8060')
07/24/93 Set cmt. retainer @	on 7832'-7840' w/2 SPF. Swab tested	all water.
07/25/93 Perf. Cisco Formation 07/27/93 Set cmt. retainer @	7820'. Pumped 100 sx. cmt. into per	fs. (7832'-7840')
07/20/03 Porf Cisco Formatio	on 7790'-7798' w/2 SPF. Swab tested	all water.
07/20/03 Set cmt retainer 0	7780'. Pumped 100 sx. cmt. into per	TS. (//90°-//90 )
07/20/02 Dorf Cisco Formatio	on 7760'-7768' w/2 SPF. Swab tested	all water.
07/21/02 Sot cmt retainer @	7745' Pumped 100 sx. cmt. into per	^ts. (//6U'-//08')
08/01/93 Perf. Cisco Formation	on 7685'-7695' w/4 SPF. Swab tested	water w/snow or yas.
08/03/93 Acidized Cisco Form	ation (7685'-7695') w/3000 gal 15% FI	e acru.
	5033' & started pumping well.	
08/05/93 1100 BWPD No oil. 08/06/93 1200 BWPD No oil.		
08/06/93 1200 BWPD No oil.		
14. I hereby certify the The for going is true and correct	Engineen	Date August 20, 1993
Signed	Title Engineer	pate //ugus c zo;
(This space for Federal or State office use)		
Approved by	Title	Date
Collations of approved a way.		J. Jana
	n knowingly and willfully to make to any department or agency of the Uni	ited Stars any false Tictifious or fraudulent statemen
Title 18 U.S.C. Section 1001, makes it a crime for any perso or representations as to any matter within its jurisdiction.	is knowingly and william; to make to any department of agency of the Oil	, 0

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

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

## State of New Mexico Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

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

007 - 4 1993

ISTRICT III XXX Rio Brazos Rd., Azsec, NM 87410		ilia re, new Mie				<b>Q. t.,</b> D		
	TO TRA	OR ALLOWAB INSPORT OIL	AND NATURA	L GAS	Well AP	COMP		
PPETALOT  MEWBOURNE OIL COMF	PANY					5-26404		
P.O. BOX 5270, HO	BBS. NM 8824	]						
eason(s) for Filing (Check proper box)		-	Other (Plea	ise explain)				
lew Well	Oil 🗆	Transporter of:						
change in Operator	Casinghead Gas	-Condensate						
d address of previous operator  DESCRIPTION OF WELL.	ANDIFACE							
case Name	Well No.	Pool Name, Include	ng Formation //	Ponou	Kind of	Lesse ederal or Fee	NM-42	410
FEDERAL "T"							CEI	•
Unit Letter	_ : <u>660'</u>	_ Feet From The	NL Line and			From The	<u> </u>	Line
Section 12 Township	p 18S	Range 27E	, NMPM,	EDI	DΥ			County
II. DESIGNATION OF TRAN	- or Conde	OIL AND NATU	RAL GAS Address (Give addr	ess to which	k approved	copy of this fo	rm is so be se	nd)
tame of Authorized Transporter of Oil  AMO			Address (Give addr					
Name of Authorized Transporter of Casin, GPM GAS CORPORATION	ghead Gas X	or Dry Gas	BARTLESVIL	LE, 0	<u>KLAHOMA</u>	<u> 74004</u>		
f well produces oil or liquids, ive location of tanks.	Unit Sec.	Twp.   Rgs.   18S   27E	YES	sected?	When	8-1-93		
this production is commingled with that V. COMPLETION DATA	from any other lease o	r pool, give comming	ling order number:					
	Oil We	II Ges Well	New Weil Wo	rkover	Deepen	Plug Back	Same Res'v	Diff Res'v
Designate Type of Completion	Date Compl. Ready	to Pro4.	Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.) Name of Producing Formation			Top Oil/Gas Pay			Tubing Dep	¢h.	
Perforations			1			Depth Casi	ng Shoe	
	THIRING	G, CASING ANI	CEMENTING	RECOR	0	<u> </u>		
HOLE SIZE		TUBING SIZE	DE	PTH SET			SACKS CEN	IENT
V. TEST DATA AND REQUI	EST FOR ALLOV recovery of total volume	WABLE me of load oil and mu	st be equal to or exce	eed sop allo	mable for th	is depth or be	for full 24 ho	ws.)
Date First New Oil Run To Tank	Date of Test		Producing Method	i (Flow, pu	mp, gas iyi.			
Length of Test	Tubing Pressure		Casing Pressure			Choke Siz		
Actual Prod. During Test	Oil - Bbis.		Water - Bbis.			Gas- MCF		
GAS WELL								
Actual Prod. Test - MCF/D	Length of Test		Bbis. Condensate	MMCF		Gravity of	Condensate	
Testing Method (pitot, back pr.)	Tubing Pressure (	Shut-in)	Casing Pressure	(Shut-in)		Oboke Si	ıe	
VL OPERATOR CERTIF	ICATE OF CO	MPLIANCE		L CO!	USER\	/ATION	I DIVIS	ION
I hereby certify that the rules and re	gulations of the Oil Co	eservation given above						
is the and complete to the best of I	my knowledge and beli	eľ.	Date A	Approv	ed	มเ I	~ 7 19 <u>9</u>	ι <b>ν</b>
At the			-		RIGINAL	SIGNED	ВУ	
Signature  YAY PRUDHOMME	PRODUC	TION ENGINE	R	ħ.	MIKE WIL	LIAMS SOR, DIS		
Printed Name SEPT. 28, 1993	(505)	Title 393-5905	-    Title_		OF LICETY			
		Telephone No.	• •					

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.

Form 316\*-f iJune 1900

## UNITED STATES DEFARTMENT OF THE INTERIOR THE STORY DELIVED WARRONGER.

NH OIL BLUE COLLABOR Drawer DD FORM AFFRONED

Artosia, MA 88210 FORM AFFRONED

Lugir Fire. N. 1004-013:

Lugire: March 31, 1963

1 1 Designation and Senic N. Drawer DD

Do not use this form for proposals to drill	ND REPORTS ON WELLS or to deepen or reentry to a different reservoir. PERMIT—" for such proposals	NM-42410 6. If Indian, Allottee or Tribe Name
	N TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well    Oil   X Gas   Other   Well   X Well   Other   Other   Other	ription)	8. Well Name and No.  Federal "T" #1  9. API Well No.  30-015-26404  10. Field and Pool, or Exploratory Area  North Illinois Camp Morrow  11. County or Parish, State  Eddy Co. N.M.
CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION    X   Notice of Intent	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Shut-in Status ertinent details, and give pertinent dates, including estimated date of starting	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.)  g any proposed work. If well is directionally drilled,
Mewhourne Oil Commany here b of the lease for the above w	requests "shut-in" status pending ell. The well was spudded 06/28/90. rt which charts the annulus pressure	Attached is a duning a break
	Approved For 12 Month Ferlod Ending 8/27/94	SEP 24 II OF AII 193
14. I hereby certify that the foregoing is true and correct  Signed	Tide Production Engineer	Date 09/21/93
Approved by Conditions of approval, if any:	Tide Petroleum Eminest	Date

## HALLIBURTON SERVICES

ACQUIRE Version 1.52

## CUSTOMER AND JOB INFORMATION

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

Customer Representative BRENT THURMAP

Halliburton Operator TOMMY VAUGHN

Ticket No. 498331NO

## STAGE DESCRIPTIONS

ST ACID ST FLUSH

## WELL CONFIGURATION INFORMATION

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

## PIPE CONFIGURATION

Wellbore	Measured		Casing	Casing	Tubing	Tubing
Segment	Depth	TVD	ID	<b>O</b> D	ID	<b>0</b> D
Number	(ft)	(ft)	(inch)	(inch)	(inch)	(inch)
1	<b>68</b> 68	6868	4.950	5,500	2.441	2.875

## **PERFORATIONS**

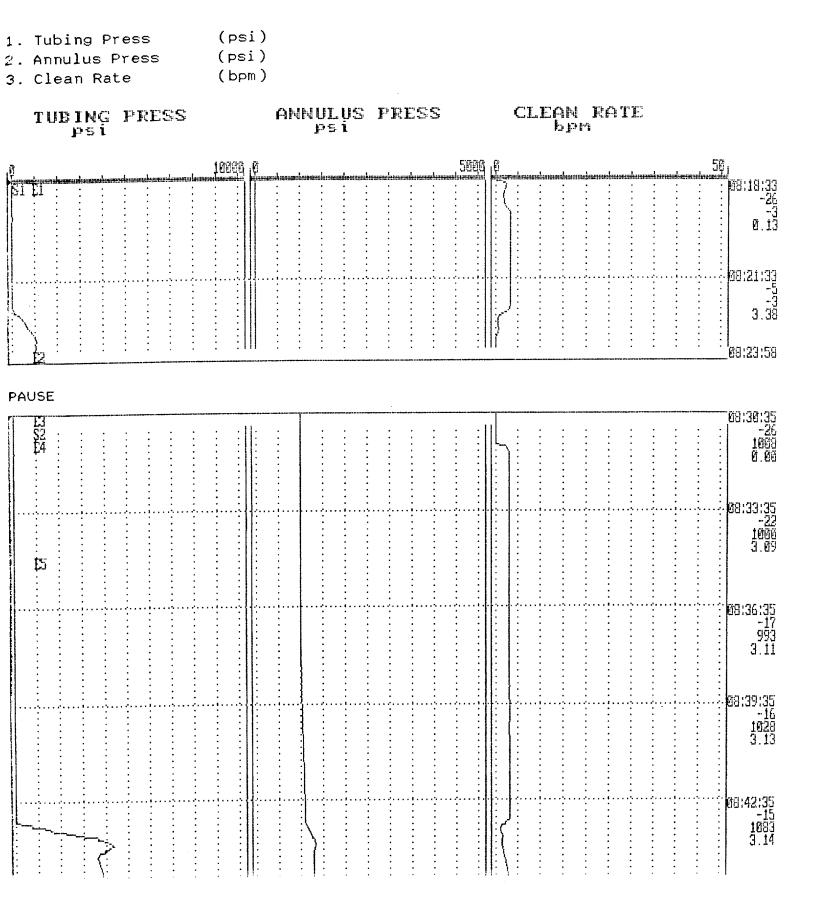
Perforation	Top	Bottom	Shots per
Interval	(ft)	(ft)	(ft)
1	6868	7038	2

## REMARKS ABOUT JOB

TREAT AS INST	

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

## 



	.,				 		] ·   ] : .	!				 	 									 	 	08:49:35
<b>E</b> 7		 			 				:				 									 		08:48:35 4135 1260 3:52
£8 \$3					 1			!				 !											 	08:51:35 3839 1225 3.59
139			!		 					4				560	5	0							 50	09:54:35 3713 1216 3.63
E10																								08:57:35 372: 116: 4.65
E11											· · · · · · · · · · · · · · · · · · ·							•	· · · · · · · · · · · · · · · · · · ·				 	69:00:3 367 110 4.0
E12 E13 E14					, , , , , , , , , , , , , , , , , , ,									•										09:03:3 376 105 4.0
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E15				· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·																69:69:3 294 97 6.6
<b>E</b> 16						:																		69:12:3 287 96 6.0
	:					:						 		:									 	09:15:3 282 96 0.6

Form 3160-5 (June 1990)

# DEDA

3714 -2		COMMISSION OF THE PROPERTY OF	105
MM .(IT	CONS	COMMISSION	CIST
Di ar	DD	FORT APPROVED	
Artoni	1	Budget Bureau No. 1004-0135	

Completion or Recompletion Report and Log form.)

UIED STATES RTMENT OF THE INTERIOR	Artesia, NM	Budget Bureau No. 1004-01: 88 Bibits: March 31, 1993
AU OF LAND MANAGEMENT	5. L	ease Designation and Serial No

BUREAU OF I  SUNDRY NOTICES  Do not use this form for proposals to dr  Use "APPLICATION FO	Lease Designation and Serial No.     NM 42410     If Indian, Allonee or Tribe Name	
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
Type of Well  Oil  Well  Well  Other  Name of Operator  Mewbourne Oil Company  Address and Telephone No.  P.O. Box 5270 Hobbs, New Mey  Location of Well (Footage, Sec., T., R., M., or Survey D  660' FNL & 990' FEL  Sec. 12-T18S-R27E	xico 88241 (505) 393-5905  Escription)  UNITA  (S) TO INDICATE NATURE OF NOTICE, REPOR	8. Well Name and No. Federal T #1 9. API Well No. 30-015-26404 10. Field and Pool, or Exploratory Area N. Illinois Camp Morro 11. County or Parish, State Eddy Co., N.M.
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction
Subsequent Report  Final Abandonment Notice	☐ Plugging Back ☐ Casing Repair ☐ Altering Casing Other Casing Integrity Tes	Water Shut-Off Conversion to Injection  Dispose Water (Note: Report results of multiple completion on Well

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

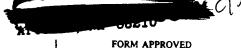
- Loaded casing with 80 bbls. water and tested to 1,000#. Lost 10# in 30 minutes. Loaded casing with 80 bbls. water and tested to 1,000%. Casing integrity test witnessed and approved by BLM representative Company (Casing integrity test witnessed and approved by BLM representative Company). on 5/23/95.
- Had no pressure on 5-1/2" 8-5/8" Annulus or 8-5/8" 13-3/8" Annulus 1 0 1925

NM OIL CONS COMMISSION Drawer DD

Artesia, NM 88210

Form 3160-5 (June 1990)

**UNITED STATES** DEPARTMENT OF THE INTERIOR



FORM APPROVED
Budget Bureau No. 1004-0135

Deceget Du	CEU 140.	ION-OI.	"
Expires:	March	31, 1993	

Expires:	March	31,	1993	
Leace Decignat	ion and	C	ial M	_

BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No.		
AUNDRY NATIOES	NM 42410			
SUNDRY NOTICES  Do not use this form for proposals to de  Use "APPLICATION FO	6. If Indian, Allottee or Tribe Name			
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation		
I. Type of Well Oil Sas				
Well Well Cher		8. Well Name and No.		
2. Name of Operator	u	Federal "T" #1		
Mewbourne Oil Company  3. Address and Telephone No.		4		
•	992/1 /505) 202 5005	30-015-26404  10. Field and Pool, or Exploratory Area		
P.O. Box 5270 Hobbs, New Me  4. Location of Well (Footage, Sec., T., R., M., or Survey D		<b>⊣</b>		
660' FNL & 990' FEL	occupion)	N. Illinois Camp Morrow 11. County or Parish, State		
Sec. 12-T18S-R27E		The desiry of Fallin, Sale		
5ec. 12-1165-R27E	Unit A	Eddy Co. N.M.		
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPOI	RT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION			
Notice of Intent	Abandonment	Change of Plans		
	Recompletion	New Construction		
Subsequent Report	Plugging Back	Non-Routine Fracturing		
	Casing Repair	Water Shut-Off		
Final Abandonment Notice	Altering Casing	Conversion to Injection		
	Other Temporary Abandonment	Dispose Water		
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)		
give subsurface locations and measured and true verti	Ill pertinent details, and give pertinent dates, including estimated date of starting cal depths for all markers and zones pertinent to this work.)*	g any proposed work. If well is directionally drilled,		
for the purpose of evaluatin	rary abandonment status for the above g further behind pipe potential. This ed on the attached sundry notice.			
		AREA T 8		
7.	APPROVED FOR 12 MO POPER ENDING 5/23/96 AUG	20 1995 % S		
14. I hereby certify that the log-going is true and correct	,	on. div. <del>st. 2</del>		
Signed Signed	Title Engineer	Date Aug. 3, 1995		
(This space for Federal os Ship office use) Approved by Conditions of approval, if any:	G LARA DETROLEUM ENGINEER	Date 8/8/95		

Form 3160-5 (June 1990)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT N.M. Oil Cons. Division Lease Designation and Serial No.

Budget Bureau No. 1004-0135

NN	424	1	0

OTICES AND REPORTS ON WELL S. 1st Street

SUNDRY NOTICES A  Do not use this form for proposals to dri  Use "APPLICATION FOR	AND REPORTS ON WALLSIA, NM 88210-283 If or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	4 6 If India: Allottee or Tribe Name
SUBMIT	7. If Unit or CA, Agreement Designation	
1. Type of Well Other Well Well Other	<b>DEC</b> 05 '96	8 Well Name and No.
2 Name of Operator	O. C. D. ARTESIA, OFFICE	Federal T #1 9. API Well No.
Mewbourne Oil Company  3 Address and Telephone No.		30-015-26404  10 Field and Pool, or Exploratory Area
P.O. Box 5270, Hobbs, NM 8824  4 Location of Well (Footage Sec., T., R. M. or Survey De		N. Illinois Camp Morrow 11. Count or Parish, State
660' FNL & 990' FEL Sec. 12-T18S-R27E		Eddy Co., NM
CHECK APPROPRIATE BOX(	s) TO INDICATE NATURE OF NOTICE, REPO	
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment Recompletion	Change of Plans  New Construction  Non-Routine Fracturing
Subsequent Report	Plugging Back Casing Repair	Water Shut-Off Conversion to Injection
Final Abandonment Notice	Altering Casing    X Other Temporary Abandonmen   Dispertinent details, and give pertinent dates, including estimated date of starting of depths for all markers and zones pertinent to this work.)*	Dispose Water (Note Repenrisults of multiple completion on Well Completion of Recompletion Repen and Log form)
Mewbourne Oil Company request above referenced well for the well passed the casing integrate needed.	cal depths for all markers and zones pertinent to this work.)*  cs an extension of Temporary Abandonme e purpose of evaluating further behind city test on 05/23/95 and indicates no	ent Status for the d pipe potential. This
14. I hereby certify they the stregging is true and correct Signed	Tide Engineer	
(This space for Federal or State office(see)	Tede	Date
Conditions of approval, if any:		

or representations as to any matter within its jurisdiction

Form 3160-5 (June 1990)

Approved by Render Only Conditions of approval, if any:

## **UNITED STATES** DEPARTMENT OF THE INTERIOR

INJUL WILL CORS. DIVISION 811 & st Street

Artesia, NM 88210 28 36 u No. 1004-0135 Expires: March 31, 1993

Date

	BUREAU OF	5. Lease Designation and Serial No.				
		NM-42410				
	SUNDRY NOTICES	6. If Indian, Allottee or Tribe Name				
Do not	use this form for proposals to dr	-				
	Use "APPLICATION FO					
	SUDMIT	7. If Unit or CA, Agreement Designation				
		IN TRIPLICATE				
	Oil Gas	8. Well Name and No.				
	Well Well Other of Operator	Federal T #1				
	oourne Oil Com[any	9. API Well No.				
	ss and Telephone No.		30-015-26404			
	ox 5270, Hobbs, NM 505-393-5905	10. Field and Pool, or Exploratory Area				
4. Location	on of Well (Footage, Sec., T., R., M., or Survey De	escription)	N. Illinois Camp Morrow			
660'	FNL & 990' FEL, Sec.12 T-18S R-27E	11. County or Parish, State				
	,	Eddy, NM				
12.	CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
	TYPE OF SUBMISSION	TYPE OF ACTION				
	Notice of Intent					
	TORSO STANOR	Recompletion	New Construction			
	X Subsequent Report	Plugging Back	Non-Routine Fracturing			
		Casing Repair	Water Shut-Off			
	Final Abandonment Notice Altering Casing		Conversion to Injection			
		X Other MIT.	Dispose Water			
13. Desc	cribe Proposed or Completed Operations (Clearly stionally drilled, give subsurface locations and mea	Other MIT.  state all pertinet details, and give pertinent dates, including estimated datasured and true vertical depths for all markders and zones pertinent to this	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)  e of starting any proposed work. If well is s work.)*			
direc The The	above caption well was successfully MI pressure chart is enclosed.  y question, please call.	state all pertinet details, and give pertinent dates, including estimated dat asured and true vertical depths for all markders and zones pertinent to this T'ed on 10/25/2000. (520 psi for 30 mins.)	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)  e of starting any proposed work. If well is s work.)*			
direc The The	above caption well was successfully MI pressure chart is enclosed.	state all pertinet details, and give pertinent dates, including estimated dat asured and true vertical depths for all markders and zones pertinent to this T'ed on 10/25/2000. (520 psi for 30 mins.)	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)  e of starting any proposed work. If well is s work.)*			
The The If an	above caption well was successfully MI pressure chart is enclosed. y question, please call.	state all pertinet details, and give pertinent dates, including estimated dat asured and true vertical depths for all markders and zones pertinent to this T'ed on 10/25/2000. (520 psi for 30 mins.)  ACCEPTED FOR NOV 1.5	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)  e of starting any proposed work. If well is s work.)*			

OCD-Antesia

Form 3160-5 (June 1990)

onditions of approval, if any:

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Expires: March 31, 1993

5. Lease Designation and Serial No. NM-42410 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name 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 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well Oil Well 8. Well Name and No. X Other Well 2. Name of Operator Federal T #1 Mewbourne Oil Comfany 9. API Well No. 3. Address and Telephone No. 30-015-26404 PO Box 5270, Hobbs, NM 505-393-5905 10. Field and Pool, or Exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) N. Illinois Camp Morrow 11. County or Parish, State 660' FNL & 990' FEL, Sec.12 T-18S R-27E Eddy, NM 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION X Notice of Intent Abandonment Change of Plans Recompletion **New Construction** Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection Other CIT & Extend T/ A Dispose Water (Note: Report results of multiple completion on Completion or Recompletion Report and Log to 13. Describe Proposed or Completed Operations (Clearly state all pertinet 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 markders and zones pertinent to this work.)\* The above caption well is currently under T/A status. Mewbourne Oil Company would like to extend this status. The well has a 5 1/2" CIBP above all perfs @ 6800". We are considering converting this well into a SWD. At this time, Mewbourne would like to a CIT (500 psi) & after passing, extend T/A status for an additional time. If any question, please call. = 10/25/20d 14. I hereby certify that the foregoing is true and correct Title N.M. Young District Manager Date 10/06/00 (This space for Federal or \$tate office use) (OMA SGO.) JOE &. LARA Approved by

## TED STATES

FORM APPROVED CISE

orm 3 160 June 1990	DEPARTMÉN	IT OF THE INTERIOR	OCO-HM	Budget Bureau No. 1004-0135 Expires: March 31, 1993			
	20.02.00	LAND MANAGEMENT	• •	5. Lease Designation and Serial No. NM-42410			
Do not	<b>SUNDRY NOTICES</b> use this form for proposals to dri Use "APPLICATION FO	AND REPORTS ON Will or to deepen or reent OR PERMIT-" for such	try to a different rese	6. If Indian, Allottee or Tribe Name			
	SUBMIT	7. If Unit or CA, Agreement Designation					
1. Type of	il Gas		· 🔭	8. Well Name and No.			
\\ 2. Name o	Vell Well Other	Federal T #1					
	ourne Oil Com[any	9. API Well No.					
	and Telephone No.		RECEIVED OCD - ARTESIA	30-015-26404			
	x 5270, Hobbs, NM 505-393-5905 n of Well (Footage, Sec., T., R., M., or Survey De	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow					
	NL & 990' FEL, Sec.12 T-18S R-27E		65212829303	11. County or Parish, State  Eddy, NM			
12.	CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA						
	TYPE OF SUBMISSION		TION				
	Notice of Intent	Abandoni	Change of Plans				
	Z risuse of mone	Recomple	New Construction				
	Subsequent Report	Plugging	Non-Routine Fracturing				
		Casing R	☐ Water Shut-Off				
	Final Abandonment Notice	Altering C	Conversion to Injection				
		Other	Dispose Water				
				(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			
40 Decari	the Proposed or Completed Operations (Clearly s	tate all pertinet details, and give or	ertinent dates, including estimat	ed date of starting any proposed work. If well is			

Describe Proposed or Completed Operations (Clearly state all pertinet details, and give pertinent dates, including estimated date of state directionally drilled, give subsurface locations and measured and true vertical depths for all markders and zones pertinent to this work.)\*

The above caption well is currently under T/A status. Mewbourne Oil Company would like to extend this status. The well has a 5 1/2" CIBP above all perfs @ 6800". We are considering converting this well into a SWD. At this time, Mewbourne would like to schelude

a CIT (500 psi) & after passing, extend T/A status for an additional time.

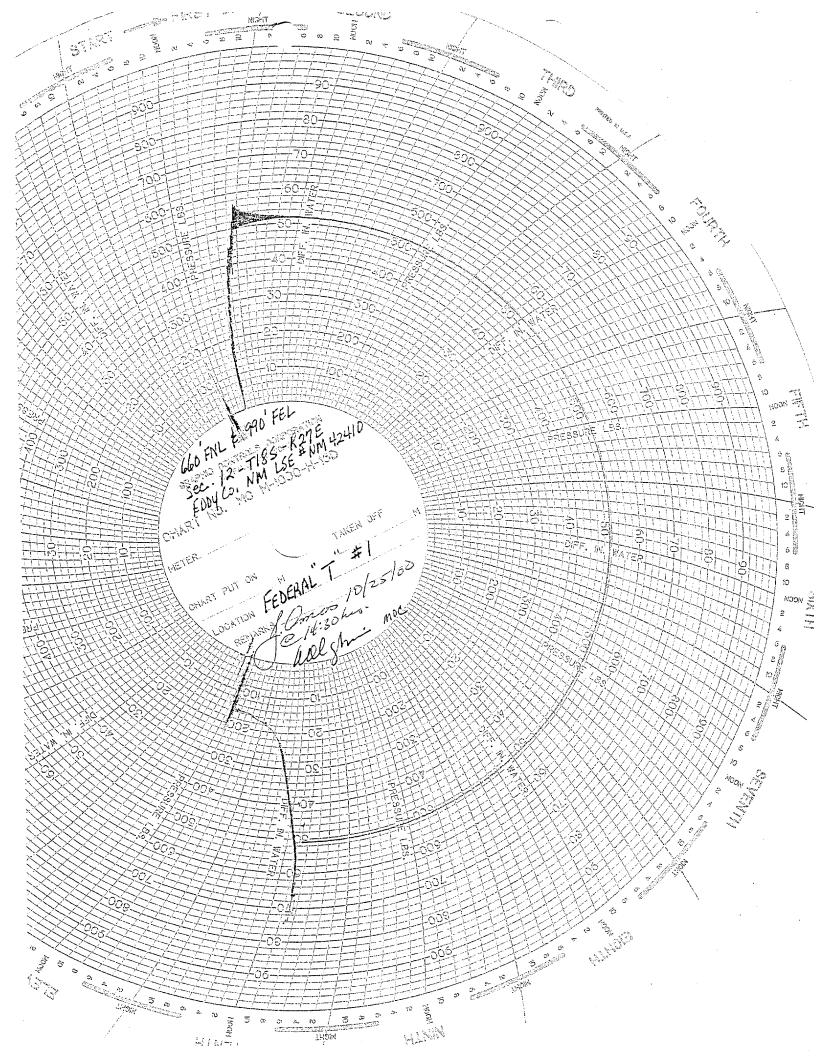
If any question, please call.

TA Approv  Ending  Note to Operator:  Please Submit a carly of Dressure test cha.  14. I hereby certify that the foregoing is true and correct	:	or 12 W 10/25/200 Rec'd a 01/1/9/	<u>/</u>	DUREAU OF LAND MGM TARLSBAU RESOURCE AR	RECEIVED
14. I hereby certify that the foregoing is true and correct				A.	Œ
Signed <u>\1. \1. \1. \1. \1. \1. \1. \1. \1. \1. </u>	Title	N.M. Young	District Manager	Date	10/06/00
(This space for Federal or State office use)		Patro	learn Zaglasan		4/1/200
Approved by Jan J. Jana. Conditions of approval, if any:	Title			Date	11/6/2000

THE SELVED

1000 NOV - 91P 2: 16

1000 NOV - 91P 2: 16

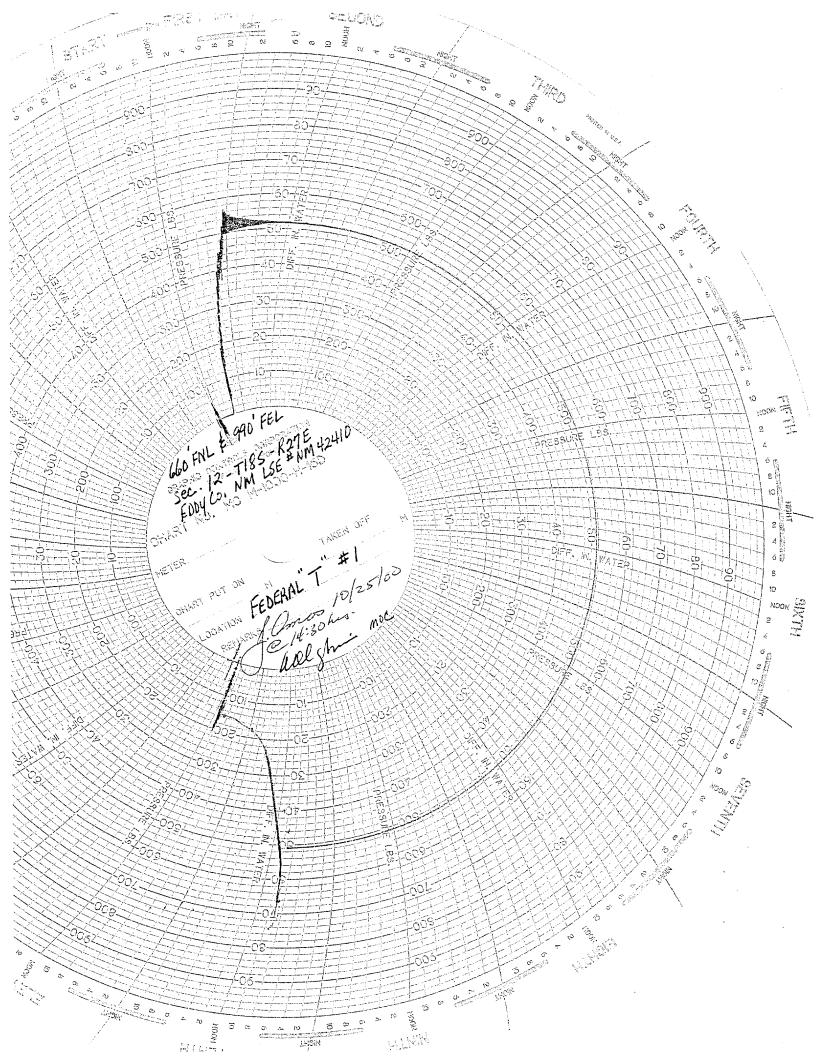


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100 NOV-91P 2: 16

100 NOV-91P 2: 16

100 NOV-91P 2: 16





## NEW MEXICO ENERGY, MINERALS NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor Joanna Prukop Cabinet Secretary

Lori Wrotenbery Director Oil Conservation Division

Field Inspection Program "Preserving the Integrity of Our Environment"

05-Dec-03

MEWBOURNE OIL CO PO BOX 7698 TYLER, TX 75711-0000

**NOTICE OF VIOLATION - Inspection** 

#### Dear Operator:

The following inspection(s) indicate that the well, equipment, location or operational status of the well(s) failed to meet standards of the New Mexico Oil Conservation Division as described in the detail section below. To comply with standards imposed by Rules and Regulations of the Division, corrective action must be taken immediately and the situation brought into compliance. The detail section indicates preliminary findings and/or probable nature of the violation. This determination is based on an inspection of your well or facility by an inspector employed by the Oil Conservation Division on the date(s) indicated.

Please notify the proper district office of the Division, in writing, of the date corrective actions are scheduled to be made so that arrangements can be made to reinspect the well and/or facility.

#### INSPECTION DETAIL SECTION

FEDERAL T 001

A-12-18S-27E

30-015-26404-00-00

Inspection Date

**Type Inspection** 

Violation? Inspector

\*Significant

Corrective

Inspection No.

12/05/2003 Routine/Periodic

Mike Bratcher

Yes

Non-Compliance? No

Action Due By: 3/9/2004

iMLB0333931134

Comments on Inspection:

TA status for this well expired 10/25/01. Last production reported was 7/93. Well is in violation of

Rule 201. (Idle Well)

In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By:" date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Divison 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,
Mili Beall

Artesia OCD District Office

Note: nformation in Detail Section comes directly from field inspector data entries - not all blanks will contain data.

\*Significant Non-Compliance events are reported directly to the EPA, Region VI, Dallas, Texas.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

Field Inspection Program
"Preserving the Integrity of Our Environment"

05-Dec-03

MEWBOURNE OIL CO PO BOX 7698 TYLER, TX 75711-0000

**NOTICE OF VIOLATION - Inspection** 

Dear Operator:

The following inspection(s) indicate that the well, equipment, location or operational status of the well(s) failed to meet standards of the New Mexico Oil Conservation Division as described in the detail section below. To comply with standards imposed by Rules and Regulations of the Division, corrective action must be taken immediately and the situation brought into compliance. The detail section indicates preliminary findings and/or probable nature of the violation. This determination is based on an inspection of your well or facility by an inspector employed by the Oil Conservation Division on the date(s) indicated.

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#### INSPECTION DETAIL SECTION

FEDERAL T 001

A-12-18S-27E

30-015-26404-00-00

Inspection Date

Type Inspection

Inspector

Violation?

\*Significant Non-Compliance? Corrective

Inspection No.

12/04/2003

Routine/Periodic

Mike Bratcher

Yes

No

Action Due By: 3/9/2004

iMLB0333840462

Comments on Inspection:

Well sign is illegible and is not standing. Violation Rule 103.

Oil Conservation Division \* 1301 W. Grand \* Artesia, New Mexico 88210 Phone: 505-748-1283 \* Fax: 505-748-9720 \* http://www.emnrd.state.nm.us

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

Sincerely,

Artesia OCD District Office

Note: nformation in Detail Section comes directly from field inspector data entries - not all blanks will contain data.

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# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery
Director
Oil Conservation Division

9 January 2004

MEWBOURNE OIL CO PO Box 7698 Tyler TX 75711

RE: Federal T 001

A-12-18s-27e

API 30-015-26404 Violation of Rule 103: Well sign violation

Dear Sirs:

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

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

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

#### **103 SIGN ON WELLS**

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

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

In the event that a satisfactory response is not received to this letter of direction by February 6,2004 further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of CIVIL PENALTIES for your violation of OCD rules.

Sincerely,

Mike Bratcher, Compliance Officer

Form 3160-5 (September 2001)

(Continued on next page)

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

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

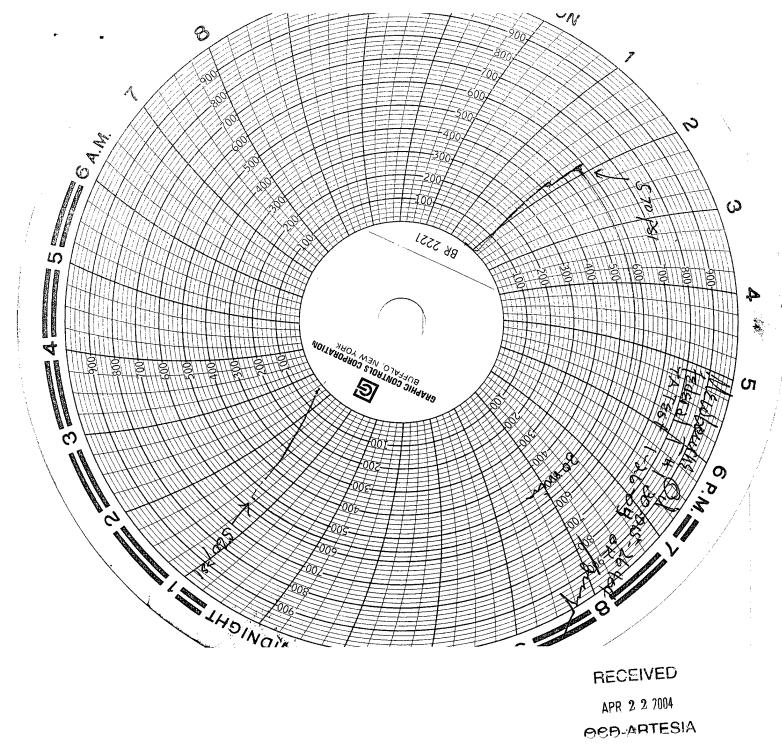
SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

abandoned well. Her Form 2460 2 (APD) for each proposals

5. Lease Serial No.NM-424106. If Indian, Allottee or Tribe Name

abandoned we	II. Use Form 3160-3 (APD)	for such proposal	S.		
<b>SUBMIT IN TRI</b>	PLICATE - Other instru	ctions on reverse	side	7. If Unit or	CA/Agreement, Name and/or No.
Oil Well Gas Well	8. Well Name and No.				
2. Name of Operator	Federal T#				
Mewbourne Oil Company 1474  Ba. Address	14	3b. Phone No. (include	g greg code)	9. API Well 30-015-264	
	240	505-393-5905	RECEIVED		Pool, or Exploratory Area
PO Box 5270 Hobbs, NM 882 Location of Well (Footage, Sec.,				i	Camp Morrow
660' FNL & 990' FEL, Sec 12-T	18S-R27E		APR 2 2 2004 Ded-Artesia	,	r Parish, State
12. CHECK API	PROPRIATE BOX(ES) TO	INDICATE NATU	RE OF NOTICE, RE		
TYPE OF SUBMISSION		TY	PE OF ACTION		
□ Notice of Intent □ Subsequent Report □ Final Abandonment Notice	Acidize  Alter Casing  Casing Repair  Change Plans  Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (Start/ Reclamation Recomplete Temporarily Aba Water Disposal	·	Water Shut-Off  Well Integrity  Other MIT Test
The above caption well was suc The pressure chart is enclosed. Requesting extension of tempore 5 1/2" CIBP set @ 6800'. No ty		MONTH PERIOD 5 S			
	Accepted for	record - NMOCD			,
14. 1 hereby certify that the foregoin Name (PrintedlTyped)	g is true and correct				
NM Young		Title H	obbs District Manager	,	
Signature A. W.		Date 0	1/27/04		
	THIS SPACE F	OR FEDERAL OR S	TATE OFFICE USE		
Approved by (Signature)	/s/Joe G. 1	Lara (	lame rinted/Typed\$/ Joe G.	Lara	Title Pet, Engr.
Conditions of approval, if any, are certify that the applicant holds leg which would entitle the applicant to	al or equitable title to those right	e does not warrant or is in the subject lease	CARLSBAD I	FIELD C	OFFICE: 4/20104
Title 18 U.S.C. Section 1001 and Ti States any false, fictitious or fraudule	tle 43 U.S.C. Section 1212, make ent statements or representations as	it a crime for any person s to any matter within its	knowingly and willfully urisdiction.	to make to any	department or agency of the United



RECEIVED APR 2 2 2004 OCD-ARTESIA

C104AReport

Page 1 of 1

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

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

Form C-145 Permit 72521

#### Change of Operator

Previous Operat	tor Information	New Operator I	nformation
		Effective Date:	4/1/2008
OGRID:	14744	OGRID:	6137
Name:	MEWBOURNE OIL CO	Name:	DEVON ENERGY PRODUCTION COMPANY, LP
Address:	PO BOX 5270	Address:	20 N Broadway
Address:		Address:	
City, State, Zip:	HOBBS, NM 88241	City, State, Zip:	Oklahoma City , OK 73102

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

Previous C	Operator	New Oper	ator /
Signature: Printed Name:	Most Method	Signature: Printed Name:	Gregg Jacob Control
Title:	Vice-President Operations	Title:	Western Operations Manager
Date:	4/4/08 Phone: (903) 561-2900	Date:	4/07/08 Phone:(405) 552-4591

**NMOCD Approval** 

Electronic Signature: Carmen Reno, District 2

Date: April 07, 2008

Form 3160-5 (August 1999)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ADTESIA

FORM APROVED -OMB NO-1004-0135 SIRES:-NOVEMBER 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS OCD-A	5. Lease Serial No.
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals	NM-42410 6. If Indian, Allottee or Tribe Name
abandoned wen. Ose i orm 5100-5 (Ar D) for such proposals	O. If Indian, Another of Tribe Name
SUBMIT IN TRIPLICATE	
	7. Unit or CA Agreement Name and No.
1a Type of Well Oil Well Gas Well Other	8
	o Well Name and No.
2. Name of Operator OCDARIE	Federal T 1
DEVON ENERGY PRODUCTION COMPANY, LP	9. API Well No
3. Address and Telephone No.	30-015-26404
20 North Broadway, Oklahoma City, OK 73102 405-552-8198	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with Federal requirements)*	Wolfcamp
660' FNL & 990' FEL	12. County or Parish 13. State
Section 12 T18S R27E, Unit A	Eddy <b>N</b> M

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OS SUBMISSION I TYPE OF ACTION											
7.1 E GG GGBIMIGGIGIT				_							
✓ Notice of Intent	Acidıze	Deepen	Production (Start/Resume)								
[4] Notice of Intent	Alter Casing	☐ Fracture Treat	Reclamation	☐ Well Integrity							
Subsequent Report	Casing Repair	New Construction	Recomplete	Other							
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Abandon								
Thial Abandonment Notice	✓ Convert to Injection	Plug Back	☐ Water Disposal								
B Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal											
deepen directionally or recomplete horizontally, give si	ubsurface location and measured and tru	e vertical depths of all pertinent ma	arkers and zones. Attach the Bond under which	th the work will be performed or provide							

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

the Bond No on file with BLM/BIA Required subsequent reports shall be filed within 30 days following completion of the involved operations If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has

- 1. RIH and drill out CIBP's at 6,800', 7,078', & 7,265'.
- 2. Perform injection step rate test in the Lower Wolfcamp.
- 3. Drill out CIBP at 7,560' and cement retainers at 7,745', 7,780', & 7,820', & 8,000'.
- 4. Perforate / Reperforate Cisco with casing gun, 0.42" EHD, 2 spf from 7,893'-7,899'; 7,902'-7,907'; 7,910'-7,916'; 7,919'-7,927'; 7,932'-7,959'; 7,965'-7,967'; 7,971'-7,972'; 7,976'-7,978'; 8,034'-8,042'; 8,055'-8,060'; 8160'-8164'.
- 5. Frac as recommended.
- 6. RIH with RBP and set at  $\pm 7.865$ .
- 7. Perforate / Reperforate Cisco with casing gun, 0.42" EHD, 2 spf at 7,758'-7,768'; 7,790'-7,798'; 7,800'-7818'; 7,832'-7,840'.
- 8. Frac as per recommended.
- 9. POOH with RBP and RIH with tubing and packer. Set packer at 7,600'. Perform injection step rate test in Cisco.
- 10. Tie in disposal line routed from West Red Lake SWD Battery and establish injection.

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

Signed Signed	Name	Norvella Adams Sr. Staff Engineering Technician	Date	APPR®VED
(This space for Federal or State Of Approved by	fice use)		Date	JUL 1 6 2008
Conditions of approval, if any:	HT ACIATO	anument of agency of the Officer States any tase.	. v	
its jurisdiction	Tot any person knowingry and willingry to make any depa	artifier to agency of the Office States arry raise,	· · · · ·	SUPERVISOR FRO
•		15 / 10		

Submit 3 Copies To Appropriate District	State of New Mexico		Form C-103				
Office District I ' Er	nergy, Minerals and Natural Re	sources	May 27, 2004				
1625 N. French Dr , Hobbs, NM 88240		WELL A	WELL API NO.				
District II 1301 W Grand Ave., Artesia, NM 88210	IL CONSERVATION DIV	ISION	30-015-26404				
District III	1220 South St. Francis D	5. Indica	ate Type of Lease				
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	31	FATE FEE S				
<u>District IV</u> 1220 S St Francis Dr , Santa Fe, NM	Santa I C, NWI 87303	6. State	Oil & Gas Lease No.				
87505							
		K TO A Federal	Name or Unit Agreement Name T				
1. Type of Well: Oil Well Gas We	ell Dother Convert to SWD	8. Well?	Number 1				
2. Name of Operator  DEVON ENERGY PROD	DUCTION COMPANY, LP	9. OGRI	D Number 6137				
3. Address of Operator	3 3 3 1 1 3 1 4 3 1 1 1 1 1 1 1 1 1 1 1	10. Pool	name or Wildcat				
20 North Broadway, Oklahoma City, Ok	73102 405-552-8198		L. Wolfcamp and Cisco 96136				
4. Well Location			1912				
1	fort form the MODELL II	d 0002	from the FACT line				
	feet from the _NORTHlin						
Section 12	Township 18S Range	27E NMI	PM County Eddy				
	evation (Show whether DR, RKB,	RT, GR, etc.)					
Pit or Below-grade Tank Application or Closure	KB; 3697' GL						
	<del></del>	II Distance Communication					
Pit typeDepth to Groundwater							
Pit Liner Thickness: mil Belo	w-Grade Tank: Volume	bbls; Construction M	laterial				
12. Check Appropr	riate Box to Indicate Nature	of Notice, Report or	r Other Data				
NOTICE OF INTENT			NT REPORT OF:				
·	<del></del>	EDIAL WORK	☐ ALTERING CASING ☐				
TEMPORARILY ABANDON 🔲 CHAN	IGE PLANS 🔲 🗎 🗎	MENCE DRILLING OPI	NS. PANDA				
PULL OR ALTER CASING   MULT	IPLE COMPL 🔲 CAS	NG/CEMENT JOB	T JOB 🔲				
OTUED D	OTIL	ED 57 0 44- 000	Admin Outer OWD 4405				
OTHER:   13. Describe proposed or completed operations of the proposed or completed operations.			D, Admin. Order SWD-1135				
of starting any proposed work). SE	F RULF 1103 For Multiple Com	inletions: Attach wellbo	ore diagram of proposed completion				
or recompletion.	E ROLL 1103. 1 of Multiple Con	pictions. Attach wente	ore diagram of proposed completion				
8/04/08 RU unit. ND wellhead and NU BO	P. TIH with bit and drill collars.						
8/05/08 Drill CIBP at 6800' and 7078'.							
8/06/08 Drilled through cement at 7525', CI	BP at 7300' and cement at 7560'	and CIBP at 7595'.					
8/07/08 Ran step rate test; pumped 50 bbls a			si, pumped 50 bbls at 2 bbls/min –				
75# psi, pumped 50 bbls at 3 bbls/min - 170							
8/08/08 Trucked in and established injection		<u>at 170 psi.</u>					
8/11/08 Drilled cement retainers at 7745', an							
8/12/08 Drilled cement retainer at 7820' and			5.040 1.150/1101 1.100.070 1				
8/13/08 Perforate Cisco from 7893' – 8060'		ker at 7688'. Frac with	5,040 gals 15% HC1+ 120,372 gals				
Spectra Star 2500 + 167,552 # 20/40 White s 8/14/08 TIH with retrievable tool and latch		TOOU with most on and	tuking DII wireling and norferete				
Cisco from 7758'-7840'; 228 total holes.	onto packer. Release packer and	100H with packer and	rtubing. RO whethie and perforate				
8/15/08 TIH with packer and set at 7582'. N	III frac valve						
8/16/08 Frac 7758'-8060' with 4500 gals 15		Spectra 2500 + 106 750	) # 20/40 100% White sand RD				
8/18/08 Release packer. TOOH with packer			25. 10 10070 Willio Sund. RD.				
8/20/08 TIH with bailer and bailed sand. Ba		ubing. ND BOP and NI	U flange. Waiting on tubing.				
9/15/08 TIH with packer and tubing. Set pa							
Mike Bratcher with OCD. TOOH with tubin							
I hereby certify that the information above is							
grade tank has been/will be constructed or closed acc	cording to NMOCD guidelines [], a gen	eral permit 📙 or an (attach	ned) alternative OCD-approved plan				
SIGNATURE	TITLE Sr. S	taff Engineering Tech	nician_ DATE_ 9/17/08				
Type or print name Norvella Adams	E-mail address: norve		Telephone No. 405-552-8198				
For State Use Only	2 man address. Horve		respiration to our dire				
APPROVED BY:	TIT Accepted	for record	DATE				
Conditions of Approval (if any):	Ac <del>cepied</del> NM(	OCD					

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DEVON ENE	ERGY PRODUCTION COMPANY LP
Vell Name: FEDERAL T #1	Field: NORTH ILLINOIS CAMP MORROW
ocation: 660' FNL & 990' FEL; SEC 12-T18S-R276	
Elevation: 3634' KB; 3618' GL	Spud Date: 6/28/90   Compl Date: 9/13/90
API#: 30-015-26404   Prepared by: Norvella Adams	ns Date: 9/17/08 Rev:
Current Schematic L. Wolfcamp and Cisco SWD  17-1/2" Hole 13-3/8", 68#, LTC, @ 472' Cmt'd w/450 Sx. Circ to surface	Formation Tops  Morrow 9,600-10,250' Atoka 9.230'- 9,700' Upper Wolfcamp 6,400' - 7,200' Abo 5,600' - 6,200' Yeso 3,300' 0 3,900' San Andres 2,000' - 2,800' Queen 1,450' - 1,650'
12-1/4" Hole <u>8-5/8", J55, 32#, STC, @ 2,589'</u> Cmt'd w/900 Sx. Circ to surface	3-1/2", 9.3 #, N80, Injection tubing @ 6789'
<u>WOLFCAMP</u> (8/21/93) 6,868' - 7,038' <u>WOLFCAMP</u> (8/18/93) 7,092' - 7,097'; 7,120' - 7,146'	ACCESS ST A CONTROL OF THE STATE OF THE
<u>WOLFCAMP</u> (8/16/93) 7,330' - 7,340'; 7,350' - 7,360' <u>SWD Perforations:</u> <u>CISCO</u> (8/1/93) 7,685' - 7,695'	
<u>CISCO</u> (7/30/93) 7,760' - 7,768'	Frac 7758*-7840' with 4500 gals 15% Spearhead acid and 119,255 gals Spectra Star 2500 + 106,750 # 100% 20/40 White sand.
<u>CISCO</u> (7/28/93) <b>7,790' - 7,798'</b> <u>CISCO</u> (7/25/93)	Frac 7893'-8060' with 5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% 20/40 White sand.
7,932' - 7,940' <u>CISCO</u> (7/22/93)  8,034' - 8,042' 8,055' - 8,060'	35' cement. 9,005' PBD CIBP @ 9,040' (7/21/93)
4" Liner top @ 9,055' 7-7/8" Hole 5-1/2", N80, 17#, LTC, @ 9,473'	
Cmt'd w/430 Sx	
<u>MORROW</u> (9/14/90) 10,008' - 10,014' 10,038' - 10,054'	CIBP @ 9,950' (7/19/93)

- 1

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Bill Richardson

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary OCD-ARTESIA OCT 97 2998

Mark Fesmire
Division Director
Oil Conservation Division



Administrative Order SWD-1135 July 16, 2008

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

## ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

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

#### THE DIVISION DIRECTOR FINDS THAT:

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

#### IT IS THEREFORE ORDERED THAT:

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

#### IT IS FURTHER ORDERED THAT:



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

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

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

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

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

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

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

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

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

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

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

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

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

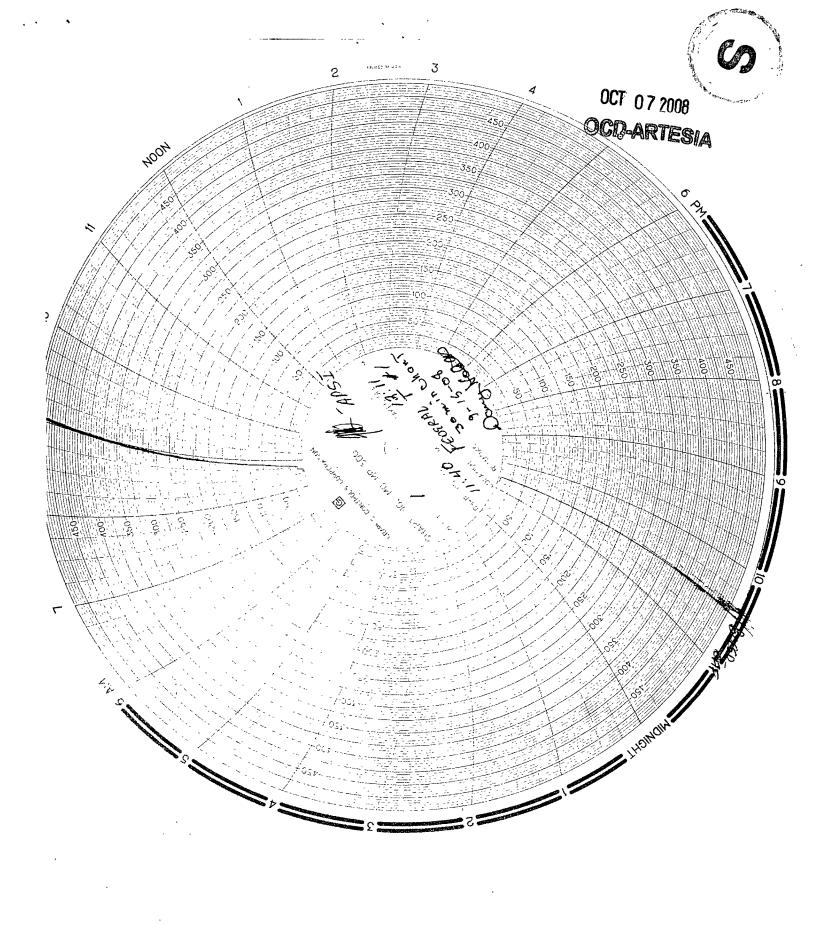
MÁRK E. FESMIRE, P.E.

Director

MEF/wvjj

cc: Oil Conservation Division - Artesia

Bureau of Land Management - Carlsbad



# SEP 19 2008

Submit to Appropriate District Office State Lease - 6 copies	ce	Ct	ata of Nia:	Mavia	_		act	LAR	TES	A Rev	F	orm C-105	,	
Fee Lease - 5 copies District 1			ate of Nev ergy, Min			al Reso		- 1 48 V			isea June	10, 2003		
1625 N French Dr , Hobbs, NM 8	8240	<b>E</b> 11	icigy, wiiti	iciais all	u Natuli	ai 1\ <b>C</b> \$(	ui Ce3		Well API No. 30-015-26404					
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District III 1000 Rio Brazos Rd, Aztec, NM 8			20 South						STATE FEE					
District IV	strict IV Santa Fe, NM 87505								State Oil	& gas Leas	e No			
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Address of Operator									9 Pooln	ame or Wil			961	
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IGNATURE 2			Name	Nor	vella Ada	ms	Title	Sr Staf	f Engineer	ing Technic	an D	ATE 9/17	7/2008	

E-mail Address.

norvella.adams@dvn.com

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

INDICATE FORMATIONS TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE rn New Mexico Northwestern New Mexico T. Penn "B" T. Canyon Yates T Ojo Alamo T. Kirtland-Fruitland Queen 1218 T Strawn T. Penn "C" T Penn "D" Grayburg 1572 T Atoka T. Pictured Cliffs San Andres 2072 T Miss T Cliff House T. Leadville Tubb 4824 T Devonian T Menefee T. Madison Abo 6016 T. Point Lookout T Flhert Silunan Wolfcamp 7682 T Montova T. McCracken T Mancos 8912 T Ignacio Otzte Cisco T. Simpson T Gallup Strawn 9513 T McKee Base Greenhorn Granite 9628 T. Ellenburger Atoka T. Dakota Morrow 9828 T Gr Wash T. Morrison Morrow Clastics T Delaware Sand 9965 T Todilto Lower Morrow 10104 T. Bone Springs T Entrada Barnett T Wingate T. Wolfcamp T Chinie T Penn T Permian T Cisco (Bough C) T. Penn "A" OIL OR GAS **SANDS OR ZONES** No 2, from .... **IMPORTANT WATER SANDS** Include data on rate of water inflow and elevation to which water rose in hole ..... . . ....... . ...to .. .. ... .... ..... ..... .... ..... No 2, from . to.... feet... ... . . . . . . . . . . LITHOLOGY RECORD (Attach additional sheet if necessary) Thickness in Thicknes In Lithology From Feet Lithology From Τo Feet То

Form 3160-4 (February 2005)

S	g.

#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCT 062008 OCD-ARTERIA

FORM APROVED

SOMB NO. 1004-0137

EXPIRES. March 31, 2007

ease Serial No

	WELL COMPLETION OR RECOMPLETION REPORT AND LOG									] . [	NM-42410					
1a. Type of		Oil Well	Gas Well Dry Other SWD- Order 1135								6 If	Indian,	Allottee	or Tribe Na	me	
	Completion L	Other									7 Unit or CA Agreement Name and No					
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3 Address						3a Phone No			ide)		Federal T 1					
Oklahoma City, OK 73102-8260										1	9 API Well No. 30-015-26404 <b>0(1)5.2</b>					
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29. Disposit	tion of Gas (Solo	d, used for fu	er, vented, etc.)					,			
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Electri	cal/Mechanical I	_ogs (1 full s	et req'd)		Geologic Re	port [_]	DS	T Report	Directional Surve	1	
Quad	In Notice for all	noina and co	ment verification	, 🗀	Core Analys	ıs 🗸	Oth	ner \Mellbor	e Schematic		
34. I hereby	certify that the f	oregoing and ce	attached inform	nation is con	nplete and co				ilable records (see	attached i	nstructions)*
	istay and are t								1.2 . 2 20. 40 (000		
	_										
Name (Piea	ise print)		Norvella	Adams		Title		s	r. Staff Engineering	Technicia Technicia	<u> </u>
Signatura	<i>)</i> \				$\Rightarrow$	Date		9/17/2	กกล		
Signature	Section 100 and	Title 49-11-	Section 1212 W	Tāke it a crime	for any nerso					ency of the	United States any false,
10 0.0.0			12 12, 11		, pc. sc		, , )	io mano to	a.s., o. a.g		

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 (February 2005)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR

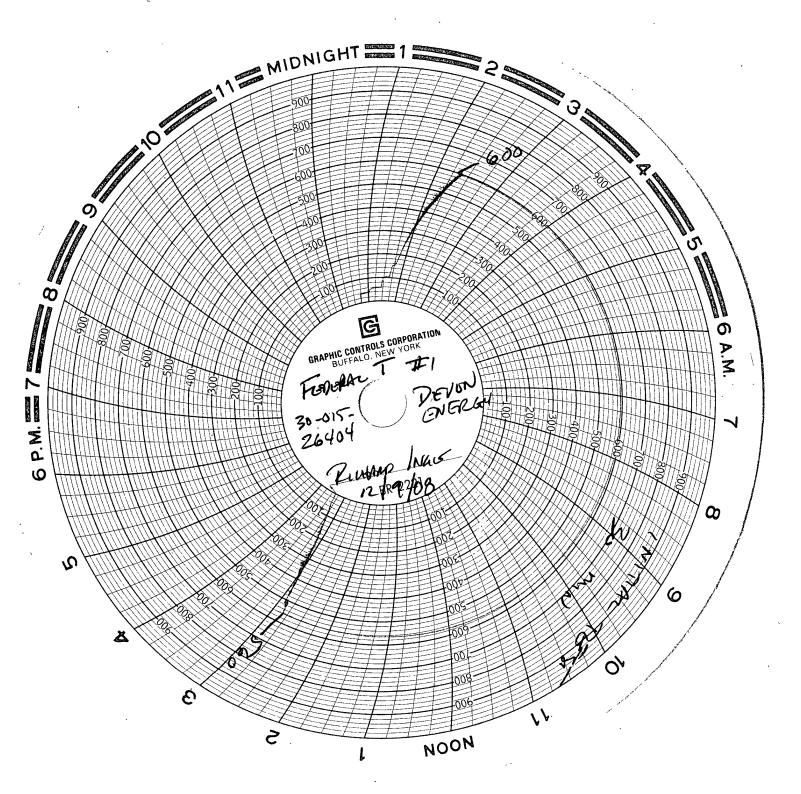
FORM APROVED OMB NO. 1004-0137

EXPIRES: March 31, 2007 **BUREAU OF LAND MANAGEMENT** SUNDRY NOTICES AND REPORTS ON WELLS 5 Lease Serial No Do not use this form for proposals to drill or to re-enter an NM-42410 abandoned well. Use Form 3160-3 (APD) for such proposals 6. If Indian, Allottee or Tribe Name SUBMIT IN TRIPLICATE - Other instructions on page 2 7. Unit or CA Agreement Name and No. Type of Well Oil Well Gas Well ✓ Other SWD conversion. Admin Order SWD-1135 8 Well Name and No 2. Name of Operator Federal T 1 **DEVON ENERGY PRODUCTION COMPANY, LP** 9 API Well No 3a, Address 3b. Phone No. (include area code) 30-015-26404 20 North Broadway, Oklahoma City, OK 73102 10. Field and Pool, or Exploratory Area 405-552-8198 Location of Well (Footage, Sec., T., R., M, or Survey Description) L.Wolfcamp and Cisco 660 FNL 990 FEL A 12 18S 27E 11. County or Parish, State Eddy NM 12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OS SUBMISSION TYPE OF ACTION Deepen Production (Start/Resume) Water Shut-Off J Acidize ☐ Notice of Intent Well Integrity Alter Casing Fracture Treat Reclamation ✓ Subsequent Report **New Construction** Recomplete Other J Casıng Repair Change Plans Plug and Abandon Temporarily Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepen directionally or recomplete horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA Required subsequent reports shall be filed within 30 days following completion of the involved operations if the operation results in a multiple completion or recompletion in a new nterval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection) Converted to SWD. Administrative Order SWD-1135 8/04/08 RU unit. ND wellhead and NU BOP. TIH with bit and drill collars. 8/05/08 Drill CIBP at 6800' and 7078'. 8/06/08 Drilled through cement at 7525', CIBP at 7300' and cement at 7560' and CIBP at 7595'. 8/07/08 Ran step rate test; pumped 50 bbls at ½ bbl/min ~ 0# psi, pumped 50 bbls at 1 bbl/min -20# psi, pumped 50 bbls at 2 bbls/min - 75# psi, pumped 50 bbls at 3 bbls/min - 170# psi, pumped 50 bbls at 4 bbls/min - 250 psi. 8/08/08 Trucked in and established injection in the Wolfcamp at 150 BWPD at 170 psi. 8/11/08 Drilled cement retainers at 7745', and 7780'. 8/12/08 Drilled cement retainer at 7820' and 8000'. Circulate hole and TOH with tubing and bit. 8/13/08 Perforate Cisco from 7893' - 8060', total 140 holes. TIH and set packer at 7688'. Frac with 5,040 gals 15% HCl + 120,372 gals Spectra Star 2500 + 167,552 # 20/40 White sand. 8/14/08 TIH with retrievable tool and latch onto packer. Release packer and TOOH with packer and tubing. RU wireline and perforate Cisco from 7758'-7840'; 228 total holes 8/15/08 TIH with packer and set at 7582'. NU frac valve. 8/16/08 Frac 7758'-8060' with 4500 gals 15% Spearhead acid + 119,255 gals Spectra 2500 + 106,750 # 20/40 100% White sand. RD. 8/18/08 Release packer. TOOH with packer and tubing 8/20/08 TIH with bailer and bailed sand. Bailed sand to 8460'. TOOH with tubing. ND BOP and NU flange. Waiting on tubing. 9/15/08 TIH with packer and tubing. Set packer at 6789'. ND BOP and NU tree Ran MIT test to 500 # for 30 minutes - ok, notified Mike Bratcher with OCD TOOH with tubing. RIH with 3 1/2" IPC tubing and set at 6789'. Injection line installation in progress. 14. I hereby certify that the foregoing is true and correct Title Sr. Staff Engineering Technician Name: Norvella Adams Date RECORNS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by Title SEP 2 9 2008 Accepted for record Conditions of approval, if any are attached. Approval of this

Office

notice does not warrant or cortify that the applicant holds legal or equitable title to those highly in the subject lease which would entitle the applicant to continue to the applicant to continue to the applicant to continue to the applicant to continue to the applicant to continue to the applicant to continue to the applicant to continue to the applicant to continue to the applicant to the ap

DEVON ENE	ERGY PRODUCTION COMPANY LP
Vell Name: FEDERAL T #1	Field: NORTH ILLINOIS CAMP MORROW
ocation: 660' FNL & 990' FEL; SEC 12-T18S-R278	
Elevation: 3634' KB; 3618' GL	Spud Date: 6/28/90   Compl Date: 9/13/90
API#: 30-015-26404   Prepared by: Norvella Adams	ns Date: 9/17/08 Rev:
Current Schematic L. Wolfcamp and Cisco SWD	Formation Tops  Morrow 9,600-10,250' Atoka 9.230'- 9,700' Upper Wolfcamp 6,400' - 7,200' Abo 5,600' - 6,200'
17-1/2" Hole 13-3/8", 68#, LTC, @ 472' Cmt'd w/450 Sx. Circ to surface	Yeso 3,300' 0 3,900' San Andres 2,000' - 2,800' Queen 1,450' - 1,650'
8-5/8", J55, 32#, STC, @ 2,589' Cmt'd w/900 Sx. Circ to surface	3-1/2", 9.3 #, N80, Injection tubing @ 6789'
<u>WOLFCAMP</u> (8/21/93) 6,868' - 7,038'	5-1/2" IPC Packer @ 6,789'
<u>WOLFCAMP</u> (8/18/93) 7,092' - 7,097'; 7,120' - 7,146' <u>WOLFCAMP</u> (8/16/93) 7,330' - 7,340'; 7,350' - 7,360'	
SWD Perforations: CISCO (8/1/93) 7,685' - 7,695'	Frac 7758'-7840' with 4500 gals 15% Spearhead acid and
<u>CISCO</u> (7/30/93) 7,760' - 7,768'	119,255 gals Spectra Star 2500 + 106,750 # 100% 20/40 White sand.
<u>CISCO</u> (7/28/93) 7,790' - 7,798' <u>CISCO</u> (7/25/93)	Frac 7893'-8060' with 5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% 20/40 White sand.
7,932'- 7,940' <u>CISCO</u> (7/22/93)  8,034'- 8,042'  8,055'- 8,060'	35' cement. 9,005' PBD
4" Liner top @ 9,055' 7-7/8" Hole	CIBP @ 9,040' (7/21/93)
5-1/2", N80, 17#, LTC, @ 9,473' Cmt'd w/430 Sx <u>MORROW</u> (9/14/90) 10,008' - 10,014' 10,038' - 10,054'	CIBP @ 9,950' (7/19/93)
4-3/4" Hole <b>4" 10.46#, L80 Liner @ 9,055' - 10,141'</b> Cmt'd w/80 Sx	10,100' PBD 10,141' TD



<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

State of New Mexico Energy, Minerals and Natural Resources Form C-145 Permit 124456

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

## **Change of Operator**

	ntor Information	Effective Date:	Dec. di the date of
		Effective Date:	Effective on the date of approval by the OCD
OGRID:	6137	_OGRID:	277558
Name:	DEVON ENERGY PRODUCTION COMPANY, LP	Name:	LIME ROCK RESOURCES II-A, L.P.
Address:	20 N Broadway	_Address:	1111 Bagby Street
		_	Suite 4600
City, State, Zip:	Oklahoma City, OK 73102	_City, State, Zip:	Houston, TX 77002
visio 6.000 Soldanes Sulfreni	\ / /	N O	
-	ator	New Ope	a 1. 10:11
Previous Opera	ator	Signature	a 1. 10:11
Signature:	d S. Frank	· · · · · · · · · · · · · · · · · · ·	a 1. 10:11
Signature: Printed Name: Davi		Signature Printed	a 1. 10:11
Signature:  Printed Name:  David	d S. Frank	Signature Printed Name: Title:	a 1. 10:11
Signature:  Printed Name:  David	d S. Frank d S. Frank – Attorney-in-Fact	Signature Printed Name: Title:	Chief Operating Officer
Signature:  Printed Name:  David	d S. Frank  d S. Frank – Attorney-in-Fact  9/2010 Phone: (405)-552-78	Signature Printed Name: Title:	Chief Operating Officer
Signature:  Printed Name:  David  Title:  David  Date:  12/09	d S. Frank  d S. Frank – Attorney-in-Fact  9/2010 Phone: (405)-552-78	Signature Printed Name: Title: B81 Date:	Chief Operating Officer  12/17/10 Phone: 713 292 9.
Signature:  Printed Name:  David  Title:  David  Date:  12/09	d S. Frank  d S. Frank – Attorney-in-Fact  9/2010 Phone: (405)-552-78	Signature Printed Name: Title: B81 Date:	Chief Operating Officer

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

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

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

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

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

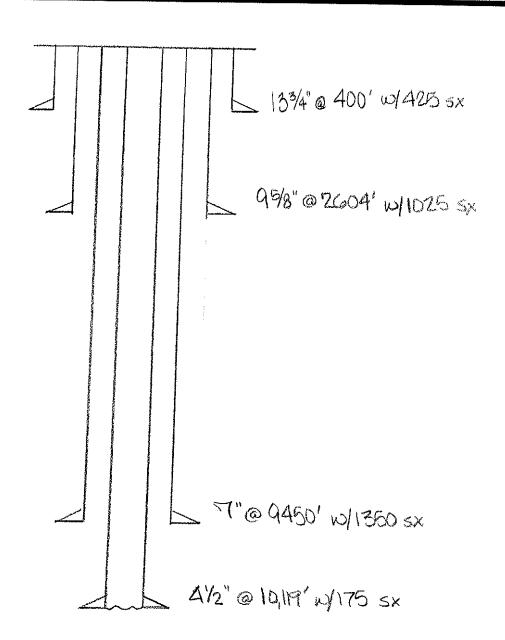
- 19.15.26.11 NMAC. I understand that when there is a continuous one-year period of non-injection into all wells in an injection or storage project or into a saltwater disposal well or special purpose injection well, authority for that injection automatically terminates. See 19.15.26.12 NMAC. I understand that if I transfer operation of an injection well to another operator, the OCD must approve the transfer of authority to inject, and the OCD may require me to demonstrate the well's mechanical integrity prior to approving that transfer. See 19.15.26.15 NMAC.
- 9. I am responsible for providing the OCD with my current address of record and emergency contact information, and I am responsible for updating that information when it changes. See 19.15.9.8.C NMAC. I understand that I can update that information on the OCD's website under "Electronic Permitting."
- 10. If I transfer well operations to another operator, the OCD must approve the change before the new operator can begin operations. See 19.15.9.9.B NMAC. I remain responsible for the wells and related facilities and all related regulatory filings until the OCD approves the operator change. I understand that the transfer will not relieve me of responsibility or liability for any act or omission which occurred while I operated the wells and related facilities.



NAVAJO REFINING COMPANY, L.L.C. Map ID No.  $Q(\rho)$  Artificial Penetration Review

OPERATOR Navajo Refining Co.	STATUS Active
LEASE WDW	LOCATION Sec. 6-T18s-R27E
WELL NUMBER 3	MUD FILLED BOREHOLE
DRILLED NA	TOP INJECTION ZONE -3694'
PLUGGED N/A	API NO. 30-015-26575

#### REMARKS:



MAP ID NO. 96

NAVAJO REFINING COMPANY WASTE DISPOSAL WELL NO. 3

API NO. 30-015-26575

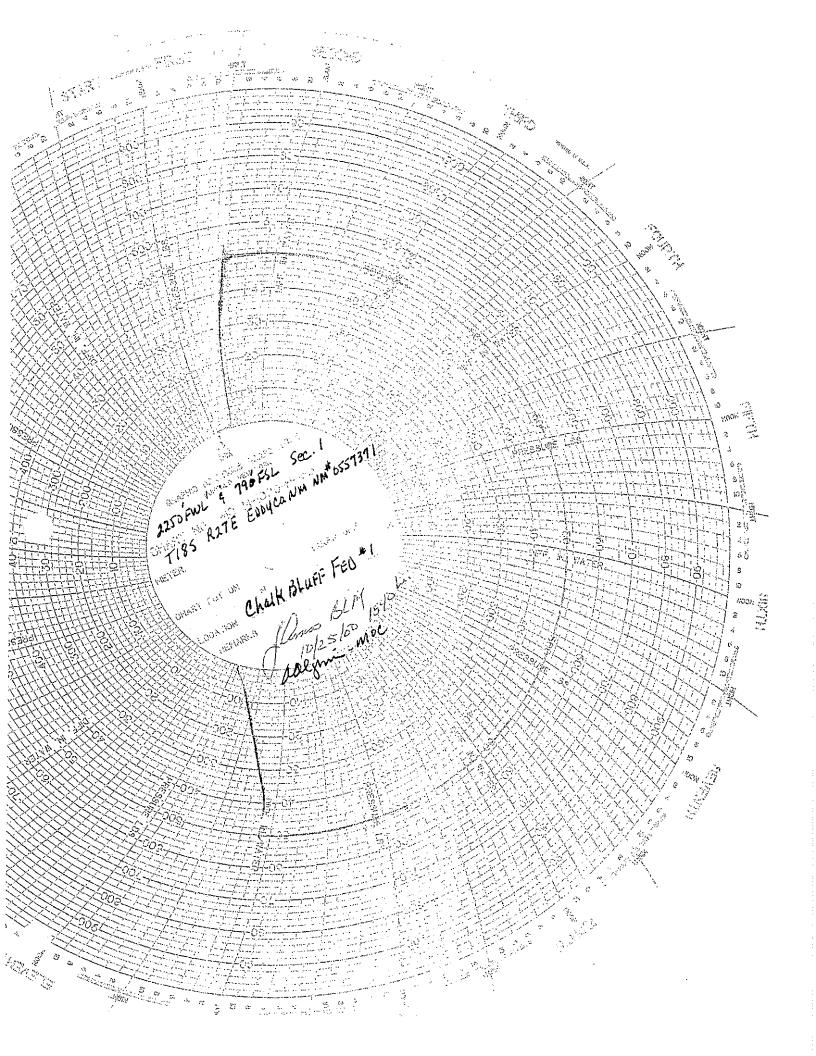
Form 3160-5 (June 1990)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

N.M. C.. Cons. Division
FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Artesia, NM 88210-2834tion and Serial No.

SUMPRY NOTICE	CES AND DEPODES ON MELLO	NM-0557371
Do not use this form for proposals to	CES AND REPORTS ON WELLS o drill or to deepen or reentry to a different re N FOR PERMIT-" for such proposals	6. If Indian, Allottee or Tribe Name
SUBI	7. If Unit or CA, Agreement Designation	
I. Type of Well		
Oil Gas Well Well X Other		8. Well Name and No.
Name of Operator		Chalk Bluff Federal Comm #1
Mewbourne Oil Com(any Address and Telephone No.		9, API Well No.
PO Box 5270, Hobbs, NM 505-393-590:	5	30-015-26575
Location of Well (Footage, Sec., T., R., M., or Surve		10. Field and Pool, or Exploratory Area
790' FSL & 2250' FWL, Sec.1 T-18S R-27E		N. Illinois Camp Morrow  11. County or Parish, State
	Eddy, NM	
CHECK APPROPRIATE BO	X(s) TO INDICATE NATURE OF NOTICE, REF	
TYPE OF SUBMISSION	TYPE OF A	ACTION
Notice of Intent	Abandonment	Change of Plans
e	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
F-3	Casing Repair	☐ Water Shut-Off
	Altering Casing	Conversion to Injection
Final Abandonment Notice		<del></del>
E_J Pinal Abandonment Notice	X Other MIT	Dispose Water
Describe Proposed or Completed Operations (Clear directionally drilled, give subsurface locations and rather above caption well was successfully in the above caption well was successfully in the successfully in the successfully in the successfully in the successfully in the successful in the su	X: Other MIT  arily state all pertinet details, and give pertinent dates, including estine measured and true vertical depths for all markders and zones pertined on 10/25/2000. (500 psi for 30 min.)	(Note: Report results of multiple completion on West Completion or Recomplation Report and Log form.)
i. Describe Proposed or Completed Operations (Clea directionally drilled, give subsurface locations and r	ariy state all pertinet details, and give pertinent dates, including estin measured and true vertical depths for all markders and zones pertin MIT'ed on 10/25/2000. (500 psi for 30 min.)	(Note: Report results of multiple completion on Well Completion or Recomplation Report and Log form.)  nated date of starting any proposed work. If well is ent to this work.)*
Describe Proposed or Completed Operations (Clear directionally drilled, give subsurface locations and r The above caption well was successfully I The pressure chart is enclosed.	arly state all pertinet details, and give pertinent dates, including estin measured and true vertical depths for all markders and zones pertin	(Note: Report results of multiple completion on Well Completion or Recomplation Report and Log form.)  nated date of starting any proposed work. If well is ent to this work.)*
Describe Proposed or Completed Operations (Cleadirectionally drilled, give subsurface locations and rather than the above caption well was successfully if the pressure chart is enclosed. If any question, please call.  I hereby certify that the foregoing is true and correct great the property of the property of the property of the pressure of the pr	ariy state all pertinet details, and give pertinent dates, including estine measured and true vertical depths for all markders and zones pertined on 10/25/2000. (500 psi for 30 min.)  ACCEPTED FOR RECOLUDE 15 2000  NOV 1 5 2000  BLM  Title N.M. Young District Manager	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)  nated date of starting any proposed work. If well is ent to this work.)*  OCD - ARTESIA  Date 11/01/00
Describe Proposed or Completed Operations (Clear directionally drilled, give subsurface locations and rather above caption well was successfully if the pressure chart is enclosed. If any question, please call.  I hereby certify that the foregoing is true and correct gred	arily state all perfinet details, and give pertinent dates, including estine measured and true vertical depths for all markders and zones perfin MIT'ed on 10/25/2000. (500 psi for 30 min.)  ACCEPTED FOR RECOINGY 1.5 2000  BLM	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)  nated date of starting any proposed work. If well is ent to this work.)*  OCD - ARTESIA  OCD - ARTESIA  Date 11/01/00



RECEIVED

Form 3160-5 (June 1990)

### UNITED STATES DEPARTMENT OF THE INTERIOR

1991 US NUL;

FORM APPROVED Budget Bureau No. 1004-0135

BUREAU OF	LAND MANAGEMENT	Expires: March 31, 1993
		5. Lease Designation and Serial No. NM-0557371
SUNDRY NOTICES	AND REPORTS ON WELLS ARTESIA, OFF	6. If Indian, Allottee or Tribe Name
Do not use this form for proposals to d Use "APPLICATION FO	rill or to deepen or reentry to a different response of PERMIT—" for such proposals	ervolr.
SUBMI	TIN TRIPLICATE / "LGE/VEA	7. If Unit or CA, Agreement Designation
1. Type of Well	MAY 24 1991	<del></del>
Oil Gas Well Chher  2. Name of Operator	1901	8. Well Name and No.
Mewbourne Oil Company	GOVST 6 NA	THE THE THE THE THE THE THE THE THE THE
3. Address and Telephone No.	10.	9. API Well No. 30-015-26575
P. O. Box 7698, Tyler, Te	xas 75711	10. Field and Pool, or Exploratory Area
4. Lucation of Well (Footage, Sec., T., R., M., or Survey E		No. Illinois Camp Morro
2250' FWL & 790' FSL of S	ec. 1, T18S-R27E	11. County or Parish, State
		Eddy, New Mexico
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, F	REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF A	
Notice of Intent	Abandonnent	
ਿਚ	Recompletion	Change of Plans New Construction
X Subsequent Report	Plugging Back	Non-Routine Practuring
Final Abandonment Notice	Casing Repair	Water Shut-Off
- The state of the	Allering Casing  Other Fracture Trea	Conversion to Injection
		(Note: Report results of multiple completion on Well
13. Describe Proposed or Completed Operations (Clearly state a	( If pertinent details, and give pertinent dates, including estimated date call depths for all markers and zones pertinent to this work to	Completion or Recompletion Report and Log form ) of starting any proposed work. If well is directionally delibed
and dicastica and dicastica and the Activ	cal depths for all markers and zones pertinent to this work.)*	are country brined,
4/24/91 - Western fractur	e treated Morrow Sand perfs	9936-461 99641671
down tabing wit	n 10.000 gals 73 downhole s1	urry quality Ringry
westtoam carryi	ng 16.000# 20/40 mesh ACERAC	Rlack Westness 7
Screened out wi	th 545 gale ('O /N 2% VCT wa	ton Consend
in tubing. Pum	00 gals of 3# stage in forma ped 116 sxs Proppant into fo	tion and 545 gals flush
Sacks in casing	and 19 sacks in tubing ts	110 X 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
±0 m±us /200%	15 mins 6800#. Avg 10.0 BPM	at 8200#, Job complete
10:20 AM.		·
		140050
		ACCEPTED FOR RECORD
		JUN 1 4 1991
		१ इच्ड
		CARLSBAD, NEW MEXICO
4. I hereby certify that the foregoing is arth and sources		- Constanting
Signed Muly Many	Title Engr. Oprns. Secret	ary Date 5/21/91
(This space for Federal or State office use)		LAIC
Approved by	Title	

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

NM OIL CONS COMMISSION Drawer DD Artesia, NM APROVED UNITED STATES Form 3160-5 Budget Bureau No. 1004-0135 (June 1990) DEPARTMENT OF THE INTERIOR Expires: March 31, 1993 BUREAU OF LAND MANAGEMENT 5. Lease Designation and Serial No. NM-0557371 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name 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 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE FER 2 1 1994 1. Type of Well Oil Gas Well Well 8. Well Name and No. Chalk Bluff Fed. Com. #1 2. Name of Operator 9. API Well No. Mewbourne Oil Company 30-015-26575 3. Address and Telephone No. 10. Field and Pool, or Exploratory Area (505) 393-5905 P.O. Box 5270 Hobbs, New Mexico 88241 N. Illinois Camp 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State 2250' FWL & 790' FSL Sec. 1-T18S-R27E Eddy Co., N.M. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF ACTION TYPE OF SUBMISSION Notice of Intent Ahandonment Change of Plans Recompletion **New Construction** Subsequent Report Plugging Back Non-Routine Practuring Casing Repair Water Shit-Off Final Abandonment Notice Altering Cosing Other Shut-In-Status 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 <u>12</u> MONTH PERIOD ENDING \_ Tide Petroleum Engineer

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

PETROLEUM ENGINEE

(This space for Federal or State office

Approved b(ORIG SCD.) JOE Q. LAN

14. I hereby certify that the foregoing is true and correct Signed	Tide Petroleum Engineer			
(This space for Federal or State office(use)  Approved by	ACCEPTED FOR RECORD	Date		
	10V   5 1903			
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to or representations as to any matter within its jurisdiction.	nake to any department or agency of the United States	any false, fictitious or fraudulent statements		

п 3160-5 : 1990)

onditions of approval, if any:

# **UNITED STATES**

FORM APPROVED Budget Bureau No. 1004-0135

; 1990)		NT OF THE INTERIOR	Expires: March 31, 1993
	BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No.
	SUNDRY NOTICES	AND REPORTS ON WELLS	NM-0557371
Do not use this		rill or to deepen or reentry to a different reservoir.	6. If Indian, Allottee or Tribe Name
		R PERMIT—" for such proposals	
		- HOLEWED	7. If Unit or CA, Agreement Designation
	SUBMI	IN TRIPLICATE	7. It out of the reposition business
i. Type of Well		007 1 9 <b>1993</b>	-
Oil X G	as Other	C. C. D	8. Well Name and No.
2. Name of Operator	/		Chalk Bluff Fed. Com. #
Mewbourne	Oil Company		9. API Well No.
3. Address and Telephor	ne No.		30-015-26575
P.O. Box	<u>5270 Hobbs, New Me</u>	exico 88241 (505) 393-5905	10. Field and Pool, or Exploratory Area
4. Location of Well (Fo	otage, Sec., T., R., M., or Survey L	escription)	N. Illinois Camp
00501 500	4 7001 FOL 6 6	1 7100 0075	11. County or Parish, State
2250' FWL	& 790* FSL of Sec.	1-118S-RZ/E	511. C- N.M
0150	V 400000014TE DOV	\ 70 \\0\0\175 \\1750\\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0	Eddy Co., N.M.
12. CHECI	K APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE, REPO	RI, OR OTHER DATA
TYPE O	F SUBMISSION	TYPE OF ACTION	
X Notic	e of Intent	Abandonment	Change of Plans
		X Recompletion	New Construction
Subse	equent Report	Plugging Back	Non-Routine Fracturing
_		Casing Repair	Water Shut-Off
☐ Final	Abandonment Notice	Altering Casing	Conversion to Injection
		Other	Dispose Water
			(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
<ol> <li>Describe Proposed or 0 give subsurface to</li> </ol>	Completed Operations (Clearly state all ocations and measured and true vertice	l perfinent details, and give pertinent dates, including estimated date of starting and depths for all markers and zones pertinent to this work.)*	3 any proposed work. If well is directionally drilled,
J		,	
09/08/93	Abandon Morrow Pe	rfs 9861' - 9967'	
	- Set CIBP @ 9800	)' - cover w/35' cement.	
	- Recomplete in (	isco Formation - Test & evaluate.	
	If unacomomical	recomplete in Wolfcamp - Test & eval	ua to
	- It unecomonited	recomplete in worldamp - lest a eval	Aco Co
			AR P
			22
			Pra
			E CE
			<b>₹</b>
			ECEIVED OF COLUMN SHIPS
•			8 <b>2 26</b>
			** <b>&amp;</b>
A I hambu carife the	e foregoing in true and correct?		
4. I hereby certify that the	true and correct	Petroleum Engineer	09/07/93
Signed		Title	Date
(This space for Federal	l or Sighte diffice use) NG. SGD.) JOE G. L.	• 10 8	1 6 -
pproved by (C)N	ag. 2001 ine g. f	Tide PETROLEUM ENGINEEN	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.

Title \_

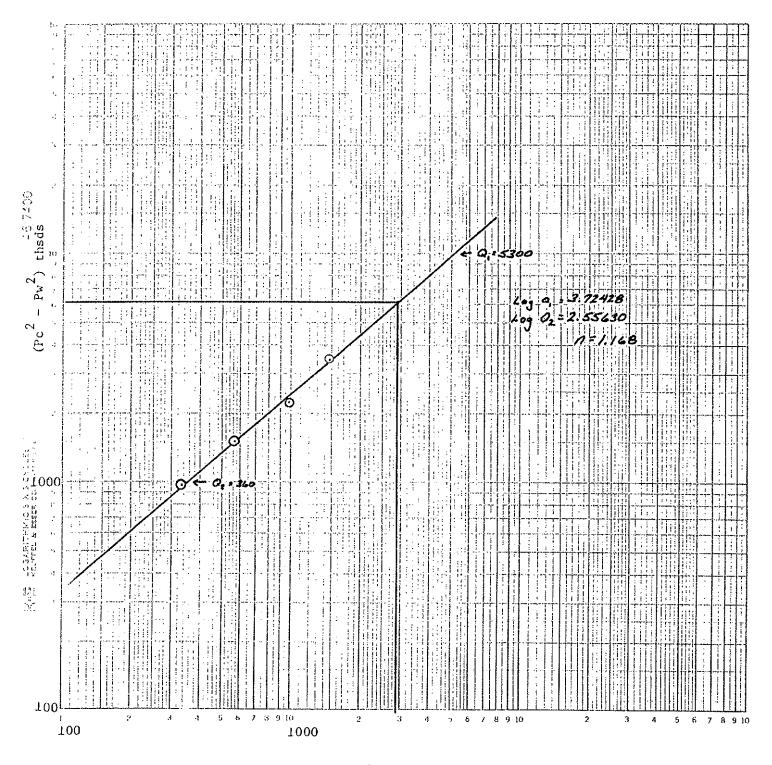
経じとNVED Corn: 3160-5 UNITED STATES FORM APPROVED inc 1990) Budget Bureau No. 1004-0135 SEP 2 8 1992 DEPARTMENT OF THE INTERIOR Expires: March 31, 1993 BUREAU OF LAND MANAGEMENT 5. Lesse Designation and Serial No. NM-0557371 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allonce or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well Oil Well Other 8. Well Name and No. 2. Name of Operator Chalk Bluff Fed.Com.#1 Mewbourne Oil Company 9. API Well No. 3. Address and Telephone No. 30-015-26575 P. O. Box 7698, Tyler, Texas 75711 (903) 561-2900 10. Field and Pool, or Exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) N.Illinois Camp-Mor.-Gas 11. County or Parish, State 2250' FWL & 790' FSL Sec. 1, T18S-R27E Eddy CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion New Construction Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection Other . Additional perfs Dispose Water acidize & frac (Note: Report results of multiple completion on Well 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 the 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 the to 8000#. 8/21/92 - Continued testing the Set pkr @ 9740.68 w/15 pts compression. Press annulus to 2000f. Held OK. Started swabbing. Had light blow of gas. 8/22/92 - RU Western Co. Acidized perfs w/1500 gals 7½% HCL acid + additives + 1000 scf/bbl nitrogen + 35 ball sealers. Flushed w/2% KCL wtr. ISDP 400#. 5 min 3700#, 10 min 3700#, 15 min 3600#. ATP 5100#, MTP 5400#. RD Western. Opened well to pit on 12/64" choke. No show of gas or oil. Recovering load.

14. I hereby certify that the foregoing by true and Title Engr. Oprns. Secretary Approved by Title unditions of approval, if any: Date

8/23/92 - RU swab. FL @ 7000'. Swabbed dry in 3 runs. Continued swabbing. Recovering load.

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.

			MUL	TIPOINT A	ИND	ONE	POII	NT BAC	K PRE	SSUR	EIE	51 1	-UK G	AS WE	LLRE	CE!	VED
7.00	• Yeat								······		Test D	ale		···········			
177 [	ī k	Initio	al	[	^	innual			Spo	rcia!	03/	15/9	1				
Сол	ıbarı <b>k</b>				7	Conne	ction			H	ãCu.	- 11		l ha	Y 5	71	16 間 31
	Mewbour	ne Oi	i Con	nnany V	<b>/</b>	Tr	ans	wester	n					Unit C.	,		
Poo	Und	esign	nated	<u> </u>		Forma	llon			MA	Υ - Υ	7 19:	91	Unit O	M22.:		10.08
Nor	th Illi	nois						Morro			O:vGI	<u> </u>			Lease N		* 1
Con	pletion Date	•		Total Septh				Plug Bock					76	1			
C	3/05/91			10.13	20'			10.	075'		ESIA	609.		Cha Well No		££_	Federal
	. \$17°2"	Wi.	64	ď	1 -	IAL 120	ł	From	 9936'	Ťo		996	71	,			
	51/2"1 . 51/.•	Wi.	1.6#	d	541	10,120	<del>'</del>	Perforation						Unit	Sec.	Tw	a Ryes
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	9949		9949	.66			3		42			١,		13.0		1 F	16.
			FI	OW DATA	· -		<del></del>				DATA		Pre	ASING	Temp	ᅱ	Duration of
NO.	Provet Line	x	Orifice	Prass.		Dill.	į	Temp. •F	Pres p.m.i		Ter			l.g.	• F	- [	Flow
<u> </u>	Size		2110	P. 0.1					238		1					十	72 Hr.
SI	S.I			1.00			<del> </del>	51	217		<b></b>		. Pk	γ			1 Hr.
1.	3 X 1.			426.8			1	51	207		1		Pk				LHr.
2.	$3 \times 1$		<del>,</del>	446.8	$\dashv$		32	51	190				PΙ	·r			l Hr.
3.	$\frac{3 \times 1}{3 \times 1}$			426.8	$\neg$		12	45	160				рķ			_	<u>l Hr</u>
5.	3 X 4 ·	<u></u>		1		***************************************					<u> </u>						
<u>ٽ</u>	<u> </u>					RAT	E OF	FLOW	CALCU	LATI	ONS		<del></del>				
						Pres	A 1.17 @	Flor	≠ Temp.		Gravit	Y		Super		Rate	of Flow
	Coalli		-	h <sub>w</sub> P <sub>m</sub>				F	actor		Factor	•		mpress.	,	Q,	Mefd
NO.	(24 H				_	P			Fu		Fa						337
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2.	6.217										122			051			980
3_	6.217			21 <u>326</u>			60 40		.009_	1	1.22			051			1446
4	6.217			77.989		-	140	-	• () 1	1							
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NO.	Ιħ	Tem	p. •R	Tr		Z	-	.t. Gruvity									Deg.
1	.65	1	511	1.37	· · · · · · · ·	910		cille Gravi				.66	50		x x	XΧ	<u>xxxxx</u>
2.	.68		511	1.37		.906	Spec	ellic Gravi	ty Flowin	g Fluid		x	XXX				
3.	.68		511	1.37		.906	Celt	tcal Press	ur#		73		<del></del>	P.S.f	1		P.S.I.A.
4.	.65		505	1.35		905	Criti	ical Tempe	rature		174			<del> </del>	. A I		R
5						i							<u> </u>		٦		
Pc	2472		6110	7	- 5	- R <sub>2</sub> <sup>2</sup>	711	$\frac{P_c^2}{P_c^2 - R_c}$	3	1.	784	_	(2)	P <sub>c</sub> <sup>2</sup>		1.	967
МО	P <sub>t</sub> <sup>2</sup>		· .	6°3			•••	$P_c^2 - R_c$	?			-		1չ² ኢ	<sup>3</sup> ]		
1			264	5125		85.7							_				
2			147 966	4609 3865		01.7 45.7		Г	ŋ.2	٦'n	- 2.	844					
3			639	2686		24.7	AOF	- 0	P3 - R	2							
5	!	- <del> </del>			<u> </u>		•			, J							
	<u> </u>					<u> </u>						4,	2	1°			1.168
Ab.	olute Open	F10=	2	,844				Meid	<b>₽ 15.025</b>	Ang	e of 51	) pri (7					
Ren	,aris;	Wel	l_mad	e O bbl	£1	uid di	rir	g test			<u> </u>						<del></del>
	<u></u>			<del></del>		-											
	roved by Di	vision		Conduc	+J E	y:			Culculat	ed Dy:		-		Checke	d By:		
7 PP				l l		Milne	er		1		Lner			B111	Pierc	<u>e</u>	
				. 0	6				- 2.					-			



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:

ANALYSIS DATE: 03-18-91

PRESSURE - PSIG SAMPLE TEMP. °F

460.00 51.00

03-15-91

GAS (XX) SAMPLED BY: LIQUID ( )

ANALYSIS BY:

Gregory Milner Rolland Perry

ATMOS. TEMP. °F

**REMARKS:** 

### **COMPONENT ANALYSIS**

		MOL		
COMPONENT		PERCENT	GPM	
Oxygen	(02)			
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	10 8086
AT 14,650 DRY		1153	MOLECULAR WI	19.0972
AT 14.650 WET		1133	26# GASOLINE -	
AT 15,025 DRY		1182	20# GASOLINE -	0.578
AT 15.025 WET		1162		
717 10.000		1102		
SPECIFIC GRAVITY	<i>'</i> _			
CALCULATED	)	0.660		
MEASURED	)	0.000		

WORK SHEET FOR CALCULATION OF WEL. ND PRESSURES (Pcor語)

Form C-122F Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (Pf or TE)

DATE 3-18-91	272	2 % H <sub>2</sub> S	
	Range	3 % N <sub>2</sub> .42	
"Mewbarine Oil LEASE Chalk Bluff For! WELL NO.	Section / Township 185 Ra	H 9949 L/H 1.000 G 1660 % CO2 143 %1	GH 6566 Por 673 Tor 374
DMPANY ME	SCATION: Unit	6465	

IN I		<b>Quan</b>	7	m	4	ហ	ω	7	œ
-	T <sub>w</sub> (W.H. •R)	532	535						
C4	T <sub>s</sub> (B.H. •R)	209	809						
e	$T=(\frac{T_W+T_S}{2})$	570	570						
4	Z (Est.)	008'	062.						
S	1.2	0.754	450.4						
9	GH/TZ	14.399	865141						
7	e <sup>S</sup> (Table XIV)	716.1	1.727						
<b>6</b> 0	Pfor 🕰	3249	3249						
6	P <sub>1</sub> ² or <b>⊊</b>	95501	10556						
10	$P_c 2 = P_f 2/es \text{ or } $	6151.7	6151.7 6110.6						
=	Pc or 3	2480.3	2472.0	ء ج					
12	$P_{=}(\frac{P_W + P_S}{2}) \text{ or } (\frac{P_C + P_I}{2})$	2864.6	2860.5						
E E	$P_{\Gamma} = (P/P_{CL})$	4.26	4.25						
4	$T_{\rm r} = (T/T_{\rm cr})$	1.52	1,52						
15	Z (Table XI)	.790	. 190						

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

WORK SHEET FOR CALCULATION OF WE (EAD PRESSURES (E) or P.,)

Form C-1228 Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE 🐚 or Ps)

8-81-5 % H<sub>2</sub>S. 42 Range % N2-·660 % CO2 ·43 8 - WELL NO. -Township LEASE Chelk Bluth 1.00 G LCH Section 61.56 COMPANY . Mew bearne I LOCATION: Unit 6466

GH 6566 Par 673 Ter 374

1895.3 2684.9 1631.5 1638.6 1,52 14.537 2.87 451.7 1.725 . 792 2757 4631.) 570 532 .792 600 14.768 2661.7 1891.7 1.740 4631.1 180 444.6 1.52 2.81 192 2152 570 532 600 3865.5 2279.5 1966.5 1966.1 6723.6 14.761 780 444.8 1.739 2593 1.780 5.39 1.52 570 608 532 14.749 6723.6 2279.8 3867.2 445.2 3.39 1.739 1.52 .780 2593 600 570 532 186 4609,0 2148.5 2146.9 14.753 80146 7623.6 2489.8 2488.9 445.1 1.739 608 570 1.52 2831 3.70 532 182 186: 8014.6 4616.2 1.736 446.5 14.712 3.70 2831 600 532 570 783 1.52 180 2264.2 8898.3 5126.6 446.5 14.704 1.736 2983 1.52 3.90 782 532 000 , 783 570 88983 5304.3 2643.1 2303.1 1.678 13.7% 3.93 476.0 2983 1.52 532 ,783 608 570 835  $= P_{\rm f}^2/es \text{ or } P_{\rm w}^2 = P_{\rm s}^2/es$  $P=(\frac{Pw+Ps}{4})$  or  $(\frac{Pc+Pf}{4})$ e<sup>S</sup>(Table XIV)  $P_{\rm I} = (P/P_{\rm ct})$  $T_r = (T/T_{ct})$ Z (Table XI) T=(Tw + Ts野 or Ps2 Tw(W.H. ∘R) T<sub>S</sub>(B.H. °R) M or P. Mor Ps Z (Est.) GH/TZ 72 LINE --2 ŭ 4 ñ N m Ŋ æ Ö

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

COMPANY:

PRO WIRELINE

CLIENT:

MEWBOURNE DIL

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

FOSITION

GAUGE SERIAL NUMBER

1

2

3

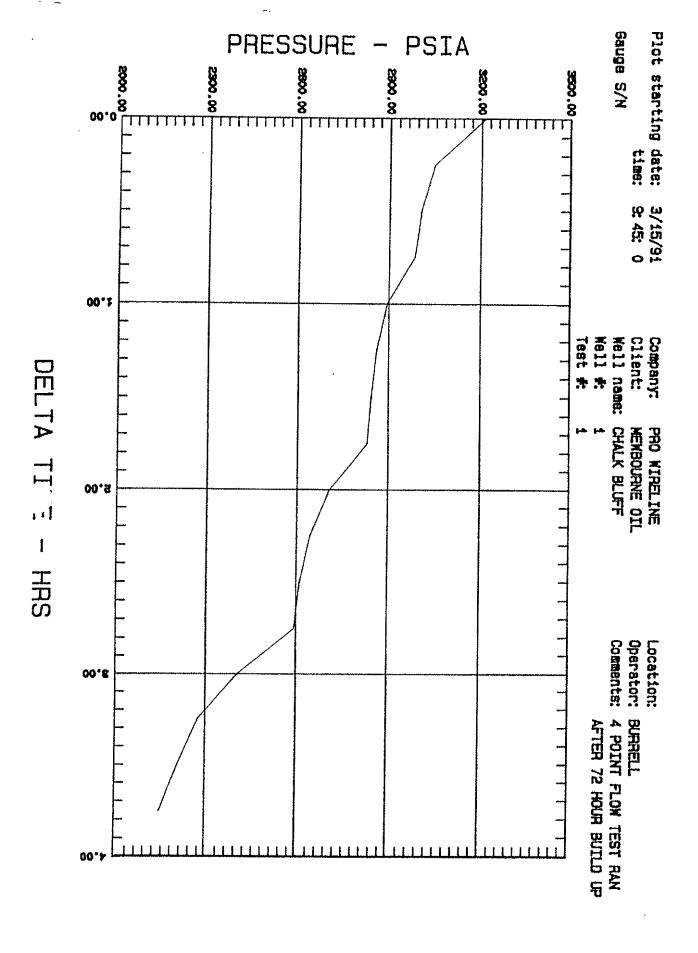
4

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	-2- 4- 4-7 	ADT CARE
10: 0: 0	0.2500	3046.00	ລາເ	ART RATE 1
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00	er.	ADT 5000 -
10:45: 0	1.0000	2894.00	516	ART RATE 2
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00	cri	007 DATE -
11:45: 0	2.0000	2707.00	516	ART RATE 3
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: 0	2.7500	2593.00	/m mm /	15.00 m
12:45: 0	3.0000	2405.00	517	ART RATE 4
13: 0: 0	3.2500	2276.00		
13:15: 0	3.5000	2210.00		
13:30: 0	3.7500	2152.00	END	OF TEST



Form 3160-4 (November 1983) (formarly 9-330)

## UNITED STATES COMMESSION IN DUPLICATE.

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

	DE			MD GRANAGEI MD GRANAGEI	MENINERIOR		ietions a erse side		GNATION AND SERIAL NO.
WELL C	OMPLE	TION	OR RECO	MPLETION	REPORT A	ND LC	G *	G. IV INDIAN,	ALLOTTER OR TRUB NAME
1a. TYPE OF W	ELL:	OH. WELL	GAS WELL	X DHY	Other			7. UNIT AGREE	MENT HAME
b. TYPE OF C		-			_	Tre	Hr.		
WELL X		DEED EN	- П РЕГЕ ВЛОК	DIFF. E	Other	John Street	FD	S. PARM OR LE	
2. NAME OF OPE		_			121	120		ł	Bluff Federal Com
Mewbour		Comp	any V	<del></del>	-6H/	JUL 2 3	1992	0. well No.	
P. O. B	ox 769	8, Ty	ler, Te	xas 75711	L V	O. C.	D.	10. FIELD AND	POOL, OR WILDCAT
					any State requirem	idite)eta e	بالإدات	N. Illi	nois Camp Morrow
At surface	2250'	FWL	& 790' I	FSL				11. HEC., T., H., OR AREA	M., OR BLOCK AND BURYEY
At top prod.		orted belo	w					Sec. 1-	-T18SR27
At total depti	• Sam	e		4 44	Va.			_	
				14. PERMIT	80-015-2 65	TE ISSUED		12. COUNTY OR PARISH	13. STATE
15. DATE SPUNE	1 1ft DAT	g To ata	CHED   17 DAS	AFI #5	y to prod.)   18. E	/3		Eddy	N.M.
12/22/9	0 1/	29/91	3/0	07/91	1			F	19. ELEY, CASINGHEAD
20. TOTAL DEPTH. N					I KES CLITTER COMPL., MANY*	3625,	GM 3	ILOTARY TOOS,N	CABLE TOOLS
10,120'		10	,079	now	*YMAK	1916.1	HARD BY	X	1
24. PRODUCING INT. 9936-46					(MD AND TVD)*			F	25. WAS DIRECTIONAL SURVEY MADE
26. TYPE ELECTRIC				)W					Yes
SDL-DSN								21	7. WAS WELL CORED
28.	, , ,	301 117		INC OPCOUNTE	tepart all strings se	A. C			No
CASING SIZE	WZIGI	17, 18./FT			Hole Size	~~~	MENTING	RECORD	
13-3/8"	54	.50#	4	100' 17	-1/2"	425		<del></del>	AMOUNT PULLED
9-5/8"	36	<b>‡</b>	26	04 12	-1/4"	1025			None None
7"	26	& 2	9# 94		-3/4"	1350			None None
***************************************									
29.	7	<del></del>	NER RECORD	· · · · · · · · · · · · · · · · · · ·		30.		TUBING RECOR	l)
512E	40T (M		OTTOM (MD)	SACKS CEMENTS	SCREEN (MD)	8121		DEPTH BET (MD)	PACKER SET (MD)
4-1/2"	905]	<u> </u>	10119'	175		2_3	/8"	9805	9805
31. PERFORATION R	Ecogy (Inte	rval. sizc	and number)	!	1	<u> </u>			
9936-46			,				4	TURE, CEMENT S	
13', 2 S	PF To	tal 2	28		9936-67			TOURT AND KIND	
	•				3330-07	<u></u>	3000 hh1	M2 + 50 b=	101 acid + 1000 S
						<del></del>	17/35	hhle 28 18	ll sealers. Flush Lwater + 1000
							SCF/	bbl N2.	TI- Marcel A TOOO
R3.* PATE FIRST PRODUC				PRO	ODUCTION				
AIR FIRST PRODUC	TION .	PRODUCT	ION METHOD (F		pumping—size and	type of pun	πp)	WELL ST	TUR (Producing del)
ATE OF TEST	HOURS T	CATED	CHOKE BIZE	Flowing			····		Producing
3/11/91	24 hrs		8/64"	TEST PERIOD	01L BBC.	94831	CF,	WATER—BEL,	CEDIF BYEIG
LOW, TUBING PRESS.	CANING P		CALCULATED	011,881,,	GAS-MCF	886	WATER~	0	L GRAVITY-API (COCK.)
1600#		i	24-HOUR RATE	i l	886	1		· ·	58 <b>6</b> 5
4. DISPOSITION OF	OAS (Sold, u	eed for fue	l, vented, etc.)		1 000	<u>L</u>		O PERT WITHBARE	
'Sold								W. Har Clay	
S. LIST OF ATTACE	EMENTS.				<del></del>	<del></del>	******	ALLEP	ED FOR RECORD
Logs 6. I bereby teruit	that the	ng galong A	ng attached in	formation is com	plete and correct a	s determin	d from	All as tight	\$DS
(X/re	do	Hh	me					all available recor	PR 1991
SIGNED LUC	guns	1/11	-7/M	TITLE _	Engr. Oprns	<ul><li>Secre</li></ul>	tary	DATE_	3/18/91

90	ciuaing depth in	iterval tested, cu	including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and	38.	GEOLOGIC MARKERS	•
FORKATION	TOP	Воттом	DESCRIPTION, CONTENTS, ETC.			
Lower Mor	<b>9</b> 836	12966	Sandstone	NAME	MEAS, DEPTH	TRUE
Middle Morbow	1986	* L'886	Sandstone	Yates	424"	
-				Queen	1138	
				Grayburg	1484	
				San Andres	19761	
			·	Glorietta	34581	
-				Tubb	4451	
				Drinkard	53761	
				Abo	5794	
`.				Wolfcamp		:· ,
				Cisco	19994	
. •				Canyon	8368	1! .
	-			Strawn	8844	, . <b>f</b>
				Morrow	9454	
				Morrow Clastids	9770	
				Barnett	10016	
		•				
			-			
					****	
					••••	
		····			***************************************	
			•	MII		



### DRILLING CO., INC. - DIL WELL DRILLING CONTRACTORS

505/623-5070 ROSWELL, NM

P. D. BOX 1498 ROSWELL, NEW MEXICO 88202-1498 505/746-2719 ARTESIA, NM

February 05, 1991

Mewbourne Oil Company, Inc.

P.O. Box 5270

Hobbs, N.M. 88241

REF: Chalk Bluff Fed Comm #1

Gentlemen:

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

1.671.1 1 1 1 1 0	<b>44</b>
40/4' - 1 1/4"	6559' - 2 1/2°
5120! - 1 1/2°	6650' - 2 1/4°
5639' <b>-</b> 1 1/4°	7146' - 1 3/4°
6077' - 3 1/2°	7672' - 3/4°
6126! - 3 3/4°	78001 - 3/40
6189' - 3 3/4°	8291' - 10
6250' - 3 3/4°	8815' - 1°
63 <b>12' -</b> 3 1/2°	9313' 3/4°
6374' 3 1/4°	9808' - 1 1/4°
6467' - 2 3/4°	10,120' 3/4° TD
	5639' - 1 1/4° 6077' - 3 1/2° 6126' - 3 3/4° 6189' - 3 3/4° 6250' - 3 3/4° 6312' - 3 1/2° 6374' - 3 1/4°

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

Checked By:

Bill Pierce

### SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED Text Date Type Test | Special Annual [ 03/15/91 X Initial 7 45 / 91 Comection IAY 5 ReCentury Company Transwestern Mewbourne Oil Company Unit CA ` :: E Formation MAY - 7 1991 Undesignated AREA: 8.13 Morrow North Illinois Camp Morrow OrvauD. Form or Lease Name Plug Bock TD Total Depth Completion Date ARTESIA, OFFICE Chalk Bluff Federal 10.075 03/05/91 Well No. Performionas Sal At C+4. 5179211 99671 From 10,120' 11.6# R. Int Sec. Twp. Perforationer Set At 27E From **188** 9,805 Open. End 2 7/8" 6.5 Packer Eat At County Type Well - Single - Bradenhead - G.G. or G.O. Multiple Eddy 9805 Single Cas Baro, Pross. - Pa State Mean Annual Temp. \*F Reservoir Temp. \*F Froducing Thru 13.2 New Mexico 148 10,120 Tbg. Provet Meter Run Tape % H25 % CO 2 % N 2 Ca 1. 3.0689949 9949 .660 CASING DATA TUBING DATA Duration FLOW DATA oí Temp. Temp. Diff. Press. Prass. Temp. Orifica Prover Flow g. s. l.q. NO. Line p.u.l.g. p.s.i.g. h., Sire Size 72 Hr 2380 SI 1 Hr. Pkr 51 2175426.8 ١. 3 X 1.125 4 1\_Hr Pkr 11 51 2070 2. x 1.125 446.8 l Hr. Pler 32 1900 446.8 51 3  $\times 1.125$ Pkr 1 Hr 1605426.8 72 45  $3 \times 1.125$ 4. RATE OF FLOW CALCULATIONS Gravity Super Flow Temp. Rate of Flow Preseure Coefficient Compress. Factor Factor ∕հա₽ա Q. McId Factor, Fpv Fq NO. (24 Hour) Ft. 337 1,225 1.048 1.009 41.952 440 6.217 1 71.134 1.009 1.225 1.051574 460 6.217 2. 980 460 1,009 1.051121.326 6,217 3 1446 1.0511.015 440 177,989 6.217 5 Dry Gas Mct/bbi. Gas Liquid Hydrocarbon fimio. Z Temp. \*A Ŧŗ NO. n, " Deg. A.P.I. Gravity of Liquid Hydrocorbons 660 \*\*\*\*\* Specific Gravity Separator Gas... 1.37 91065 511 ١ XXXXX 1.37 906 Specific Gravity Flowing Fluid\_ 511 .68 2. P.S.I.A \_ P.S.I.A .68 906 Critical Pressure ... 511 1.37 3. 374 Critical Temperature 4. 5051.35 905 65 5 6110.72472 P.,2 P P. 2 NO 5125 985.72264 1501.7 2147 4609 2 1966 3865 2245.7 3 2686 3424.7 1639 4 5 41° Slopa, n. 1.168 2.844 Angle of Slope & McId # 15,025 Absolute Open Flow Well made O bbl fluid during test

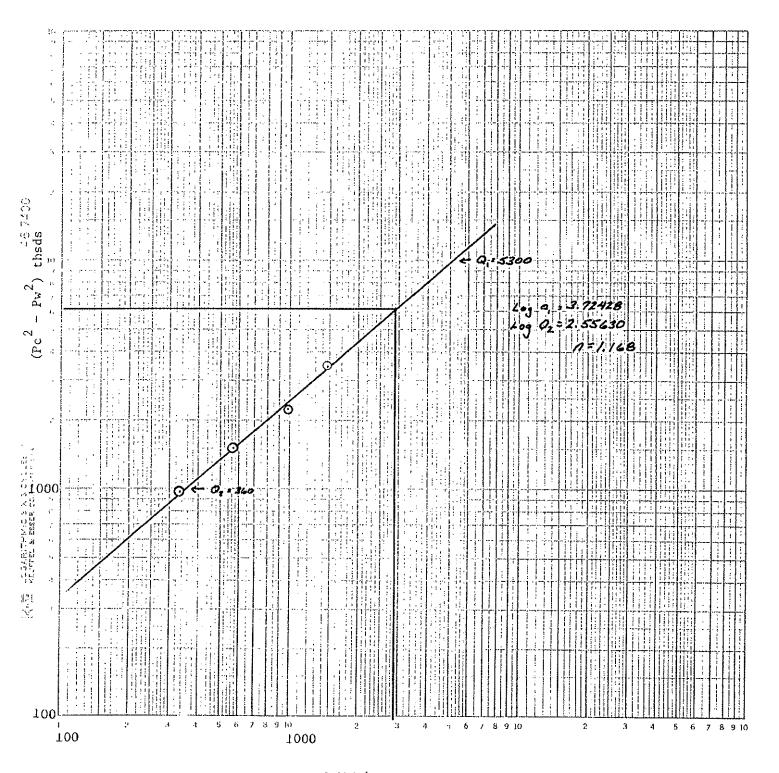
Culculated By:

Greg Milner...

Conducted By:

Greg Milner

Approved by Distaton



### 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:

ANALYSIS DATE:

03-15-91 03-18-91

PRESSURE - PSIG 460.00

SAMPLE TEMP. °F ATMOS. TEMP. °F

51.00

GAS (XX)

LIQUID ( )

SAMPLED BY:

Gregory Milner

ANALYSIS BY:

Rolland Perry

REMARKS:

#### **COMPONENT ANALYSIS**

UO.

		MOL		
COMPONENT		PERCENT	GPM	
Oxygen	(02)			
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.42		
Carbon Dioxide	(CO2)	0.43		
Methane	(C1)	87.54		
Ethane	(C2)	7.07	1.885	
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	MOLEOU AD ME	
AT 14.650 DRY		1156	MOLECULAR WT	19.0972
		1153	20 5 5	
		1133	26# GASOLINE -	0.578
		1182		
AT 15.025 WET		1162		
SPECIFIC GRAVITY	<i>,</i>			
CALCULATED		0.650		
MEASURED		0.000		

WORK SHEET FOR CALCULATION OF WELL (D PRESSURES (Pcor概)

Form C-122F Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (Pf or五)

E 3-18-91		% H <sub>2</sub> S	
DATE	27.E	- 1	
	Range	% N2	<b> </b> _
WELL NO	18.5	00 G 1660 % CO2 143 % N2 142	CT 374
13 San.	Township	660 %	or 673 Tor
LEASE Chalk Bluff Ford	/	1.000 G	<u>ط</u> ا
- LEASE	_ Section	L/H 1.00	9959 HD
Mewdooins Dil	Unit	6766 H 6465	
⊼ Yn A G Y	CATION: Unit	65	

三. 三.		•	2	61	4	5	ဖ	7	æ
-	Tw(W.H. •R)	255	532						
23	T <sub>S</sub> (B.H. °H)	209	809						
e	$T=(\frac{T_W+T_S}{2})$	570	570						
4	Z (Est.)	008'	062.						
٠	7.2	0.75%	450.4						
9	GH/TZ	14.399	14.578						
7	e <sup>S</sup> (Table XIV)	1.716	1.727						
83	Pfor霉	3249	3249						
6	P <sub>t</sub> ² or <b>愛</b>	10556	10556						
10	$P_c^2 = P_t^2/e^{s}$ or $+\frac{1}{2}$	6151.7	6151.7 6110.6						
Ξ	Pcor要	2480.3	2472.0	رم				·	
12	$P_{\text{H}}(\frac{P_{\text{W}} + P_{\text{S}}}{2}) \text{ or } (\frac{P_{\text{C}} + P_{\text{I}}}{2})$	2864.6	2860.5						
55	$P_{\rm r} = (P/P_{\rm ct})$	4.26	4.25						
4	$T_{\Gamma} = (T/T_{CI})$	1,52	1,52						
5	Z (Table XI)	062.	.790						

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

WORK SHEET FOR CALCULATION OF WE. JEAD PRESSURES ( P.)

Form C-122! Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE 👣 or Ps.)

-DATE 3-18-91 - % H<sub>2</sub>S -% N2 · 42 -Range 8 1.00 G 1660 %CO2 143 - WELL NO. -\_\_ Township \_\_\_ PCT 673 - LEASE CHOIN BLUTH. Section | L'H | 64.66 COMPANY . Mew bourne ] H LOCATION: Unit \_ 6466

L N H			2	m	4	5	9	7	8
_	Tw(W.H. •R)	5.32	532	532	532	532	532	532	532
2	T <sub>s</sub> (B.H. •R)	209	809	209	809	608	809	603	809
е	$T=(\frac{Tw+Ts}{2})$	570	270	220	570	220	220	570	570
4	Z (Est.)	,835	, 783	. 783	186.	.781	. 780	082.	.792
s	12	476.0	446.5	146.5	445.1	445.2	444.8	444.6	451.7
9	GH/TZ	13.7%	H01.41	14.712	14.753	14.749	14.761	14.768	14.537
7	e <sup>S</sup> (Table XIV)	817:1	1.736	1.736	1.739	1.739	1.739	0461	1.725
8	<b>城</b> or P <sub>S</sub>	2983	2983	2831	283)	2593	2593	2152	2752
on.	ESOV PS2	88983	8898.3	8014.6	80146	6723.6	6723.6	4631.1	4631.1
ဋ	$R_{\phi} = P_{1}^{2}/e^{s} \text{ or } P_{w}^{2} = P_{s}^{2}/e^{s}$	5304.3	5/26.6	4616.2	4609.0	3867.2	3885.5	2661.7	2684.9
=	<b>数</b> ot P <sub>w</sub>	2303.1	2264.2	2148.5	2/4/6.9)	1966.5	1.996.1	1631.5	1638.6
12	$P_{\pm}(\frac{P_W+P_S}{2}) \text{ or } (\frac{P_C+P_f}{2})$	2643.1	7.5292	2489.8	2488.9	2279.8	2279.5	1891.7	1895.3
<u>E</u>	$P_{\rm r} = (P/P_{\rm cr})$	3.93	3.90	3.70	3.70	3.39	5.39	2.81	2.87
4.	$\Upsilon_r = (T/T_{cr})$	1.52	1.52	1.52	1.52	75"	1.52	1.52	1,52
15	Z (Table XI)	. 783	.783	181	182'	082.	.780	.792	.792

One copy to be filled 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

FOSITION

GAUGE SERIAL NUMBER

1

2

3

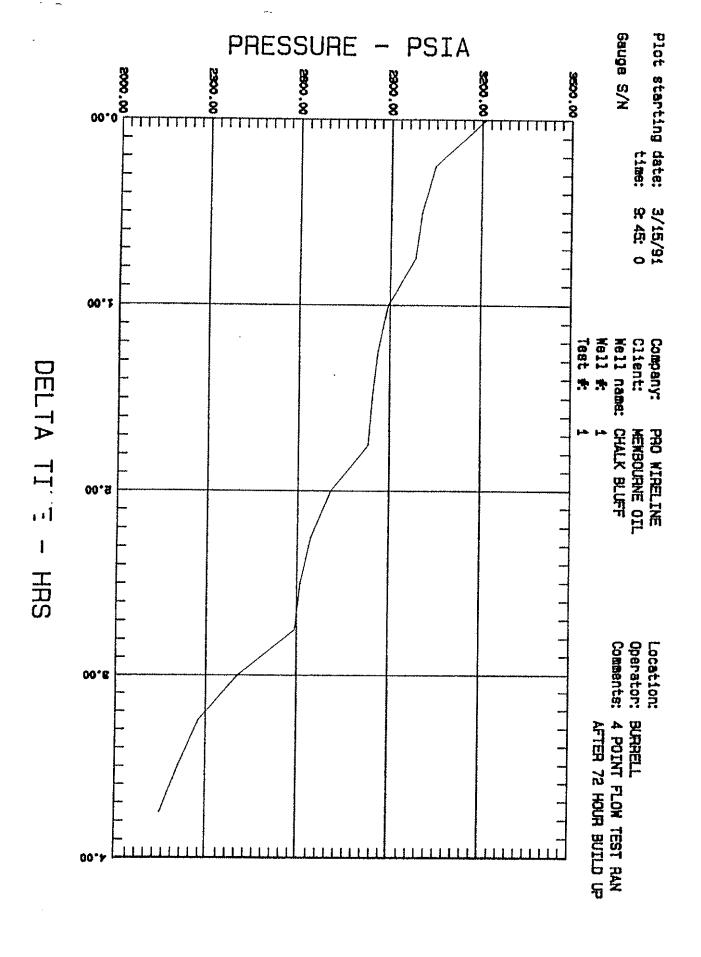
4

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		TART RATE 1
10: O: O	0.2500	3046.00	a l	(HIK) KHIC I
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00	<b>c</b> n	FART RATE 2
10:45: 0	1.0000	2894.00		IDEL RAIL Z
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00	CT	ART RATE 3
11:45: 0	2.0000	2707.00	51	OKT KHIE 3
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: 0	2.7500	2593.00	QT	ART RATE 4
12:45: 0	3.0000	2405.00	a i	HKI KHIE 4
13: 0: 0	3.2500	2276.00		
13:15: O	3.5000	2210.00		
13:30: 0	3.7500	2152.00	EN	D OF TEST



## RECEIVED

Corm 3160-5

UNITED STATES

FORM APPROVED

nc 1990)	DEPARTMENT OF BUREAU OF LANI		
		Ö, C, D,	5. Lease Designation and Serial No. NM-0557371
	SUNDRY NOTICES AND	REPORTS ON WELLS THE PARTY	
Do not use this	form for proposals to drill or Use "APPLICATION FOR PE	to deepen or reentry to a different rese RMIT—" for such proposals	rvoir.
	SUBMIT IN 1	RIPLICATE	7. If Unit or CA, Agreement Designation
i. Type of Well Oil Gas			<del></del>
L. Well Well	Other		B. Well Name and No.
2. Name of Operator			Chalk Bluff Fed.Com.#1
Mewbourne O			9. API Well No.
3. Address and Telephone			30–015–26575
P. U. BOX /	698, Tyler, Texas 7571	1 (903) 561–2900	10. Field and Pool, or Exploratory Atea
to executed by well (1904)	ge, see., 1., R., M., or Survey Description	n)	N.Illinois Camp-MorGas
22501 War r	7001 FCT C 1 MING	p.0.77	11. County or Parish, State
ZZJU FWL G	790' FSL Sec. 1, T18S	R27E	Eddy
12. CHECK	APPROPRIATE ROY(s) TO	INDICATE NATURE OF NOTICE OF	
TYPE OF	SUBMISSION	INDICATE NATURE OF NOTICE, R	
		TYPE OF AC	TION
L. J Notice	of Intent	Abandonment	Change of Plans
<b>.</b>	_	Recompletion	New Construction
2npicde	ieni Report	Plugging Back	Non-Routine Fracturing
□ Einst A		Casing Repair	Water Shut-Off
L Final A	bandonment Notice	Altering Casing	Conversion to Injection
		Other <u>· Additional perfs</u>	Dispose Water
O Danish Danish C		acidize & frac	(Note: Repart results of multiple completion on Well
give subsurface foci	impleted Operations (Clearly state all pertine) Highs and measured and true vertical depths	of details, and give pertinent dates, including estimated date of for all markers and zones pertinent to this work.)*	f starting any proposed work. If well is directionally drilled,
8/13/92 - Perf	Middle Morrow 9861-988	32', 2 SPF, 10' Net, 22 holes.	
8/14/92 - Acidi seale 10 mi	zed w/3500 gals 7½% HC rs. Flushed w/2% KCL w	CL + additives + 1000 SCF/bbl otr + 1000 SCF/bbl nitrogen. I #. Avg rate 3.7 BPM, AP 5000#	nitrogen carrying 80 ball
8/19/92 - MI swabb	ab unit. Pressure test ed well down to 5300'.	ed tbg to 2000#.Held OK. Remo	ved tree. RU BOP. RU swab.
compre	ession. Press annulus	w/tbg & pkr. TIH w/new pkr a 2 - Continued testing tbg. Se to 2000#. Held OK. Started sw	t pkr @ 9740.68' w/15 pts abbing. Had light blow of gag
nitrog 15 mir No sho	stern Co. Acidized per gen + 35 ball sealers. 1 3600#. ATP 5100#, MT ow of gas or oil. Reco	fs w/1500 gals 7½ HCL acid + Flushed w/2% KCL wtr. ISDP 4 P 5400#. RD Western. Opened w vering load.	additives + 1000 scf/bb1 00#. 5 min 3700#, 10 min 3700# ell to pit on 12/64" choke.
8/23/92 - RU swa	ab. FL @ 7000'. Swabbe	d dry in 3 runs. Continued sw	abbing. Recovering load
			J Louis
14. I hereby certify that the fo	specing by true and correct		
Signed Muste	De Mapion	Title Engr. Oprns. Secretary	
(This space for Federal or		INC OPLING. DECRETARY	Date9/11/92
Approved by	/	452_	
Conditions of approval, if	any:	Title	Date
		<b>€</b> 322	

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, facilities or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-4 (November 1983) (formerly 9-330)

## UNITED STATES COMMISSION DUPLICATE.

## DEPARTMENT OF WITHE INTERIOR

(Secother Instructions on reverse side)

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

٠.	LEASE	DESIGNATION	SERIAL.	
	NIM_	A557271		

CABINO SIZE   WEIGHT, LS./FT.   DEPTH SET (MD)   HOLE SIZE   CEMENTING RECORD   AMOUNT PULLED			BURE	AU OF LA	ND 484	<b>AACIËM</b> E	M9210		Least	rse sun	NM-0	557	371
TOTAL OF STATE OF WELL WILL BUT TO THE COLOR OF THE COLOR	WELL CO	OMPLET	ION O	R RECC	MPLE	TION	REPORT	AN	D LO	G *	G. IF INDIA	N, ALL	TTEE OR TRIBE NAME
THE OF COMPLETION:  SET ALL WORLD CONTROL OF THE CO			0H. [								7. PHIT AGE	EEMEN	T NAME
2. Mark or orderators  Membourne Oil Company  1. Administration of orderators  P. O. BOX 7698, Tyler, Texas 75711  O. C.D.  1. Locktroos or wark. (Perpet location of ordering and in accordance with any State requirementation of Orderators  At source 2250 FML & 790 FSL  At loop prod. Interval reported below  At total depth Same  At total depth Same  At total depth Same  At total depth Same  APT #30-015-26575  BATE HAVE BALLOWS IS, DATE MARCHINI IS, DATE COUNT. (Residue to prod.)  B. DATE STATUMEN IS, DATE STATUMENT NO.  APT #30-015-26575  B. DATE STATUMENT NO.  APT #30-0									1111		-		
Membrourne Oil Company  3. Johnson of Petracker  P. O. Box 7698, Tyler, Texas 75711  1. Lockymber with Report location cleany and in accordance with any State requiremental and according to the following state in the state of	WELL X	WORK [		BACK	D BE	svr.	Other	کی		D	~		
3. ADMERS OF PERSONNEL (REPORT INCIDENCE AND PICE).  4. DOCUMENT OF WILL (REPORT INCIDENCE AND STATE PROPERTY AND POOL OF WILL (REPORT INCIDENCE AND STATE PROPERTY AND POOL OF WILL (REPORT INCIDENCE AND STATE PROPERTY OF THE ART (NO. 1).  4. AL HOUT CORP. AT 10 INCIDENCE AND STATE PROPERTY OF THE ART (NO. 1).  4. AL HOUT CORP. AT 10 INCIDENCE AND STATE PROPERTY OF PROPERTY OF THE ART (NO. 1).  5. DATE STUDBED 16. DATE T.D. REACHES 17. DATE CORPT. (RESORD TO PROPERTY OF POOL OF THE ART OF THE CONTINUE OF THE ART OF THE CONTINUE OF THE ART OF THE CONTINUE OF THE ART OF THE CONTINUE OF	2. NAME OF OPER	ATOR				·····	٠,٠	7/17	Sec. 4.	·	_ Chalk	: Blu	uff Federal Com
P. O. BOX 7698, Tyler, Texas 75711  1. LOCATORS OF WALL (Reput Totaliton clearly and in accordance with any State requirementation and Part 1. State 1. State 2250   FML & 790   FSL  At tools of wall (Reput Totaliton clearly and in accordance with any State requirementation and Part 1. State			Compa	ny 🗸			1100	$\sum_{ij}$	23	1992	<b>f</b> }	*	
4. LOUSTON OF WILL (REPORT Insentine clearly and in accordance with any State requirementation.)  At 1 top prod. internal reported below  At 1 top prod. internal reported below  At 1 top prod. internal reported below  At 1 top prod. internal reported below  At 1 top prod. internal reported below  At 1 top prod. internal reported below  At 1 top prod. internal reported below  AT 1 #30-015-2 5575  APP #30-015-2 5575  APP #30-015-2 5575  BRIGHY  N.M.  12/22/90 1/29/91 3/07/91 30/7/91 IN EXECUTION (FOR PROD. 10) 100 110 110 110 110 110 110 110 110			m1	on Mo	7	E711	10.	• •		_			
At long prod. Interval reported below  At long depth Same	4. LOCATION OF W	KLL (Report	lucation of	early and in	accordance	ce with a	u State reani	rem <b>a</b> il	<u>0. C. I</u>	). ******	l .		_
At total depth Same    11. Pearly No.									educas.	.,	11. SEC., T.,	H., M.,	
14. PERMIT NO.   DATE HANKED   12. COUNTY OF PASSIN   13. STATE PASSIN   14. PERMIT NO.   12. COUNTY OF PASSIN   13. STATE PASSIN   14. DATE SPUDDED   16. DATE TO. REACHED   17. DATE COUNTY COUNTY (DIFFIC COUNTY (DIFFIC COUNTY OF PASSIN   14. SELECTION (DIFFIC COUNTY (DIFFIC COUNTY OF PASSIN   15. SELECT OR NAME (DIFFIC COUNTY OF PASSIN OF PASSIN OF PASSIN OF PASSIN   15. SELECT OR NAME (DIFFIC COUNTY OF PASSIN	At top prod. is	nterval repo	rted below								}		9¢ p37
API #30-015-2 6575   Eddy   N.M.	At total depth	Same	<b>:</b>								Sec.	T1.T	.05-r2/
15. DATE SPEEDED   16. DATE TO. MEACHED   17. DATE COMPL. (Result to prior)   18. SLEVATIONS (UP., REG. I.T. O. REC.)   19. HAV., CASHNOLIBLE   12/22/90   1/29/91   3/07/91   KB 3625¹, CM 3609¹   10,120′   10,079¹   KB 3625¹, CM 3609¹   10,120′   10,079¹   10,079²												OR	13, STATE
12/22/90								5575	)				N.M.
10, 120'				,		(Ready !	o prod.) 18	. ELRV	ATRONG (	», кк	, нт, бв, ктс.) •	19.	
10,120' 10,079' 100 MARY 101,120 MINIARD W X  NAME PRODUCTION   PRODUCTION METRICO   PRODUCTI						·	F	CB 30					
15.   PRINCE   15.		ATVD			2 מעד	2. 1P MU HOW 8	TIPLE COMPL.	,			r	)I.B	CABLE TOOLS
9936-46', 9964-67' - MOYYOW  YES  13. THE ELECTRIC AND OTHER LOSS HIN  SDL-DSN, DLL-MSFI, DILL  CASING RECORD (Report all strings set in well)  CASING RECORD (Report all strings set in well)  CASING RECORD (Report all strings set in well)  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  None  None  1. LINER RECORD  LINER RECORD  LINER RECORD  SIZE  TOP (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT SQUEEZE ETC.  DEFTH INTERVAL (MD)  AMOUNT AND KIND OF MATERIAL USED  SACTIONS OF TABLE SACKS CEMENT'S SCREEN (MD)  SACTIONS OF TABLE SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT SQUEEZE ETC.  DESTRICTION  SACTIONS OF TABLE SACKS CEMENT'S SCREEN (MD)  SACKS CEMENT SQUEEZE ETC.  DESTRICTION  SACTIONS OF TABLE SACKS CEMENT SQUEEZE ETC.  SACTIONS OF TABLE SACKS CEMENT SQUEEZE ETC.  SACTIONS OF TABLE SACKS CEMENT SQUEEZE ETC.  SACTIONS OF TABLE SACTIONS OF TABLE SACKS CEMENT SQUEEZE ETC.  SACTIONS OF TABLE					<u> </u>	<del></del>				<del>-&gt;</del>	X	<del></del>	
SDL-DSN, DLL-MSFL, DILL  CASHNO BIRE WEIGHT, LB/FT. DEPTH BET (ND)  1.3-3/8" 54.50# 400" 17-1/2" 425 - Circ None 9-5/8" 36# 2604" 12-1/4" 1025 - Circ None None  9-5/8" 36# 2604" 12-1/4" 1025 - Circ None None  9. LINER RECORD 8-3/4" 1350 - Circ None 9. LINER RECORD 8-3/4" 1350 - Circ None 1.7" 9051' 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805' 9805' 9805'  1. PERFORATION RECORD 10119' 175 2-3/8" 9805'						, NAME (	*(07T GNA DM					2	
SDL-DSN, DLL-MSFL, DILL  CASING RECORD (Report all strings set in well)  13-3/8" 54.50# 400" 17-1/2" 425 - Circ None  9-5/8" 36# 2604" 12-1/4" 1025 - Circ None  9-5/8" 36# 2604" 12-1/4" 1025 - Circ None  9-8  LINER RECORD SOTTON (MD) SOTTON (MD) SOTTON (MD) SACKS CEMENT* SCREEN (MD) SIZE OFFR SET (MD) FACKER SET (MD)  4-1/2" 9051" 10119" 175 2-3/8" 9805" 9805"  1. PERFORATION RECORD (Interpul, size and number)  9936-46", 9964-67" 9936-67" 9936-67" 9000 qals Mod-101 acid + 1000 S bbl N2 + 50 ball seplers, Flush  13", 2 SPF, Total 28  PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and lyps of pump) Well, syntal Uses  3/11/91 NOURS TESTED SHOWN, FROM COLOR (Flowing) OIL—BBL. GAS—MCV. WATES—BBL. OIL GRAVITY-AFI (608L)  1. DISPOSITION OF OAS (Sold, used for fuel, venied, cic.)  SOLD  LINER RECORD 30. TUBING RECORD NONE  PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and lyps of pump) Well, syntal Uses  3/11/91 NOURS TESTED SHOWN, FOR SIZE PROOPN, FOR OIL—BBL. GAS—MCV. WATES—BBL. OIL GRAVITY-AFI (608L)  AND THE WATES—BBL. OIL GRAVITY-AFI (608L)  LIST OF ATTACHMENTS  LOSS COLD  LINER RECORD AOON TITLE ENGINE OF AFTE WITHOUT FOR AFI (608L)  APR 1998  APR 1998  APR 3/18/91		•		MOLL									Yes
CASING RECOILD (Report all strings act in well)  CASING RECOILD (Report all strings act in well)  CASING RECOILD (Report all strings act in well)  13-3/8" 54.50# 400' 17-1/2" 425 - Circ None  9-5/8" 36# 2604' 12-1/4" 1025 - Circ None  None  None  9. LINER RECORD  SIZE TOP (MD) BOTTOM (MD) BACKS CEMENT* SCREEN (MD) SIZE OFFIR SET (MD) FACKER SET (MD)  4-1/2" 9051' 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD (Interval, size and number)  9936-46', 9964-67'  1. PERFORATION SECOND (Interval, size and number)  9936-46', 9964-67'  13', 2 SPF, Total 28  PRODUCTION SCF/bbl N2												27. W	AN WELL CORRD
CABINO SIZE	SDL-DSN,	DLL-M	SFL,	OILL									No
13-3/8"   54.50#   400"   17-1/2"   425 - Circ   None   9-5/8"   36#   2604   12-1/4"   1025 - Circ   None   None   None   7"   26# & 29#   9450   8-3/4"   1350 - Circ   None	,6,							set in					
9-5/8" 36# 2604 12-1/4" 1025 - Circ None  None  126# & 29# 9450 1 8-3/4" 1350 - Circ None  1360 - Circ None  1360 - Circ None  1370 - Circ	***************************************					_			CES	ENTIN	d RECORD		AMOUNT PULLED
THE PROPERTIES PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  The of that is a state of that page is a state of the pumping—size and type of pump)  The of that is a state of the pumping—size and state of the pump			-	_l									None
S. LINER RECORD  SIZE TOP (ND) SOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE OFFH BET (MD) PACKER SET (MD)  4-1/2" 9051' 10119' 175 2-3/R" 9805' 9805'  1. PERFORATION RECORD (Internal, size and number)  936-46', 9964-67' 9964-67'  13', 2 SPF, Total 28  936-67' 3000 gals Mod-101 acid + 1000 S  bbl N2 + 50 ball sealers, Flush  W/35 bbls 28 KGL Water + 1000  SCF/bbl N2.  TEST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  AND TEST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  AND TEST PRODUCTION PRODUCTION SCF/bbl N2.  TEST PRACTICAL TEST CHOKE SIZE PROON. FOR OIL—BBL. GAS—MCF. WATER—BBL. GAS—MCF. WATER—BBL. GAS—MCF. WATER—BBL. GAS—MCF. WATER—BBL. OIL GRAVINT-API (CORR.)  1. DISPOSITION OF OAS (Sold, used for fuel, venicd, cic.)  TOSS CORPTED TOR RECORD  TOST OF TAX PRACTICAL TEST CORPTED TOR RECORD  SCF/bbl N2.  TEST WITH BASED BY  WATER—BBL. OIL GRAVINT-API (CORR.)  COMPTION PARCELLATED CHOKE SIZE 1 886 0 SES CORPTED TOR RECORD  TO STANDARD THE PROOF OF THE STAND OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVINT-API (CORR.)  COMPTION OF OAS (Sold, used for fuel, venicd, cic.)  TO DEFORITION OF OAS (Sold, used for fuel, venicd, cic.)  TO DEFORM TOWN OF OAS (Sold, used for fuel, venicd, cic.)  Thereby Scrifty that the foregoing and attached information is complete and correct as determined from all as allable records APR 1994  APR 1994  APR 1994  APR 1994  APR 1994  APR 2.  ACID, SHOT. FRACTURE (MD)  AMOUNT AND RECORD AND ARCHER SET (MD)  ACID STANDARD AND AND ARCHER SET (MD)  ARCHER SET (MD)  ARCHER SET (MD)  ARCHER SET (MD)													None
SIZE TOP (MD) SOTTOM (MD) SACKS CEMENT* SCREEN (MD)  4-1/2" 9051' 10119' 175 2-3/8" 9805' 9805'  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  1. PERPORATION RECORD (Interval, size and number)  22. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  1. PERPORATION RECORD (INTERVAL (MD)  23. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  1. PERPORATION RECORD (INTERVAL (MD)  24. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  1. PERPORATION RECORD (INTERVAL (MD)  24. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  1. PERPORATION RECORD (MD)  25. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  1. PERPORATION RECORD (MD)  26. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  1. PERPORATION RECORD (MD)  26. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  1. PERPORATION RECORD (MD)  26. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  1. PERPORATION RECORD (MD)  26. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  27. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  28. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  2936-67'  2000 qals Mod-101 acid + 1000 Scrept a		_ 20#	& 29‡	94	150'	8-	3/4"	1	350 ·	- Ci	rc		None
4-1/2" 9051' 10119' 175 2-3/8" 9805' 9805'  1. PERFORATION RECORD (Interval, size and number) 936-46', 9964-67' 13', 2 SPF, Total 28  PRODUCTION  PROD	29.	<u> </u>	LINE	R RECORD	•	1		<u></u>	30.		TUBING REC	ORD	
4-1/2" 9051 10119 175 2-3/8" 9805 1 9805 1  1. PERFORMATION RECORD (Interval, size and number)  9936-46', 9964-67'  13', 2 SPF, Total 28  PRODUCTION  32. ACID. SHOT. FRACTURE, CEMENT SQUEEZE, ETC.  9936-67' 3000 gals Mod-101 acid + 1000 S  bbl N2 + 50 ball. scalers, Flush  W/35 bbls 28 Kdf. water + 1000  SCF/bbl N2.  3000 gals Mod-101 acid + 1000 S  3000 gals Mod-101 acid + 1000 S  SCF/bbl N2.  3000 gals Mod-101 acid + 1000 S  SCF/b	n:ZE	TOP (MD	) BOT	том (мр)	SACKE C	EMENT*	SCREEN (MI	)	SIZE		OEPTH BET (M	(B)	PACKER AST (MD)
9936-46', 9964-67'  13', 2 SPF, Total 28  PRODUCTION  SCF/bbl N2.  PRODUCTION  FILE PRAT PRODUCTION  FILE OF TEST  3/11/91  24 hrs  8/64"  CALICULATED  24-100's RATE  PRODUCT REST RESTOR OIL—BBL.  GAS—MCF. WATER—BBL. OF DIL GRAVITY-API (COSE.)  1 886  0 896:1 CTI  CALCULATED  24-100's RATE  1 886  0 158  CAST WITNBASED RY  SOLID  LOGS  1 DEFEND TO REGORD  SIGNED  SIGNED  TEST WITNBASED RY  APR 1999  APR 1999  APR 3/18/91	4-1/2"	9051	' Lo	119'	17	7.5		-	2-3,	<u> </u>	98051		
DEPTH INTERVAL (MD)  AMOUNT AND KIND OF MATERIAL USED  9936-67 3000 qals Mod-101 acid + 1000 S  bbl N2 + 50 ball sealers, Flush  W/35 bbls 28 KCL water + 1000  SCF/bbl N2.  3.*  PRODUCTION  Flowing  Flowing  Flowing  Flowing  Flowing  AMILIARY  Flowing  Flowing  Flowing  AMILIARY  FROM PROBLETION METHOD (Flowing, gas lift, pumping—size and type of pump)  WELL STATUS (Producing of the shift)  AMILIARY  FROM TEST FRANCE  WATER—BBL. (APPIL RATIO)  AMOUNT AND KIND OF MATERIAL USED  Bbl N2 + 50 ball sealers, Flush  W/35 bbls 28 KCL water + 1000  SCF/bbl N2.  31  FLOWING  FLOWING  FLOWING  FLOWING  FLOWING  AMILIARY  FROM TEST FRANCE  WATER—BBL. (APPIL RATIO)  1016 deavity-api (cost.)  Sold  List of ATTACHMENTS  LOGS  TEST WITNBARED BY  W.  SIGNED  MATER—ABLL OIL deavity-api (cost.)  TEST WITNBARED BY  W.  SIGNED  MATER—ABLL OIL deavity-api (cost.)  TEST WITNBARED BY  W.  SIGNED  MATER—BBL. (Cost.)  TEST WITNBARED BY  W.  SSS  APR 1991  SIGNED  MATER—ABIADI  TEST WITNBARED BY  W.  DAFE 3/18/91	31. PERFORATION RE	CORD (Inter	val, size an	d number)	!		1 42	101	n suom	 	Park Park - Annual - Annual - Annual - Annual - Annual - Annual - Annual - Annual - Annual - Annual - Annual -		
9936-67 3000 qals Mod-101 acid + 1000 s bbl N2 + 50 ball sealers, Flush W/35 bbls 28 KcL water + 1000  SCF/bbl N2.  PRODUCTION  FROM THE PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  Flowing 3/11/91 24 hrs 8/64"  Flowing  WATER—BBL. USE NATION  PRODUCTION  FROM TUBING PRESSURE CALCULATED OIL—BBL. GAS—MCF. WATER—BBL. USEPIL RATION  OW. TUBING PRESS. CABING PRESSURE CALCULATED OIL—BBL. GAS—MCF. WATER—BBL. USEPIL RATION  1. DISPOSITION OF OAS (Sold, used for fuel, vented, ctc.)  Sold  LIST OF ATTACHMENTS  LOGS  I hereby tertify that the foregoing and attached information is complete and correct as determined from all as allabit records APR 1991  SIGNED ATTACHMENTS  Figure Option Secretary  TITLE Fingr. Optins. Secretary  DAFE 3/18/91				•							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Dol N2 + 50 ball sealers, Flush  w/35 bbls 28 Ket water + 1000  SCF/bbl N2.  PRODUCTION  P							1		(MD)				
PRODUCTION  PRODUC	, –	,					3330-0	1		300	u qais Moo	<u>1-10.</u>	<u>l acid + 1000</u> s
PRODUCTION  PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  Flowing  Flowing  PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  Flowing  Producing of anti-in)  Prod								·		DDT	N2 + 50 I	yarr.	sealers, Flush
PRODUCTION  PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  Flowing  Flowing  Producing of Producing										SCE.	/hh1 N2	NUL	wager + 1000
Flowing  Flo	3.*			· · · · · · · · · · · · · · · · · · ·					··		ALLI IVE		<del></del>
THE OF TEST HOURS TESTED CHOKE SIZE PROOFN. FOR OIL—BBL. GAS—MCF. WATER—BBL., USEDIL RATIO 3/11/91 24 hrs 8/64" TEST PERIOD 1 886 0 86:1 [7]  OW. TUBING PRESS. CABING PRESSURE CALCULATED CILC—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (COM.)  1600# 1 886 0 FEST WITNBASED BY  Sold  LIEST OF ATTACHMENTS  LOGS  I hereby (exilly that the foregoing and attached information is complete and correct as determined from all available records APR 1991  SIGNED AUGMAN TITLE Engr. Optns. Secretary DAFE 3/18/91	ATE PIRST PRODUCT	ION	PRODUCTION	METHOD (	Flowing, g	as lift, pu	impingsize a	nd ty	pe of pum	p)			
3/11/91 24 hrs 8/64"    Sold			~		Fl	owing					1 ****		roducinos
AW. TUBING PRESS. CABING PRESSURE CALCULATED OIL BBIL. GAS—MCF. WATER—BBL. OIL GRAVITY-AFI (COM.)  1600#  1 886  1 886  1 TEST WITNESSED BY  LOGS  1 I bereby that the foreseing and attached information is complete and correct as determined from all available records APR 1991  SIGNED MATTER—BBL. OIL GRAVITY-AFI (COM.)  TEST WITNESSED BY  APR 1991  SIGNED MATTER—BBL. OIL GRAVITY-AFI (COM.)  TEST WITNESSED BY  APR 1991  APR 3/18/91		1	1		PROD'I	N. FGR PERIOD	01L—886.		GAS-MC	<b>»</b> .	WATER-BEL		
1600#  1 886  1 Sold  1 LIBT OF ATTACHMENTS  1 LOGS  1 bereby that the forgseing and attached information is complete and correct as determined from all available records  APR 1991  SIGNED MATER—HBL. OIL GRAVITY-API (COM.)  1 B86  0 TEST WITNESSED BY  APR 1991  APR 3/18/91		1	<del></del>	·	<u> </u>	<b>&gt;</b>	1		886		0	. 🔻	886:1 m
Sold  Sold  Logs  I hereby that the forgon and attached information is complete and correct as determined from all available records  APR 1991  SIGNED MATTER TOP ATTACHMENTS  APR 1991  SIGNED MATTER TOP ATTACHMENTS  APR 1991		CABING PR		'ALCULATED  4-HOUR BAT	(1### 	861	GASR	CF.		WATER	ABL.	OIL as	RAVITY-API (COME.)
Sold  Logs  I hereby that the foregoing and attached information is complete and correct as determined from all available records  APR   1991  SIGNED   Mark 3/18/91		in (Sald as	12 42 4 4 4	<del></del>	_		88	36			0 1	் <sup>'</sup> 58	<u>•</u>
List of Attachments  Logs  Togs  Thereby (exilty that the foreseing and attached information is complete and correct as determined from all available records APR   1991  SIGNED (LIST OF ATTACHMENTS)  ACC PIED FOR RECORD  APR   1991  TITLE Engr. Oprns. Secretary  DAFE 3/18/91		no javil, 166	ed for juel,	venica, ele.)							TEST WITHE	##0 #1	f
Logs Thereby (exilty that the foregoing and attached information is complete and correct as determined from all available records APR   1991  SIGNED / MAPR   1991  TITLE Engr. Oprns. Secretary DAFE 3/18/91		MENTA		······································		······································							LEAD DECADA
signed Mark Title Engr. Oprns. Secretary DARE 3/18/91											AU	714	I LAM MEGOVA
SIGNED APR 1998 SIGNED APR 1998  APR 1998  APR 3/18/91	1 hereby certify	that the for	repolng and	attached in	formation	is compl	ete and correc	t an c	letermlne	d from	all available re		. 1001
*(See Instructions and Spaces for Additional Data on Reverse Side) CARL SRAD NEW MEXICO	(X/r.	find	The	mpin								APR	
	10	•	(See Insti	vetions ar	d Space	s for A	dditional D	ata o	n Revei	se Sid	e) CARI	SRAI	D. NEW MEXICO

ower Morita 9936 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9967 <sup>1</sup>				
Treso.	9967	DESCRIPTION, CONTENTS, ETC.			
33 NOT NOT NOT NOT NOT NOT NOT NOT NOT NOT	1 [886]	Sandstone	NAME	MEAS, DEPTH	TRUE VERT. DEPTH
		Sandstone	Yates	424"	
- · · · ·		· ·	Queen	1138	
			Grayburg	1484	
			San Andres	19261	
-			Glorietta	34581	
-			Tubb	4451	
			Drinkard	.5376"	
			Abo		
			Wolfcamp	6420	÷1 .
		***************************************	Cisco	. 7666	,
•			Canyon	8368	ij.
-			Strawn	8844*	. 6
-			Morrow	94541	
· .			Morrow Clastids	97701	
			Barnett	100161	
		-			
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Appropriate District Office
DISTRICT 1
P.O. Box 1980, Hobbs, NM 88240

#### State of New Mexico Energy, Minerals and Natural Resources Department

DISTRICT II		OIL	CONS				IVISI	ON		_	
P.O. Drawer DD, Artesia, NM 88210		Sa	inta Fe	New N	Box 20: Vexico		4-2088				
DISTRICT III 1000 Rio Brazon Rd., Aztec, NM 87410	REQU	UEST F	OR AI	LLOWA	BLEA	ND A	UTHOF	RIZATION	ı		
I. Operator		TO THA	INSP	ORTO	IL ANL	NAT	URALC		I API No.	•	
MEWBOURNE OIL COM	IPANY 🗸	<i></i>						1 -	-015-26	5575	
Address P. O. Box 7698, 1		Texas	757	11							
Resson(s) for Filing (Check proper box)	)	~ .				Othe	(Please exp	plain)	······································		
Recompletion	Oil	Change in	Dry Ca	7							
Change in Operator	Casinghea		Conden	-							
If change of operator give name and address of previous operator											
II. DESCRIPTION OF WELL	L AND LE										•
CHALK BLUFF FEDER	AL	Well No.	Pool No	ime, lacius	ling Form	Comm	Morro	Kind	t of Lesso		Lette No.
Location	.՝ 22	50				Cang	79		K Federal og R	<u> </u>	4-0557371
UNK LEGET	— :———— nip 18 Sc	1 7.	Feet Fre	om The	East	_ Line	and	<u>.                                    </u>	Feet From The .		ath line
1000						, NM	PM,	· · · · · · · · · · · · · · · · · · ·	Eddy		County
III. DESIGNATION OF TRAI	NSPORTE	R OF OI	L ANI	D NATU	RAL C	AS					
Name of Authorized Transporter of Oil Amoco Pipeline Inter- corporate Trucking Name of Authorized Transporter of Casis	- 🗆	or Conden			011	'i'end	er Dep	$t_{\bullet}Box$ 70	d copy of this f 02068 , Tu]	sa,OK	741.70-2068
Transwestern Pipeline If well produces oil or liquids,	Company	<u> </u>		O44 (X)	P.O.	Box	1188, I	dick approved louston	d copy of this f Texas	7251-1	. 188
give location of tanks.	Unit I		Тир. 18S	1 Rge.	is gas a	ctually o Ye	connected? S	When		, 1991	,
If this production is commingled with that IV. COMPLETION DATA	from any other	ericase or p	ool, give	comming	ling order	number	<u> </u>	Wo	124103	, 1771	
Designate Type of Completion	- (X)	Oil Well	10	as Well X	New \		Workover	Deepea	Plug Back	Samo Res'	Diff Res'v
Date Spudded 12/22/90	Date Compl			·····	Total De	•			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.) KB 3625*, GR 3609*	Name of Pro		mation	······································	Top Cit/		10,120'	······································	Tubing Dept	10,079	
Perforations		Morrow	1		<u> </u>		99361			9,805	
9936-46', 9964-67',				<del></del>					Depth Caring	Shoe	
HOLE SIZE		NG & TUB			CEME		RECOR	D	1 6	AOVO 051	APPROVE
17-1/2"		13-3/	8"				400	<del></del>	3	ACKS CER 425	Per TO 3
12 <del>-</del> 1/4" 8-3/3"		9-5/1	8"				2604			1025	5-12-91
711		41 /	2" Li	nor		··	9450' 10119'		ļ	1350	comp & BK
V. TEST DATA AND REQUES OIL WELL Test must be after re	T FOR AL	<b>LOWA</b>	3LE						1	175	
	Date of Test	i volume of	load oil	and must	be equal s Producing	Melho	eed top allo 4 (Flow, pu	wable for this mp, gas lift, e	depth or be fo tc.)	r full 24 ho	urs.)
Length of Test	Tubing Press	ure			Casing Pr	casure			Choke Size		
Actual Prod. During Test	Oil - Bbls.	······································	<del></del>		Water - B	bis.	Promote		Gas- MCF	_	
GAS WELL		···			·····						
Actual Prod. Test - MCF/D	Longth of Tes	4	·		Bbls, Con	denante	MACE		Constanting		
886		24 hour				1			Gravity of Co. 58		
osting Method (pitot, back pr.) Back Pressure	Tubing Pressu	ino (Shus-ia) 500#	ı	ſ	Casing Pro	seure (	shut-in)		Choke Size	/c a II	
I. OPERATOR CERTIFICA			ANC	E		·····	···		6/	64"	
I hereby certify that the rules and regular Division have been complied with and the	ions of the Oil	Conservation	-			OIL	.CON	SERVA	TION D	IVISIC	N
is true had complete to the best of my tra	owledge and b	ellef,	/		Da	te Ap	proved		MAY 1 6	1991	
Signature Signature	nps	<i></i>			Ву		ORIGI	INAL SIG	NED BY		
Gaylon Thompson, Enging Prints Name	séring O	peratio			-,		MIKE	WILLIAM	S	**	
March 11, 1991 (90	3) 561-	าก 2900	16		Titl	9	SUPE	KVISOR,	DISTRICT	17	
Data		Telephor	se No.					teets on a	· fe to company a tombushion		

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 tabulated. Request for anowable for newly crimed or deepened wen must be accompanied by with Rule 111.
 All sections of this form must be filled out for allowable on new and recompleted.
 Fill out only Sections I, II, III, and VI for changes of operator, well name or another.
 Separate Form C-104 must be filed for each pool in multiply completed wells.



-

•	•				COMMISS.	CISF
Form 3160-5 (June 1990)	DEPARTMEN	TED STATES IT OF THE INT LAND MANAGI		prawe Arte	5. Lease Designation and Serial No.	3
Do not use this follows:	SUNDRY NOTICES orm for proposals to dr Jse "APPLICATION FO	ill or to deepen	or reentry to a different	reservoir.	NM055737] 6. If Indian, Allomor or Tribe Name	1
	SUBMIT	IN TRIPLICAT	Έ		7. If Unit or CA, Agreement Design	ution
i. Type of Weli Oil Gas Weli Weli	Other			·/	8. Well Name and No. Chalk Bluff Fed.	
2. Name of Operator  Mewbourne 0i  3. Address and Telephone 1	1 Company				9. API Well No. 30-015-26575	John Williams
P.O. Box 527 4. Location of Well (Foots) 2250' FWL & Sec. 1-T18S-	O Hobbs, New Mex ge. Sec., T., R., M., or Survey D 790' FSL R27E	escription)	(505) 393-5905		N. Illinois Camp II. County or Parish, State  Eddy Co., N.M.	
12. CHECK	APPROPRIATE BOX(	s) TO INDICAT			RT, OR OTHER DATA	······
TYPE OF	SUBMISSION		TYPE (	OF ACTION		
Notice of	of [mane		Abandonment Recompletion		Change of Mans New Coastruction	
Subsequ	eni Report		Plugging Back Casing Repair		Non-Routine Fracturing Water Shut-Off	
Final Al	bandonment Notice		Altering Casing Other		Conversion to Injection Dispose Water (Nose: Report results of multiple completion or Recompletion Report and I	on on Well Log form.)
give subsurface loca	itions and measured and true verus	at debute tot ma marker	s and colors permanent to dam a visit		any proposed work. If well is directions	ily drilled,
with plug m - Spot 17 sx Spot 17 sx Cut off and - Spot 8 sx.		lug @ 2650'. lug @ 450'.	existing CIBP @ 70	010 . C	irculate note	
- Clean locat	tion.		RECE	eive		
			AUG	1 8 1995	2 18	ភ្លះ (ម រៈ
			OIL CO	on. D st. 2	IV.	(1) (1) (1) (1)

14. I hereby ceptify that the fortgoing Engineer Title Approved by Chig Signed by Shannon J. Shaw Conditions of approval, if any (This space for Federal or State office use) Date 8/14/95 PETROLEUM ENGINEER Tide

Fig. 14 U.S.C. Secure 1913 miles it a commend to any person has a negly and withhigh make meany impartment or sports of the United States any false, fictious or fraudulent statement or as to associate measure within the son 1.00 miles.

OCD - Artesin

Form 3160-5 (June 1990)

3305

Signed

(This space for Fe

Approved by CONG. S Conditions of approval, if any:

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

eral or State office use)

. FED STATES DEPARTMENT OF THE INTERIOR FORM APPROVED

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

**BUREAU OF LAND MANAGEMENT** 5. Lease Designation and Serial No. NM-0557371 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name 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 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well Oil Well Gas X Other 8. Well Name and No. 2. Name of Operator Chalk Bluff Federal Comm #1 Mewbourne Oil Com[any 9. API Well No. 3. Address and Telephone No. 30-015-26575 PO Box 5270, Hobbs, NM 505-393-5905 10. Field and Poot, or Exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) N. Illinois Camp Morrow 11. County or Parish, State 790' FSL & 2250' FWL, Sec.1 T-18S R-27E Eddy, NM CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion New Construction Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection Other Extend T/A & CIT. Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log (orn.) Describe Proposed or Completed Operations (Clearly state all pertinet 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 markders 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 perfs @ 7010'. We are considering converting this well into a SWD. At this time, Mewbourne would like to schelude a CIT (500 psi) & after passing, extend T/A status for an additional time. If any question, please call.

's 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 ements or representations as to any matter within its jurisdiction.

N.M. Young

Title

District Manager

Company Company

10/06/00

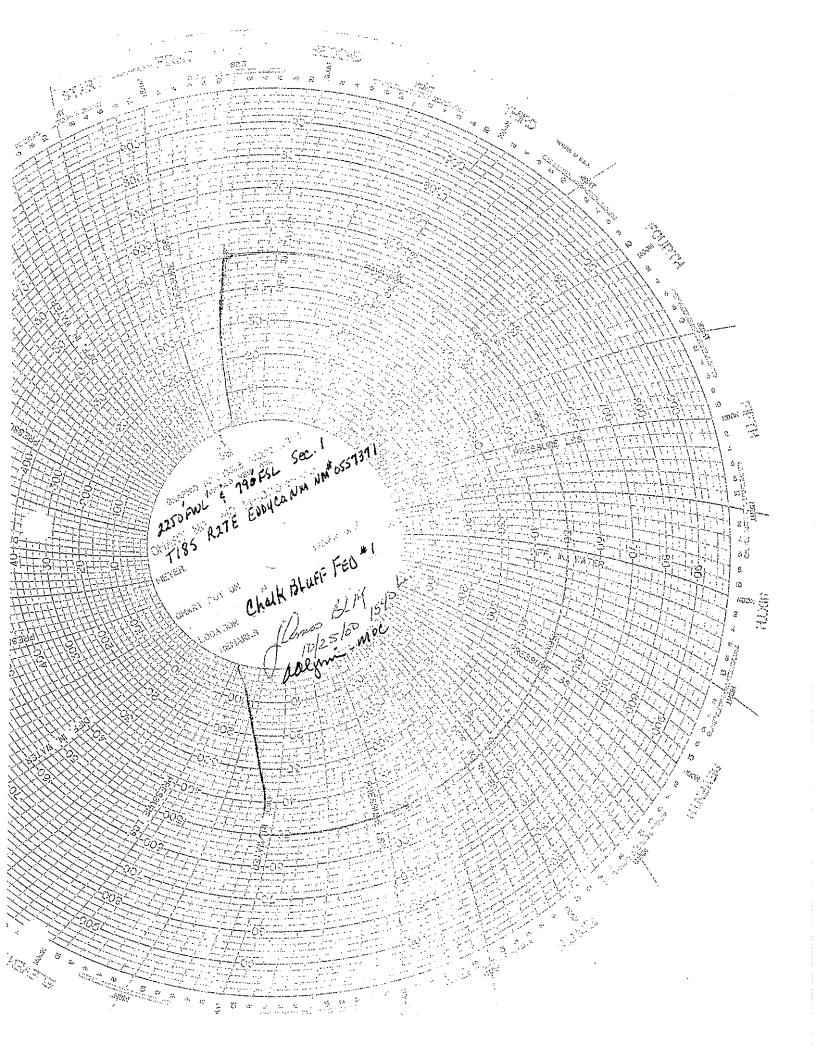
Form 3160-5 (June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

N.M. C., Cons. Division
811 S. 1st Street Budget Bureau No. 1004-0135
Expires: March 31, 1993
Artesia, NM 882 10-2834 tion and Serial No.

<b>D</b>			NM-0557371
טט מכי	ot use this form for proposals to drill	ND REPORTS ON WELLS  or to deepen or reentry to a different reservoir PERMIT-" for such proposals	B Mindian Bulletin Till At
	SUBMIT IN	I TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Туре			-
	Oil Gas Well ⊠ Other		8. Well Name and No.
2. Name	e of Operator		Chalk Bluff Federal Comm #1
	bourne Oil Com[any		9. API Well No.
	ess and Telephone No.		30-015-26575
	Box 5270, Hobbs, NM 505-393-5905 ion of Well (Footage, Sec., T., R., M., or Survey Descri		10. Field and Pool, or Exploratory Area
4. COOM:	notice well (rootage, Sec., 1., K., W., or Survey Descri	otion)	N. Illinois Camp Morrow
790'	FSL & 2250' FWL, Sec.1 T-18S R-27E		11. County or Parish, State
12.	CUECK ARRESPIATE POY 1		Eddy, NM
14.		O INDICATE NATURE OF NOTICE, REPORT,	OR OTHER DATA
was the section of th	TYPE OF SUBMISSION	TYPE OF ACTION	
	Notice of Intent	Abandonment	Change of Plans
	٠	Recompletion	New Construction
	Subsequent Report	Plugging Back	Non-Routine Fracturing
	Final Abandonment Notice	Casing Repeir	Water Shut-Off
	() Final Abandonment Notice	Attering Casing	Conversion to Injection
		ズ Other <u>MIT</u>	Dispose Water (Note: Report results of multiple completion on West Completion or Recompletion Report and Log form.)
The	above caption well was successfully MIT'ed pressure chart is enclosed. y question, please call.	•	
		NOV 1 5 2000  BLM	RECEIVED COLORD OCD - ARTESIA

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



# UNITED STATES

A	rtesia, NM APROVED
	Budger Bureau No. 1004-0135
	Expires: March 31, 1993

NM OIL CONS COMMISSION

Drawer DD

Form 3100-3 (June 1990)		IT OF THE INTERIOR	Budget Bureau No. 1004-0135 Expires: March 31, 1993	
	BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No.	
Do not use	this form for proposals to dr	AND REPORTS ON WELLS  ill or to deepen or reentry to a different reservoir.  R PERMIT—" for such proposals	NM-0557371 6. If Indian, Allottee or Tribe Name	
	SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation	
I. Type of Well Oil Well	Gas Other	FER 2 1 1994	8. Well Name and No.	
2. Name of Opera			Chalk Bluff Fed. Com.	#1
	rne Oil Company		9. API Well No. 30-015-26575	
3. Address and Te P.O. Bo 4. Location of We	OX 5270 Hobbs, New Me off (Footage, Sec., T., R., M., or Survey D	exico 88241 (505) 393-5905	10. Field and Pool, or Exploratory Area N. Illinois Camp	
	FWL & 790' FSL -T18S-R27E		11. County or Parish, State  Eddy Co., N.M.	
12. CH	IECK APPROPRIATE BOX(	s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TY	PE OF SUBMISSION	TYPE OF ACTION		
	Notice of Intent	Abandonment Recompletion	Change of Plans New Construction	
	Subsequent Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off	
	Final Abandonment Notice	Altering Casing Other Shut-In-Status	Conversion to Injection  Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
Describe Propo give subsu	sed or Completed Operations (Clearly state a urface locations and measured and true vertice	ll pertinent details, and give pertinent dates, including estimated date of starting sal depths for all markers and zones pertinent to this work.)*		
Mewbo	urne Oil Company here	by requests temporarily abandon statu	s pending further	
evalu.	ation of the lease for	the above well. The well was spudde	d 12/22/90.	
··			200 200 200 200	
	•	APPROVED FOR 12 MONTH PER	C'. 4[]	
•		ENDING 1/25/95		

14. I hereby certify that Tide Petroleum Engineer Signed (This space for Federal or State office use)

Approved b(ORIG SGD.) JOE G. LANA Title

Take 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 frandulent statements or representations as to any matter within its jurisdiction.

درني ساکس

	THE OTHER	CLES. COMMISSION ASP
<del></del>	Drawer	105
Form 31503 EVED UNITED STATES	Artosia	NET PROM APPROVED Budget Bureau No. 1004-0135
(June 1990) DEPARTMENT OF THE INTERIO	R	Expires: March 31, 1993
DEPARTMENT OF THE INTERIO  BUREAU OF LAND MANAGEMEN  SUMDRY NOTICES AND REPORTS ON	NT	5. Lease Designation and Serial No.
12 11 23. 21		NM-0557371
		6. If Indian, Allottee or Tribe Name
Do not use this form for proposals to drill or to deepen or re- Use "APPLICATION FOR PERMIT—" for suc	h proposals	•
SUBMIT IN TRIPLICATE	NEXTER	7. If Unit or CA, Agreement Designation
I. Type of Well  Oil Well Well Other	NOV 1 7 1993	8. Well Name and No.
2. Name of Operator	Q, C, D,	Chalk Bluff Fed. Comm. #
Mewbourne Oil Company 🗸	" Marie Committee of th	9. API Well No.
3. Address and Telephone No.		30-015-26575
	5) 393-5905	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		N. Illinois Camp
00501 541 0 7001 561 56 Co. 1 T100 0075		11. County or Parish, State
2250' FWL & 790' FSL of Sec. 1-T18S-R27E		Eddy Co. N.M.
		Eddy Co., N.M.
12. CHECK APPROPRIATE BOX(s) TO INDICATE NA	ATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	<b>1</b>
	donment	Change of Plans
1 <u></u>	mpletion	New Construction
X Subsequent Report	ing Back	Non-Routine Fracturing
——————————————————————————————————————	g Repair	Water Shut-Off
! []	ing Casing	Conversion to Injection
LJ Other		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 give subsurface locations and measured and true vertical depths for all markers and zero.	nest pertinent to this work.)*	ing any proposed work. It well is directionally drilled,
* Verbal from Adam Salameh		•
9/10/93 Abandon Morrow formation. Set CIBP @ 9	9800' & cover w/35' cr	ement.
9/11/93 Perforate Cisco from 7826'-7830'. Test	t & evaluate.	
9/12/93 Squeeze Cisco from 7826'-7830' w/600 s	x. Class "C".	
9/15/93 Drill out squeeze perfs. to 7792'. Squ		
9/16/93 Perforate Cisco from 7676'-7678'. Test	t and evaluate.	
9/17/93 Abandon Cisco formation, set CIBP @ 760	00' & cover w/35' ceme	ent.
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 1		st & evaluate.
9/22/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE	from /262'-/2/8'.	-4 814
9/23/93 Set CIBP @ 7208' & perforate Wolfcamp to	from 70501 71021 185	st & evaluate.
9/24/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE 9/25/93 Set CIBP @ 7010'.	Trom 7030 -7102 .	
9/25/93 Set CIBP @ 7010 .		
·		
14. I hereby certify that the foregoing is true and correct		
Signed Roll C. Sold Tide Petro	oleum Engineer	Date 10/05/93
(This space for Federal or State office(pte)		**
	ACCEPTED FOR RECORD	Date
Conditions of approval, if any:	J. Sour	
	NOV 1 5 1002	
		4

\*See Instruction(全国企業的主义)

Mewbourne Oil Company Chulk Bluff Faloral #1 2250 FWL1740' FSL Sec. 1-1186-R27E 7050 EJBPQ 7008' CIBPQ 7394' 2 730 Y CIBPE HOO'W/35' comin! 7676 2 7648' 7830' Squeeze w/600 Sx. Test to 2000" CIBPR 9800' W/35' Cement 9861' 4" @ 10119'

C. 14, 75 July 1, 140.

3160-5

# **UNITED STATES**

FORM APPROVED Budget Bureau No. 1004-0135

1990)	DEPARTMENT OF THI BUREAU OF LAND MA	٠٠٠ -	Expires: March 31, 1993  5. Lease Designation and Serial No.
Do not use this form for	NDRY NOTICES AND REP or proposals to drill or to de	PORTS ON WELLS epen or reentry to a different reservoir.	NM-0557371 6. If Indian, Allottee or Tribe Name
Use "A	SUBMIT IN TRIPE	- PANEWED	7. If Unit or CA, Agreement Designation
2. Name of Operator  Melybourne Oil C.  3. Address and Telephone No.  P.O. Box 5270  4. Location of Well (Footage, Sec.)	Hobbs, New Mexico 88	3241 (505) 393-5905	8. Well Name and No.  Chalk Bluff Fed. Com. #  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.		
TYPE OF SUBM	RT, OR OTHER DATA		
Notice of Intent  Subsequent Repo  Final Abandonme  13. Describe Proposed or Completed 6 give subsurface locations and	ent Notice  Operations (Clearly state all pertinent detai	Abandonment  Abandonment  Recompletion  Plugging Back  Casing Repair  Altering Casing  Other  Other  Is, and give pertinent dates, including estimated date of starting markers and zones pertinent to this work.)*	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water (Note: Reportresults of multiple completion on Well Completion or Recompletion Report and Log form.)  g any proposed work. If well is directionally drilled,
- Se - Re	t CIBP @ 9800' - cov complete in Cisco Fo	er w/35' cement. rmation - Test & evaluate.	wata
- If	unecomomical recomp	lete in Wolfcamp - Test & eval	SEP ZZ 10 us III 193
14. I hereby certify the the foregoing	true and correct	Petroleum Engineer	09/07/93
(This space for Federal or State of	office use)	. 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.

30-015-916595 Oseid-14744 Poopedy- 7896 Pool- 78890

> 3-19-91 DUAL LAT. 2595-9416 2392-2016 DUAL SPACED NEUTRON LOG-9417 8500-10121

3-19-91

DUAL LAT.

2575- 9446

9350 5PACED

HEUTRON

Luf- 9417

8500-15161

NC Tops	DEM	5/14/91
Queen		1140
Grayburg	1430	
San Andres	1975	
Glorieta		3545
Abo		>
wolfcamp	4860	
Aonn		
Strown		
Atoka	9435	
Morrow	9703	

)

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# 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 Eile Coby

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.

эшо	arcıy,	
	Van Barton	
	Field Rep. II	

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

shirleyi@navalo-refining.com (please note the "j" after shirley)

TO:

District II

COMPANY:

Oil Conservation Division

FAX:

505-748-9720

PHONE:

505-748-1283

RE:

Chalk Bluff Federal Com #1

API No. 30-015-26575

#### 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.

Thurley fores

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

District I

1625 N. French Dr., Hobbs, NM 88240

ict II

Jouth First. Artesia. NM 88210

Lastrict 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 Substitution of the final affected wells had beg with 2 copies of this form per number of wells on that list to appropriate District Office

## **Change of Operator**

Previous Operator Information:	New Operates Information:
	Effective Date: 5 October, 2000
OGRID: <u>14744</u>	New Ogrid: 15674
Name: Mewbourne Oil Company	New Name: Navaj Refining Company
Address: P. O. Box 7698	Address: 100 Cooper Court, Occ 1600
Address:	Address: <b>P.o. B</b> 4 / 59
City, State, Zip: Tyler, TX 75711	City, State, Zip: Dallac, PK 75201
	Artesia, NM 88211
form and the attached list of wells is true and complete to the New Operator Signature:	ion have been complied with and that the information on this ne best of my knowledge and belief.
Printed name: Darrell Moore	
Title: Env. Mgr. for Wate	r and Waste
Date: 12/5/00 Phone: 505-7	948-3311
Previous operator complete below:	NMOCD Approval
Previous	4
Operator: Mewbourne Oil Company	Signature: Sem W. Bum
Previous	Printed
	Name: 7.7.
OGRID: 14744	- Juliut signivitor
Signature: Marty Westone	District:
Printed Name:	2000
Monty Whetstone	Date:
27021 - property cod	e - Whalk Bluff Federal Com #1

27021- property code - Whalk Bluff Federal Com #1 30-015-26575-API Humber 1-185-27E

			$-\Delta i \Delta_{\alpha \alpha \alpha \alpha \alpha \beta \beta \beta \beta \gamma \beta \gamma \beta \gamma \beta \gamma \beta \gamma \beta \gamma $	
Form 3160-5 (September 2001)	UNITED STATE	E INTERIOR 1301	Oil Cons. .M. DIV-Dist. W. Grand Av	Expires: January 31, 2004
6(IND	BUREAU OF LAND MA RY NOTICES AND REF lbls form for proposals	NAGEMENT AL	esia, NM 882	Solease Serial No.
Do not use to abandoned v	ky notices and Ref this form for proposals well. Use Form 3160-3 (A	to drill or to re-enter PD) for such proposa	an is.	6. If Indian, Allottee or Tribe Name
1. Type of Well				7. If Unit or CA/Agreement, Name and/or No.
	Other TEMPORARILY	ABANDONED	2345878	8. Well Name and No.
2. Name of Operator		/8	<u> </u>	WDW-3 #3 23592
NAVAJO REFINING COMPA	NY 15694		<b>P</b> (2)	9. API Well No.
3a. Address	•	3b. Phone Non linclud	le area polite)	30-015-26575
PO BOX 159, ARTESIA, NM		505-748-3159	CENCESIA	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec	., T, R, M., or Survey Descripti	on)	OCO. ARIV	NAVAJO INJECTION; PERMO-PENN 11. County or Parish, State
790 FSL, 2250 FWL, 1-18S-2	27E		000	EDDY
12. CHECK AF	PROPRIATE BOX(ES)	TO INDICATE NATU	RE OF NOTICE, RI	PORT, OR OTHER DATA
TYPE OF SUBMISSION	·	TY	PE OF ACTION	
·	Acidize	Deepen .	Production (Start)	Resume) Water Shut-Off
Notice of latent	Alter Casing	Fracture Treat	Reclamation	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete	Other RECOMPLETE AS
The second secon	Change Plans	Plug and Abandon	Temporarily Aba	ndon CLASS I INJECTION
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal	WELL
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Name Approved by (Signature) Title (Printed/Typed) ons 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 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 sames any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Accepted for record - NMOCD

District I

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

301 W. Grand Avenue, Artesia, NM 88210 'rlet III

2250

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

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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	7.650 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:

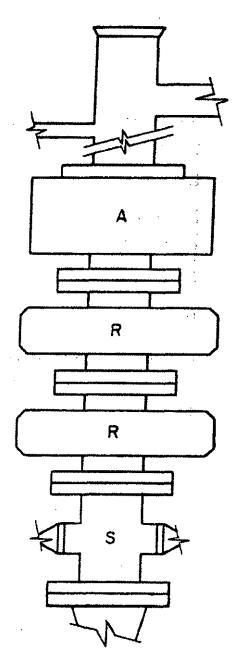
BHP (9000 feet) = 
$$2813 \text{ psia} + (9000 \text{ feet} - 7570 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.025$$
  
=  $3448 \text{ psia}$ 

#### 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.



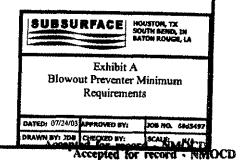
A = ANNULAR BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

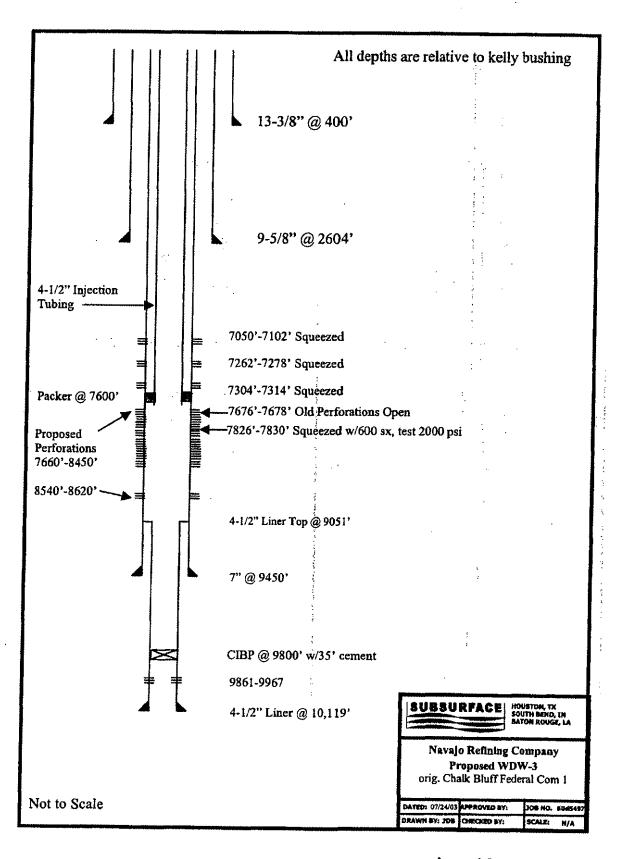
R = RAM TYPE BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

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 EquipmentSystems





#### 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. <u>Location of Existing Wells</u>: Existing wells within one mile of proposed WDW-3 are shown on Exhibit B.
- 4. <u>Location of Proposed Facilities If Well Is Completed</u>: The well will be shut in after completion and testing.
- 5. <u>Location and Type of Water Supply</u>: 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. <u>Archaeological Survey</u>: 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.

Date

Date

Darrell Moore

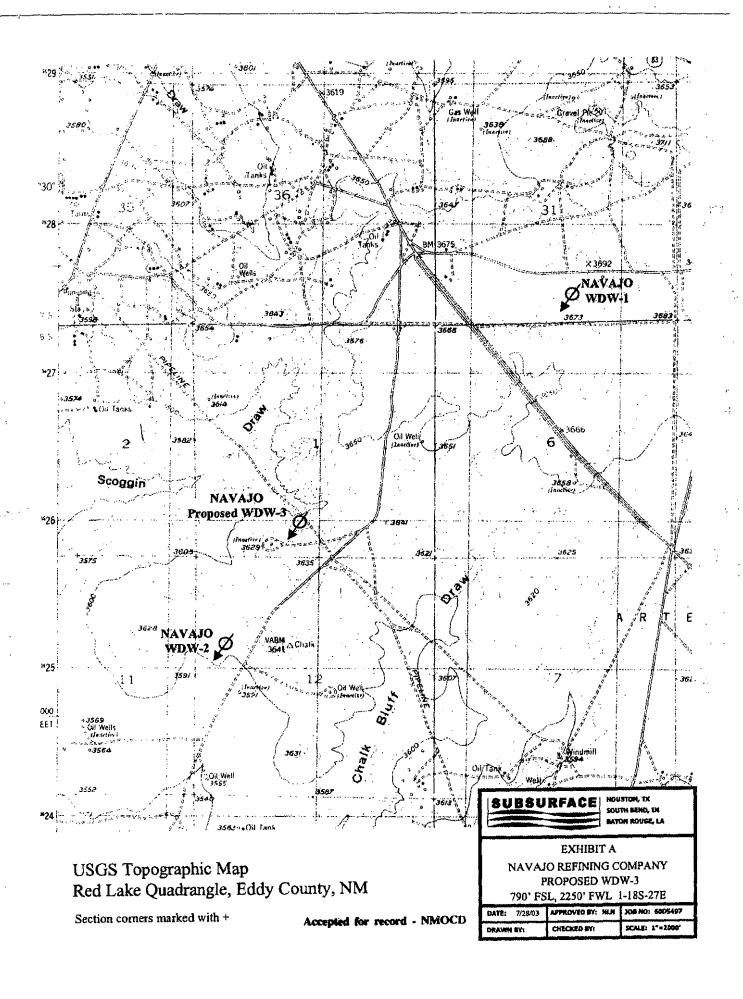
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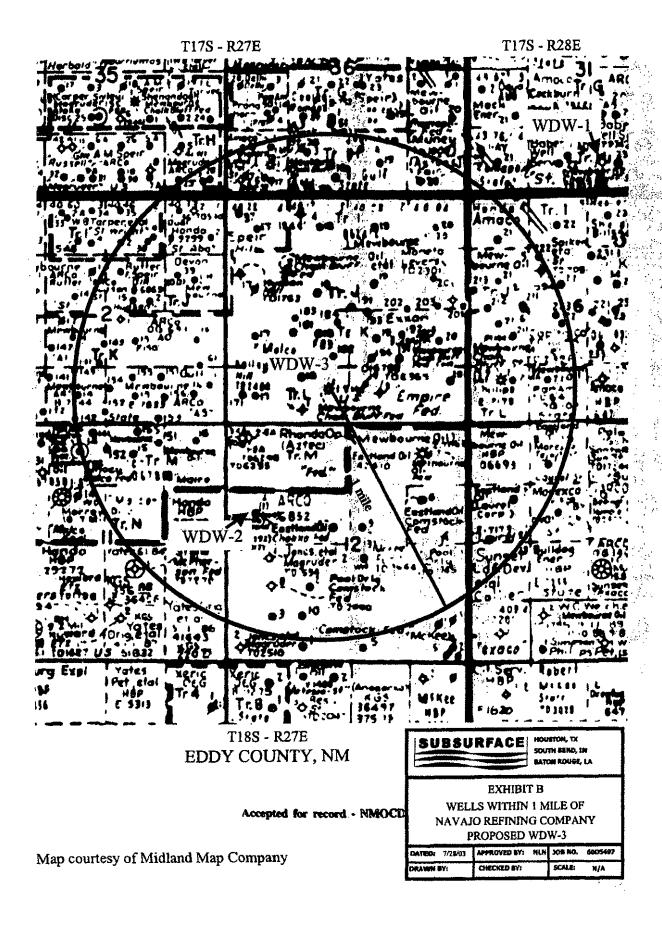
Eau. Mar. for Water- Waite

Title

Navajo Refining Company

Company





Form 3160-5 (February 2005) OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED OM B 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.							NM-0557371  6. If Indian, Allottee or Tribe Name		
SUBMIT IN TR	7. If Unit or CA/Agreement, Name and/or No.								
1. Type of Well Oil Well	Gas Well  Other	<del></del>	***			0 31/-1131-			
2. Name of Operator NAVAJO RE			·	····		8. Well Na WDW-	3		
3a Address	STAING COMPANY	3b. Phone h	la lineled	progressiei		9. API We 30-015-			
P.O. BOX 159, ARTESIA, NM		3b. Phone I 505-746					d Pool, or Exploratory Area		
4. Location of Well (Footage, Sec.,			JUL 1	7 2006		<del></del>	JO INJECTION; PERMO-PEN or Parish, State		
790' FSL, 2250' FWL, 1-18S -	27E	9	OD:A	HTILOU	^	EDDY,	•		
12. CHECK AI	PPROPRIATE BOX(ES) TO	INDICATE	NATUR	E OF NO	TICE, RE	PORT, OR	OTHER DATA		
TYPE OF SUBMISSION			TY	PE OF ACT	ION				
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture T New Cone Plug and A Plug Back	struction Abandon	Recor	nction (Star mation nplete orarily Aba Disposal	ŕ	Water Shut-Off  Well Integrity  Other RECOMPLETE AS  CLASS 1  INJECTION WELL		
WELL WILL BE PLUGG  DRILL OUT BRIDGE PL INJECTION-TEST PERF DRILL OUT BRIDGE PL SQUEEZE-CEMENT PEF DRILL OUT BRIDGE PL RUN CBL/VDL AND CAI PERFORATE 8540'-8620' RUN INJECTION/FALLO RUN DIFFERENTIAL TE	Γ, AND ACIDIZE IF NECESS DFF TEST; EMPERATURE SURVEY;	DAS A CLA UT TO 7208 7262'-7278' 1 LEAN OUT ',7262'-7278' UT TO TOP 'ACE;	ASS I INJ '; 'O PLAN HOLE TI , AND 73	SQUEEZE HROUGH I 04'-7314':	CEMEN' PERFS AT	T JOB; 「7304'-7314	CEPTED FOR RECORD		
RUN RADIOACTIVE TRACER SURVEY; INSTALL INJECTION TUBING AND PACKER TO APPROX. 7600'; AND INSTALL WELL ANNULUS MONITORING EQUIPMENT, AND PREPARE FOR WELL INJECTION.  LES BABYAK						LES BARYAK			
14. I hereby certify that the foreg Name (Printed/Typed)							PETROLEUM ENGINEER		
DARRELL MOO		-	Title E	•	,	IANAGER F	FOR WATER & WASTE		
Signature South	Signature Davel Moore Date 6/29/06								
	THIS SPACE FOR F	EDERAL	OR S	TATE O					
Approved by Conditions of approval, if any, are at certify that the applicant holds legal which would entitle the applicant to. Title 18 U.S.C. Section 1001 and Title	or equitable title to those rights in conduct operations thereon.	the subject lea	nt or use O	île Tice			Frecord		

Ittle 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.

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

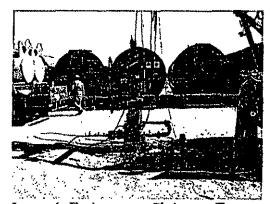
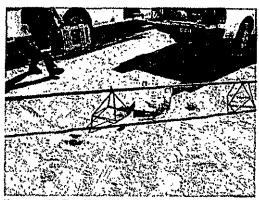


Image 1: Facing west. Christmas Tree with 500-barrel tanks in background. Far left tank was the only tank providing salt water. Truck on left is the pump truck pumping brine water only. Right truck is the rig truck (Wood Group Logging Service).



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



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

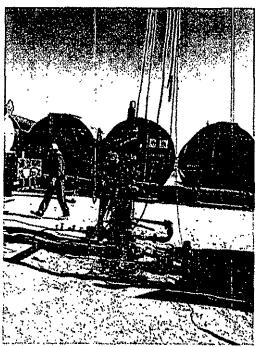


Image 4: Petroplex workers prepping wellhead for wire line tool entry.



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

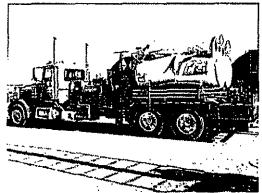


Image 6: Pump truck, Petroplex, for Brine water pumping only. No HCL used throughout process.



<u>Image 7</u>: Securing of the wire line to the wellhead.

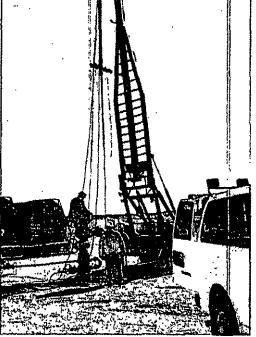
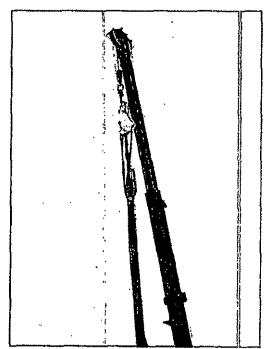


Image 8: Wood Group employee securing wellhead for tool entry.

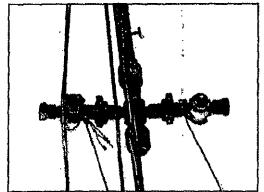


<u>Image 9</u>: Configuration at the top end of the boom.

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

November 15, 2006

Image 12:



<u>Image 10</u>:

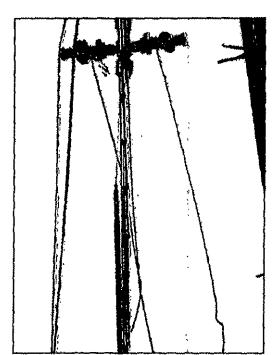
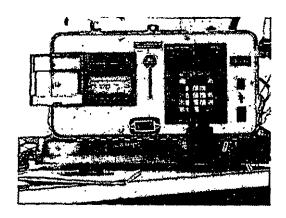
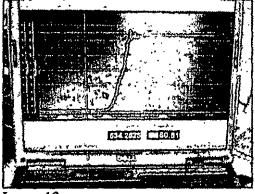
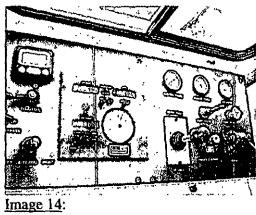


Image 11:







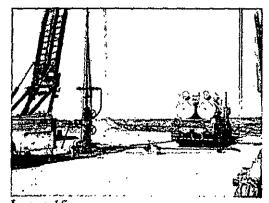
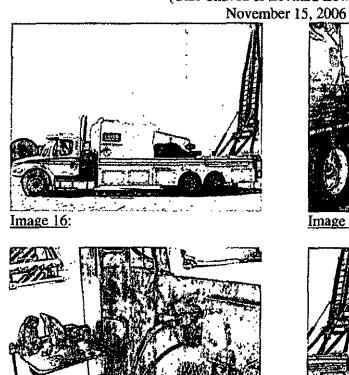
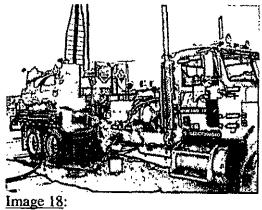


Image 15:

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







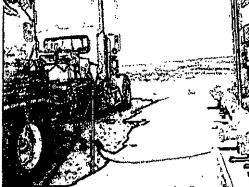


Image 19:

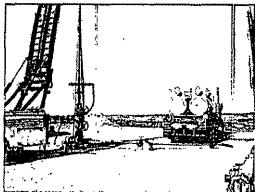


Image 20:

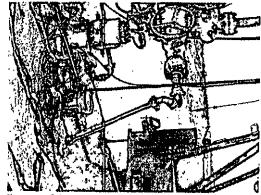
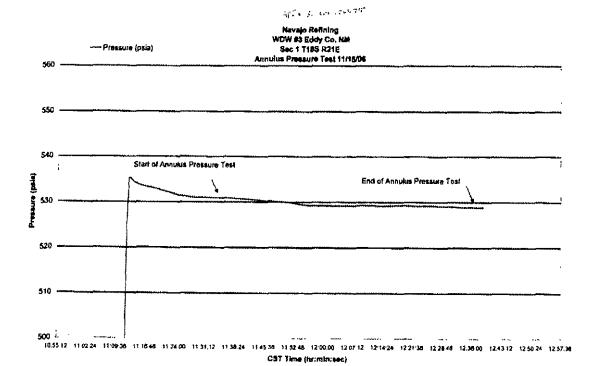
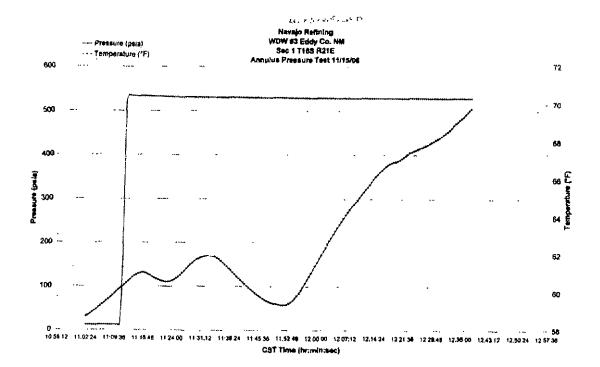


Image 21:

# 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, Azlec, NM 87410
District IV

## State of New Mexico Energy Minerals and Natural Resources

May 27, 2004
Submit to appropriate District Office

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

AMENDED REPORT

Form C-101

1220 S. St. F	rancis Dr.,	Santa Pe, NI	M 87505		Sar	ita Fe, N	IM 873	505				
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NAVAJO RENING COMPANY									30 - 015-20	APIN	nuper	· · · · · · · · · · · · · · · · · · ·
Prope	rty Code				Proper	y Name Well No.				No.		
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APPROVE CASING PROGRAM.

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

irict III

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

District IV	ld., Aziec, l	NM 87410	Santa Fe, NM 87505						: Lease - 3 Copies	
1220 S. St. Pranck	s Dr., Swta	Fo, NM 8750	5				, 1	☐ AME	NDED REPORT	
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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 11. . 5 **OPERATOR CERTIFICATION** I hereby certify that the information contained herein is true and complete to the best of my knowledge and betief. Stanoger Doubl Moore THE MAE BOOM AND THE ENV. MAF. For Water waste darrell@navejo-retining.com 9/17/03 "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was piotted 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 bellef. Date of Survey Signature and Seal of Professional Surveyor: 2250 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:

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

#### Reentry Procedure

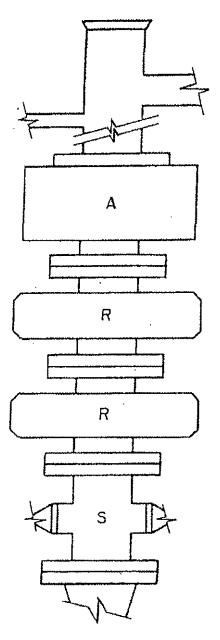
- 1. Level location to accommodate a workover rig, pump, tanks, and ancillary equipment. Build a small working pit approximately 30 feet square and 3 feet deep with a plastic lining. Move in the rig, tank, shale shaker, and work string.
- 2. Install a 7-1/16-inch, 3000-psi double hydraulic blowout preventer (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.



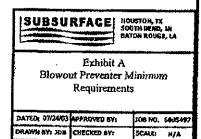
A = ANNULAR BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

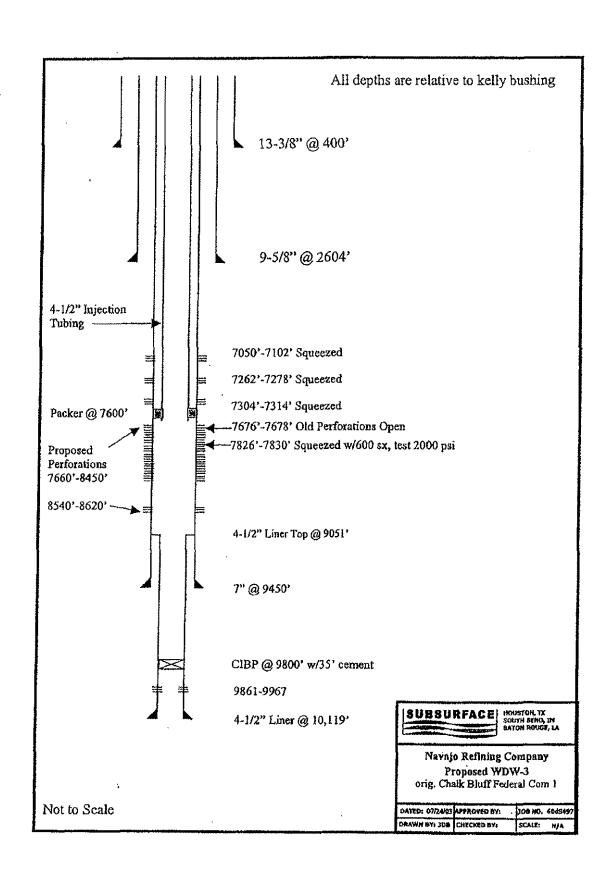
R = RAM TYPE BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

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 EquipmentSystems







#### 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. <u>Location of Existing Wells</u>: Existing wells within one mile of proposed WDW-3 are shown on Exhibit B.
- 4. <u>Location of Proposed Facilities If Well Is Completed</u>: The well will be shut in after completion and testing.
- 5. <u>Location and Type of Water Supply</u>: 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

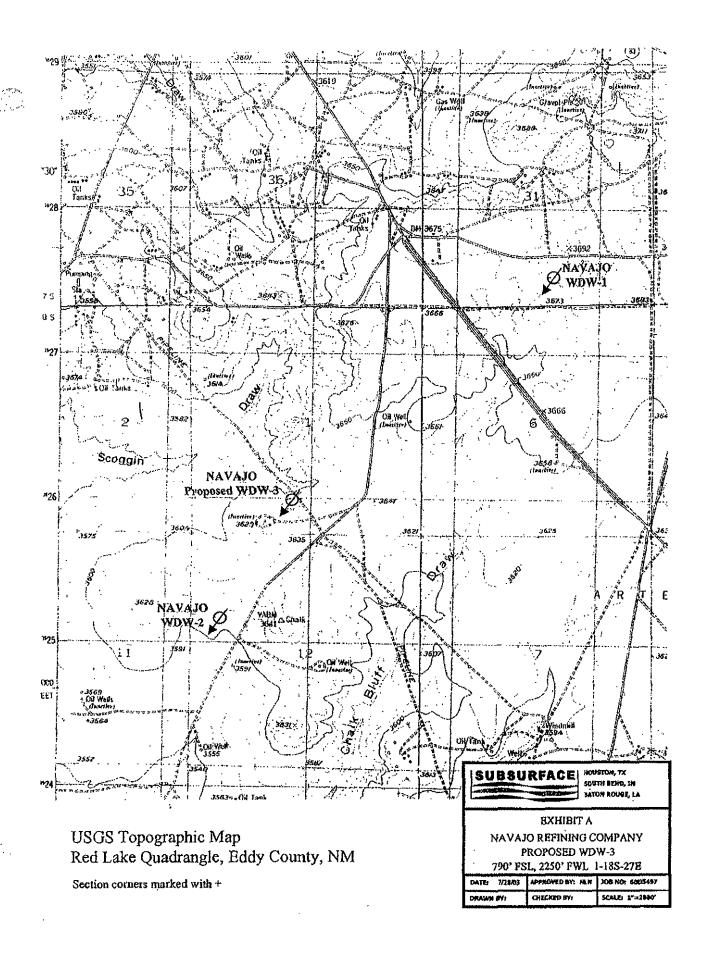
### **Exhibits**

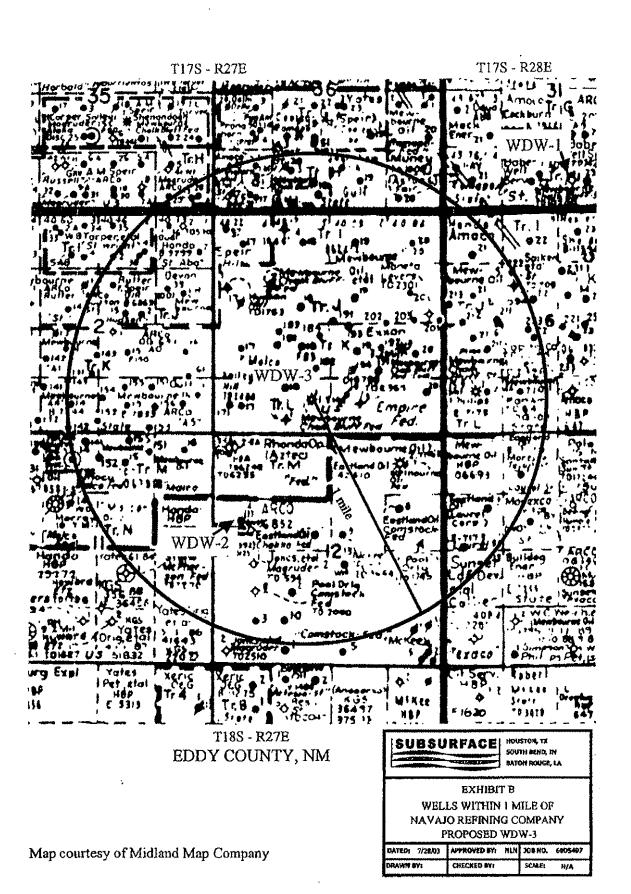
- A. Topographic Map
- B. Oil and Gas Map

#### 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.

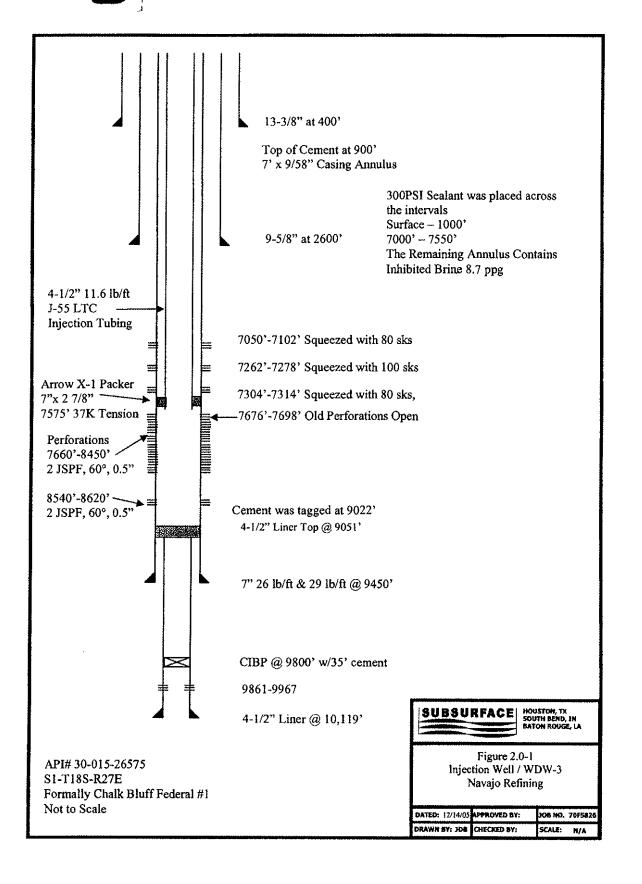
9/17/03	Davill More
Date	Darrell Moore
	Env. Mar. for Water Waite
	Navajo Refining Company
	Company





Submit 3 Copies To Appropriate District	State of 1	New Mexico	Form C-103
Office District I	Energy, Minerals a	and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.
District II	OIL CONSERV	ATION DIVISION	30 – 015 - 26575
1301 W. Grand Ave., Artesia, NM 88210 District III			5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	220 South	NIN A OTE OF	STATE X FEE
District IV	Santa Fe,	St. Francis Dr. NM 87505 345678970777	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		(234 10/1)	NM-0557371
	ICES AND REPORTS ON SALS TO DRILL OR TO DEEP CATION FOR PERMIT" (FORM	WELLS EN OR PLUGEACK TO A	7. Lease Name or Unit Agreement Name WDW - 3
1. Type of Well: Oil Well	Gas Well X Other	OCD ARTED	8. Well Number 3
2. Name of Operator	70		9. OGRID Number
NAVAJO REFINING COMPANY	· · · · · · · · · · · · · · · · · · ·	EG PREZZIVIOLO	9. OGIGE Number
3. Address of Operator	<del></del>	100°	10. Pool name or Wildcat
P.O. BOX 159, ARTESIA, NM 88	211	CA22222/00	
4. Well Location	<u></u>		
}	700 C . C	Y 11	
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		ther DR, RKB, RT, GR, etc	c.)
	GR 3609', RKB 3625'	· · · · · · · · · · · · · · · · · · ·	
Pit or Below-grade Tank Application 🔲 o			
Pit type N/A Depth to Groundwat	er <u>100 FT</u> Distance from near	est fresh water well 1 MILE	Distance from nearest surface water 6 MILES
Pit Liner Thickness: N/A n	nil Below-Grade Tank: Vo	olume <u>N/A</u> bbls; (	Construction Material N/A
12 Charle	Americanista Dans ta Ind	:	
12. Check A	Appropriate Box to Ind	icate Nature of Notice	, Report or Other Data
NOTICE OF IN	TENTION TO:	1 911	SSEQUENT REPORT OF:
PERFORM REMEDIAL WORK □		☐ REMEDIAL WO	
TEMPORARILY ABANDON	CHANGE PLANS	1	RILLING OPNS. PANDA
PULL OR ALTER CASING		☐ CASING/CEMEN	
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<ol><li>Describe proposed or comp</li></ol>	leted operations. (Clearly s	tate all pertinent details, a	nd give pertinent dates, including estimated date
of starting any proposed wo	rk). SEE RULE 1103. For	r Multiple Completions: A	attach wellbore diagram of proposed completion
or recompletion.			•
See attached well summary document	it and well schematic.		
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MIT WHUESSED DY CA	IFI CHADE		
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Ma Chair Gus	Tr.		
Mit Witnessed by Ca No Chart Submitt	10.		
	•		
I nereby certify that the information a	bove is true and complete t	o the best of my knowledg	ge and belief. I further certify that any pit or below-
Stage tank has neen Mitt be constructed or c			or an (attached) alternative OCD-approved plan .
SIGNATURE	MALO TE	THE FALL MAR C.	Water - Waste DATE 1/8/07
The state of the s	11.	- 141. BY	VALIST & WALE PATE
Type or print name	F.	mail address:	Telephone No.
r State Use Only	oted for record E-		a displicite 140.
	NMOCD/U		
APPROVED BY:	TI'	ΓLE	DATE
Conditions of Approval (if any):			DAIL

Submit To Appropr State Lease - 6 copi	es	rict Office			State of New 1							Form C-105
Fee Lease - 5 copies District I	S		Er م	ergy,	, Minerals and N	atural R	esources		WELL API	NO		Revised June 10, 2003
1625 N. French Dr., District II	, Hobbs, i	NM 88240		^		<b></b>			30 - 015 - 2			
1301 W. Grand Ave	mue, Arte	esia, NM 88210			il Conservation				5. Indicate		ease	
r <u>ict III</u> J Rio Brazos Rd	l., Aztec,	NM 87410		14	220 South St. F		)r.		STA	re x	FEE	
1220 S. St. Francis	Dr., Santa	Fc, NM 87505			Santa Fe, NM	87505			State Oil &	Gas Leas	e No.	
			OR REC	OMPI	LETION REPO							
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NAVAJO REFIN		MPANY		<del></del>	1/3	S/4	<u> </u>					
3. Address of Ope	rator				1.03	 	87		9. Pool name or	Wildcat		
P.O. BOX 159, AI	RTESIA	, NM 88211			3545623	7160	.′					
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									E			
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23.				CA	SING RECOR	kD (Rep	ort all s	trin	gs set in we	ell)		
CASING SIZ	E	WEIGHT			DEPTH SET		LE SIZE		CEMENTING		A	MOUNT PULLED
13 3/8" 9 5/8"		54. 3	<del></del>		400' 2604'		7 ½" 2 ¼"		425-CI 1025-C		<del> </del>	NONE
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28					PRO	DUCT	·····				1001	SQUILIG
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10/19/06	4 HOU	JRS	INJECT TE		N/A	N/	A		N/A	N/A	1	N/A
Flow Tubing Press.	Casing	Pressure	Calculated 2	4-	Oil - Bbl.	Gas -	MCF	W	ater - Bbl.	Oil Gr	avity - A	P1 - (Corr.)
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## Well Summary

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

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

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

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

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

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

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

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

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

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

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

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

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

# State of New Mexico rgy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 June 1, 2004

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

# Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes \( \subseteq No \( \subseteq \)

Type of action: Registration of a pit	or below-grade tank [] Closure of a pit or below-gra	de tank
Operator: Alexan CRET Nieva Com Series Telepho	ne:(505)748-331/ e-mail address:	
Address: SCIENCE MANY STREET AND	CCIO NM 88210	
Facility or well name: WOW #3 API#:	30-015-24575 U/Lor Ott/Ott	Sec / T /8-88 27 E
County: Eddy - Latitude	Longitude	NAD: 1027 [7 1097 [7]
Surface Owner: Federal A State Private Indian	Drightat	17D. 1727 [ 1903 [ ]
Pit	Below-grade tank	
Type: Drilling Production Disposal		
Workover D Emergency	Volume:bbl Type of fluid:	
Lined 12 Unlined	Construction material:	
1	Double-walled, with leak detection? Yes  If not	, explain why not.
Liner type: Synthetic (P) Thickness 22 mil Clay [		
Pit Volumebbl		<del>-</del>
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)
Tigh water devaited of ground water.)	100 feet or more	( 0 points)
	Yes	(20 points)
Wellhead protection area: (Less than 200 feet from a private domestic		/)
water source, or less than 1000 feet from all other water sources.)	(No)	( 0 points)
ristance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
,ation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	( 0 points)
	Dunding Conv. (Total Bring)	1.00
	Runking Score (Total Points)	
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's		
your are burying in place) onsite 🔲 offsite 💢 If offsite, name of facility 🔏	RI . (3) Attach a general de	escription of remedial action taken including
remediation start date and end date. (4) Groundwater encountered: No 11	res If yes, show depth below ground surface	ft. and attach sample results.
(S) Attach soil sample results and a diagram of sample locations and excavat		
Additional Comments: Navalo REFINING Com	DON'T PLANS FO BLOSE DE	- Ullate sit and the
WDW #3 RS DET NEW WEXES OIL	Construction Division	10 2014 41- 21
and D-/	CONSTITUTE DIVISION TO	HE SO IN THE FIF
AND BELOW Grade tANK Guide I'M		
Drill cuttings, All cuttings will !		
Disposal and Backfill with onsite.	stockpiled soils. WE Will No	fify O.C.D 48 hours
Prior to Beginning work,		
I hereby certify that the information above is true and complete to the best of	of my knowledge and belief. I further certify that the	a shove described his or helow goods tank
has been/will be constructed or closed according to NMOCD guidelines	[], a general permit [], or an (attached) alternati	ive OCD-approved plan .
Printed Name/Title Chart Matheman / Reserve	111	
Printed Name/Title Chart Mattheway (Bases)	Signature Land	
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	ot relieve the operator of liability should the contents of the operator of its responsibility for compliance with an	of the pit or tank contaminate ground water or y other federal, state, or local laws and/or
Anoroval: Jenne W. Green		1.1.7
.cd Name/Title	. Signature	Date: 2/12/67

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT FORM APPROVED OMBNO, 1004-0137 Expires: March 31, 2007 OMPLETION OR RECOMPLETION REPORT AND LOG Lease Serial No. NM - 0557371 oil Well Gas Well Dry Other 6. If Indian, Allottee or Tribe Name New Well Work Over Deepen Plug Back Diff. Resvr,. Unit or CA Agreement Name and No. Other Name of Operator NAVAJO REFINING COMPANY Lease Name and Well No. WDW - 3 3a. Phone No. (include area code) AFI Well No. Address P.O. BOX 159, ARTESIA, NM 88211 30 - 015 - 26575 Field and Pool, or Exploratory Location of Well (Report location clearly and in accordance with Federal requirements)\* At surface 796' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE Sec., T., R., M., on Block and Survey or Area 91 - T188 - R27E At top prod, interval reported below 7658 AT THE SAME LOCATION AS ABOVE County or Parish 13 State PLUG BACK 10,119' AT THE SAME LOCATION AS ABOVE At total depth EDDY 14. Date Spudded 15. Date T.D. Reached 16. Date Completed Elevations (DF, RKB, RT, GL)\* 01/29/1991 12/22/1990 3609 D&A Ready to Prod. 20. Denth Bridge Plug Set: 19. Plug Back T.D.: MD 9822\* MD 18. Total Depth: MD 10,119' CMT 9051'-9022' TVD TVD 10.119 TVD 90221 CMT 9051'-9022' 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) 22. Was well cored? / No Yes (Submit analysis)
Was DST run? / No Yes (Submit report) CBL/VDL, MULI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006) Directional Survey? / No Yes (Submit copy) 23. Casing and Liner Record (Report all strings set in well) Stage Cementer No. of Sks. & Sturry Vol. (BBL) Amount Pulled Wt. (#/ft.) Size/Grade Top (MD) Bottom (MD) Coment Top\* Hole Size Type of Cement Depth 17 1/2" 13 3/8" SURF 54.5 400 486 425 CLASS C SURF NONE 12 1/4" 9 5/8" 36 SURF 2604 2604 1025 °C" SURF NONE 94501 8 3/4" 7۳ 29 & 26 SURF 9450 1350 "H" 9001 NONE 6 1/4" 4 1/2" 9051' 10,119 10,119 175 CLASS H 9051'-TOL NONE 24 Tubing Record Depth Set (MD) Packer Depth (MD) Depth Set (MD) Packer Depth (MD) Depth Set (MD) Packer Depth (MD) Size Size 4 1/2" 7567 7567 25. Producing Intervals Perforation Record Top Formation Bottom Perforated Interval Size No. Holes Perf. Status CISCO 8450 0.5" 7650 7660' - 8450' 1580 2 JSPF / 60° 0.5" CANYON 8548 8620 8540'- 8620' 160 2 JSPF / 60° C) D) 27. Acid, Fracture, Treatment, Cement Squeeze, etc. Depth Interval Amount and Type of Material 7050' - 7102' 80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION 7262' - 7278' 100 SKS PREM 14.2 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION 7304' - 7314' 84 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATIONS 28. Production - Interval A Test Date Production Method Oil Gravity Corr. API Test Production Oil BBL Gravity Produced NON-HAZAROUS CLASS I WELL Choke Gu The. Press 24 Hr. Oil BBL Water BBL Gas/Oil Well Status Fleg. MCF Sizo WAITING ON STATE APPROVAL TO SUPER SF 28a. Production - Interval B Date Pirst Produced Test Hours Tested T. d Oil BBL Oil Gravity Corr, API Production Method Gree Greevity Produ NON-HARAZOUS CLASS | WELL Choke C=/OI Tbg. Pres 24 Hr. Gas MCF Well States Oil BBL Water BBL Flwg.

WAITING ON STATE APPROVAL TO INJECT

Rete

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

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Date First	nction - Inte	Hours	Test	Toi	Gar	Water	Oil Gravity	Gas	Production Method	
Produced	Date	Tested	Production	Oil BBL	Gas MCF	BBL	Cor. APT	Gravity	NOOSCHAL PROUDO	
Choke. Size	Thg. Press. Plwg.	Csg. Press.	24 Hr. Rute	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		<del></del>
	ZI	L		<u> </u>	_			<del></del>		
28c. Prod	Inction - Int Test	ervai D Hours	Test		Gas	Water	0.70	<del> </del>		
Produced	Date	Tested	Production	Oil BBL	MCF	BBL	Oil Gravity Corr. API	Gas Gravity	Production Method	
Choke Size	The Press. Flwg. SI	Cag. Presa	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well States		<del></del>
20 Die	1	e Kald .	used for fuel,	Named of						
•		,	US CLASS		•					
30. Sum	mary of Por	ous Zones	(Include Ag	tifers):				31. Format	on (Log) Markers	***************************************
tests,	w all import, including a recoveries.	ant zones lepth inter	of poronity : val tested, co	and conten shion used	its thereof: , time tool o	Cored interval pen, flowing:	als and all drill-stem and shut-in pressures			
Forn	nation	Тор	Bottom		Desc	riptions, Cont	enis, etc.		Name Top Meas. D	epth
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WAS	SSET WI	TH A TE	NSION PA	CKER A	r 756 <b>8</b> ° an	ID BOTTO!	M OF PACKER A	T 7575'. MIT	WAS WITNESSED BY OCD.	
						the appropria	te hovet:	·····		
☑ Ek	ctrical/Med	hanical Lo	gs (1 full seing and cemen	req'd.)	<u></u> □ 04	ide appropria cologic Repor see Analysis		Direction	al Survey	
34. Therei	by certify th	at the fore	going and att	ached info	rmation is co	omplete and c	orrect as determined	from all availal	ole records (see attached instructions)*	TILLING TO
Name (	please prin	ريا	Darre	11 /	Meor	e	TideE	nu. M	gr for Waters Wa	ste
Signat	ure	<u>+</u> )a	ul	IN	love		_ Date	1/24/	7	
Title 18 U States any	S.C Section	n 1001 and ious or fra	i Title 43 U	S.C Secti	on 1212, ma	ike it a crime	for any person know y matter within its	vingly and will	fully to make to any department or agency of t	be United

20 W	Form Ho (April 10	18 05 A	23456		DEPAR BUREAU	TMEN U OF		IE IN	GEMENT						FORM A OMBNO. Expires; Mi	PPROVE! 1004-0137 trch 31, 20	p 107
	\$ C.	& ME	IT CON	APLE	TION O	)R RE	COMPLI	ETIO	N REPO	RT AN	D LOG			5. Leas NM	e Serial No. - 0557371		
13 kg	ia. Be	of Well	[]Oil V		Gas Wel			Xher				<u> </u>		6. If ho	dian, Allotte	e or Tribe l	Name
The many	b. Type Sigit	of Comple		Other		<u>~</u>	/onk Over {		epen	lug Back		f. Resvi,			or CA Agree	ment Nam	ne and No.
	Z Name	of Operat	OF NAVA	JO RI	EFINING	COMI	PANY								e Name and DW - 3	Well No.	
	3. Addre	ess P.O.	BOX 159,	ARTE	SIA, NM	88211	·····		3a Pi	one No.	(inchide a	rea code,	,	9. AFI			
	4. Locat	ion of Wel	(Report lo	cation (	clearly and	in acco	rdance with	Feder	al requireme	nts)*	***************************************		<del>-   1</del>		and Pool, or	····	жу
	At su	rface .	798' FRO	M THI	E SOUTH	LINE	AND 2250	FRO	M THE W	est lin	ne			II. Sec.,	T., R., M., c	n Block an	nd
	At top	prod. inte	rvai reporte	d belov	765 <b>0</b> ° A	AT TH	E SAME L	OCAT	TION AS A	BOVE					cy of Area sty of Parish		
			PLUG BA		•			CATIC	ON AS AB					EDD	Ý	8	M
	14. Date: 12/2	Spudded <b>2/1990</b>		15.	Date T.D. 1 01/29/19		I		16. Date	Completed & A	***	to Prod	1 1	i7. Elev. <b>3609</b>	ations (DF, 1	RKB, RT, (	3Ł)*
	IR. Total	-	ID 10,11		1	19. Plu	Back T.D.:	MD	9022'		20. De	pub Bride	e Plug Se			CMT 905	31'-9822'
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	23. Casin	g and Lin	er Record	(Керо	rt all strii	ngs set	in well)	102						, , , , , , , , , , , , , , , , , , , ,	Insula \-	,	37
	Hole Size			(#/fL)	Тор (М	D) 1	Bettom (MD	Sta	ge Cemente Depth		f Sks. & of Coment		ry Voi.	Come	nt Top*	Amoun	t Pulled
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	12 1/4" 8 3/4"	9 5/8"		<u>26</u>	SURF		26041 94501		64'  50'	1025		<del> </del>		SURI 960'	F	NONE	
	6 1/4"	4 1/2"			9051'		10,119'		,119'	-	LASS H			9051	-TOL	NONE	
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	Siz <del>c</del> 4 1/2"	7567'	Set (MD)	7567	r Depth (M	D)	Size	Dep	pth Set (MD)	Packer I	Depth (MI	D)	Size	Dept	h Set (MD)	Packer I	Depth (MID)
	25. Produc	-1	als	1301		Ł		26	Perforation	n Record		L			······	<b></b>	
		Formatio	0		Тор		Bottom		Perforated	Interval		Size	No.	Holes		erf. Status	l
,	A) CISC				7650'	84			60' - 8456'			.5"	1580		2 JSPF		
	B) <u>CAN</u> C)	YON		-+	8540'	86	Ľ <b>®</b> *	185	40'- 8628'		- 0	.5*	160	<del></del>	2 JSPF	/ 6 <b>0°</b>	
j	<b>)</b>				·	$\top$		1	······································				<del>                                     </del>		<del>                                     </del>		
				ment S	queeze, etc												
	7050' - 7	Depth Inter 102'	VAL		80 SKS P	REM	14.8 PPG N	EAT	CMT FOR	Amount as				PDEYND	ATTON		<del></del>
•	7262' - 7								CMT FO							<del></del>	······································
-	7304' - 7	314'		$\neg$	80 SKS P	REM 1	14.8 PPG N	EAT	CMT FOR	PERFS	QZ ON	PREVI	OUS PE	RFORA	TIONS		
;	8. Produ	ction - Inte	rval A														
-	Date First	Test Date	Hours Tested	Test Product	Oil niona BBL	Ģ	M V	eter BL	Oil Gra Corr. A	vity	Gas		Production	Method			
	Produced			Product	<b>&gt;</b>					ur i	Gnivii		NON-HA	ZARQUS	C7.ASS I WEI	J.	
	Choke Size	Tbg. Press. Flwg. Si	Csgs. Presss.	24 Hr. Rete	Oil BBL		AS V FCF B	nter BL	Gas/Oil Rutio		Well St	ortor	WAITING	G ON STA	TE APPROV	al to inje	ct
3	8a. Produ									······································							<del></del>
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-	*(See inst	ructions at	d spaces fo	r addit	ional data e	on page	2)	• • • • • • • • • • • • • • • • • • • •			_1						<del></del>

28b. Produ	oction - Inte	rval C						······································		·····
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gza Gravity	Production Method	
Choke. Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		
2Rc. Prod	nction - Int	crvai D		<del> </del>	<del> </del>	<u></u>	<u> </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method	
Choke Size	Thg. Press. Flug. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well States		
•			ised for fuel, US CLASS		•					
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	•		(Include Aqu	•				33. Pormatio	on (Log) Markers	
testa,							and all drill-stem d shot-in pressures			
Forn	nation	Тор	Bottom		Descri	ptions, Conten	is, etc.		Name	Top Meas. Depth
T Addition		re (include	pługging pro							
THE REC EXIS SQU	PLUGGS COMPLET STING PL EEZED O	ED AND A ED THE UGS WE	ABONDON WELL FO RE DRILL II CEMEN	ED WEL R INJEC LED OUT I AT 7056	TING NON TO THE T ' TO 7102'	I-HAZARDO OP OF THE , 7262' TO 7	DUS WASTE WA E LINER PLUG A 278', AND FROM	TER FROM AT 9022' ANI I 7384' TO 73	APANY BY NAVAJO REFIN THEIR REFINERY IN ART THE EXISTING PERFOR 814'. A 4 1/2" 11.6 #/FT TUB WAS WITNESSED BY OCC	FESIA, NM. THE ATIONS WERE ING STRING
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_						e appropriate	_	m <sub>n</sub> .		
==			gs (1 full set ng and cemer	• /	==	ologic Report e Analysis	DST Report Other:	Directions	d Survey	
34. Thereb	y certify th	at the fore	going and att	ached infor	mation is con	opiete and cor	vect as determined fo	om all availab	le records (see attached instructio	ut),
Name (	please prin	پريا	Darre	11_	Moor	<u>e</u>	Tide E	nv. M	gr for Water.	Waste
Signat	urc	y)a	ul	IM	sore		Date	1/24/0	7	***************************************
Title 18U	S.C Section	n 1001 an	d Title 43 U.	S.C Section	o 1212, maj	ceit a crime fo	x any person knowi	ngly and willfi	ally to make to any department o	r agency of the United

States any false, fictitions or fraudulent statements or representations as to any matter within its jurisdiction.

#### OCD-ARTESIA Form 3160-5 UNITED STATES FORM APPROVED OM B No. 1004-0137 Expires: March 31, 2007 DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT onth Year 5. Lease Serial No. NM-0557371 MAR - 5 2007 SUNDRY NOTICES AND REPORTS ON WELL 6. If Indian, Allottee or Tribe Name OCD - ARTESIA, NM Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160 - 3 (APD) for such proposals. 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE- Other instructions on reverse side. Type o(Weil) (Öil Well Gas Well ✓ Other 8. Well Name and No. Wnw.t 2. Name of Operator NAVAJO REFINIG COMPANY API Well No. 3a Address 3b. Phone No. (include area code) 30 - 015 - 26575 P.O. BOX 159, ARTESIA, NM 88211 10. Field and Pool, or Exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State S1 - T18S - R27E; 790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE **EDDY** 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Production (Start/Resume) Deepen Waster Shart-Off Notice of Intent Well Integrity Alter Casing Fracture Treat Reclamation Other Casing Repair Subsequent Report New Construction Recomplete Change Plans Phug and Abandon Temporarily Ahandon NON-HAZARDOUS Final Abandonment Notice ✓ Convert to Injection Plug Back Water Disposal CLASS I WELL 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 10 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 filled once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) THE PLUGGED AND ABONDONED WELL WAS AQUIRED FROM MEWBOURNE OIL COMPANY BY NAVAJO REFINING. NAVAJO RECOMPLETED THE WELL FOR INJECTING NON-HAZARDOUS WASTE WATER FROM THEIR REFINERY IN ARTESIA, NM. 10/1/06 -THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH NEAT CEMENT AT 7959' TO 7102', 7262' TO 7278', AND FROM 7304' TO 7314'. 10/13/06 - RAN CBL/VDL AND TEMPERATURE SURVEY, PERFORATED INTERVAL FROM 7650' TO 8450' AND FROM 8540' TO 10/24/06 - A 4 1/2" 11,6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7568' AND BOTTOM OF PACKER AT 7575'. 11/4/06 - PERFROMED AN INJECTION/FALLOFF TEST ON THE WELL AT 9 TO 10 BPM. 11/15/86 - MECHANICALLY INTEGRITY TEST WERE PERFORMED AND WITNESSED BY THE OCD. THE MECHANICALLY 11/15/96 - MECHANICALLY INTEGRITY TEST WERE PERFORMENT AND AN ANNULUS PRESSURE TEST. SUBJECT TO LIKE INTEGRITY TEST CONSISTED OF RADIOACTIVE TRACER TEST AND AN ANNULUS PRESSURE TEST. SUBJECT TO LIKE I hereby certify that the foregoing is true and correct Name (Printed/Typed) Tide Signatur 1/241

THIS SPACE FOR FEDERAL OR STATE OFFICE USE FOTED

Office

2 8 2007

FREDERICK WINGSHIE United PETROLEUM ENGINEER

FEB

SEE ATTACHED FUR CONDITIONS OF APPROVAL

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

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. States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

which would entitle the applicant to conduct operations thereon.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

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

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

#### SPECIFIC INSTRUCTIONS

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

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

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

#### NOTICE

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

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

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

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

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

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

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

Response to this request is mandatory.

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

## **BURDEN HOURS STATEMENT**

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

## **SUNDRY NOTICE SPECIAL STIPULATIONS**

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

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

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

F Wright 2/28/07

# OCD-ARTESIA

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☑ Ek	ctrical/Mec	hanical Lo	een attached gs (1 full sei ng and cemen	req'd.)	□ Ge	the appropria cologic Repor ne Analysis		Direction	al Survey
34. Therel	by certify th	at the fore	going and att	ached infor	mation is co	emplete and c	orrect as determined	from all availab	ele records (see attached instructions)*
Name (	please prin	برجا	Darre	11 /	Moor	e	Title	inu. M	gr for Watera Woste
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(Form 3160-4, page 2)

## INSTRUCTIONS

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

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

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

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

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

#### **PRIVACY ACT**

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

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

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

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

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

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

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

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

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

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

### **BURDEN HOURS STATEMENT**

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

## Well Summary

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

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

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

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

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

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

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

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

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

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

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

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



# R/A TRACER LOG INTERPRETATION

11/27/2006

PLANT: NAVAJO REFINING CO. C/O: SUBSURFACE TECHNOLOGY

WELL NAME: CHALK BLUFF FEDERAL # 1 WDW # 3

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

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

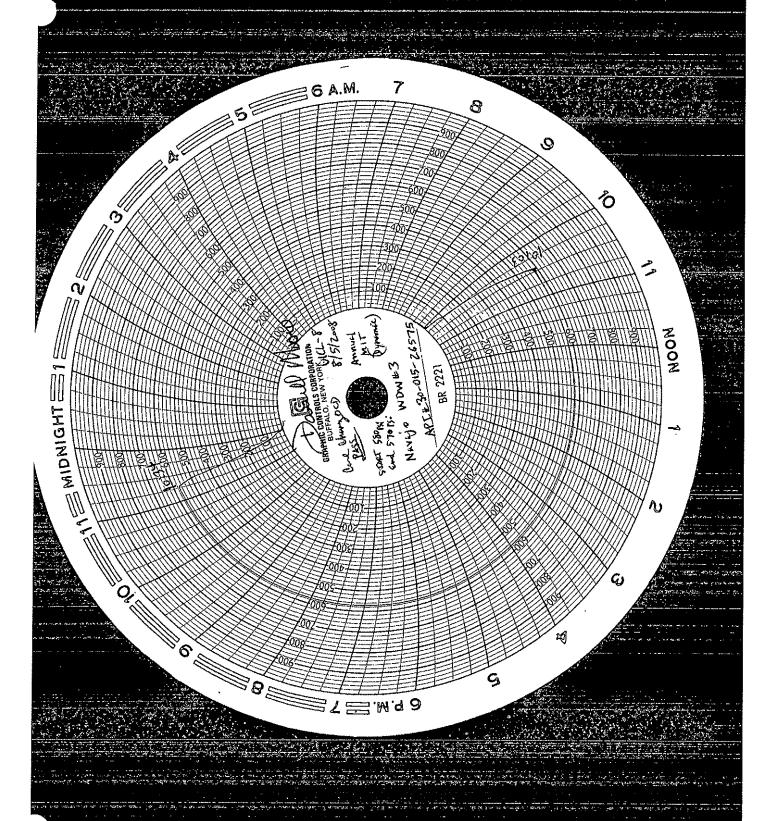
Iodine 131 was then ejected at a depth of 7375' and pumped down the tubing and into the permitted interval. Overlapping logging passes tracked the R/A tracer material as it moved down in the wellbore. The R/A material was seen traveling down the tubing, past the packer, and exiting the permitted injection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

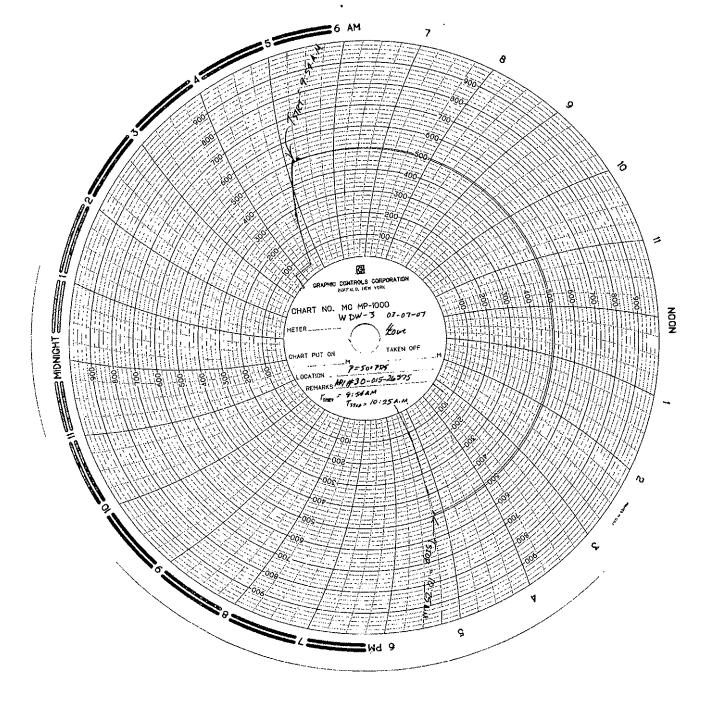
The flow profile log was then repeated and this survey also showed R/A material going out into the permitted interval.

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

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

John Croce



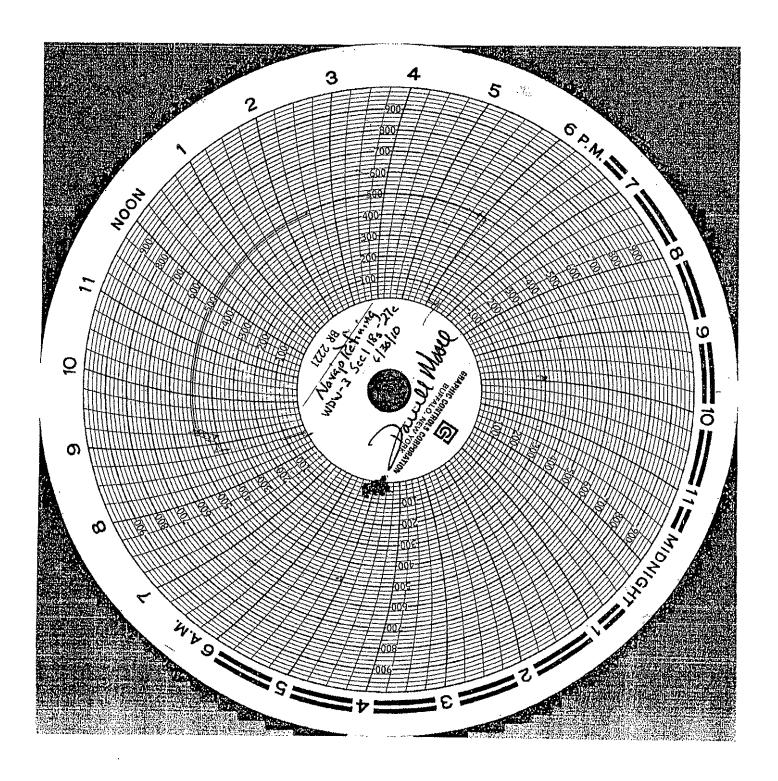


# Oil Conservation Division, Environmental Bureau C/O: Carl Chavez 1220 South St. Francis Drive Santa Fe, New Mexico 87505

# BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Te	st_June_30	, 2010 (	Operator N	avajo Refining	API #30-0 15-2	6575			
Property Name WDW Well No. 3 Location: Unit 0 Section 1 Township185 Range27e  Injecting Well Status (Shut-In or Producing) Tubing Intermediate Casing Bradenhead									
OPEN BI	RADENHEAI	O AND INTERME	DIATE TO	ATMOSPHERE INDI	VIDUALLY FOR 1:	MINUTES EACH			
TIME <u>i</u>	BRADENHEAD	PRESSURES: INTERMEDIATE	CASING		BRADENHEAD FLOWED	INTERMEDIATE FLOWED			
5 minutes	0	0		Steady Flow	N/A	N/A			
10 minutes	N/A	N/A		Surges_	N/A	N/A			
15 minutes	N/A	N/A		Down to Nothi	ng immediately	immediately			
20 minutes	N/A	N/A		Nothing	x	xx			
25 minutes_	N/A	N/A		Gas	N/A	N/A			
30 minutes	N/A	N/A		Gas & Water_	N/A	N/A			
				Water	N/A	N/A			
If bradenhea	d flowed water	r, check all of the de	scriptions t	hat apply below:					
CLE	ARF	RESH SAL	TY	SULFURBLAC	K				
5 MINUTE S	HUT-IN B	RADENHEAD 0		INTERMEDIATE 0	····				
REMARKS:	Both the s	urface and int	ermediat	e bradenheads wer	e opened one at	a time. Both			
				he vqalve (from h					
		No pressure.	F			see onen nventing.			
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By Darre	ell Moore	Day 101	Moore	Witness					
	Mgr. for W	later & Waste							
E-mail addres	sdarrell.mo	ore@hollycorp.	соп						



## Chavez, Carl J, EMNRD

From:

Moore, Darrell [Darrell.Moore@hollycorp.com]

Sent: To: Friday, March 05, 2010 8:51 AM

Subject:

Chavez, Carl J, EMNRD WDW-3 Qtrl MIT

Carl

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

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

Darrell Moore

Environmental Manager for Water and Waste

Navajo Refining Company, LLC

Phone Number 575-746-5281

Cell Number 575-703-5058

Fax Number 575-746-5451

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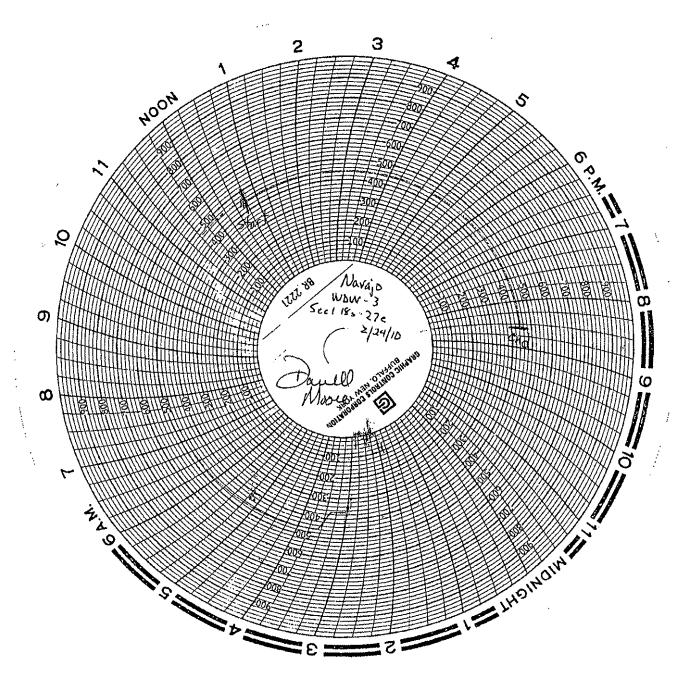


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## Chavez, Carl J, EMNRD

From: Sent: Chavez, Carl J, EMNRD

Sent:

Tuesday, July 06, 2010 9:04 AM

To: Subject: 'Moore, Darrell' RE: Sewer Testing

Darrell:

Thanks for the notification.

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

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM

New Mexico Energy, Minerals & Natural Resources Dept.

Oil Conservation Division, Environmental Bureau

1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3490 Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Website: <a href="http://www.emnrd.state.nm.us/ocd/index.htm">http://www.emnrd.state.nm.us/ocd/index.htm</a> (Pollution Prevention Guidance is under "Publications")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]

Sent: Tuesday, July 06, 2010 7:24 AM

To: Chavez, Carl J, EMNRD Subject: Sewer Testing

Carl

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

Darrell Moore

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

Fax Number 575-746-5451

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# Oil Conservation Division, Environmental Bureau C/O: Carl Chavez 1220 South St. Francis Drive Santa Fe, New Mexico 87505

# **BRADENHEAD TEST REPORT**

(Submit 2 copies to above address)

Property Name WDW Well No. 3 Location: Unit 0 Section 1 Township185 Range	27e
Well Status (Shut In or Producing) Tubing Intermediate Casing Bradenhead	
OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EA	СН
PRESSURES: BRADENHEAD INTERMEDIATE CASING FLOWED FLOWED	IATE
5 minutes 0 0 Steady Flow N/A N/A	·····
10 minutes N/A N/A Surges N/A N/A	<del> </del>
15 minutes N/A N/A Down to Nothing immediately immediately	
20 minutes N/A N/A Nothing X X	
25 minutes N/A N/A Gas N/A N/A	
30 minutes N/A N/A Gas & Water N/A N/A	
Water N/A N/A	
If bradenhead flowed water, check all of the descriptions that apply below:	
CLEAR FRESH SALTY SULFUR BLACK	
5 MINUTE SHUT-IN BRADENHEAD 0 INTERMEDIATE 0	
REMARKS: Both the surface and intermediate bradenheads were opened one at a time. Bo	th
had a puff of air upon opening the vgalve (from heat build-up) and then noth	
	LIIX.
No flow. No pressure.	
Darrell Moore The AO AA	······
By Darrell Moore Witness Witness	<del></del>
Env. Mgr. for Water & Waste Navajo Refining (Position)	
E-mail address darrell.moore@hollycorp.com	

## Chavez, Carl J, EMNRD

From: Sent: Moore, Darrell [Darrell.Moore@hollycorp.com]

ent: Wednesday, June 30, 2010 1:47 PM

To:

Chavez, Carl J, EMNRD; Dade, Randy, EMNRD

Subject: Attachments:

WDW-3.pdf

## Gentlemen,

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

From: Hernandez, Carrie

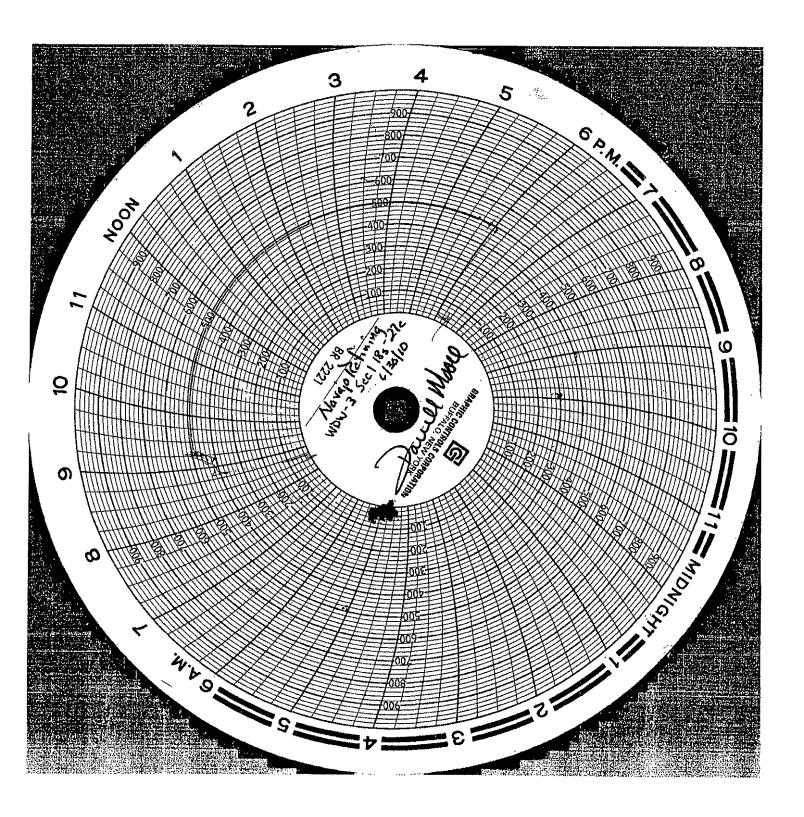
Sent: Wednesday, June 30, 2010 1:44 PM

To: Moore, Darrell

Subject:

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

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Submit I Copy To Appropriate Di Office	istrict .	State of New Me	exico	•	Form C-103
District 1 - (575) 393-6161	<b>U</b> 1	Minerals and Nati	ırai Resources		Revised August 1, 2011
1625 N. French Dr., Hobbs, NM 8	8240			WELL API NO.	
District II - (575) 748-1283 811 S. First St., Artesia, NM 8821	0 OIL C	ONSERVATION	DIVISION	30-015-26575	
District III - (505) 334-6178	12	220 South St. Fran	ncis Dr.	5. Indicate Type of Le	
1000 Rio Brazos Rd., Aztec, NM 3 District IV – (505) 476-3460	87410	Santa Fe, NM 8'		STATE   6. State Oil & Gas Le	FEE
1220 S. St. Francis Dr., Santa Fe, 1	NM	201110111111111111111111111111111111111		NM-0557371	ase Ivo.
87505	Taxoniona lain	,			······································
(DO NOT USE THIS FORM FOR DIFFERENT RESERVOIR. USE PROPOSALS.)		OR TO DEEPEN OR PL	UG BACK TO A	7. Lease Name or Uni Gaines WDW-3	t Agreement Name
1. Type of Well: Oil Well	☐ Gas Well ☐	Other Injection W	'ell	8. Well Number WD	W-3
2. Name of Operator			······································	9. OGRID Number	
Navajo Refining Company	Υ				
3. Address of Operator				10. Pool name or Wile	dcat: Navajo Permo-
Post Office Box 159, Artes	sia, New Mexico 8821	1		Penn	
4. Well Location					
Unit Letter N	<u> 790</u> f	eet from the South	line and <u>2250</u>	feet from the <u>West</u>	line
Section 01	7	fownship 18S	Range 27E	NMPM	County Eddy
	11. Elevatio	n (Show whether DR			
	3609' GL, '	RKB ·			
•			•		
12. C	heck Appropriate l	Box to Indicate N	ature of Notice.	Report or Other Dat	a
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	OF INTENTION :			SEQUENT REPO	RT OF:
PERFORM REMEDIAL WO		_	REMEDIAL WORK		ERING CASING 📋
TEMPORARILY ABANDON	· <u> </u>	<del></del> -	COMMENCE DRI	LLING OPNS.□ PA	ND A
PULL OR ALTER CASING	☐ MULTIPLE (	COMPL [	CASING/CEMENT	JOB 🔲	
DOWNHOLE COMMINGLE		•	[		
OTHER PERFORM PRESS	SURE FALL OFF TEST	Г	OTHER:	,	
OTHER: PERFORM PRESS		•	OTHER:		
13. Describe proposed o	r completed operation	s.' (Clearly state all	ertinent details, and	give pertinent dates, in	cluding estimated date
13. Describe proposed o	or completed operation osed work). SEE RUL	s.' (Clearly state all	ertinent details, and	l give pertinent dates, in pletions: Attach wellb	cluding estimated date
13. Describe proposed of starting any proposed completion	or completed operation osed work). SEE RUL or recompletion.	s.' (Clearly state all   LE 19.15.7.14 NMAC	 pertinent details, and C. For Multiple Con	I give pertinent dates, in pletions: Attach wellb 7-3 by 11:45am. Contin	cluding estimated date ore diagram of
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I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
SIGNATURE Tingthy Jones E-mail address: Honese Subsurfacegroup. Co. State Use Only	DATE 10/3/2011
Type or print name	PHONE: 7/3-880-4640
APPROVED BY: Carl . Strang TITLE Environmental Engineer Conditions of Approval (if any).  See &-mil conditions ded 10/1912011 at	DATE 10/19/2011
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## Chavez, Carl J, EMNRD

rom:

Chavez, Carl J, EMNRD

jent:

Wednesday, October 19, 2011 4:06 PM

To:

'Moore, Darrell'

Cc:

Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD

Subject:

Navajo Refining Company UIC Class I (NH) Injection Wells WDWs 1, 2 & 3 (UICI-008) Fall

Off Test Plan (August 2011)

## Darrell:

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

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

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

#### Comments:

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

## Observations:

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

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

- uniformity over the mileage specified, the distance between injection wells and corresponding pressure would likely not be observed.
- Exhibit 6: OCD observes in Section B a proposed MIT once every 5 years. OCD's UIC Program requires annual MITs and/or after down hole work is performed on a well.

#### Recommendations:

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

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

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3490 Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Vebsite: http://www.emnrd.state.nm.us/ocd/

Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the

Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:

http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental)

Office	State of New Me		Form C-103		
<u>District I</u> – (575) 393-6161 1625 N French Dr., Hobbs, NM 88240	Energy, Minerals and Natur	ral Resources	Revised August 1, 2011 WELL API NO.		
District II - (575) 748-1283	OH COMPERMATION	DRHGION	30-015-26575		
811 S. First St., Ariesia, NM 88210 <u>District III</u> – (505) 334-6178	OIL CONSERVATION		5. Indicate Type of Lease		
1000 Rio Brazos Rd , Aztec, NM 87410	1220 South St. Fran		STATE FEE		
<u>District IV</u> - (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87	505	6. State Oil & Gas Lease No. NM-0557371		
87505	PIGER AND DEPONDE ON WELL C				
(DO NOT USE THIS FORM FOR PROP	FICES AND REPORTS ON WELLS OSALS TO DRILL OR TO DEEPEN OR PLU ICATION FOR PERMIT" (FORM C-101) FO	IG BACK TO A R SUCH	7. Lease Name or Unit Agreement Name Gaines WDW-3		
1. Type of Well: Oil Well	Gas Well Other Injection We	eil	8. Well Number WDW-3		
2. Name of Operator			9. OGRID Number		
Navajo Refining Company					
3. Address of Operator Post Office Box 159, Artesia, No	w Mexico 88211		10. Pool name or Wildcat: Navajo Permo-		
4. Well Location					
Unit Letter N :	790 feet from the South	ine and 2250	feet from the West line		
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	11. Elevation (Show whether DR,				
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SIGNATURE Ting they	Gones TITLE Project	Engineer DATE 10	13/2011
ype or print name Tingthy 3	Jones E-mail address: Hones	@ Subsuy Ruegray. (or PHONE: 7	13-880-4640
APPROVED BY: Conditions of Approval (if any):	TITLE	DATÉ	

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

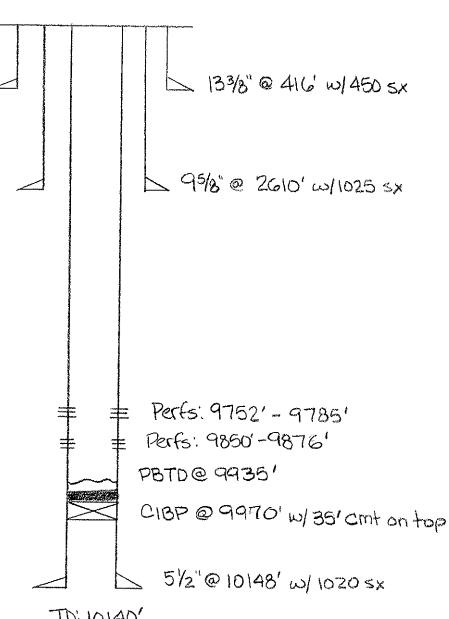


NAVAJO REFINING COMPANY, L.L.C. Map ID No. 97 Artificial Penetration Review

OPERATOR Mewbourne Oil Co.
LEASE Chalk Bluff Fed, Com
WELL NUMBER #002
DRILLED 8 24 91
PLUGGED NA

STATUS\_ACTIVE LOCATION Sec. 1 -T 8 S-R27E MUD FILLED BOREHOLE NIA TOP INJECTION ZONE \_\_3591' **API NO.** \_\_\_30-015- 2674\

**REMARKS:** 

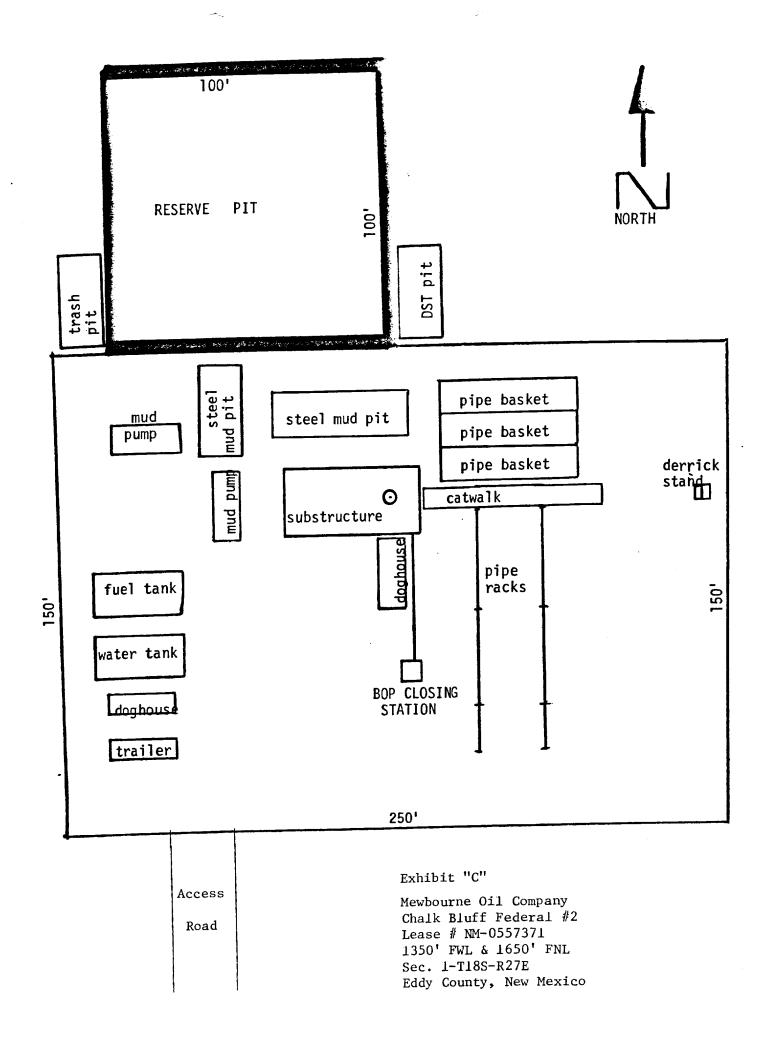


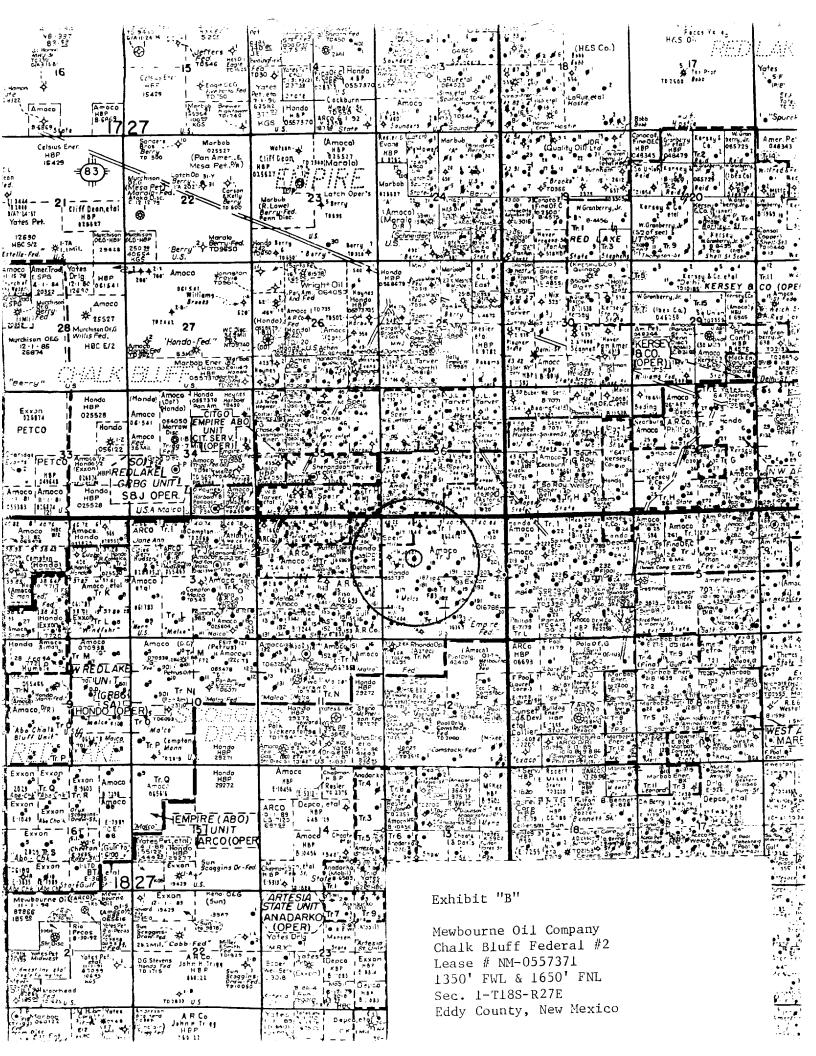
TD: 10,140'

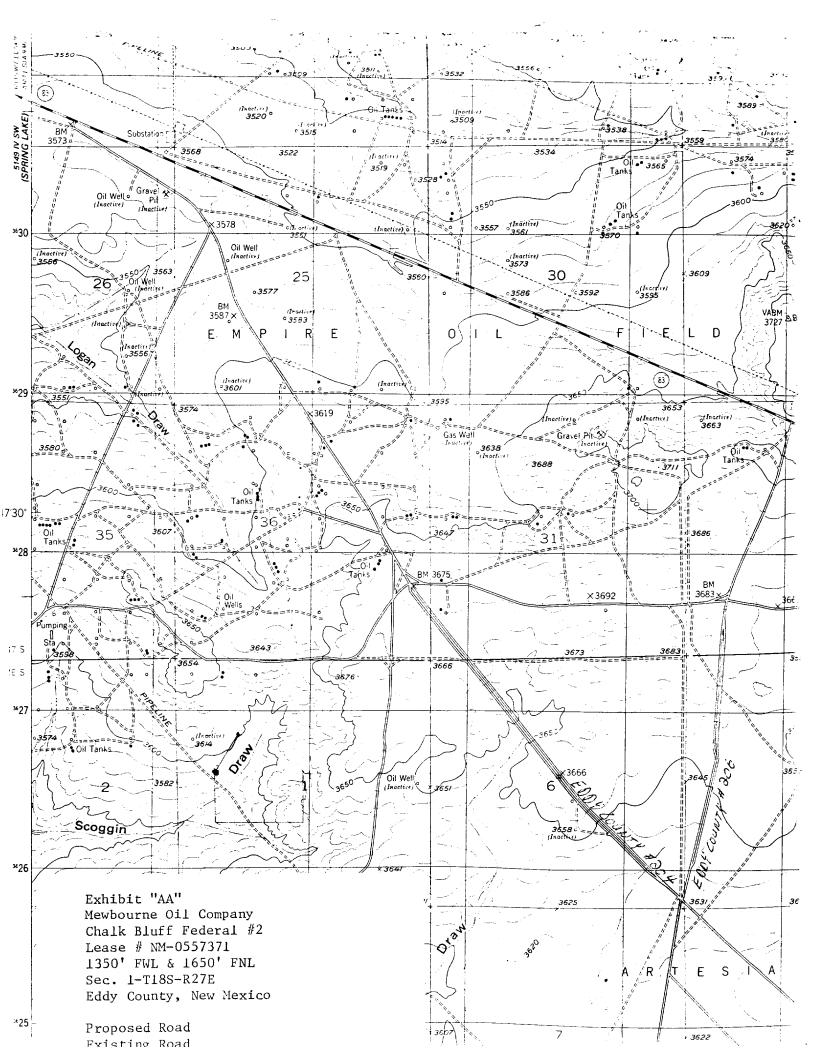
# MAP ID NO. 97

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

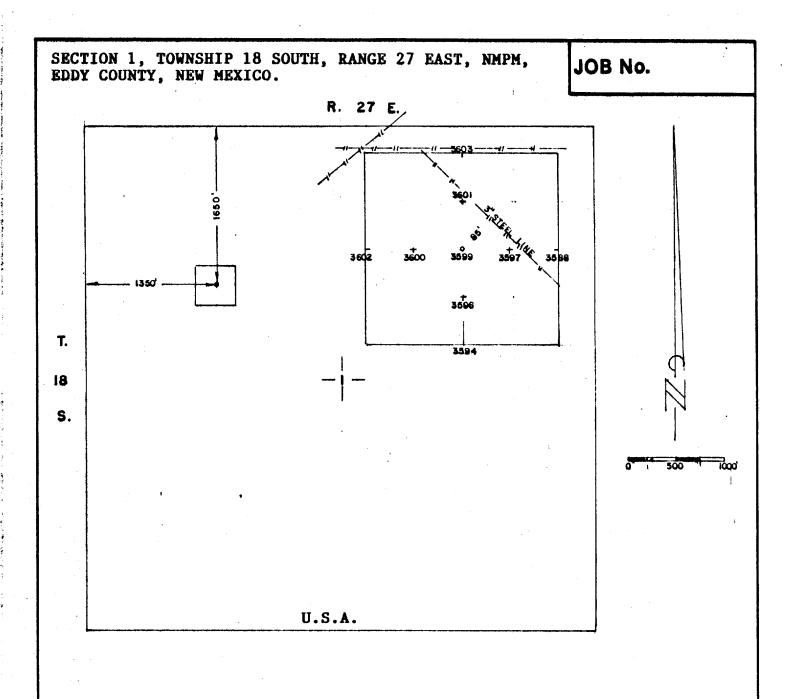
API NO. 30-015-26741











# 12. CERTIFICATION:

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

April 2, 1991

Date

W.H. Cravey

Production Superintendent

Mewbourne Oil Company

#### 10. OTHER INFORMATION:

- A. The geologic surface formation is hard clay interspersed with sand and chert outcroppings. Vegetative cover is generally sparse and consist mostly of greasewood and bear grass.
- B. The estimated tops of geologic markers are as follows:

/		
	Cisco	7740 <b>'</b>
2100 °	Canyon	8350'
3720 <b>'</b>	Strawn	8900 <b>'</b>
4930 ,	Atoka	9500
5900 <b>√</b> ∕	Morrow	√9600'
6900 <b>V</b>	Mississippian	10100'
	4930 5900√/	2100 Canyon 3720 Strawn 4930 Atoka 5900 Morrow

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

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

Oil: Penrose @ 1520'.

Gas: Wolfcamp @ 6900'.

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

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

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

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

H. Testing and Coring Program: Possibility of 4 DST's in the

following zones:

Wolfcamp, Cisco, Strawn, Morrow. No cores are planned

at this time.

Logging: Gamma Ray - Spectral

Density - Dual Spaced Neutron Log; T.D. to surface Gamma Ray - Dual Latero Log

Microguard Log; T.D. to Intermediate casing.

- I. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the weight.
- J. Anticipated Starting Date: As soon as possible after BLM approval.

#### 11. OPERATOR'S REPRESENTATIVE:

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

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

#### 5. SOURCE OF CONSTRUCTION MATERIALS:

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

#### 6. METHODS OF HANDLING WASTE DISPOSAL:

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

#### 7. ANCILLIARY FACILITIES:

A. None required.

#### 8. WELLSITE LAYOUT:

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

#### 9. PLANS AND RESTORATION OF THE SURFACE

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

#### MULTI-POINT SURFACE USE AND OPERATING PLAN

#### MEWBOURNE OIL COMPANY

#### CHALK BLUFF FEDERAL WELL NO. 2

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

#### EDDY COUNTY, NEW MEXICO

#### NEW MEXICO LEASE NO. NM-0557371

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

#### 1. EXISTING ROADS:

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

#### 2. LOCATION OF EXISTING WELLS:

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

#### 3. LOCATION OF PROPOSED FACILITIES:

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

#### 4. LOCATION AND TYPE OF WATER SUPPLY:

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

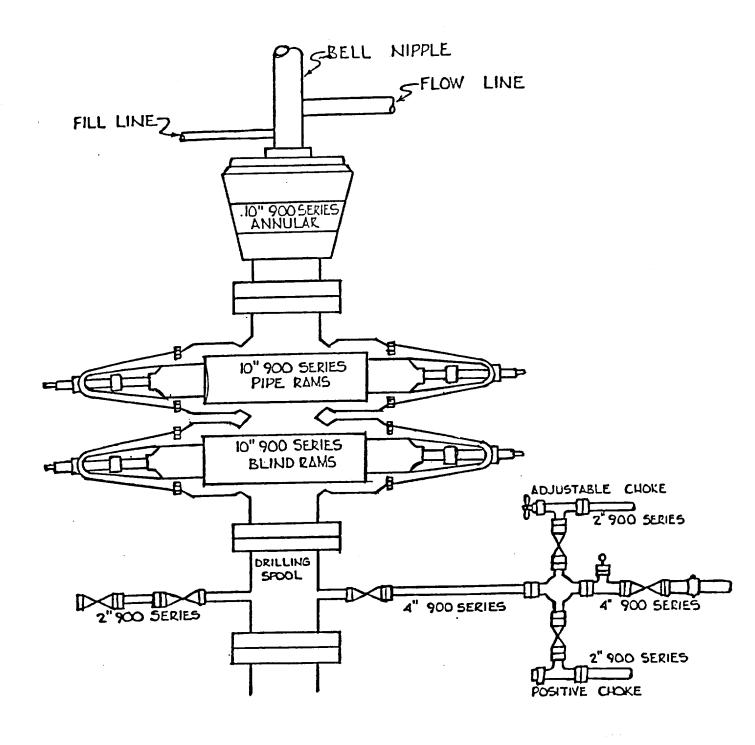


Exhibit "D"

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

# State of New Mexico inergy, Minerals and Natural Resources Depart

Form C-162 Revised 1-1-85

# **OIL CONSERVATION DIVISION**

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

MERCHANTE AT1			<u></u> .			1	_
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3. If more than one loan	n of different overachip is	definited to the we	A, have the in	lesset of all owner	l book case	olidated by comments	
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or until a non-standard	unit, eliminating such inter	est, has been approx	ed by the Div	ielos.	•		
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Form 3160-3 (November 1983)

### SUBMIT IN TR Other instruct

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

UNITED STATES

(tormerly 9-331C)	DEPARTMENT	OF THE IN	ITEDIOD.			\
					5. LEASE DESIGNATION	AND SERIAL NO.
	BUREAU OF	LAND MANAGE	EMENT	<u> </u>	NM-0557371	
APPLICATION	FOR PERMIT 1	O DRILL, D	EEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
1a. TYPE OF WORK	LL 🛚	DEEPEN [	PLUG B	<b>∆</b> CK □	7. UNIT AGREEMENT 1	NAMB
b. Type of Well	LL LA	DELITER L	J 1200 B	~ <b>u</b> (		
OIL GA	S OTHER		SINGLE MUL-	TIPLE	8. FARM OR LEASE NA	MB
2. NAME OF OPERATOR	ELL LX OTHER		RECEIN		Chalk Bluf	f Federal Co
Membourne (	Oil Company			·- <del>-</del>	9. WELL NO.	
3. ADDRESS OF OPERATOR	our company		B - YAM	1991	_ 2	SOS
P.O. Box 5	270 Hobbs, New	Mexico 883	241		10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (Re	port location clearly and	in accordance with	any State requirements(*)	D.	North Illi	
At surface	ancol Bur c	14501 EM	ARTESIA, O	FFICE	11. SEC., T., R., M., OR AND SURVEY OR A	
At proposed prod. son	1350' FWL &	TOOU TWE	111.1			
	Same				Sec. 1-T18	
14. DISTANCE IN MILES &	ND DIRECTION FROM NEAR	REST TOWN OR POST	OFFICE*		12. COUNTY OR PARISE	i 13. STATE
7 miles Sou	theast of Artes	ia, New Mex	ico		Eddy	N.M.
15. DISTANCE FROM PROPULOCATION TO NEAREST	SED*		16. NO. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL	
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	1350'	320		320	
18. DISTANCE FROM PROP- TO NEAREST WELL, DI	ORED LOCATIONS		19. PROPOSED DEPTH	20. RO	TARY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	IS LEASE, FT.		10,200'		Rotary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)	. •			22. APPROX. DATE W	ORK WILL START*
35	99' GR				Upon BLM	approval
23.		PROPOSED CASIN	NG AND CEMENTING PROG	RAM		
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER FO	OT SETTING DEPTH	. 1	QUANTITY OF CEME	INT
17 1/2"	13-3/8"	61#			sks. Class "C"	
12 1/4"	9-5/8"	36#	2,600	- 800	sks. Class "C"	Tie back in
				_	surface-	
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Mud Program:					7	0-+ ID-1 5-10-91
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/(11(1)' / P	MILL Presh Wale	L SET WING TT	me. Lui as necu	-4.		
2 600 - 8.5	500' Cut brine v	with lime fo	or pH control. Wi	t. 9.2-9	9.6 ppg, WL - N	C. LCM
2,000	as needed.		•			
8 500' - 10.2	200' Cut brine v	with Drispac	, salt gel, lime,	soda a	ash, and starch	. Wt. 9.2-
0,500 = 10,5	9.6 ppg. 1	WL 10 cc or	less. Raise weig	ght acco	ordingly if abn	ormal
		are encounte				
BOP Program	-					
900 series BO	OP and Hydril o	n 13-3/8" su	rface casing and	on 9 5/	8" intermediat	e casing.

Gas is not dedicated. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal zone. If proposal is to drill or deepen directionally, give preventer program, if any,	is to deepen or pertinent data	plug back, give on subsurface lo	data on present productive cations and measured and t	zone and rue verti	proposed r cal depths.	iew pr Give	oductive blowout
81G NED Mary	TITLE	District	Superintendent	DATE	April	2,	1991
(This space for Federal or State office use)							

APPROVED BY \_

CONDITIONS OF APPROVAL, IF ANY: NSL-3004 APPROVAL SUBJECT TO
Appr. 4-15-71 GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

\*See Instructions On Reverse Side

N.O.S. 3-12-91

444 × 55

1-0-1-2: 2-13-9-1 21-14-14-18:13 Form 3160-5

# **UNITED STATES**

FORM APPROVED

(June 1990)		T OF THE INTERIOR AND MANAGEMENT	JUN 2 0 1991		Budget Bureau No. 1004-0135 Expires: March 31, 1993
	BUKEAU OF I	AND MANAGEMENT	0.6.0	3.	Lease Designation and Serial No. NM-0557371
	SUNDRY NOTICES	AND REPORTS ON W	O. C. D.	6.	If Indian, Allottee or Tribe Name
Do not use	this form for proposals to dri	ll or to deepen or reentr	v to a different reser	rvoir.	•
	Use "APPLICATION FOR	R PERMIT—" for such p	TOPO PAISIT LAND MA		
	SUBMIT	IN TRIPLICATE	* RECEIVED	7.	If Unit or CA, Agreement Designation
I. Type of Well	- 6-		MAVO	31	
Oil Well	Gas Well Other		MAY 24 1991	8.	Well Name and No.
2. Name of Operat	ne Oil Company	/_	DVO	$H^{\circ}$	nalk Bluff Federal Com #2
3. Address and Tel			DYST. 6 N.M.	7 1	30-015-26741
	ox 7698, Tyler, Te	xas 75711	(%)	~ / l	Field and Pool, or Exploratory Area
	II (Footage, Sec., T., R., M., or Survey De	scription)	TOON, New they		orth Illinois Camp Morrow
1350' F	WL & 1650' FNL of			<del></del>	County or Parish, State
1000 1	WE Q 1000 THE OF	, 12.00			Eddy, New Mexico
12. CH	ECK APPROPRIATE BOX(	s) TO INDICATE NATU	JRE OF NOTICE, F	REPORT,	OR OTHER DATA
TYI	PE OF SUBMISSION		TYPE OF A	CTION	
	Notice of Intent	Abandonn	nent		Change of Plans
		Recomple			New Construction
	Subsequent Report	Plugging	Back		Non-Routine Fracturing
		Casing Ro	•		Water Shut-Off
L	Final Abandonment Notice	Altering (	Casing pud & set Pip	20	Conversion to Injection
		Other	pud d see III		Dispose Water (Note: Report results of multiple completion on Well
13 Describe Propo	and as Completed Operations (Clarks and				Completion or Recompletion Report and Log form )
give subsu	rface locations and measured and true vertice	a depths for all markers and zones	pertinent to this work.)*	of starting any	proposed work. If well is directionally drilled,
5/13/91 -	Spud @ 8:00 PM 5/	13/91.	•••		
5/15/91 -	Ran 13 jts 13-3/8	" 61# ST&C surf	ace casing se	et at	416'. Cemented with
	100 sxs Class "C"	thixset w/5# f	locele, 5# G	ilsoni	te & 3% CaCl and
	100 sxs Class "C"	$w/6\% \text{ ge1}, \frac{1}{2}\# \text{ f}$	locele, 5# G	ilsoni	te and 250 sxs Class
	"C" w/3% CaCl. P	lug down @ 9:45	AM. Did not	t circ	ulate. WOC 6 hrs.
	ragged with in at	84' At 3:00	roulated est	w/100 25 e	sxs Class "C" w/3% xs to pit。WOC 11 hrs.
	Pressure tested t			•, 40 3	ks to pitt mod ii mist
				•	•
5/20/91 -	Ran 60 jts 9-5/8"	36# J-55 ST&C	Intermediate	casin	g set at 2610' K.B.
	Cemented w/825 sx	s Class "C" + 6	% gel + 5# G:	ilsoni	te + ½# flocele +
	2% CaCl followed	by 200 sxs Clas	65 ''U'' + 2% U	aulata	d 125 sxs cement to
	pit. WOC 18 hrs.		it nera. Crr		d 123 SXS Cement to
	pre- 1100 10 1115.			•	
14. I hereby certif	that the pregoing unit and correct	<del></del>			
Signed	10 1 1	Tille Engr. (	Oprns. Secret	arv	Date 5/20/91
	Belleral or State office use)	Tille	1		_ Date

MECENTED

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 Unite or representations as to any matter within its jurisdiction.

Approved by Conditions of approval, if any:

**ACCEPTED FOR RECORD** 

CARLSBAD, NEW MEXICO

\*See Instruction on Reverse Side

FECTIVED	RECEIVED	
(June 1990) DEPARTMEN	TED STATES T OF THE INTERIOR  AND MANAGEMENT  O. C. D.	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.
(IIN 6)	AND REPORTS ON WELLS  ARTESIA, OFFICE	
Do not use this form for proposals to dri	III or to deepen or reentry to a different reservoir.  R PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Gas Well Well Other		8. Well Name and No.
2. Name of Operator		Chalk Bluff Federal Com #2
Mewhourne Oil Company		9. API Well No. 30-015-26741
P. O. Box 7698, Tyler, Te	xas 75711 ·	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey De		North Illinois Camp Morrow
1350' FWL & 1650' FNL of	Sec. 1, T18S-R27E	11. County or Parish, State
		Eddy, New Mexico
12. CHECK APPROPRIATE BOX(	s) TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	· · · · · · · · · · · · · · · · · · ·
Notice of Intent	Abandonment	Change of Plans
Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing
, .	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing Other Run 5-1/2" casing	Conversion to Injection
	Other Rull 3-1/2 Casting	Dispose Water (Note: Report results of multiple completion on Well
	I  If persinent details, and give pertinent dates, including estimated date of start call depths for all markers and zones pertinent to this work.)*	Completion or Recompletion Report and Log form ) ing any proposed work. If well is directionally drilled,
Cemented 1st stage wi + 3/10% CFR-3. Taile CFR-3 + 3# Gilsonite 1000#. Held OK. Drop 6/17/91 - Cemented 2nd stage wi	N-80 casing set at 10,148!. DVT ! 76 th 260 sacks Hal-Lite Class "H" w/5# ed in with 300 sacks Premium containing + 5# KCL. Plug down with full return bomb open DVT. Circulated 6 hrs. th 260 sacks Hal-Lite Class "C" contain with 200 sacks Prem H cement. Plug Closed DVT. WOC 18 hrs. Pressure test	Gilsonite, + 1/4# Flocele ng 5/10% Halad-22A + 3/10% ns. Pressure tested to aining 3# Gilsonite + g down 4:15 PM 6/16/91 sted to 1500#. Held OK.
	en en en en en en en en en en en en en e	e a, no 5.21
	en en en en en en en en en en en en en e	, 3° 4'.
	/	
14. I hereby certify that the threguing three and correct	ow Title Engr. Oprns. Secretary	Page 6/18/91
(This space for rederal or State office use)		CEPTED FOR RECORD
Approved by	Title	Date
		308 JM 2   1991
Title 18 U.S.C. Section 1001, makes it a crime for any person	n knowingly and willfully to make to any department or agency of the Unit	ed States any false, fictitious or fraudulent statements
or representations as to any matter within its jurisdiction.		DI SPAD NEW MEYICO

\*See Instruction on Reverse Side

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Form 3160-5 (June 1990)

# **UNITED STATES**

AUG 2 7 1991

Budget Bureau No. 1004-0135

FORM APPROVED

<del>50</del>5 7 3 I99I

	LAND MANAGEMENT	O. C. D.	Expires: March 31, 1993  5. Lease Designation and Serial No.
CUMPRY NOTICES	AND DEDODTE ON WELL	ARTESIA, OFFICE	NM-0557371
Do not use this form for proposals to dr	AND REPORTS ON WELL: ill or to deepen or reentry to R PERMIT—" for such propos	a different reservoir.	6. If Indian, Allottee or Tribe Name
SUBMIT	IN TRIPLICATE		7. If Unit or CA, Agreement Designation
1. Type of Well	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Oil Gas Well Other	·		8. Well Name and No.
2. Name of Operator  Mewbourne Oil Company 1			Chalk Bluff Federal Com #2
3. Address and Telephone No.			30-015-26741
P. O. Box 7698, Tyler, Te			10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey De	·		North Illinois Camp Morrov
1350' FWL & 1650' FNL of	Sec. 1, T18S-R27E		11. County or Parish, State
			Eddy, New Mexico
CHECK APPROPRIATE BOX	s) TO INDICATE NATURE	OF NOTICE, REPOF	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
Notice of Intent	Abandonment		Change of Plans
Subsequent Report	Recompletion		New Construction
2002ednest Kelou	Plugging Back Casing Repair	•	Non-Routine Fracturing
Final Abandonment Notice	Altering Casing	in t	Water Shut-Off Conversion to Injection
		orate & Treat	Dispose Water
			(Note: Report results of multiple completion on Well
Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true vertical)	Il pertinent details, and give pertinent dates, i cal depths for all markers and zones pertine	ncluding estimated date of starting nt to this work.)*	any proposed work. If well is directionally drilled,
7/10/01 ** 1 6: 1	55 5 3 (0)		
7/10/91 - Made final cut-c to 3000#. Tagge			tubinghead and tested 414 DV tool @ 7606'.
7/11/91 - Pressure tested	casing to 1500#.	Held OK. Dri	lled out 192' cement
	ed casing to 1500#		ng and tagged cement
@ 10,090'. Dril	led out 24 to flo	at collar at	10,114 . Tested casing
to 1500#. Held	OK.	and the second of the second o	
8/12/91 - Perforated 9999'	-10.024   4 SPF 1	01 holes Ac-	idized with 5000 gale
7-1/2% HCL. ISD	P 7350#, 5 min 710	0#, 10 min 695	50#; 15 min 6800#.
Max treating pre	ss 7500#. Avg tre	ating press 8	100#. Avg injection
rate 4.4 BPM.			
		1	
en en en en en en en en en en en en en e		Antonio (1906) — regaligationga Maria (1906) — regaligationga Maria (1906) — regaligation	
-0/0			,
14. I hereby dentify that the fuggioing is true and correct			
Signed Muyson Smy	Title Engr. Oprn	s. Secretary	B/16/91
(This space for Feyeral or State office use)			ACCEPTED FOR RECORD .
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.

# RECEIVED

SEP 1 1 1991 Form 3160-5 UNITED STATES FORM APPROVED (June 1990) Budget Bureau No. 1004-0135 DEPARTMENT OF THE INTERIOR Expires: March 31, 1993 O. C. D. **BUREAU OF LAND MANAGEMENT** 5. Lease Designation and Serial No. ARTESIA OFFICE NM-0557371 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allonce or Tribe Name 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 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well Oil Well Other 8. Well Name and No. 2. Name of Operator Chalk Bluff Federal Com #2 Mewbourne Oil Company 9. API Well No. 3. Address and Telephone No. . 30-015-26741 P. O. Box 7698, Tyler, Texas 75711 10. Field and Pool, or Exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) North Illinois Camp Morrow 11. County or Parish, State 1350' FWL & 1650' FNL of Sec. 1, T18S-R27E Eddy, New Mexico CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion **New Construction** Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection Other . . . Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form 1 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\* 8/17/91 - Rigged up Western to acidize perfs 9999-10,243' using 10,000 gals gelled 15% HCL with 10,000 gals CO, containing 2 gal I-22, 1 gal Clay Master 4, 1 gal FS-2, 2 gal Nine-40, 6 gal Acigel & 5 gal citric acid liquid per 1000 gals acid. Pumped as follows: 20,000 Gals Acid/CO<sub>2</sub> 6 BPM - total rate @ 9200#. Spotting 5 Ball Sealers; 6 Bbls Foam. Tubing loaded with 38 bbls pumped away. Had good ball action throughout but swabbed no noticeable break in treating pressures. Min Press: 8500#. Max Press: 9500#. Avg Press: 9200#. Avg Rate: 6 BPM. ISDP: 6600# (5 Min=6400#; 10 Min=6200#; 15 Min=6150#). Rigged down Western. Started flowing well to pit on 24/64" choke. Title Engr. Oprns. Secretary

\*See Instruction 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 Jalse, fictitious or fraudulent states

Approved by Conditions of approval, if any:

SEP - 5 1991



# O. C. KEN REYNOLDS-PRESIDENT ARTESIA OFFICE

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

505/623-5070 ROSWELL, NM

P. D. BOX 1498 ROSWELL, NEW MEXICO 88202-1498 505/746-2719 ARTESIA, NM

June 18,1991

Mewbourne Oil Company P.O. Box 5270

Hobbs, N.M. 88241

REF: Chalk Bluff Federal Comm #2

Gentlemen:

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

416' - 1/2° 917' - 1° 1423' - 1° 1791' - 3/4° 2093' - 1/2° 2610' - 1° 3088' - 1° 3564' - 1°	4715' - 1 1/4° 5182' - 1 1/2° 5222' - 2 1/4° 5306' - 3 1/4° 5398' - 4° 5459' - 4° 5521' - 4° 5583' - 3 3/4°	5766' - 4 1/2° 5829' - 4 1/4° 5891' - 4 1/2° 5951' - 3 3/4° 6013' - 3 3/4° 6075' - 3 3/4° 6136' - 3 1/2° 6197' - 3°	6944' - 2 1/2° 7441' - 2° 7939' - 2° 8435' - 1 3/4° 8623' - 1° 9093' - 1° 9570' - 1 1/4° 9638' - 3/4°
3905' - 1/2°	5645' - 4 1/2°	6253' - 3°	9638' - 3/4° 10140' - 3/4° TD
4231' - 1 1/2°	5705' - 4 1/2°	6443' - 2 1/4°	

Sincerely,

Arnold Newkirk Vice-President

STATE OF NEW MEXICO)

COUNTY OF CHAVES

The foregoing was acknowledged before me this 18th day of June 1991 by Arnold Newkirk.

MY COMMISSION EXPIRES

October 07,1992

NOTARY PUBLIC