UIC - I - 8-1, 2 & 3

WDWs-1, 2 & 3
PERMITS,
RENEWALS,
& MODS (15 of 18)

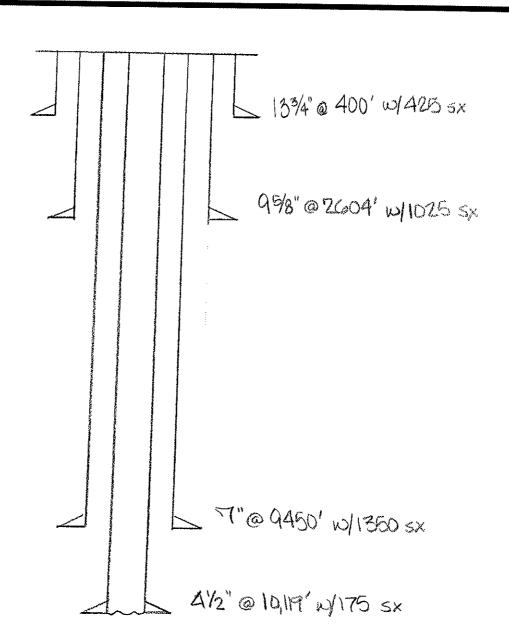
2017



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-T S-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 NOTICES	AND DEPORTS ON HELL	NM-0557371
Do not use this form for proposals to dri	AND REPORTS ON WELLS ill or to deepen or reentry to a different reservoir. OR PERMIT-" for such proposals	6. If Indian, Allottee or Tribe Name
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. 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 505-393-5905		30-015-26575
Location of Well (Footage, Sec., T., R., M., or Survey Des	ecription)	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
790' FSL & 2250' FWL, Sec.1 T-18S R-27E		11. County or Parish, State
		Eddy, NM
CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPORT, O	R OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
ξ	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Final Abandonment Notice	Casing Repair	☐ Water Shut-Off
CL) Final Abandonment Notice	Altering Casing	Conversion to Injection
	☑ Other MIT	Dispose Water (Note: Report results of multiple completion on West Completion or Recomplation Report and Log form.)
The above caption well was successfully MIT's The pressure chart is enclosed. If any question, please call.	· ·	OCD - ARTESIA
	NOV 1 5 2000 BLM	OCT - ARTESIA
. I hereby certify that the foregoing is true and correct gned Land July his space for Féderal or State office use)	Trite N.M. Young District Manager	Date _11/01/00
proved by Record Only inditions of approval, if any:	Title	Date
le 18 U.S.C. Section 1001, makes it a crime for any person atements or representations as to any matter within its jurisd	knowingly and willfully to make to any department or agency of the Unite	d States any false, fictilious or fraudulent

2250 FWL ATE ENDICA NIM NIM 0557371 Mark Town Chalk Bluff FEO #1

CISE

RECEIVED

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1991 US NUL;

FORM APPROVED

Bodger Bureau No. 1004-0135

Expires: March 31, 1993

	NT OF THE INTERIOR	1991 6 9 1991	Expires: March 31, 1993
BUKEAU OF	LAND MANAGEMENT	O. C. U.	5. Lease Designation and Serial No.
SUNDRY NOTICES	AND REPORTS ON WEL	ARTESIA CERICE	NM-0557371
Do not use this form for proposals to d	rill or to deepen or recets to	Lo	6. If Indian, Allottee or Tribe Name
Do not use this form for proposals to d Use "APPLICATION FO	R PERMIT—" for such prop	osais	
SUBMI	T IN TRIPLICATE	MELLINE	7. If Unit or CA, Agreement Designation
1. Type of Well		MAY 24 1981	
Other Well Other		77 24 10- 4	8. Well Name and No.
2. Name of Operator	10.00	37 6 N.M.	CHALK BLUFF FED. COM #1
Mewbourne Oil Company	lo and	¹⁷ 6	9. API Well No.
3. Address and Telephone No.	To the state of th		30-015-26575
P. O. Box 7698, Tyler, Te	xas /5/11	Now Marine	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D		CON MINISTRA	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, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION	•	TYPE OF ACTION	
Notice of Intent	Abandonment		
,	Recompletion		Change of Plans
Subsequent Report	Plugging Back		New Construction Non-Routine Practuring
	Casing Repair		Water Shut-Off
Final Abandonment Notice	Altering Casing		Conversion to Injection
	X Other Fre	icture Treat	Dispose Water
D Sharib B			(Note. Report results of multiple completion on Well Completion or Recompletion Report and Log form)
 Describe Proposed or Completed Operations (Clearly state algive subsurface locations and measured and true vertice) 	i pertinent details, and give pertinent dates, at depths for all markers and zones pertin	including estimated date of starting	any proposed work. If well is directionally drilled,
	, , , , , , , , , , , , , , , , , , , ,	overto una work, j	
4/24/91 - Western fractur	e treated Morrow S	Sand nerfs 9936	-461 99641671
down tubing with	n 10.000 gals 73 d	lownhole slurry	anality Rinary
westioam carryl	DE TOTAGE 2014O R	aesh ACERAC Bla	ck Wastnron-3
ocreened out wi	en 545 gals CO ₂ /N ₂	. 2% KCL water	Screened out at
TO TOO! WILL IA!	ov gais or og stag	e in tormation	and 545 gale fluch
TH CODING. PUM	oea 110 sxs Pronna	nt into format	ion and laft 25
Sacks in Casing	ADO TY CACKE in t	uthing ECBD Q	700# 5 7600#
10:20 AM.	13 mins 0800#. Avg	10.0 BPM at 8	200#, Job complete
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		•	40050
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			JUN 1 4 1991
			535
\mathcal{O}			
			CARLSBAD, NEW MEXICO
4. I hereby certify that the fuegoing is arth and currect	n /		
Signed August Many	Title Engr. Opr	ns. Secretary	Date 5/21/91
(This space for Peneral or State office use)			
Approved by	Title		Date
and a spinores, it any:			Date

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 P.O. Box 5270 Hobbs, New Mexico (505) 393-5905 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 Abandonment Change of Plans Recompletion **New Construction** ___ Subsequent Report Plugging Back Non-Routine Fracturing Water Shirt-Off Casing Repair 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.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) Mewbourne Oil Company here by requests temporarily abandon status pending further evaluation of the lease for the above well. The well was spudded 12/22/90. APPROVED FOR 12 MONTH PERIOD ENDING_ 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 frandulent 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. LAW

*See Instructibic角符络的种内科EW MEXICO

FORM APPROVED п 3160-5 **UNITED STATES** Budget Bureau No. 1004-0135 : 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 i. Type of Well Oil Well Gas Well 8. Well Name and No. 2. Name of Operator Chalk Bluff Fed. Com. #1 Mewbourne Oil Company 3. Address and Telephone No. 30-015-26575 10. Field and Pool, or Exploratory Area P.O. Box 5270 Hobbs, New Mexico
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 88241 (505) 393-5905 N. Illinois Camp 11. County or Parish, State 2250' FWL & 790' FSL of Sec. 1-T18S-R27E Eddy Co., N.M. 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, 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 Water Shut-Off Casing Repair Final Abandonment Notice Altering Casing Conversion to Injection ___ Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* 09/08/93 Abandon Morrow Perfs 9861' - 9967' - Set CIBP @ 9800' - cover w/35' cement. - Recomplete in Cisco Formation - Test & evaluate. - If unecomomical recomplete in Wolfcamp - Test & evaluate. 14. I hereby certify 09/07/93 Petroleum Engineer Title (This space for Federal or State office use) (ORIG. 'SGD.) JOE G. LARA

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

pproved by

onditions of approval, if any:

PETROLEUM ENGINEER

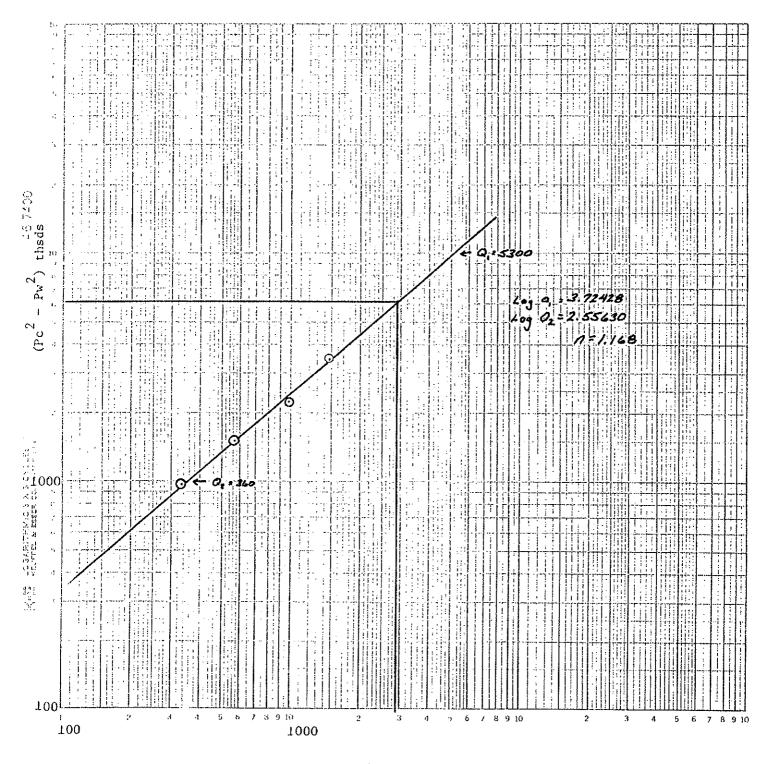
RECEIVED Corn: 3160-5 UNITED STATES FORM APPROVED inc 1990) Budger Hureau No. 1004-0135 SEP 2 8 1992 DEPARTMENT OF THE INTERIOR Expires: March 31, 1993 **BUREAU OF LAND MANAGEMENT** 5. Lease Designation and Serial No. NM-0557371 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allonce or Tribe Name 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 Atea 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 (Note. Report results of multiple completion on Well acidize & frac 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. 8/23/92 - RU swab. FL @ 7000'. Swabbed dry in 3 runs. Continued swabbing. Recovering load. 14. I hereby certify that the fugegoing by true was

Approved by Conditions of approval, if any: Title $B > \mathbb{R}^{n}$

Title Engr. Oprns. Secretary

9/11/92

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1 2. 3 4. 5 NO. 1 2. 3. 4. 5 Pc NO 1 2 3.	6.217 6.217 6.217 6.217 6.217 Fr .65 .68 .68	Temp Pc 2 22 21 19	12 17 .•R 511 511 511 505 64 47 66	1.952 7.134 7.989 Tr 1.37 1.37 1.37 1.37 2.35 7 8.2 5125 4609 3865	8.1 98 150 224	Pressure Pm 440 460 460 440 2 Ge A. 910 sp 906 cr -8.2 (1) 85.7 01.7 45.7	Floring Florin	Temp. deter Ft. .009 .009 .009 .015 descerben of Liquid ty Separate ty Flowing ure erature	Fratio _ Hydrocor Gas_ Fluid_ 6 3	Gravity Factor Fa 1.225 1.225 1.225 1.225 1.225 1.225 1.225	Dry G .660 xxx	Compre Factor, 1.048 1.051 1.051 1.051 as	.S.1.A.	× × × .	337 574 980 1446 —Mct/bbl. Deq. XXXXX
1 2. 3 4. 5 NO. 1 2. 3. 4. 5 Pc NO.	6.217 6.217 6.217 6.217 6.217 Fr .65 .68 .68	Temp P.2 22 21	12 17 .•R 511 511 511 505 64 47 66	1.952 7.134 7.326 7.989 T _r 1.37 1.37 1.37 1.35 7 R.2 5125 4609	8.1 98 150 224	Pressure Pm 440 460 460 440 Z Ge A. 910 .906 .906 Cr	Floring Florin	Temp. deter Ft. .009 .009 .009 .015 descerben of Liquid ty Separate ty Flowing ure erature	Fratio _ Hydrocor Gas_ Fluid_ 6 3	Gravity Factor Fa 1.225 1.225 1.225 1.225 1.225 1.225 1.225	Dry G .660 xxx	Compre Factor, 1.048 1.051 1.051 1.051 as	.S.1.A. R	× × × .	337 574 980 1446 —Mct/bbl. Deq. XXXXX
1 2. 3 4. 5 NO. 1 2. 3. 4. 5 Pc, NO 1 2 3. 4. 5	(24 H 6.217 6.217 6.217 6.217 7, .65 .68 .68 .65	P _c ² 22 21 19 16	1.2 1.7 .•R 511 511 505 64 47 66 39	1.952 7.134 7.989 T ₁ 1.37 1.37 1.37 1.35 7 R ₂ 5125 4609 3865 2686	8.1 98 150 224	Pressure Pm 440 460 460 440 2 Ge A. 910 sp 906 cr -8.2 (1) 85.7 01.7 45.7	Floring Florin	w Temp. deter Ft009 .009 .009 .015 discarbon of Liquid ty Separate ty Flowing ure reture R ² R ² R ² R ²	Florito Hydrocor Gas Fluid_6 3	Gravity Factor Fa 1.225 1.225 1.225 1.225 1.225 1.225	Dry G .660 xxx	Compre Factor, 1.048 1.051 1.051 1.051 as	.S.1.A. R	X X X .	337 574 980 1446 — Mct/bbl. Deq. (XXXXX
1 2. 3 4. 5 NO. 1 2. 3. 4. 5 Pc, NO 1 2 3. 4. 5	6.217 6.217 6.217 6.217 6.217 Fr .65 .68 .68	Temp Pc ² Pu 22 21 19 16	1.2 1.7 .•a 511 511 511 505 64 47 66 39	1.952 7.134 1.326 7.989 Tr 1.37 1.37 1.37 1.35 7 2.2 5125 4609 3865 2686	98 150 224 342	Pressure Pm 44(46(44(2 Gc A. 910 .906 .905 Cc -R.² 85.7 01.7 45.7 24.7	Flor Flor F Comparison F Com	Temp. Gator Ft009 .009 .009 .015 drocarbon of Liquid ty Separato ty Flowing ure prature R 2 R 2 R 2 R 15.025	Florito Hydrocor Gas Fluid_6 3	Gravity Factor Fa 1.225 1.225 1.225 1.225 1.225 1.225 1.225	Dry G .660 xxx	Compre Factor, 1.048 1.051 1.051 1.051 as	.S.1.A. R	X X X .	337 574 980 1446 —Mct/bbl. Deq. XXXXX
1 2. 3 4. 5 NO. 1 2. 3. 4. 5 Pc. NO 1 2 3. 4. 5 NO.	(24 H 6.217 6.217 6.217 6.217 7, .65 .68 .68 .65	Temp Pc ² Pu 22 21 19 16	1.2 1.7 .•a 511 511 511 505 64 47 66 39	1.952 7.134 7.989 T ₁ 1.37 1.37 1.37 1.35 7 R ₂ 5125 4609 3865 2686	98 150 224 342	Pressure Pm 44(46(44(2 Gc A. 910 .906 .905 Cc -R.² 85.7 01.7 45.7 24.7	Flor Flor F Comparison F Com	Temp. Gator Ft009 .009 .009 .015 drocarbon of Liquid ty Separato ty Flowing ure prature R 2 R 2 R 2 R 15.025	Florito Hydrocor Gas Fluid_6 3	Gravity Factor Fa 1.225 1.225 1.225 1.225 1.225 1.225	Dry G .660 xxx	Compre Factor, 1.048 1.051 1.051 1.051 as	.S.1.A. R	X X X .	337 574 980 1446 — Mct/bbl. Deq. (XXXXX
1 2. 3 4. 5 NO. 1 2. 3. 4. 5 Pc. NO 1 2 3. 4. 5 NO.	(24 H 6.217 6.217 6.217 6.217 7, .65 .68 .68 .65	Temp Pc ² Pu 22 21 19 16	1.2 1.7 .•a 511 511 511 505 64 47 66 39	1.952 7.134 1.326 7.989 Tr 1.37 1.37 1.37 1.35 7 2.2 5125 4609 3865 2686	98 150 224 342	Pressure Pm 44(46(44(2 Gc A. 910 .906 .905 Cc -R.² 85.7 01.7 45.7 24.7	Flor Flor F Comparison F Com	Temp. deter Ft009 .009 .009 .015 descarben of Liquid ty Separate ty Flowing ure Pratture # 15.025	Florito Hydrocor Gas 1.	Gravity Factor Fa 1.225 1.225 1.225 1.225 1.225 1.225	Dry G .660 xxx	Compre Factor. 1.048 1.051 1.051 1.051 as (xxP	.S.1.A	X X X X	337 574 980 1446 — Mct/bbl. Deq. (XXXXX
1 2. 3 4. 5 NO. 1 2. 3. 4. 5 Pc NO 1 2 3 4 5 NO. 1 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	(24 H 6.217 6.217 6.217 6.217 7, .65 .68 .68 .65	Temp P. 2 22 21 19 16 Well	1.2 1.7 .•a 511 511 511 505 64 47 66 39	1.952 7.134 1.326 7.989 Tr 1.37 1.37 1.37 1.35 7 2.2 5125 4609 3865 2686	98 150 224 342	Pressure Pm 440 460 460 440 2	Flor Flor F Comparison F Com	Temp. Gator Ft009 .009 .009 .015 drocarbon of Liquid ty Separato ty Flowing ure prature R 2 R 2 R 2 R 15.025	Florito Hydrocor Gas 1.	Gravity Factor Fa 1.225 1.225 1.225 1.225 1.225 1.225	Dry G .660 xxx	Compre Factor. 1.048 1.051 1.051 1.051 2.051 3.051 3.051 4.051 4.051	.S.1.A. R	X X X X	337 574 980 1446 — Mct/bbl. Deq. (XXXXX



Q MCF/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		
Methan e	(C1)	87.54		
Ethane	(C2)	7.07	1.886	
Propane	(C3)	2.38	0.654	
I-Butane	(IC4)	0.31	0.100	
N-Butane	(NC4)	0.54	0,169	
I-Pentane	(IC5)	0.20	0.071	
N-Pentane	(NC5)	0.14	0.052	
Hexane	(C6)	0.97	0.399	
Heptanes Plus	(C7+)	0.00	0.000	
		100.00	3.331	
BTU/CU.FT DRY	,	1156	MOLECULAR WT	19.0972
AT 14.650 DRY		1153	MOLLOODA!! VV	19.0972
AT 14.650 WET		1133	26# GASOLINE -	0.578
AT 15.025 DRY		1182		0,570
AT 15.025 WET		1162		
SPECIFIC GRAVITY	.			
CALCULATED		0.660		
MEASURED		0.000		

ND PRESSURES (Pc or ●) WORK SHEET FOR CALCULATION OF WEL.

Form C-122F Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (Pf or TE)

3-18-31	
Z / DATE .	1
WELL NO	,
Chalk Bluff Far	•
LEASE	
Memberine Dil LEASE	
- DMPANY	

. % H₂S __ -Range -% N₂---% co2 < 43 B Ta 374 Township Per 673 L/H 1.000 G .660 GH 6566 Section 6766 X . SCATION: Unit 6466

IN E		***	7	m	4	ហ	ω	7	œ
-	Tw(W.H. •R)	532	535						
N	T _S (B.H. •R)	209	809						
m	$T=(\frac{T_W+T_S}{2})$	570	570						
4	Z (Est.)	008'	062.						
S	TZ	0.754	450.4						
9	GH/TZ	14.399	865.41						
7	e ^S (Table XIV)	1:216	1.727						
80	P _f or r	3249	3249						
G)	P ₁ ² or 🕦	95501	10556						
0.	$P_c^2 = P_f^2/e^s$ or $+$	6.151.7	6151.7 6110.6						
=	Pc or T	5.08HZ	2480.3 2472.0	ď,					
12	$p_{\pm}(\frac{P_W + P_S}{2}) \text{ or } (\frac{P_C + P_I}{2})$	2864.6	2864.6 2860.5						
<u></u>	$P_{\rm f} = (P/P_{\rm ct})$	4.26	4.25						
4	$T_r = (T/T_{cr})$	1,52	7.52						
15	Z (Table XI)	.790	062.						

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

WORK SHEET FOR CALCULATION OF WL (EAD PRESSURES (#5 or P.,)

Form C-1221 Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (or Ps)

COMPANY	Mew borne	LEASE	Chell Bu	A Feet.	WELL NO.		DATE	18-81-5
OCATION: Unit		Section .		Township.	185	Range .	276	
6466	н 9949	L/H	1.00 G	,640 %	% CO ₂ · 4/3	% N ₂	42 % H ₂ S	¹ 2S

- Pa 673 Tor 374

		1		1		<u></u>		1	
LINE			2	ത	4	5	9	7	න
-	T _w (W.H. °R)	532	532	532	532	532	532	532	532
2	T _S (B.H. •R)	809	809	209	809	608	603	603	803
ю	$T=(\frac{T_W+T_S}{2})$	570	015	065	220	570	570	570	570
4	Z (Est.)	528'	,783	. 783	186:	.781	. 780	082.	.792
ഗ	7.2	476.0	446.5	146.5	445.1	445.2	444.8	444.6	451.7
9	GH/TZ	13.7%	14.70H	14.212	14.753	14.749	14.761	14.768	14.537
7	e ^S (Table XIV)	8477	1.736	1.736	1.739	1.739	1.739	1.240	1.725
æ	賽or Ps	2983	2983	2831	283)	2593	2593	2152	2)52
Ø	Jor Ps 2	88983	8898.3	8014.6	8014.6	6723.6	6723.6	4631.1	4631.1
ō	$\mathbf{E} = P_{t}^{2/es} \text{ or } P_{w}^{2} = P_{s}^{2/es}$	5304.3	5126.6	4616.2	4609,0	3867.2	3865.5	2661.7	2684.9
=	賽 or Pw	2303.1	2264.2	2148.5	2146.9	1966.5	1.996.1	1631.5	1638.6
22	$P_{::}(\frac{P_{W}+P_{S}}{2}) \text{ or } (\frac{P_{C}+P_{I}}{2})$	2643.1	7623.6	2489.8	2488.9	2279.8	2279.5	1891.7	1895.3
13	$P_{\rm f} = (P/P_{\rm Ct})$	3.93	3.90	3.70	3.70	3.39	5.39	2.81	2.87
å	$T_{\Gamma} = (T/T_{CI})$	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1,52
ŭ	Z (Table XI)	.783	.783	181.	182'	08%.	086.	.792	.792

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

COMPANY:

PRO WIRELINE

CLIENT:

MEWBOURNE DIL

GAUGE NUMBER:

12235

WELL NAME:

CHALK BLUFF

WELL NUMBER:

TEST NUMBER:

LOCATION:

TEST OPERATOR:

BURRELL

COMMENTS:

4 POINT FLOW TEST RAN AFTER 72 HOUR BUILD-UP

FOSITION

GAUGE SERIAL NUMBER

1 2

3

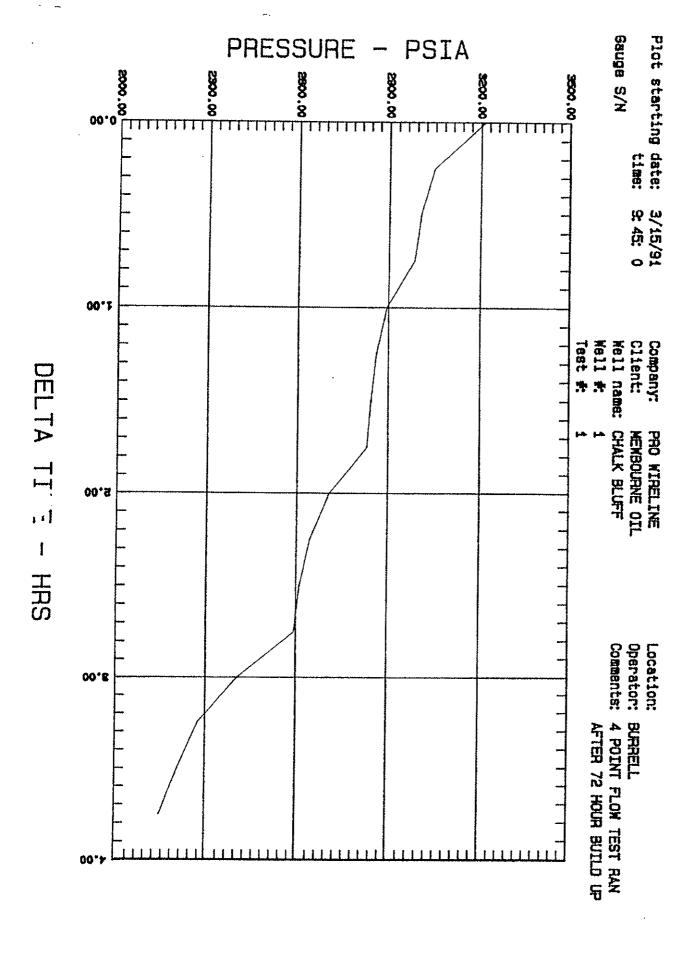
4

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	——————————————————————————————————————	ART RATE 1
10: 0: 0	0.2500	3046.00	3 11	mri smie i
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00	CT	ADT DATE A
10:45: 0	1.0000	2894.00	511	ART RATE 2
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00	CT	ADT DATE A
11:45: 0	2.0000	2707.00	511	ART RATE 3
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: 0	2.7500	2593.00	י אבר איינ	\
12:45: 0	3.0000	2405.00	211	ART RATE 4
13: O: O	3.2500	2276.00		
13:15: 0	3.5000	2210.00		
13:30: 0	3.7500	2152.00	ENI	OF TEST



Form	3160	4
(Nove	mber	1983
(for	merly	9330

UNITED STATES COMMESSIONIN DUPLICATE.

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

		UREAU OF			Marsion		erse side				I. NO.
WELL C	OMPLETION	OR RE	COMPL	ETION	REPORT A	ND LO	G*	G. IV INDIAN,	ALLOTT	EE OR TRIBE	NAME
1a. TYPE OF W		ELAL W	ä. 😧	DRY .	Other			7. I'NIT AGREE	EMENT	NASS	
b. TYPE OF CO		ven 🗀 n	g1,1 puma	0100		lin	<i>//</i> ~				
NEW X	OVER L. F	EEP- PI	re 🗆	DIFF. BESVR.	Other		D	S. FARM OR I.			
2. NAME OF OPE		,			121	120-		1.	Blufi	f Federal	i Com
Mewbouri	ne Oil Co FERATOR	mpany	<u> </u>		-68M	UL 23	1992	0. wr.t. No.			
P. O. Bo	ож 7698, ^ч	Tyler,	l'exas	75711	0	0. C.	D.	10. FIELD AND	POOL,	OR WILDCAT	
4. LOCATION OF V	VELL (Report local			unce with a	ny State requireme	新作的 在	rechize.			s Camp Mo	
	2250 FW.		FSL					11. SEC., T., R. OR AREA	, и., он	BLOCK AND BU	ELVEY
At total depti	• Same							Sec. 1	-T189	5-R27	
			- 1	<u>рікван</u> РІ #30	0-015-2 657	6 1880'80 75		12. COUNTY OF PARISH	1	13. STATE	·····
5. DATE SPUUDED	1		DATE COM	u. (Ready l	o prod.) 18. zi	EVATIONS (DF, RKB,	RT, OB, ETC.)*	19, EL	N.M.	ID.
12/22/90			3/07/9		KB	36251,					
20. TOTAL DEPTH. M 10,120	:	.uo, back f.d., 1 10,079		HOW A	TIPLE COMPL.,	23. ואז	ERVALS LLED BY	IIOTARY TOOLS	<u>.</u>	CABLE TOOL	8
	PERVAL(8), OF THE 9964-6			OM, NAME (MD AND TVD)*	~ ************************************	 	······································		WAS DIRECTION	NAL
· · · · · · · · · · · · · · · · · · ·										Yes	
	AND OTHER LOCH DLL-MSF1							2	7. WAR	NO NELL CORED	
8.		*****		****	ort all strings set	in well)			····		
13-3/8"	WEIGHT, 18.		ACOL		1.8 SIZE			RECORD	[_	AMOUNT PULL	ED
9-5/8"	36#	-	400'		1/2"		<u>- Ci</u>	rc	_	None	
711	26# &	20#	2604 ' 9450 '	!	1/4"	1025	<u>- Ci</u>		-	None	
	2011 0	27#	7430		3/4"	1350	<u>- Ci</u>	rc		None	
9.		LINER RECO	ORD			30.	· · · · · · · · · · · · · · · · · · ·	TUBING RECOR		***************************************	
8122	TOP (MD)	воттом (мп) SACKS	CEMENT*	SCREEN (MD)	SIZE	Ī	DEPTH BET (MD)	P	ACKER SET (N	MD)
4-1/2"	9051'	10119		175		2-3	/8"	98051		98051	
. PERFORATION R	econu (Interval, e	ize and numbe				<u> </u>					
	, 9964-67		',				1	TURE, CEMENT			
	PF, Total				9936-67	LE (MD)	·	HOUNT WAD KIND			
. ,	,				9930-07	·	3000) qals Mod-	101		
							DDT	N2 + 50 ba	LL S	ealers.	<u>Flus</u> l
						·	SCF	bbls 2% K	CILO-W	arcer + 10	000
i.•					t'CTION			TOT IAT	`		,
TR PIRST PRODUC	TION PROD	CCTION METHO			mping—size and	ype of pun	(p)	WELL ST	ATUR (Producing of	
TE OF TEST			~~~~~~~	Plowing				ahut-i	"' Pr{	oducingn	1 1
3/11/91	24 hrs	CHOKE B	784	D'N, FOR T PERIOD	011 BB f	OASNC	ν,	WATER-BEL.		PIL BATIO	
OW, TUBING PRESS.	CASING PRESSU	8/64"	<u>-</u>	-	<u> </u>	886		0		96:1 m	
1600#	The state of the s	24-HOUR	RATE		GAS-MCF.	1	WATER~		· .	TY-API (CORR.)
	DAB (Sold, used for	fuel, vented, c	tc.)	1	886			O []	58		
'Sold											
. LIST OF ATTACH	MENTS							W.	TEN-	FOR RECE)RD
Logs)							التكسا			1
. I bereby tertify	that the foregoin	ng attache	Informati	on is compl	ete and correct at	determine	d from	all available reco	rds DD 1	<u>≤3≲</u> 99	†
SIGNED LA	ymos/	my	n	itle E	ngr. Oprns.	Secre	tary	A	PR 3/1	8/91	

Mare 300 Å	101	ictuding depth in	iterval tested, cu	including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and	38.	GEOLOGIC MARKERS	•
9961' 9967' Sandstone Yates 424' 9861' 9881' Sandstone Yates 424' 0uchen 1138' Crayburg 1464' San Andres 1976' Glorietta 3458' Tubb Drinkard 5376' Abo Canyon 8268' Strawn 8844' Morrow Clastics 9770' Barnett 10016'	FORKATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.			
1989 1989	Lower Mor	9936	12966	Sandstone	NAME	MEAS, DEPTH	TRUE
Queen 1138 Grayburg 1484 San Andres 1976 Glorietta 3458 Tubb 4451 Drinkard 5376 Abo 55794 Molfcamp 55794 Gloso 7666 Canyon 8368 Strawn 8444 Morrow 9454 Morrow 9454 Morrow 9454 Morrow Barnett 10016	Middle Mortow	11986	. T.886	Sandstone	Yates	4241	
Grayburg 1484 San Andres 1976 Glorietta 3458 Tubb 4451 Drinkard 5376 Abo 5376 Abo 5376 Abo 5376 Abo 5376 Abo 5376 Abo 5376 Aborrow 5454 Morrow Clastics 9770 Barnett 10016	-				Oneen	1138	
San Andres 1976 Glorietta 3458 Tubb 4451 Drinkard 53761 Abo 57941 Wolfcamp 64201 Cisco 76601 Canyon 83681 Strawn 88441 Morrow Clastics 97701 Barnett 100161					Grayburg	1484'	
Glorietta 3458 Tubb 451 Drinkard 5376 Abo 5794 Wolfcamp 6420 Cisco 7666 Canyon 8368 8368 Strawn 8444 Morrow Clastics 9770 Barnett 10016'				•	San Andres	19761	
Tubb 4451. Drinkard 5376. Abo (520) Cisco (2anyon 8368. Strawn 8844. Morrow 9454. Morrow Clastics 9770. Barnett 10016.					Glorietta	34581	
Drinkard 5376' Abo	-				Tubb	4451	
Abo					Drinkard	5376	
Wolfcamp 6420' Cisco 7666' Canyon 8368' Strawn 8844' Morrow Clastics 9770' Barnett 10016'	***************************************	-			Abo	,•	
Canyon 8368' Strawn 8844' Morrow 9454' Morrow Clastics 9770' Barnett 10016'	`.					9 20.	:. ,
Canyon 8368' Strawn 8844' Morrow 9454' Morrow Clastics 9770' Barnett 10016'					Cisco	19992	
Strawn 8844' Morrow 9454' Morrow Clastics 9770' Barnett 10016'	. \$				Canyon		1!,
Morrow Clastics 9770' Barnett 10016'		-			Strawn		·
Morrow Clastids 9770' Barnett 10016'					Morrow		
	<u>.</u>				Morrow Clastic	9770 *	
					Barnett	100161	
	•						
						-	
				•			
							
							
							
		***		•		•	
							



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.

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

Sincerely,

Arnold Newkirk Vice-President

STATE OF NEW MEXICO)

COUNTY OF CHAVES

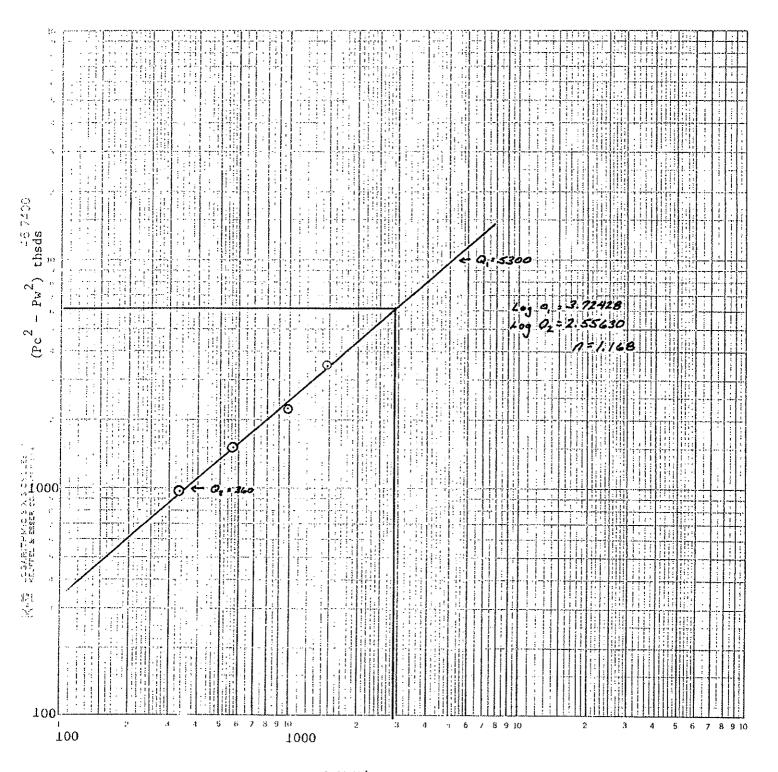
The foregoing was acknowledged before me this 05th day of February 1991 by Arnold Newkirk.

MY COMMISSION EXPIRES

October 07,1992

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL REDEIVED

Y ~	e Test										Test Do						
, , , , , , , , , , , , , , , , , , ,		Initio	al.] Ai	unual			Spc	cia!	03/1	5/9	L			···	
Con	Lari A				/	Course	ction			13	ěCe.,			HA	γ5	7 45	M '91
	Mewbour	ne Oi	1 Com	pany V				wester	n					Unit C			
Poo	Und	esigr	nated			Lotwa	tion	Managa		MA	1Y - 7	199	1	À.	ŘEŽ:		0.55 0.55
	th Illi					1		Morro		1	Orvar	D.			Lease Na	me	
L	pletion Date			Total Depth				•			TESIA,		E	Oha	lk_Bluf	e to	al canal
	3/05/91	Wi.		<u>10,12</u>	()	Al		Perioratio	075'		10	119		Well No		1 - 7 (-	derar
	172" [11	6#		1	0,120	י כ	From	9936	To) 	996	71	1			
The	51/2"	Wi.		d	5et	Ai		Perloratio	U#1					Unit	Sec.	Twp.	Rose]
2	7/8"	6	5.5			9,80	5'	From	Open	T	<u> </u>	End		County	1	18S	· 27E
Typ	e Well - Stng	e - Dra	denhead	_G.G. or G.C). Mul	ltiple:			Packer &	61 X1			ĺ	Comity	m 1 1		
	Single	e Cas	}		_T			Temp. *F	Baro Br	980	<u>5'</u>			State	Eddy	<u> </u>	
	fucing Thru		ŧ	ou Temp. *F • 10,12	- 1	Meds Ar	72		1	3.2	'a				ew Mex	ico	İ
	Tbg.		140	I Co		% CO 2		* N 2	J	% H ₂ S		Prov	• <i>t</i>	Meter		Tape	
	L 9949		9949	.660		-	43	1	.42	***		<u> </u>		13.0	68	Fle	٠
	7747 [OW DATA	<u></u>		1			3111G	DATA		C)	SING	DATA		Duration
	Prover	x	Orifice	Press.	T	Diff,		Temp.	Pres		Tem		Pre		Temp.		ol Flow
ΝО.	Lin# Sir≠		Sire	p.s.1.g.		h _w		•F	p.e.t		• • • • •		p. e.	.9.			72 Hr.
SI	S.T	A			- -				238		-		nı.				1 Hr.
1.	3 X 1.			426.8	- -		-4-1	<u>51</u> 51	217 207				Pk Pk		·····		1 Hr
2.	3×1	125		446.8			11	<u></u>	190			_	Plc				l Hr.
3.	3 x +		······································	446.8 426.8			32 72	<u> 21</u> 45	160				Pk				l Hr.
4.	3 x 1.	1. 4.)		420.0			ا ڪ		1								
5.				<u>. I </u>		RAT	E O	FLOW	CALCU	ATI	ONS			·····			
			1			Pres	4114	Flo	w Temp.		Gravity	•	1	Super	,	late of	Flow
	Coeffic			~\/h_wP_m				F	actor		Factor Fa			mpre##. tor, Fpv		Q, M	:fd
NO.	(24 H) 			_				Ft.	-			 				337
	6.217			41.952 71.134			440 460		.009	┼	1.225			048. <u> </u>			574
2.	6.217						460		.009	1	1.22		1	051			980
3	6.217		-	21.326 77.989			100 440		.015	1	1.22			051			446
<u>4.</u> 5	6,217			1.4.70.2			<u> </u>										
		T_		T.		z	Gos	Liquid Hy	drocarbon	fintio		Dry	Gas		•		Mcl/bbl.
NO.	P _t	Tem	p. •R	,t			A.P	.L. Gravity	of Liquid	Hydro	carbon#				<u> </u>		Deg.
1	.65		511	1.37		910	i	cilic Gravi				.66			X.X.	<u> </u>	(XXX
2.	.68	<u> </u>	511	1.37	<u> </u>	906	ļ.	cific Gravi			573	X	<u> </u>	P.S.I	_		. P.S.I.A.
3.	.68		511	1.37		906		ical Press tool Temp			374			F .9.1	R		R
4.	65_	+	505	1.35		905	UIII	ren ramb	C. 4(4)								
5	2472	P. 2	6110	 7				p 2			784		r	P-2	٦,	1.90	57
P _C	P ₁ 2		<u>ي</u>	P, 2	P _C 2 .	- P, 2	(1)	$\frac{P_c^2}{P_c^2 - R_c}$	= .			•	(2) -	B. ² – F	;-		·····
1			264	5125		35.7		16" - R	ý.				L	-c - •w	قد		
2		2.	147	4609	150)1.7		r	2	٦n	_						
3			966	3865	224	15.7	AOF	-•0	_ ?	,	- 2.1	144		•			
4		1	639	2686	342	24.7		L	F 5	L							
5	<u> </u>	<u></u>		I			L	······		1			,	10			160
Abs	alute Open i	low	2,	,844				McId	· 15.025	Апа	i• ol 510	pe #	- 4	10	Slop	a, n	1.168
	varks:			o O bbl	£lı	rid di	uri	ng_tesi									
M & U														·····			
				Conduct	{ F1 -	· 			Culcular	ed Bv:			I	Checke	i Dy:		
App	roved lay Di	Aterou		1		Miln	^*		1		Lner			B111	Pierce	.	
				1 (7)	.)	117 711	cr.		. 0.7.0	سانان رخ							



Laboratory Services

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Mewbourne Oil Co.

Attention: Mr, Greg Milner

03-15-91

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: 03-18-91 460.00

PRESSURE - PSIG

SAMPLE TEMP. °F 51.00

ATMOS. TEMP. °F

GAS (XX)

LIQUID ()

SAMPLED BY:

Gregory Milner

ANALYSIS BY:

Rolland Perry

REMARKS:

COMPONENT ANALYSIS

		MOL		
COMPONENT		PERCENT	GРM	
Охудеп	(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	MOLECULAR WT	19.0972
AT 14,650 DRY		1153		
AT 14.650 WET		1133	26# GASOLINE -	0.578
AT 15.025 DRY		1182		
AT 15.025 WET		1162		
SPECIFIC GRAVITY	/_			
CALCULATED		0 550		
MEASURED		0.660		
MICHOUNEL	,	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理)

3-18-91 -DATE FEET WELL NO. -LEASE Cholk Bluff DMPANY MEWDOOMS OIL

% H₂S _ 17/1/2 .42 Range . -% N2-- 2003 - 43 88 Township ___ L/H 1,000 G 1660 Section 6766 I . SCATION: Unit 6466

GH 6566 Per 673 Ter 374

1 $T_{w}(W.H. \circ R)$ 2 $T_{S}(B.H. \circ R)$ 3 $T^{+}(\frac{T_{w} + T_{S}}{2})$ 4 $Z(Est.)$ 5 TZ 6 GH/TZ 7 $e^{S}(Table XIV)$ 8 P_{I} or \overline{E} 10 $P_{C}^{2} = P_{I}^{2}/e^{S}$ or \overline{E} 11 P_{C} or \overline{E} 12 $P_{H}(P_{w} + P_{S})$ or \overline{E} 13 $P_{I} = (P/P_{CI})$ 14 $T_{I} = (T/T_{CI})$	-							
	•	8	ო	4	ហ	ဖ	7	œ
	532	532						
	209	809						
	870	570						
	008'	062.						
	0.954	450.4						
	14.399	14,578						
		1.727						
	3249	3249						
	95501	105.56						
	6151.7 6110.6	6110.6				·		
	2480.3	2472.0	» رم					
		2860.5						
		4.25						
	1,52	1.52						
15 Z (Table XI)	062"	.190						

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

WORK SHEET FOR CALCULATION OF WE. JEAD PRESSURES (#5 or P.,)

Form C-122h Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (or P.)

-DATE 3-18-91 -% N₂ · 42 Range 1.00 G 1660 % CO2 143 - WELL NO. -__ Township ___ LEASE CHOIK BLUTH _ Section __ 6466 COMPANY . Mew bourne LOCATION: Unit _ 6466

GH 6566 PCI 673 TCI 374

- L'H

% H₂S _

二 三 四		••	2	m	4	ß	9	7	8
-	T _w (W.H. •R)	5.32	532	532	532	532	532	532	532
7	T _S (B.H. °R)	809	809	209	809	809	809	209	809
m	$T=(\frac{Tw+Ts}{2})$	570	015	220	570	570	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%	14.70H	14.712	14.753	14.749	14.761	14.768	14.537
_	e ^S (Table XIV)	817:1	1.736	1.736	1.739	1.739	1.739	1.740	1.725
60	費 or Ps	2983	2983	2831	283)	2593	2593	2152	2752
on.	要 or Ps ²	88983	8898.3	8014.6	80146	6723.6	6723.6	4631.1	4631.1
٤	$E_{\phi} = P_{1}^{2}/e^{5} \text{ or } P_{w}^{2} = P_{s}^{2}/e^{5}$	5304.3	5/26.6	4616.2	4609.0	3867.2	3865.5	2661.7	2684.9
=	or Pw	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></u>	$P_{\rm f} = (P/P_{\rm cr})$	3.93	3.90	3.70	3.70	3.39	5.39	187	2.82
4	$T_r = (T/T_{cr})$	1.52	1.52	1.52	1.52	75.7	1.52	1.52	1,52
Ť.	Z (Table XI)	,783	.782	181	182'	.780	086.	.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

 \mathbb{Z}

3

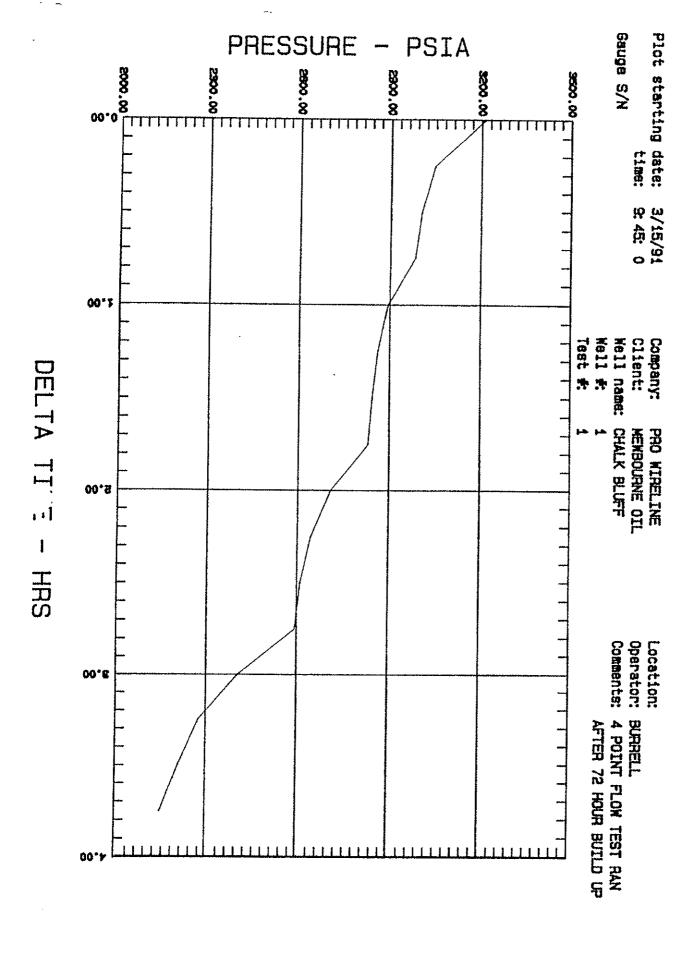
4

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	CTA	RT RATE 1
10: O: O	0.2500	3046.00	U I FI	A RESERVED.
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00	CTAI	RT RATE 2
10:45: 0	1.0000	2894.00	Sim	NI RHIE Z
11: 0: O	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00	STAI	RT RATE 3
11:45: 0	2.0000	2707.00	D i m	ST RMIE 3
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: O	2.7500	2593.00	CTA	T DATE 4
12:45: 0	3.0000	2405.00	D I Hr	RT 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



RECEIVED

**orm 3160-5 ne 1990)

UNITED STATES

FORM APPROVED

	NT OF THE INTERIOR SEP 2 8 1992 LAND MANAGEMENT	Expires: March 31, 1993
	Ö, C, D,	5. Lease Designation and Script No. NM-0557371
SUNDRY NOTICES	AND REPORTS ON WELLS	
Do not use this form for proposals to d	rill or to deepen or reentry to a different reservoir.	d. If Hallen, Atlonee of Tribe Name
Use "APPLICATION FO	OR PERMIT—" for such proposals	
SUBMI	T IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well		
Oil Cas C		
2. Name of Operator		B. Well Name and No.
Mewbourne Oil Company		Chalk Bluff Fed.Com.#1 9. API Well No.
3. Address and Telephone No.		30-015-26575
P. 0. 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 E	Description)	N.Illinois Camp-MorGa
A4101		11. County or Parish, State
2250' FWL & 790' FSL Sec. 1,	T18S-R27E	Eddy
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	
	Recompletion	Change of Plans New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
<u></u>	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	Other <u>Additional perfs</u> ,	Dispose Water
13. Describe Proposed or Countered Occasion (City)	acidize & frac	(Note: Repart results of multiple completion on Well Completion or Recompletion Report and Log form t
give subsurface locations and measured and true vertice	If pertinent details, and give pertinent dates, including estimated date of starting cal depths for all markers and zones pertinent to this work.)*	any proposed work. If well is directionally drilled,
	1-9882', 2 SPF, 10' Net, 22 holes.	
8/14/92 - Acidized w/3500 gale 7	17 UCI A additional 1 1000 partition	
sealers. Flushed w/27	12 HCL + additives + 1000 SCF/bbl nitr KCL wtr + 1000 SCF/bbl nitrogen. ISDP	ogen carrying 80 ball
10 mins 3400#, 15 mins	2800#. Avg rate 3.7 BPM, AP 5000#, Mg	4300f, 5 mins 3800f,
to pit 8/15 - 8/18/92.	My rate 3.7 bin, Ar 30007, Mr	. Jours Blew Mell down
	tested the to 2000 Held OK. Removed	THE WAY THE
Swabbed well down to 5	300'.	tree. KU BOP. RU swab.
Tested the to 8000# 8	POOH w/tbg & pkr. TIH w/new pkr assem/21/92 - Continued testing tbg. Set pk	bly & 200 jts tbg.
compression. Press annu	ulus to 2000#. Held OK. Started swabbi	r e 9/40.08' w/15 pts
3/22/92 - RU Western Co. Acidiza	d perfs w/1500 gals 7½% HCL acid + add	ng. nad light blow of gas.
nitrogen + 35 ball seal	lers. Flushed w/2Z KCL wtr. ISDP 400#.	itives + 1000 scf/bbl
15 min 3600#. ATP 5100#	, MTP 5400#. RD Western. Opened well	3 min 3/00#, 10 min 3700#
THO SHOW OF RES OF OTT"	Recovering load.	
3/23/92 - RU swab. FL @ 7000'. Sw	vabbed dry in 3 runs. Continued swabbi	no Popovovino II
	January Samuel Machine	ng. recovering load.
14. I hereby creatly that the turegoing by true and correct		
- Cullow bank	From O	
(Thi) space for Federal or Sixte office use)	Tille Engr. Oprns. Secretary	Date9/11/92
Approved by	Asr	
Conditions of approval, if any:	Title	Date
	<i>I</i> 322	

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

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

UNITED STATES COMMISSIONIN DUPLICATE.

DEPARTMENT OF WITHE INTERIOR

(Secother Instructions on reverse side)

Form approved.	
Budget Bureau No.	1004-0132
Expires August 31,	

		· · · · · · · · · · · · · · · · · · ·	 	
٠.		DESIGNATION		
	3.72.6	AEE7271		

		BUR	EAU OF LA	ndaran	agëme	-M9210				NM-0!	5573	171
WELL CO	OMPLE	TION	OR RECO	MPLET	ION	REPOR	T AN	ID LO	G*	G. IN INDIAN	I, ALLO	TTEE OR TRESS HAME
IR. TYPE OF WE		OH. WELL	[GAS		***	Other			_ _	7. PNIT AGE	EEMEN	r NAMB
b. TYPE OF CO		٧:				V/1001		1120	V.			
WELL X	WORK WORK	EN BEEL-	PLUG BACK	Dir	ien.	Other		acceler.	:D	S. PARM OR		
2. NAME OF OPER		Comp	V			-1	"E//	20		O. WELL NO.		ff Federal Cor
Mewbourn		COMP	any v			fo_	11/1/1	123	1997	2 1	7	
P. O. Bo	× 769	8, Ty	ler, Te	xas 75	5711	6		O. C. I	D.		1004 av	L, OR WILDCAT
4. LOCATION OF W	KI.L (Repo	rt location	clearly and in	accordance	e with ar	ny State re	quirem a	PROPERTY OF	REIČ.	170 -1.46		is Camp Morrow
			& 790' i	FSL						11. SEC., T., OR AREA		OR BLUCK AND BURYEY
At top pred. It	aterval rep	orted belov	W							Sec.	1-T1	8S-R27
At total depth	Sam	e		·		-						
					ON TIME)-015-		ISSUED C		12. COUNTY PARISH	OR	13. STATE
DATE SPUBBED	16. DAT	E T.D. REA	CHED 17, DA	1			!			Eddy B. HT. SB. ETC.)*	1 19 1	N.M.
12/22/90	1/	29/91	3/1	07/91			KB 3	6251,				,
O. TOTAL BEPTH, MO	A TVD			TVD 22	HOW X	TIPLE COM	PL.,	23. INT	ERVAL:	HOTARY TOD	1.8	CABLE TOOLS
10,120 I	20 VA1 / 0)		.0791	l somman	N.M.S. /	ta D. I. Mar. and III				l X		
9936-46					MANIE (MU AND TY	.,				25	SURVEY MADE
2230-40	, ,,,,,,,	4 -07	- MOLIC	. W								Yes
TYPE ELECTRIC						***************************************]	27 W	AS WELL CORRO
SDL-DSN,	-ייירת	MSFL,		1807 0 000		and all adul		211				No
CABING BIZE	WEIG	ПТ, LB./FT.				oort all stri N.R BIZE	nge set i		ENTIN	G RECORD	_ī	AMOUNT PULLED
13-3/8"	I	.50#		100'	17-	1/2"		425	- C:	irc		None
9-5/8"	36			504]	1/4"			- C:			None
		# & 29	94	1501	8-	3/4"		1350 ·	<u>- C</u>	irc		None
		Li	NER RECORD		<u> </u>			30.		TUBING RECO)RD	
8122	TOP (M	D) B	OTTOM (MD)	SACKS CE	MENT*	SCREEN	(MD)	\$12K		DEPTH BET (M		PACKER SET (MD)
4-1/2"	905	<u> L'</u>	0119'	17	5			2-3,	/8"	98051		9805
. PERFORATION RE	CORP (Inte	rval, size	and number)	!		32.	100	In suom	TO A	With the same of t		
9936-46	, 9964	1- 671					INTERVAL			TURE, CEMENT		
13', 2 SI	PF, To	tal 2	18			9936-	-67°					acid + 1000
						-			bbl	N2 + 50 b	all.	sealers. Flus
						ļ			w/3	5 bbls 2%	Keil	water + 1000
•						OUCTION		····		/bbl N2.		2 30
FE FIRST PRODUCT	TON -	PRODUCT	ON METHOD (/			impingsi	re and t	ipe of pun	p)	werr.	STATUS	(Producing of)
TE OF THET	HOURS 7	ESTED	CHOKE BIZE	F'LC	wing	OIL-BBL		OKRAD		WATER—BEL	P	roducing
3/11/91	24 hr:	5	8/64"	TEST F		1	•	886	••	O ··	` `	886:1 (7)
W. TUBING PRESS,	CABING 1	RESSCEL	CALCULATED 24-HOUR BAT	011,8	Br	1	MCF.		WATER			AVITY-API (COME.)
1600#	10 10 11 11			1	·····		886			0	58	<u>9</u> .0
Sold	-0 10VIA, N	eca jor jue	o, ventea, elc.)							TEST WITNES	ard by	
LIST OF ATTACH	MENTA		· · · · · · · · · · · · · · · · · · ·			·				W.	- 17/ EAV	FOR RECORD
Logs		**************************************										
I hereby terrify	that the	oregoing	nd attached in	formation	is compl	ete and cor	rrect as	determine	d fron	all avellable re	Cords	SSS 1991
SIGNED MU	porce	DM	mpin	<u></u>	le <u>E</u>	ngr. Op	orns.	Secre	tary	DATE	APR 3/	18/91
' 0	ſ	*(See In	structions an	d Space	fer A	dditional	Data	on Reve	se Si	de) CARI	SBAL	, NEW MEXICO
_										. I (\mathbb{l}) 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/		

70	indan g	rerval tested, cu		38. GEO	GEOLOGIC MARKERS	•
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		-	
Lower Morran	9936	12966	Sandstone	NAME	MEAS, DEPTH	TRUE VERT, DEPTH
Middle Morbow	1861	. T886	Sandstone	Yates	4241	
				Queen	11381	
				Grayburg	1484	
				San Andres	19761	
				Glorietta	34581	
			,	Tubb	4451	
-			·	Drinkard	5376"	
				Abo	5794"	
				Wolfcamp		:
			and the same of th	Cisco	19992	. ,.
, 4				Canyon	83681	
				Strawn	88441	, . F
				Morrow	94541	. <i></i> ,
				Morrow Clastids	97701	
				Barnett .	100161	
				,		
W. W. C.						
**************************************					•	
		•	•			

State of New Mexico Energy, Minerals and Natural Resources Department

P.O. Box 1980, Hobbs, NM 28240		~~~~~~					at Bot	tom of Page
DISTRICT II P.O. Drawer DD, Artenia, NM 88210		OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088			ON			
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	1							
I.	REQUEST	OR ALLOWA ANSPORT O					,	
Operator MEWBOURNE OIL COM	,	····			Well	API No.		
Address OIL COM	PANY /				30	-015-2	6575	
P. O. Box 7698, T	yler, Texas	75711						
Reason(s) for Filing (Check proper box)			Oil	her (Please exp	lain)	·		
New Well		n Transporter of:						
Recompletion		Dry Can L						
If change of operator give name and address of previous operator	Casinghead Gas] Condensate [_]						
II. DESCRIPTION OF WELL	. AND LEASE	·						
Lesse Name	Well No.	Pool Name, Includ	ting Formation		Kind	of Lesso		case No.
CHALK BLUFF FEDER	AL 1	North Ill:	inois Car	np Morrov	7 (\$100)	Pederal og F		0557371
Unit Letter N	. 2250	Feet From The	West Lie	790)F	eet From The	Sout	h Line
Section 1 Townsh	ip 18 South	Range 27	East ,N	мрм,	·	Eddy		County
III. DESIGNATION OF TRAP	VSPORTER OF O	IL AND NATU	RAL GAS					
Name of Authorized Transporter of Oil AMOCO Pipeline Inter- corporate Trucking Name of Authorized Transporter of Casin	G or Conse		Oil Ten	e address to whi iden: Dept	uch approved BOX 70	l copy of this , 2068 Thi	form is to be s	eni) 41.70–2068
Name of Authorized Transporter of Casin	ghead Gas	or Dry Gas 🔯	Address (Giv	e address to wi	ich approve	com of this	form in to be a	****/U-ZUGG
Transwestern Pipeline	Company		P.O.Box	: 1188, н	ouston,	Texas	77251-11	88
If well produces oil or liquids, give location of tanks.	Unit Sec.	18S 27E	is gas actually	y connected? 'es	When	?	n, 1991	
If this production is commingled with that IV. COMPLETION DATA			ling order numl	ber: N	0 '			
Designate Type of Completion	- (X) Oil Well	Gas Well	Now Well	Workover	Deepea	Plug Back	Same Res'v	Diff Res'v
Data Spuddod	Date Compl. Ready to		Total Depth			P.B.T.D.	l	_i
12/22/90	3/07/9			10,120'		1.0,1,0.	10,079	
Elevations (DR, RKB, RT, GR, etc.) KB 3625*, GR 3609* Perforations Name of Producing Formation MOTION			Top Oil/Gas Pay 99361			Tubing Depth 9,805		
9936-46', 9964-67', 1	13',2 SPF,Tota	al 28				Depth Casin		
the many	TUBING,	CASING AND	CEMENTIN	IG RECORI)	<u> </u>	w	····
HOLE SIZE 17-1/2"	CASING & TU		DEPTH SET		SACKS CEMENT			
12-1/4"	1.3 - 3,		400 '			425 Part 70-2		
8-3/3"	7"	· O	2604 ' 9450 '		1025 5-12-91			
7"	41/	2" Liner	10119'		1350 cmp + BK			
/. TEST DATA AND REQUES OIL WELL (Test must be after to	T FOR ALLOWA	BLE				·		
Onte First New Oil Run To Tank	covery of total volume of	load oil and must	be equal to or e Producing Met	xceed top allow	able for this	depth or be for	or full 24 hour.	e.)
			T TOOLGOOD SALES	sou (riow, pue	ip, gas iyt, et	c.)		1
ength of Test	Tubing Pressure		Casing Pressure			Choke Size		
Actual Prod. During Test	Oil - Bbls.		Water - Bbis.			Gas- MCF	·-·	
GAS WELL			······································	····	l			
actual Prod. Test - MCF/D	Length of Test		6CL 2					
886	. 24 hou		Bbls, Condense	ummer 1		Gravity of Co	ndensale B	
Back Pressure	70.01-2 h		Casing Pressure (Shut-in)			Choke Size		
				·		8,	/64"	
I. OPERATOR CERTIFICA I hereby certify that the rules and regulati Division have been complied with and the is true and complete to the best of mys.lpa	one of the Oil Conservat	II	OI	IL CONS	SERVA	TION D	IVISIO	4
De Mont	www.ge and belief.	/	Date A	\pproved		MAY 1	1991	
Signature	Messe		ByORIGINAL SIGNED BY					
Gaylon Thompson, Engineering Operations			By ORIGINAL SIGNED BY MIKE WILLIAMS					
Prior Name Title			Title SUPERVISOR, DISTRICT II					
rch 11, 1991 (903) 561-2900 IIII0 307 EXVISOR, D/STATOTI								

- 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 tabula Request for anowable for newly drilled on 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 analy.
 Separate Form C-104 must be filed for each pool in multiply completed wells.



Form 3160-5 (June 1990)

12.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTI

	CONS COUNTED C/S	ř
OI	L DD LORN TAKONED	
25840	Budgefillifati No. 1004-0135	
Arte	5. Lease Designation and Serial No.	
	NM-0557371	
	6. If Indian, Allome or Tribe Name	
reservoir.		
	7. If Unit or CA, Agreement Designation	
	S. Well Name and No.	
	Chalk Bluff Fed. Comm. #	/1
	9. API Well No.	•
	30-015-26575	
	10. Field and Pool, or Exploratory Area	
	N. Illinois Camp Morrow	
	11. County or Parish, State	
	5.4 á 1.4	
	Eddy Co., N.M.	
CE, REPOR	T, OR OTHER DATA	
OF ACTION		
	Change of Plans	
	New Construction	
	Non-Routine Fracturing	
	Water Shut-Off	
	Conversion to Injection	
	Dispose Water (Nose: Report results of multiple completion on Well	
	Completion or Recompletion Report and Log form.)	
nd date of starting }*	any proposed work. If well is directionally drilled,	
ים וחנסל	rculate hole	
TOIO'. CI	runate note	
eive		
	κ	

Do not use this form for proposals to drill or to deepen or reentry to a different Use "APPLICATION FOR PERMIT-" for such proposals SUBMIT IN TRIPLICATE 1. Type of Well Oil Gas Well Well 2. Name of Operator Mewbourne Oil Company 3. Address and Telephone No. P.O. Box 5270 Hobbs, New Mexico 88241 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2250' FWL & 790' FSL Sec. 1-T18S-R27E

TYPE TYPE OF SUBMISSION Abandonment Notice of Intent Recompletion Plugging Back Subsequent Report Casing Repair Altering Casing Final Abandonment Notice

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estima give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work

- Spot 8 sx. (50') cement plug on top of existing CIBP @ 7 with plug mud.

- Spot 17 sx. (100') cement plug @ 2650'.
- Spot 17 sx. (100') cement plug @ 450'.
- Cut off and remove wellhead.

- Spot 8 sx. (50') surface plug.

- Install cup and dry hole marker.

- Clean location.

REC

AUG 1 8 1995

OIL CON. DIV. DIST. 2

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~ :	77.
	の一般を持つ
5	

14. I hereby cently that the sorteon is true and correct	Tide Engineer	Date 5/25/95
(This prove for Federal or State office use)	PETROLEUM ENGINEER	Date 8/14/95
Approved by Origin Signed by Shannon J. Shaw Conditions of approval, if any		

Fig. 14 U.S.C. Section 1915, mixed it a trime on try person knowledge and willfully in make its any impartment on against of the United States any indice, facilities on fraudulent statements in section to section in the contract within the contract of the United States and indices on fraudulent statements.

CCB - Artesin

Form 3160-5 (June 1990)

(This space for Federal or State office use)

Approved by (OPHG SAZO) MIS G. LAMA Conditions of approval, if any:

L . FED STATES **DEPARTMENT OF THE INTERIOR** FORM APPROVED
Budget Bureau No. 1084-0135
Expires: March 31, 1993

	BUREAU OF	LAND MANAGEMENT	Expires, indicit 51, 1893		
SUNDRY NOTICES AND REPORTS ON WELLS			5. Lease Designation and Serial No. NM-0557371		
Do no	t use this form for proposals to di	rill or to deepen or reentry to a different reservoir. OR PERMIT-" for such proposals	6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRIPLICATE			7. If Unit or CA, Agreement Designation		
1. Type					
	Oil Gas Well Well X Other		8. Well Name and No.		
2. Name of Operator			Chalk Bluff Federal Comm #1		
	bourne Oil Com[any		9. API Well No.		
	ss and Telephone No.		30-015-26575		
	Sox 5270, Hobbs, NM 505-393-5905 on of Well (Footage, Sec., T., R., M., or Survey De	acciplica)	10. Field and Pool, or Exploratory Area		
		scription)	N. Illinois Camp Morrow		
790'	FSL & 2250' FWL, Sec.1 T-18S R-27E		11. County or Parish, State		
40			Eddy, NM		
12.) TO INDICATE NATURE OF NOTICE, REPORT, C	R 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		
	Trestation and a	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 Wei) Completion or Recompletion Report and Log form.)		
The a a 7" (a CIT	above caption well is currently under T/A CIBP above all perfs @ 7010'. We are co (500 psi) & after passing, extend T/A s question, please call.	sate all pertinet details, and give pertinent dates, including estimated date of ured and true vertical depths for all markders and zones pertinent to this vertical depths for all markders and zones pertinent to this vertical depths. Mewbourne Oil Company would like to extend this possible ring converting this well into a SWD. At this time, Metatus for an additional time.	vork.)*		
4. I hereb	by ceptifythat the foregoing is true and correct	тие N.M. Young District Manager			
		The Tanti Louis Mishipt Managel	Date 10/06/00		

Title

Principles of Principality

Date 10/06/00

^{&#}x27;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 aments or representations as to any matter within its jurisdiction.

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

Actoria NM 882 10 20 20 20 10 p. and Serial No.

			Les Les Milon and Serial No. NM-0557371		
Do not	t use this form for proposals to dri	AND REPORTS ON WELLS  ill or to deepen or reentry to a different reservoir.  DR PERMIT-" for such proposals	6. If Indian, Allottee or Tribe Name		
		IN TRIPLICATE	7. If Unit or CA, Agreement Designation		
	Oil Gas 🙀		8. Well Name and No.		
	Well Well XI Other of Operator		Chalk Bluff Federal Comm #1		
	ooume Oil Com[any		9. API Well No. 30-015-26575		
	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 Des	scription)	N. Illinois Camp Morrow		
790' f	FSL & 2250' FWL, Sec.1 T-18S R-27E		11. County or Parish, State		
12.	CHECK APPROPRIATE BOY(s)	TO INDICATE NATURE OF NOTICE, REPORT, O	Eddy, NM		
	TYPE OF SUBMISSION	ROTHER DATA			
***************************************	Notice of Intent	TYPE OF ACTION  Abandonment			
	reduce of fitterit	Recompletion	Change of Plans  New Construction		
	Subsequent Report	Plugging Back	Non-Routine Fracturing		
		Casing Repair	☐ Water Shut-Off		
	Final Abandonment Notice	Attering Casing	Conversion to Injection		
		X Other MIT	Dispose Water (Note: Report results of multiple completion on Weis Completion or Recompletion Report and Log form.)		
The a	conally drilled, give subsurface locations and measurbove caption well was successfully MIT's pressure chart is enclosed.  question, please call.	,	RECEIVED SO PEZIL		
Signed _(	by certify that the foregoing is true and correct	Title N.M. Young District Manager	Date 11/01/00		
	e for Federal or State office use)				
Approved Conditions	by Record Only s of approval, if any:	Title	Date		

2250 FWL ENDYLANIM 11M 0557371 Many room Chalk Bluff Fed #1

Form 3160-5 (June 1990)

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

A	rtesia, NM 88210 FORM APPROVED	(
- 1	Budget Bureau No. 1004-0135	
- [	Expires: March 31, 1993	
•		_

NM OIL CONS COMMISSION

Drawer DD

5. Lease Designation and Serial No. NM-0557371

6. If Indian, Allottee or Tribe Name

### SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE	- •	7. If Unit or CA, Agreement Designation
1. Type of Well  Oil  Well  Well  Other	FER 2 1 1994	8. Well Name and No.
2. Name of Operator  Mewbourne Oil Company		Chalk Bluff Fed. Com. #1
110. 00% 00%	393-5905	30-015-26575  10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		N. Illinois Camp 11. County or Parish, State

2 S	250' FWL & 790' FSL ec. 1-T18S-R27E		Eddy Co., N.M.
12.	CHECK APPROPRIATE BOX(s	TO INDICATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
	TYPE OF SUBMISSION	TYPE OF ACTI	ON
	Notice of Intent	Abandonment	Change of Plans
	Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing Water Shut-Off
	Final Abandonment Notice	Casing Repair Altering Casing Other Shut-In-Status	Conversion to Injection  Dispose Water (Note: Report results of multiple completion on Well

give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

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,

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

> APPROVED FOR 12 MONTH PERIOD

I hereby certify that it foregoing is true and correct of Signed	Title .	Petroleum Engineer	Date 01/25/94	
(This space for Federal or State office use) Approved b(ORIG_SGD.) JOE G. 1.484	Title .	PETROLEUM ENGINEER	Desc 2/16/94	

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

Formalis03ENED UNI	Dre	OEL CORS. COMMISSION  EVER DD  GGSian NR 88#PBM APPROVED
(I FACE)	NT OF THE INTERIOR	Budget Bureau No. 1004-0135
	LAND MANAGEMENT	Expires: March 31, 1993  5. Lease Designation and Serial No.
		NM-0557371
	AND REPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
Do tiot age this form for brobosais to di	rill or to deepen or reentry to a different rese DR PERMIT—" for such proposals	ervoir.
	T IN TRIPLICATE	7. If Unit or CA, Agreement Designation
I. Type of Well  Oil Gas Well Well Other	NOV 1 7 1993	8. Well Name and No.
2. Name of Operator	Q. C. D.	Chalk Bluff Fed. Comm. #1
Mewbourne Oil Company /  3. Address and Telephone No.		30-015-26575
P.O. Box 5270 Hobbs, New Mex	xico 88241 (505) 393-5905	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey I		N. Illinois Camp
		11. County or Parish, State
2250' FWL & 790' FSL of Sec.	1-T18S-R27E	<b>}</b>
		Eddy Co., N.M.
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, F	REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF A	CTION
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
<del>[ _ ]</del>	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	L_J Other	Dispose Water   (Note: Report results of multiple completion on Well
		Completion or Recompletion Report and Log form.)
give subsurface locations and measured and true vertice.  * Verbal from Adam Salameh	all pertinent details, and give pertinent dates, including estimated date ical depths for all markers and zones pertinent to this work.)*	
9/11/93 Perforate Cisco from 78 9/12/93 Squeeze Cisco from 7826 9/15/93 Drill out squeeze perfs 9/16/93 Perforate Cisco from 76 9/17/93 Abandon Cisco formation	6'-7830' w/600 sx. Class "C". s. to 7792'. Squeeze held 2,000#. 676'-7678'. Test and evaluate. n, set CIBP 0 7600' & cover w/35'	
9/21/93 Set CIBP @ 7294' & perf	O gal. 15% NE-FE from 7304'-7314'. forate Wolfcamp from 7262'-7278'.	Test & evaluate.
9/23/93 Set CIBP @ 7208' & peri	O gal. 15% NE-FE from 7262'-7278'. forate Wolfcamp from 7050'-7102'. O gal. 15% NE-FE from 7050'-7102'.	Test & evaluate.
14. I hereby certify that the foregoing is true and correct Signed Holl Co.	Tide Petroleum Engineer	Date 10/05/93
(This space for Federal or State office (use)		Print replacement on the second
Approved by	Title ACCEPTED FOR REC	ORD Date
Conditions of approval, if any:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Title 18 U.S.C. Section 1001, makes it a crime for any person or representations as to any matter within its jurisdiction.	n knowingly and willfully to make to any department or agency of th	United States any false, fictitious or fraudulent statements

*See InstructionAFIREMADSINEW MEXICO

Mew bourne Oil company Chulk Bluff Feeboral #1 2250 FULL 740' FSL Sec. 1-1186-R27E 7050 EXBPQ 7008' CIBPQ 7394' 2 730 Y CIBPR 7600 W/35 coment 7676 2 7648' 7 830' Squecze w/600 Sx. Test to 2000* < CTBPQ 9800' W/35' Cement 9861' 4" @ 10119"

C. III. 5. J. J. III.

FORM APPROVED **UNITED STATES** 3160-5 Budget Bureau No. 1004-0135 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 1. Type of Well Oil Well X Gas Well 8. Well Name and No. 2. Name of Operator Chalk Bluff Fed. Com. #1 9. API Well No. Mewbourne Oil Company 3. Address and Telephone No. <u>30-015-26575</u> 10. Field and Pool, or Exploratory Area (505) 393-5905 P.O. Box 5270 Hobbs, New Mexico
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 88241 N. Illinois Camp
11. County or Parish, State 2250' FWL & 790' FSL of 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 Change of Plans Abandonment Recompletion New Construction Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Conversion to Injection Altering Casing Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* 09/08/93 Abandon Morrow Perfs 9861' - 9967' - Set CIBP @ 9800' - cover w/35' cement. - Recomplete in Cisco Formation - Test & evaluate. - If unecomomical recomplete in Wolfcamp - Test & evaluate. 14. I hereby certify th Petroleum Engineer 09/07/93

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.

<u>PETROLEUM ENGINEER</u>

Title

(This space for Federal or Sta

onditions of approval, if any

\pproved by

(ORIG.

he office use)

SGD.) JOE G. LARA

30-015-96575 Oseid-14744 Paopealy-1876 Pool-18890

> 3-19-91 DUAL LAT. 2525- 94446 4330-01150 DUAL SPACED NEUTRON Luf-9417 8500-10161

3-19-91

DUAL LAT.

2575-9444
9375-78120

NEUTRON

LOF-9417
8500-18121

NC Tops	DEM	5/14/91
Queen		1140
Grayburg		1430
San Andres		1975
5 lorista		3548
Abo		>
wolfcamp		4860
Ponn		
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 File Copy

RE: Chalk Bluff Federal Com # 1 N-1-18-27

API 30-015-26575

Violation of Rule 201:

Idle Well

Dear Sirs:

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

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

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

#### 201 WELLS TO BE PROPERLY ABANDONED

201.A. The operator of any well drilled for oil, gas or injection; for seismic, core or other exploration, or for a service well, whether cased or uncased, shall be responsible for the plugging thereof. [7-12-90...2-1-96] 201.B. A well shall be either properly plugged and abandoned or temporarily abandoned in accordance with these rules within ninety (90) days after:

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

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

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

Sincerely

•		
Van Bart	on	
Field Ren	r 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.

Thereby 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

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A August 11, 2000

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Sub the impy of the final affected wells that he 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:
OGRID: 14744  Name: Mewbourne Oil Company  Address: P. O. Box 7698  Address: City, State, Zip: Tyler, TX 75711	New Ogrid: 156 4  New Name: Navaj Refining Company  Address: Address: Address: P.O. B. 59  City, State, Zip: Dallac, PX 75201  Artesia, NM 88211
I hereby certify that the rules of the Oil Conservation Division form and the attached list of wells is true and complete to the bear New Operator Signature:  Printed name:  Title:  Env. Mgr. for Water  Date: 12/5/00 Phone: 505-745	and Waste
Previous operator complete below:	NMOCD Approval
Previous	Signature: Lim W. Seems
Operator: Mewbourne Oil Company Previous	Printed
OGRID: 14744	Name: 2 +
Signature: Morty Whiteore Printed Name:	District: NOV Z 7 2000 Date:
27021- property code	- Whalk Bluff Federal Com #1

27021- property code - What Oly flatal (00. 30-015-26575-API Humber 1-185-27€

			Oil O	
Form 3160-5 (September 2001)	UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MANA	NTERIOR 1301	Oil Cons. .M. DIV-Dist. W. Grand Av	Expires: January 31, 2004
SIND	BUREAU OF LAND MANA RY NOTICES AND REPO his form for proposals to	PIS ON WEIGH	esia, NM 882	150 Lease Serial No.
Do not use to abandoned v	his form for proposals to rell. Use Form 3160-3 (APE	drill or to re-enter ) for such propose	an Is.	6. If Indian, Allottee or Tribe Name
				7. If Unit or CA/Agreement, Name and/or No.
1. Type of Well			2345870	
	Other TEMPORARILY AE	ANDONED	23.00	8. Well Name and No.
2. Name of Operator NAVAJO REFINING COMPA	NY 15694	<b>15</b>	<b>k</b> 3	WDW-3 #3 23592 9. API Well No.
3a. Address	13077	3b. Phone Non (includ	e ared bare)	30-015-26575
PO BOX 159, ARTESIA, NM	89211	505-748-3319	WE CIVED CIA	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec			HECK HIES	NAVAJO INJECTION; PERMO-PENN
		\3	000 1	/ 11. County or Parish, State
790 FSL, 2250 FWL, 1-18S-2	7E	L'age.		
in average in		7.22	\$2217.00 Z	EDDY
	PROPRIATE BOX(ES) TO			PORT, OR OTHER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION	100
[7] N. J. W. J.	Acidize	Deepen	Production (Start)	Resume) Water Shut-Off
M Notice of Intent	Alter Casing	Fracture Treat	Reclamation	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete	Other RECOMPLETE AS
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Aba	ndon CLASS I INJECTION
Links Aparduoishent Morice	Convert to Injection	Plug Back	Water Disposal	WELL
If the proposal is to deepen dire Attach the Bond under which the	ctionally or recomplete horizontally ne work will be performed or prov olved operations. If the operation r all Abandonment Notices shall be	<li>give subsurface location ide the Bond No. on file esults in a multiple comp filed only after all require</li>	ns and measured and true with BLM/BIA. Required detion or recompletion in ements, including reclam	y proposed work and approximate duration thereo vertical depths of all pertinent markers and zones. It subsequent reports shall be filed within 30 days a new interval, a Form 3160-4 shall be filed once ation, have been completed, and the operator has the filed when the filed once ation.
Original well name was CHALK	**			SUBJECT TO LIKE APPROVAL
DRILL OUT BRIDGE PLUG AT INJECTION-TEST PERFORAT	IONS AT 7050' - 7102', 7262' -	7278' TO PLAN SQU	EEZE-CEMENT JOB.	BY NMOCD
DRILL OUT BRIDGE PLUGS A SQUEEZE-CEMENT PERFORA	AT 7208' AND 7294', CLEAN ( ATIONS AT 7050', 7100', 7260	OUT HOLE THROUG	H PERFS AT 7304'-7:	314'.
DRILL OUT BRIDGE PLUG AT				APPROVED
RUN CBL/VDL AND CALIPER		•		AFFICOVED
PERFORATE 8540' - 8620' AND RUN INJECTIVITY TEST, AND				
RUN INJECTION/FALLOFF TE		· .	:	SEP 2 9 2003
RUN DIFFERENTIAL TEMPER				
RUN RADIOACTIVE TRACER INSTALL INJECTION TUBING		76001		LES BABYAK
INSTALL WELL ANNULUS M	ONITORING EQUIPMENT, A	ND PREPARE WELL	FOR INJECTION.	PETROLEUM ENGINEER
14. I hereby certify that the foregoing	z is true and correct			
Name (PrintedlTyped)			/ دو	
- Darrell N	pore	Title	IN. Mar. Y	or Waters Unite
. 7.		······································		
Signature Haul	More		7/17/03	
Signature Saul	More			

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 which would entitle the applicant to conduct operations thereon. 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United sames any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Averaged for record NMOCD

(Printed/Typed)

Office

Title

Date

Approved by (Signature)

District I

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

301 W. Grand Avenus, Artesia, NM 88210 rict III

....00 Rio Brazos Rd., Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number		. Pool Name	
30 - 015 -265	75	Navajo Injection; Permo-	Penn
Property Code		³ Property Name	' Well Number
23592	·	WDW	3
OGRID No.		* Operator Name	'Elevation
15694	Navajo	Refining Company	3609' GL;
15674			3625' KB

Surface Location

UL or lot no. N	Section 1	Township 18S	Range 27E	Lot Idn	Feet from the 790	North/South line South	Feet from the 2250	East/West Hine West	Count <b>Eddy</b>
			11 Bott	om Hole	Location If	Different From	Surface	<del></del>	
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	Count
12 Dedicated Acres				ode 13 Orde		North South Life	rost from the	WHEN ALCH TITLE	,

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

NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION							
16				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.			
			3456789707	Signapur Danul Moore Prissed Name Darrell Moore			
			RECEIVED A 33 OCO ARTESIA 35	Primed Name Darrell Moure  Title and E-mail Address Env. Mar. For Watera Unaste  Date Jarrell@navajo-refining.co  9/17/02			
				18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.			
2250	790			Date of Survey Signature and Seal of Professional Surveyor:			
	▼			Certificate Number			

#### REENTRY PROCEDURE

# NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

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

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

### Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

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

## Depth of Plugs

7010 feet in 7-inch casing above perforations 7050 feet to 7102 feet 7208 feet in 7-inch casing above perforations 7262 feet to 7278 feet 7294 feet in 7-inch casing above perforations 7304 feet to 7314 feet 7600 feet in 7-inch casing above perforations 7676 feet to 7678 and 7826 feet to 7830 feet

9800 feet in 4-1/2-inch liner above perforations 9861 feet to 9967 feet

## **Anticipated Formation Pressure**

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

mud weight of 7.36 pounds per gallon (ppg). The bottom-hole pressure was determined from the pressure measured in Navajo's WDW-2, or 2813 psia, at 7570 feet. Navajo's WDW-2 is completed in the same interval proposed for WDW-3 and is located in 12-T18S-R27E, 3200 feet southwest of proposed WDW-3. The average specific gravity of the fluid in the Cisco and Canyon Formations is expected to be 1.025, which is the specific gravity of the fluid swabbed from WDW-2 in June 1999 from the interval between 7826 feet and 8399 feet. The expected bottom-hole pressure at 9000 feet in proposed WDW-3 is calculated below:

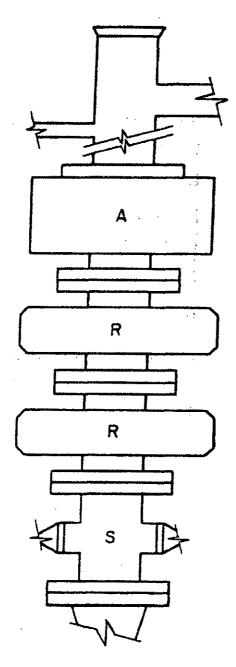
BHP (9000 feet) = 
$$2813 \text{ psia} + (9000 \text{ feet} - 7570 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.025$$
  
=  $3448 \text{ psia}$ 

#### 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.



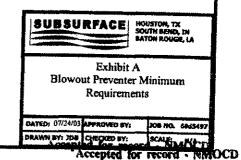
A = ANNULAR BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

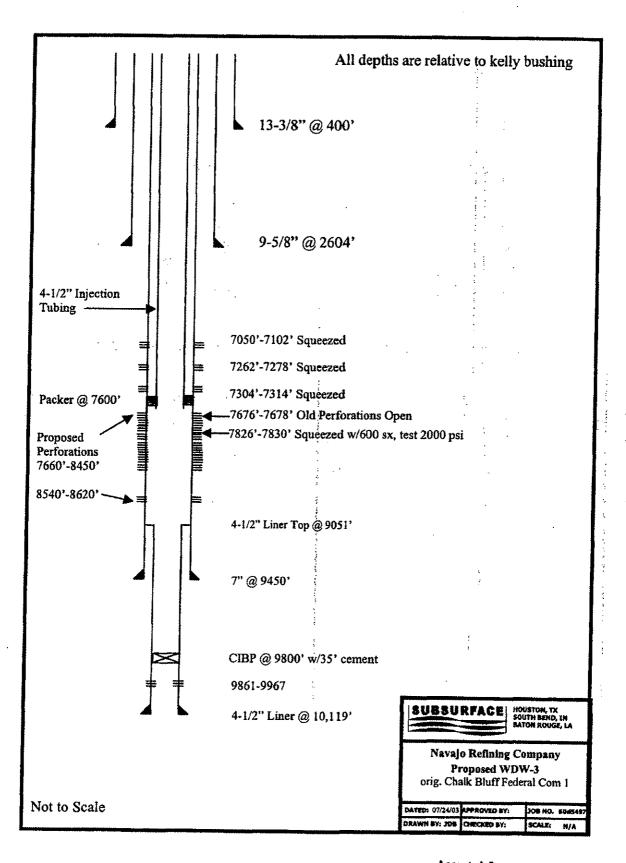
R = RAM TYPE BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

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

Signature

Darrell Moore

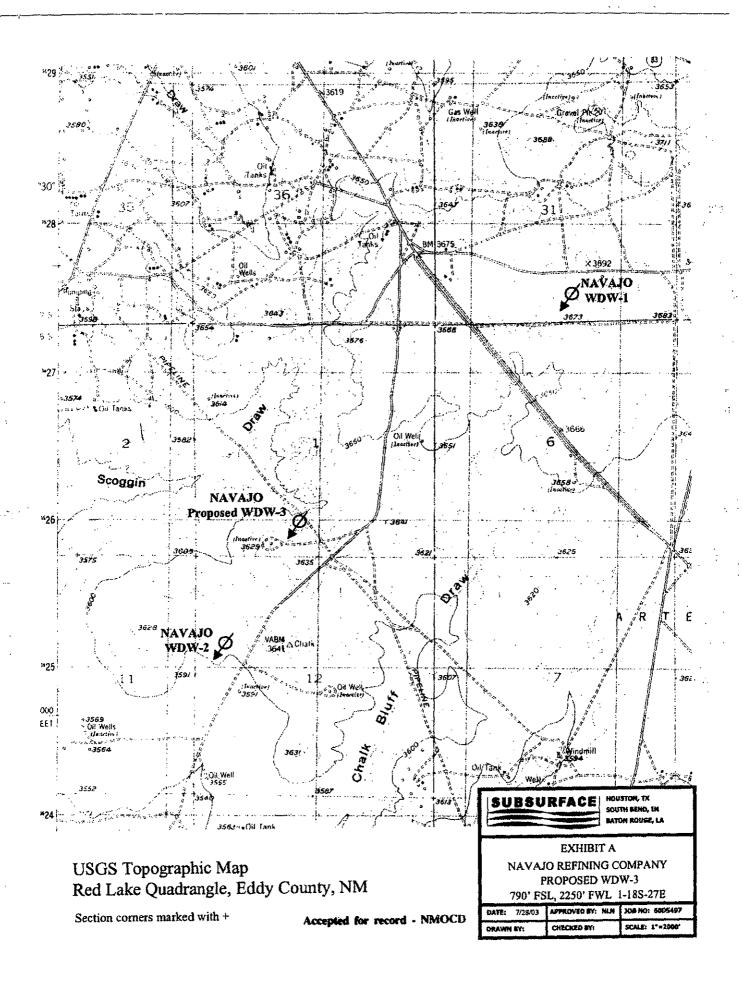
Name

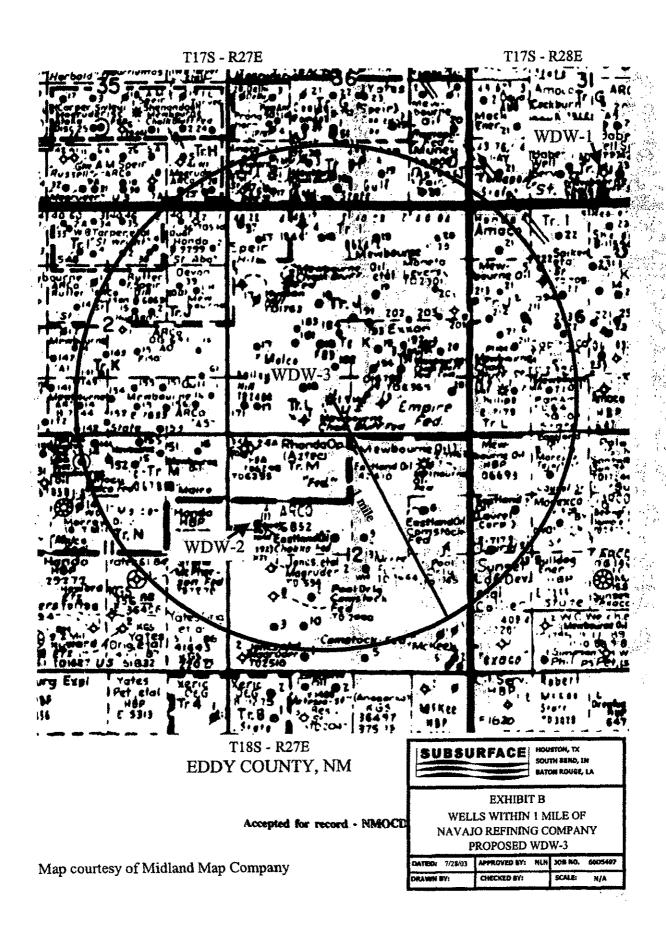
Eau. Mgr. for Water- Waste

Title

Navajo Refining Company

Company





Form 3160-5 (February 2005) OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: March 31, 2007

# 5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS						NM-0557371			
							ı, Allonee or	fribe Name	
	IPLICATE- Other instr	uctions o	n reve	rse side.		7. If Unit o	r CA/Agreem	ent, Name and	/or No.
1. Type of Well Oil Well	Gas Well		****	***************************************		8. Well Na	ma and Ma		
2. Name of Operator NAVAJO R	PYTHIPATO CORPS A NIV				1	WDW.			
3a Address	EFINING COMPANY	75 N	1. 6. 1.			9. API Wa 30-015			
P.O. BOX 159, ARTESIA, NM	1 8821	3b. Phone h 505-746	RECE	(Aria)	ŀ			ploratory Area	
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description)		JUL 1	7 2006		NAVA.	JO INJECT	ION; PERM	O-PEN
790' FSL, 2250' FWL, 1-18S -	27 <b>£</b>	Q		AID MITH		11. County  EDDY,	or Parish,  St , NM	ate	
12. CHECK A	PPROPRIATE BOX(ES) TO	INDICATE	NATUI	RE OF NOTIC	CE, RE	PORT, OF	OTHER	DATA	
TYPE OF SUBMISSION				PE OF ACTIO					
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture T New Cons Plug and / Plug Back	struction Abandon	Reclama Recompl	lete arily Abar	,	☐ Well In	Shut-Off tegrity RECOMPLI CLASS I INJECTION	
WELL WILL BE PLUGG DRILL OUT BRIDGE PL INJECTION-TEST PERF DRILL OUT BRIDGE PL	E WAS CHALK BLUFF FEDI EED BACK AND COMPLETE .UG AT 7010' AND CLEAN O 'ORATIONS AT 7050'-7102', ' .UGS AT 7208' AND 7294'. CI	ID-AS A CLA IUT TO 7208 7262'-7278' T LEAN OUT )	ass I in. '; 'o plan hole t	SQUEEZE C	EMENT	JOB:			
DRILL OUT BRIDGE PL RUN CBL/VDL AND CAI PERFORATE 8540'-8620' RUN INJECTIVITY TES RUN INJECTION/FALL RUN DIFFERENTIAL TE	T, AND ACIDIZE IF NECESS OFF TEST; EMPERATURE SURVEY;	UT TO TOP FACE;	, AND 73 OF LIN	194'-7314'; ER AT 9051';		AC		D FOR I	
INSTALL WELL ANNUL	UBING AND PACKER TO AI US MONITORING EQUIPM	PPROX. 7600 ENT, AND P	)'; AND 'REPAR	E FOR WELL	LINJECT	rion.	JUL	1 2 20	
<ol> <li>I hereby certify that the forepart Name (Printed/Typed)</li> </ol>	going is true and correct	<del></del>						EUM ENC	
DARRELL MOC	PRE		Title E	NVIRONMEN	TAL M	ANAGER I	FOR WATE	R & WAST	E
Signature David	l Moore		Date	6/29/	106				
	THIS SPACE FOR F	EDERAL	OR S	TATE OFF	ICE U	SE			
I managed by							recoff	3	
Approved by Conditions of approval, if any, are a certify that the applicant holds legal which would entitle the applicant to	or equitable title to those rights in	oes not warran	t or	itle Nice	ACCO	NWO(	CD/A.	·····	
itle 18 U.S.C. Section 1001 and Title	······	crime for any	nerson kn	puringly and wi	lifully to a	ooka to anu	Annorthment :	s a s a a a a a a a a a a a a a a a a a	a United

11tle 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

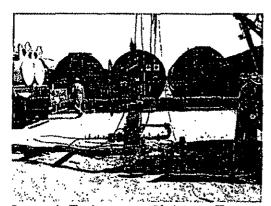
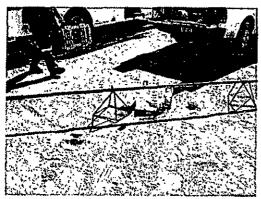


Image 1: Facing west. Christmas Tree with 500-barrel tanks in background. Far left tank was the only tank providing salt water. Truck on left is the pump truck pumping brine water only. Right truck is the rig truck (Wood Group Logging Service).



<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).



<u>Image 4</u>: Petroplex workers prepping wellhead for wire line tool entry.

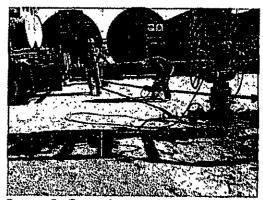


Image 5: Petroplex employees laying pipe from pump truck to well head.

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

November 15, 2006

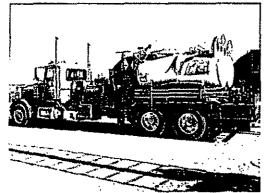


Image 6: Pump truck, Petroplex, for Brine water pumping only. No HCL used throughout process.



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

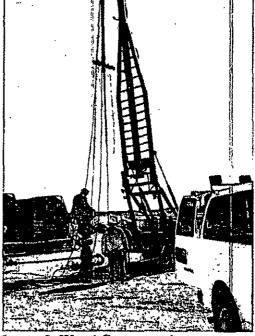


Image 8: Wood Group employee securing wellhead for tool entry.

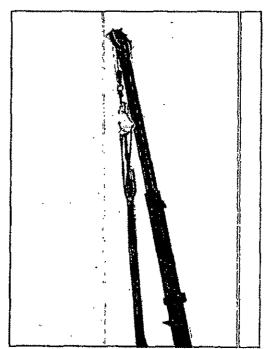


Image 9: Configuration at the top end of the boom.

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

November 15, 2006



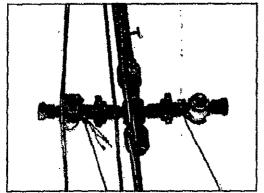
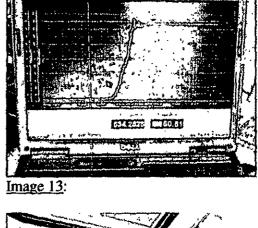


Image 10:



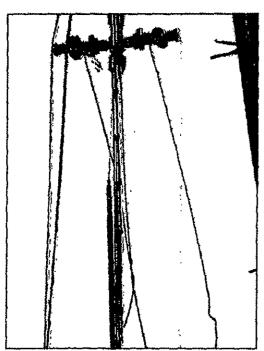
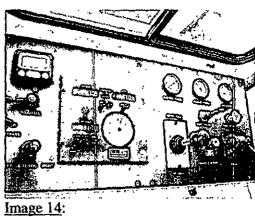


Image 11:



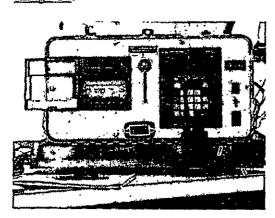
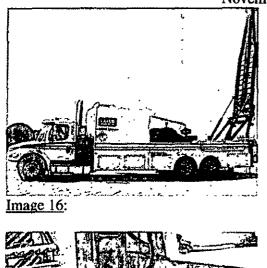
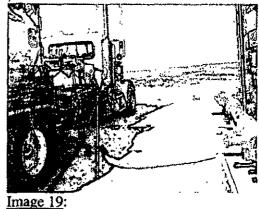


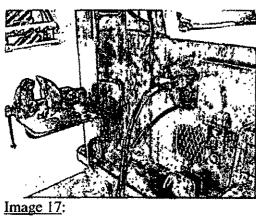
Image 15:

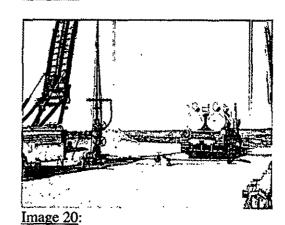
# Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575] (Carl Chavez & Leonard Lowe- OCD)

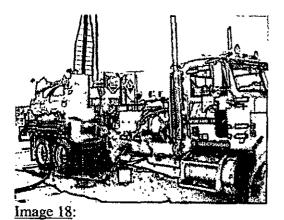
November 15, 2006

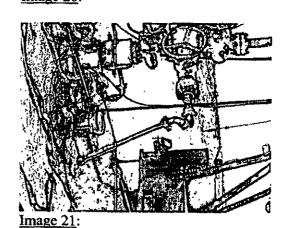




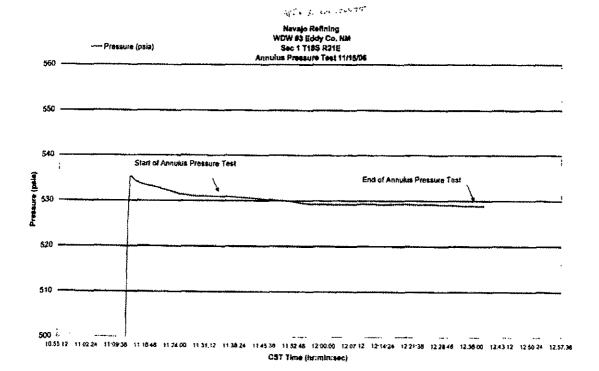


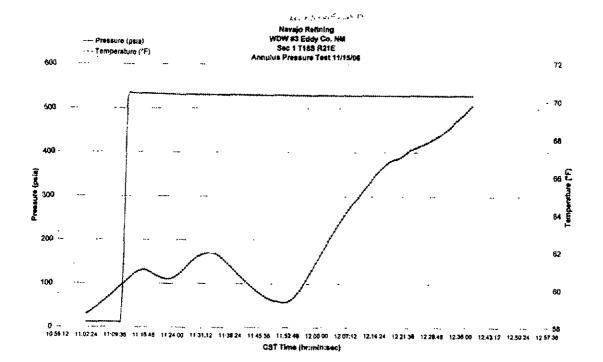






# Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575] (Carl Chavez & Leonard Lowe- OCD) November 15, 2006





District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

# 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. Francis Dr., Santa Pe, NM 87505 Santa Fe, NM 87505												
APPI	JCAT	ON FO	R PERMIT	TO D	RILL, RE	ENTI	ER, D	EEPE	N, PLUGBA		R AD	
		,	• '									
NAVAJO RENING COMPANY							30 - 015-26575					
Proper	ty Code			-	Property	Name					Well	No.
					DW	W	<del></del>			.l		)
			Proposed Pool t UECTION: PER	MO-PENN					Prop	osed Pool (	2	
t		· · · · · · · · · · · · · · · · · · ·		•	Surface	Locati	on		······································	· · · · · · · · · · · · · · · · · · ·		
UL or lot no.	Section	Township	Ronge	Lot 1	dn Pect (	irom the	NonlyS	Courts Piese	Feet from the	East/W	est line	County
	1	185	27E		2250	FWL			750 FSL.	<u> </u>		EDDA
			⁸ Prope	sed Botto	m Hole Loca	ation If I	Differer	it From !	Surface			
UL or lot no.	Section	Township	Range	Lot I	do Feetf	rom the	North/S	ionah line	Feet from the	East/W	est line	County
L		L	L	.JAd	ditional W	ell Info	rmati	 on		<u> </u>	1	···
11 Work	Type Code	1	12 Well Type Co			le/Rotary			Lease Type Code		15 Grou	nd Level Elevation
3	E		<u>I</u>			X						3609
	nijoje 10		17 Proposed Dep 9051	oth		malion NYON			19 Contractor		2	Spud Date
Depth to Grou		NKNOWN		Distance	from nearest fro	sh water v		7 22/1	Distance from	n nearest s	urface w	nter 10 MU FS
<u>Pit:</u> Liner:	Synthetic		ils thick Clay	☐ Pit Ve	lume;bb			illing Mell	bod:			III MILES
Close	d-Loop Sys	tem 🗌					Fr	esh Water	Drine X Die	scl/Oil-bas	ed 🗀 C	as/Air □
			)	Propose	d Casing a	nd Cen	nent P	rogram				
Hole Si	ze	Cas	ing Size	Casing	weight/foot	s	etting Do	epth	Sacks of Co	ment	1	Estimated TOC
17-1/	2"	13	3/8"	***************************************	50#		400		425 - C	425 - CIRC		
12-1/	4"	9	5/8"		36#		2604	>	1025 - CIRC			
8-3/4	>>		7"	26#	and 29#		9450	•	1350 - C	1350 - CIRC		
Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.  ORIGINAL WILL NAME WAS CHALK BLUFF FEDERAL COM. NO. I  WELL WILL BE PLUGGED BACK AND COMPLETED AS A CLASS I INJECTION WELL AS FOLLOWS:  DRILL OUT BRIDGE PLUG AT 7010' AND CLEAN OUT TO 7208; INJECTION-TEST PERFORATIONS AT 7050'-7102', 7262'-7278' TO PLAN SQUEEZE CEMENT JOB;  DRILL OUT BRIDGE PLUGS AT 7208' AND 7294'. CLEAN OUT HOLE THROUGH PERFS AT 7304'-7314';  SQUEEZE-CEMENT PERFORATIONS AT 7050'-7102', 7262'-7278', AND 7304'-7314';  SQUEEZE-CEMENT PERFORATION SAT 7050'-7102', 7262'-7278', AND 7304'-7314';  SQUEEZE-CEMENT PERFORATION SAT 7050'-7102', 7262'-7278', AND 7304'-7314';  SQUEEZE-CEMENT PERFORATION DOUT TO TOP OF LINER AT 9051';  RUN CELL VIDEOUS AND 7660'-8450';  RUN CELL VIDEOUS AND 7660'-8450';  RUN INJECTION TUBING AND 7660'-8450';  RUN INJECTION TUBING AND ACKER TO APPROX. 7600', AND INSTALL INJECTION USING AND PACKER TO APPROX. 7600', AND INSTALL WELL ANNULUS MONITORING EQUIPMENT. AND PREPARE FOR WELL INJECTION.  31 Thereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines [], a general permit [], or an (attached) alternative OCD-approved plan [].												
Printed name:								7.7.				
	Fith: Enu. Was. Jos Water & Waste Approval Date: 8/11/06 Expiration Date: 8/11/07  E-mail Address: dassell. Macre & Maryip-refining.com											
Date: 6/29	106	ell. Mada	Phone: SAS	**********	MING. 60		ns of Ap	oroval Atte	iched 🗹 🐧	STRIC	مككورا	حاسراره و عر
	·		<u> </u>							J// (V)	<u>رزز - ا</u>	-4 /N U.D.I

APPROVE CASING PROGRAM.

District 1

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

rict III

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1220 S. St. Pran	cis Dr., Saut	a Fc. NM 8750	5		, 1	□ АМ	ENDED REPORT			
		W	ELL LOC	CATION	AND ACR	EAGE DEDIC	ATION PLA	T		
API Number 2 Pool Code							Pool Nam	C		
30 - 015 -26575						Nava	njo Injection; l	Permo-Penn	Ì	
Property Code , Property Namo							Well Number			
					WDW	WDW			3	
OGRID No.					Operator N	ame		Blayntion		
	ļ			Na	vajo Refining	Company		3609' GL;		
									3625' KB	
			· · · · · · · · · · · · · · · · · · ·		10 Surface L	ocation	***************************************			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	e County	
N	1	18S	27E		790	South	2250	West	Eddy	
		<del></del>	<u>, 11 ~ </u>	** *	· · · ·	~		<del> </del>		

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

17 OPERATOR CERTIFICATION

				I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Shampe Datall Moore  Printed Name Dataell Moore	
	1			Tille size B. stall Address Env. Mags. For Water a Waste Date Classell@navayo-ratining.c	»щ
		,		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my bettef.	
•	2250 —	◆ ↑ 790		Date of Survey Signature and Scal of Professional Surveyor:	
ا ا		<b>+</b>		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

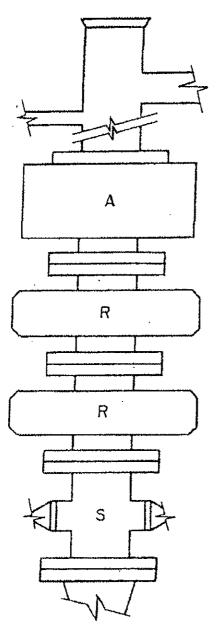
- 1. Level location to accommodate a workover rig, pump, tanks, and ancillary equipment. Build a small working pit approximately 30 feet square and 3 feet deep with a plastic lining. Move in the rig, tank, shale shaker, and work string.
- 2. Install a 7-1/16-inch, 3000-psi double hydraulic blowout preventer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

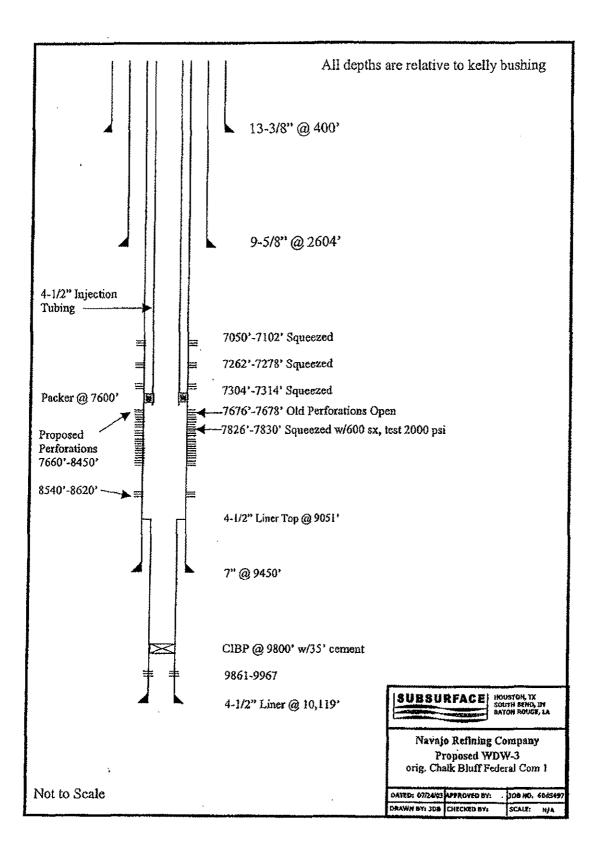
S = DRILLING SPOOL WITH SIDE OUTLETS 7-1/16", 3000 psi working pressure

Manual Choke Manifold 2", 3000 psi working pressure

Source: API RP 53, Recommended Practices for Blowout Prevention EquipmentSystems









# 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.
- Location of Existing Wells: 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.
- 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

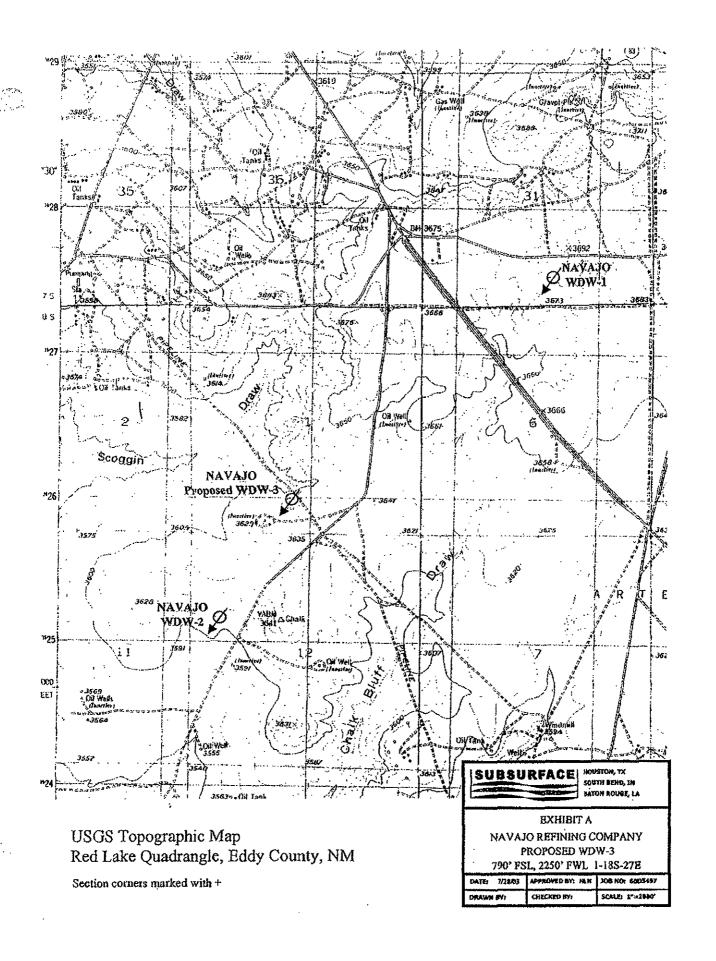
## **Exhibits**

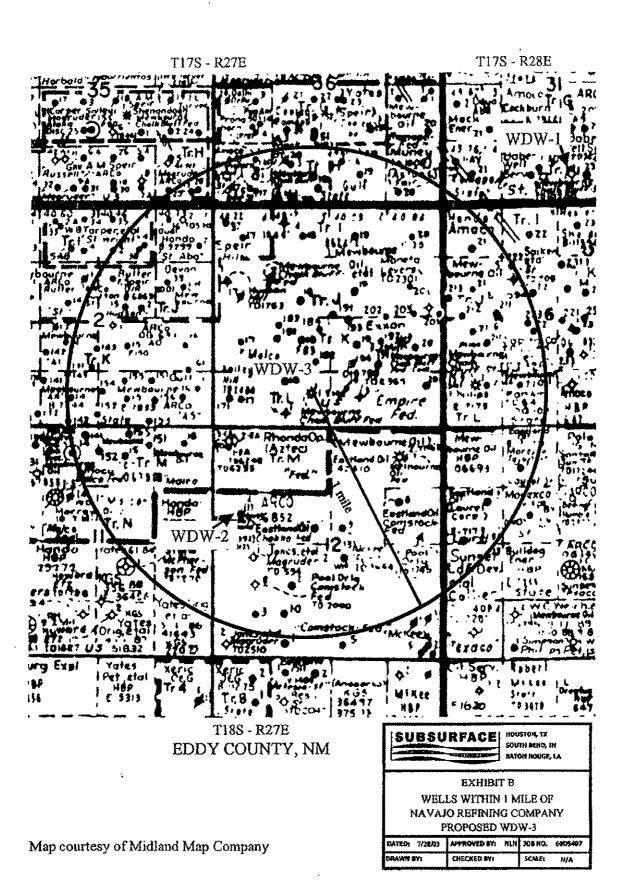
- A. Topographic Map
- B. Oil and Gas Map

# 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.

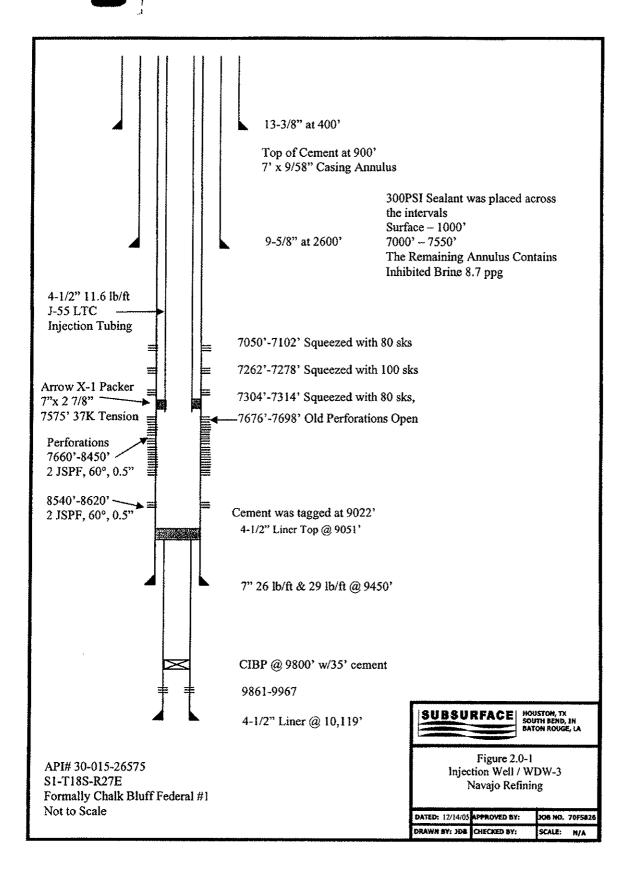
9/17/03	Danill More
Date	Darrell Moore
	EAU. Mgr. for Water Waite
	Navajo Refining Company Company





Submit 3 Copies To Appropriate District Office	State of Ne	w Mexico	Form C-103
District I	Energy, Minerals and	Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVAT	TION DIVISION	30 – 015 – 26575
District III			5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fa N	M 97505	STATE X FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM	Sama Pe, N	Francis Dr. M 87505 345678970777	6. State Oil & Gas Lease No. NM-0557371
87505	TOPE AND PERSONNE OF	7 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 /	
(DO NOT USE THIS FORM FOR PROPE DIFFERENT RESERVOIR. USE "APPL PROPOSALS.)	CICES AND REPORTS ON W DISALS TO DRILL OR TO DEFEN ICATION FOR PERMIT" (FOR M C-	OR PLUCE ACK TO A	7. Lease Name or Unit Agreement Name WDW - 3
1. Type of Well: Oil Well	Gas Well X Other	OCO ARTEC	8. Well Number 3
2. Name of Operator	1 1 1	<b>5.374</b>	9. OGRID Number
NAVAJO REFINING COMPAN	Y \[\frac{1c_1}{c_2}\]	-0/A 67/	
3. Address of Operator P.O. BOX 159, ARTESIA, NM 88	3211	CSE PEETELVE OF SEL	10. Pool name or Wildcat
4. Well Location			
1	790 feet from the SOUTH I	ine and 2250 feet from t	he WEST line
			y Eddy
beetten 1 Township	11. Elevation (Show whether		y Eddy
	GR 3609', RKB 3625'	T DR, KKB, KI, GR, etc.)	
Pit or Below-grade Tank Application 🔲		···	
7.74		fresh water well 1 MILE Di	stance from nearest surface water 6 MILES
	mil Below-Grade Tank: Volum		
			struction Material N/A
12. Check	Appropriate Box to Indica	ite Nature of Notice, I	Report or Other Data
NOTICE OF IN	ITENTION TO:	l cupo	PEOLIENT DEDODT OF
PERFORM REMEDIAL WORK		REMEDIAL WORK	SEQUENT REPORT OF:
TEMPORARILY ABANDON	PLUG AND ABANDON L		
PULL OR ALTER CASING	MULTIPLE COMPL	COMMENCE DRIL	
TOLL ON ALTER CASING []	MOLTIFLE COMPL LI	CASING/CEMENT	JOB 🗆
JTHER: To complete a Class 1 no	on-hazardous waste well 🏻 🥻	OTHER: Well com	pletion report to follow X
<ol><li>Describe proposed or comp</li></ol>	leted operations. (Clearly stat	e all pertinent details, and	give pertinent dates, including estimated date
of starting any proposed we or recompletion.	ork). SEE RULE 1103. For M	(ultiple Completions: Atta	ach wellbore diagram of proposed completion
•			
See attached well summary document	at and well schematic.		
_	1		
Mit Witnessed by C. No Chart Submit	1-1 MI21182.		
MIL MILLESSEA DA CI	Lal		
No Chart Submit	[24,		
100 0000	/T.		
	/ -		
I hereby certify that the information:	above is true and complete to t	he best of my knowledge	and belief. I further certify that any pit or below-
grade tank has been/will be constructed or	closed according to NMOCD guidel	nes 🔲, a general permit 🔲 or	an (attached) alternative OCD-approved plan .
11 11	1		- <del>-</del>
SIGNATURE LAWY /V	TITL	E Cau. Myr. for V	Notora Wash DATE 1/8/07
Time or print name			, ,
Type or print name	pled for record E-ma	il address:	Telephone No.
r State Use Only	MAOCO/O.		
APPROVED BY:	TITL	F	DATE
Conditions of Approval (if any):			DATE

Submit To Approp State Lease - 6 cop		rict Office	:		State of New 1	Mexico						Form C-105		
Fee Lease - 5 copie			Eı	ergy	, Minerals and N	atural Re	esources					Revised June 10, 2003		
District.1 1625 N. French Dr	., Hobbs,	NM 88240							WELL API NO. 30 - 015 - 26575					
District II 1301 W. Grand Av	евие, Ап	esía, NM 88210		C	Dil Conservation	Divisio	on			~				
<u>rict III</u> J Rio Brazos R	d Aaton	NIM 97410		13	220 South St. F	rancis D	r.		5. Indicate STAT	rype or i				
Lostrict IV					Santa Fe, NM	87505			State Oil & Gas Lease No.					
1220 S. St. Francis			DD DEC	71 AD	I CTION DEDO	DT AND	1100							
la. Type of Well		LETION	JR REU	JIVIP	LETION REPO				7. Lease Name or Unit Agreement Name					
		GAS WEL	. DR	Υ□	OTHER Non-hazare	lous Waste	Disposal W	/ell	7. Lease Name	or Unit Ag	greement (	Name		
b. Type of Com	nletion				// .	1	23		Waste Disposal	Well / WE	OW - 3			
NEW 🗆	WORK	X DEEPEN	PLUC		DIE WILL	À	(i)							
WELL  2. Name of Opera	OVER	***************************************	BAG	K	RIESVROCT PERTY	Elly V	[ 5]		0 11/1/1/ 0					
2. Name of Opera	itoi				Apr	EO	65		8. Welf No. 3					
NAVAJO REFIN		OMPANY			112	SIA	<u> </u>							
3. Address of Ope	erator				13	.c)	87		9. Pool name or	Wildcat				
P.O. BOX 159, A	RTESIA	A, NM 88211			35 p> 07.7	750 O	. <i>r</i>							
4. Well Location	-	· 700 E	at Fram The	COBT	H Line and 2250 Feet	Comme Office	Wilder 1:							
OHR Lette	•	<u>/20</u> FC	wright life	27711	L. Line and <u>443V</u> reet	riom ine	WEST LI	ic						
Section 1	Townsh	ip 18 South R					C	ounty	Eddy, NM					
10. Date Spudded 12/22/90	11.1	Date T.D. React	led   12.		ompl. (Ready to Prod.) Injection 1/15/07	13.	Elevations DF	(DF& 3616	RKB, RT, GR, ft / GR 3609 ft	etc.)	14. Elev	. Casinghead 3609 ft		
15. Total Depth		16. Plug Back	T.D.		Multiple Compl. How	Manv	18. Interv		Rotary Tools		Cable			
10,119 ft		902			ones?		Drilled B	-	(Reentry Drill			20019		
19. Producing Into	mal(e)	of this complet	ion Ton Do	! N	2				Plugs with Swivel)  20. Was Directional Survey Made					
					t Cisco & 8540 ft t	o 8620 ft	Canyon		20	. Was Din		urvey Made No		
21. Type Electric	and Oth	er Logs Run					Carryon		22. Was Weil (	Cored				
	BL/V	DL, Temper	ature, Cali	oer, R	adioactive Tracer,	Pressure					No			
23.				CA	SING RECOR	D (Rep	ort all s	trin	gs set in we	ell)				
CASING SIZ	E	WEIGHT			DEPTH SET		LESIZE		CEMENTING		A	MOUNT PULLED		
13 3/8" 9 5/8"		54. 30			400'		7 ½"		425-CI		<b></b>	NONE		
9 3/6 7"		29 &		-	2604' 9450'		2 ¼" 3 ¾"		1025-C			NONE		
,		27 (4	- 40		9430		74		1350-C	IKC	-	NONE		
· · · · · · · · · · · · · · · · · · ·							•••		<del></del>		+	A4		
24.				LIN	IER RECORD			25.	TU	BING RI	CORD			
SIZE	TOP		BOTTOM		SACKS CEMENT	SCREEN	*******	SIZ	E	DEPTH S		PACKER SET		
4 1/2"	ļ	9051'	10,11	9'	175	NO	NE		4 1/2"	750	57'	7575'		
26. Perforation r	ecord /	nterval, size, ar	d number)			32	D 0110=	F-F	CONTINUE	7 TO 1 TO 1				
20. I CHOIMION I	word (i	inci vai, siec, ai	u nomoci)			DEPTH I	D, SHUT, NTERVAL	FKA	AMOUNT AN					
7660' TO 8450' / ( 8540' TO 8620' / (							O 7102'				*****	AT SQZ PERF		
8340 10 8020 / (	3.3 12.	ispr/ou					O 7278'					MT SQZ PERF		
						7304' T	O 7314'					AT SQZ PERF		
28					PRO	DUCT	ION							
Date First Producti					owing, gas lift, pumping				Well Status (F	rod. or Sh	ut-in)			
(INJECTION WEI Date of Test		Tested:	JECTION PU Choke Size	JMP)	Prod'n For	Oil - Bbl		Gan	(SHUT-IN) MCF	Water - Bl	L1	I Con Cit of		
			NO CHOKE		Test Period	N/	A	Gas ·	N/A	Water - BI		Gas - Oil Ratio N/A		
10/19/06 Flow Tubing	4 HO	URS g Pressure		NJECT TEST N/A										
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MAX INJECT	750 P	SI	8 BPM		N/A		N/A		N/A			N/A		
1450 PSI 29. Disposition of C	Jas (Sol	d, used for fuel	vented, etc.)		<u> </u>	<u>l</u>			וייו	est Witness	eri Rv	***************************************		
NO GAS				<del></del>										
WELL SUMMARY	OF EV	VENTS, WELL	WAS CONV	ERTE	D TO A CLASS I NO	I-HAZARI	OOUS WAT	rer v	WASTE DISPOS	AL WELL	A FUL	L REPORT WILL		
31 Thereby certif	y that i	he informatio	n shown on	both s	ides of this form as t	ue and co	mplete to	the b	est of my know	ledge and	belief			
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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.

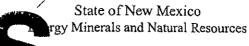
A 12 hr pump in and falloff test was performed down the 4 1/2-inch tubing. To maintain a surface injection pressure that was below the permitted pressure of 1550 psi the injection rate was lowered to 9 bpm at the end of the pump in procedure. The BHP gauge was placed at 8630 feet for 14 hrs to monitor 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
'trict IV
0 S. St. Francis Dr., Santa Fe, NM 87505



For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Senta Fe office

Form C-144 June 1, 2004

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

For drilling and pappropriate NMOO For downstream office

Pit or Below-Grade Tank Registration or Closure

	or below-grade tank Closure of a pit or below-g	
Operator: Reserve Comment Telepho	25/5-37/	
Address: SCIEGE MAN STREET AND	ne:(385)/79-33// e-mail address:	
Facility or well name: WOW #3 API#:	30-015-26575 U/L or Otr/Otr	Sec / T /8 PR 27 F
Facility or well name: WOW = 3 API#:  County: Eddy - Latitude	Longitude	NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal State Private Indian		
Pit	Below-grade tank	
Type: Drilling Production Disposal	Volume:bbl Type of fluid:	
Workover Emergency	Construction material:	
Lined I Unlined	Double-walled, with leak detection? Yes If n	not, explain why not.
Liner type: Synthetic P Thickness 22 mil Clay		
Pit Volumebbl		•
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)
	100 feet or more	( 0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No.	(Opoints)
,	Less than 200 feet	(20 points)
restance to surface water: (horizontal distance to all wetlands, playas,	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)
	Ranking Score (Total Points)	10
If this is a pit closure: (1) Attach a diagram of the facility showing the pit		
your are burying in place) onsite 🔲 offsite 💢 If offsite, name of facility_(		
remediation start date and end date. (4) Groundwater encountered: No 🎝 🕆	es If yes, show depth below ground surface	ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excava-	······································	
WDW #3 RS DET NEW NEVICE OIL	DANY PLANS TO CLOSE I	Drilling Dit on the
WDW #3 Asper New MERICO OIL	CONSETUATION DIVISION T	WE SO IN the PA
AND BELOW Grade tank Guide /10	IES, NAURIO PLANS TO TER	DOVE All fluids and
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Disposal and Backfill with onsite	stockpiled soils. WE Will N	ofife O.C.D 48 hours
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I hereby certify that the information above is true and complete to the best	of multipopulation and halfof V for the smaller than	
has been/will be constructed or closed according to NMOCD guideline	s X, a general permit L, or an (attached) altern	ative OCD-approved plan
		ļ
Date: 2/14/06	Signature Land	
Printed Name Title		
Your certification and NMOCD approval of this application/closure does notherwise endanger public health or the environment. Nor does it relieve the regulations.	of reneve the operator of manifely should the contents are operator of its responsibility for compliance with a	s of the pit or tank contaminate ground water or any other federal, state, or local laws and/or
Anoroval: Jens W. Beenge		-11-
ed Name/Title	Signature	Date: 2/12/67

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

WAITING ON STATE APPROVAL TO INJECT

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Produced	Date	Tested	Production	BBL	MCF	BBL	Corr. APT	Gravity		
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28c. Prod	nction - Int	ervai D		<b></b>	1					
Date First	Test	Hours Tested	Test	Oil	Gas MCF	Water BBL	Oil Gravity	Gas	Production Method	<del></del>
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Choke	The Press.	Cag.	24 Hz.	Oil	Gas	Water	Gas/Oil	Well States	L.	
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33. Indicat	te which itn	es have be	en attached	by placing	a check in th	e appropriat	e boxes:			
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☑ Sur	dry Notice	for pluggi	ng and cemen	it verificati	on 🔲 Con	e Analysis	Other:			
04 F				<del></del>	· •					
34. Thereb	y certify th	at the fore	oing and att	ched info	mation is co	mplete and co	wrect as determined fi	rom all availat	ole records (see attached instruction	008)*
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Signat	ure _	<u> </u>	ul	IN	sse		Date	1/24/1	7	
Title 18 U.	S.C Section	n 100i and	Title 43 U.	S.C Section	or 1212, maj	ce it a crime	for any person knowi	ngly and willf	fully to make to any department (	or agency of the United

16.	ورورورورورورورورورورورورورورورورورورور	1037 V															
S. A. A.	Form (Agenda	180 %	23456		DEPAR BUREAU	UNITED STATEMENT OF TO	THE IN	GEMENT						OMBNO.	APPROVED 1004-0137 (arch 31, 2007		
	3. C.	& ME	LL GO	MPLE	TION O	R RECOMP	LETIO	N REPOI	RT AND	LOG			5. Lease NM	Serial No. - 0557371			
	ia.	of Well		Vell [	Gas Wel		Other		·····		<del></del>			m, Aliotte	e or Tribe Name		
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1,1	9LGL4	of Operat	Of MAN	Other	POTATIAL	COMPANY					<b>,</b>						
			11/61/					*******					WD	Name and W - 3	Well No.		
	3. Address P.O. BOX 159, ARTESIA, NM 88211 3a Phone No. (include area code)											)   '	9. AFIW 30-0	/ell No. 015 - 2657	75		
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WAITING ON STATE APPROVAL TO INJECT

28b. Prode	action - Inte	ryal C										
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method			
Choke. Size	Tbg. Press. Flwg. Si	Csg. Press.	24 Hr. Rato	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status				
28c. Prod	oction - Int	crvai D		<b> </b>		<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. Flwg. SI	Csg. Presa.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well States				
29. Disp	osition of G	ias (Sold, 1	sed for fuel,	vented, etc	<del>;                                    </del>			· · · · · · · · · · · · · · · · · · ·				
N/A	(NON-H/	ZARDO	US CLASS	I WELL)								
30. Sum	mary of Por	ous Zones	(Include Aqu	rifers):				31. Formati	on (Log) Markers			
30. Summary of Porous Zones (Include Aquifers):  Show all important zones of poronity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.												
F7	41	Тор	Bottom		Descri	ptions, Conte	nis etc	1	Name Top			
rom	nation	, cop	Double		Dosai	prioris, come	143,00/.		Meas. Depth			
27 6 4 4 4 4												
32. Additional remarks (include plugging procedure):  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. THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH CEMENT AT 7050' TO 7102', 7262' TO 7278', AND FROM 7384' TO 7314'. A 4 12" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7550' AND BOTTOM OF PACKER AT 7575'. MIT WAS WITNESSED BY OCD.												
(SEE	ATTACE	IED WEI	LL SUMM	ARY FOR	MORE D	ETAILS)						
					a check in t	he appropriat	boxes:					
			gs (1 full set ng and cemen			ologic Report e Analysis	DST Report Other:	Direction	ai Survey			
34. Therei	ny certify th	at the fore	oing and att	ached infor	mation is co	mpiete and co	wrect as determined f	rom all availal	ole records (see attached instructions)*			
Name (	34. Thereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*  Name (please prins)  Darrell Moore  Title Env. Mar for Water & Wester  Signature  Date 1/24/07											
Title 1811	S.C Section	n 1001 and	i Title 43 II	S.C Section	na 1212 mai	ke it a crime !	for any nerson knowi	nelv and pilling	illy to make to any department or avency of the United			

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

#### OCD-ARTESIA 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. NW-0557371 MAR - 5 2007 SUNDRY NOTICES AND REPORTS ON WELL If Indian, Allottee or Tribe Name OCD - ARTESIA, NM Do not use this form for proposals to drill or to re-enter a 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. 1. Type of Well Oil Well Gas Well Other 8. Well Name and No. Wnw.3 2. Name of Operator NAVAJO REFINIG COMPANY API Well No. 30 - 015 - 26575 3a Address 3b. Phone No. (include area code) 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 SI - T18S - R27E; 798' 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 Water Short-Off Notice of Intent Alter Casing Well Integrity Fracture Treat Reclamation Casing Repair Other Subsequent Report New Construction Recomplete Change Plans Plug and Abandon Temporarily Ahandon NON-HAZARDOUS Final Abandonment Notice Convert to Injection ___Plug Back Water Disposal 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) 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 7384' TO 7314'. 10/13/06 - RAN CBL/VDL AND TEMPERATURE SURVEY, PERFORATED INTERVAL FROM 7650' TO 8450' AND FROM 8540' TO 86201. 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'. 11/4/96 - 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 I REPORTED IN AN ANNULUS PRESSURE TEST. SUBJECT TO LIKE I hereby certify that the foregoing is true and correct Name (Printed/Typed) Title 1/24 Date THIS SPACE FOR FEDERAL OR STATE OFFICE HEEPTED

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or representations as to any matter within its jurisdiction.

2 8 2007

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

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 sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

#### NOTICE

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

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

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

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

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

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

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

Response to this request is mandatory.

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

### **BURDEN HOURS STATEMENT**

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

## SUNDRY NOTICE SPECIAL STIPULATIONS

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

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

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

F Wright 2/28/07

Form 3166 (April 20	)-4 04)					TED STA		*****	•	£1.5		: 1		EODNA A	PPROVED			
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4. Locat	ion of Well	(Report le	ocation	clearly and	in ac	cordance with	Feder	al requirem	enis)*				<del></del>	······	r Exploratory	-		
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29. Disposition of Gas (Sold, used for fuel, vented, etc.)  N/A (NON-HAZARDOUS CLASS I WELL)											
30. Summary of Porous Zones (Include Aquifers):  Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.											
<b>17</b>		Тор	Bottom		Decori	ptions, Conte	nte etc		Name	Тор	
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32. Additi	onal remari	ks (include	plugging pro	cedure):							
REC EXIS SQU WAS	32. Additional remarks (include plugging procedure):  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. THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH CEMENT AT 7050' TO 7102', 7262' TO 7270', AND FROM 7304' TO 7314'. A 4 1/2" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7565' AND BOTTOM OF PACKER AT 7575'. MIT WAS WITNESSED BY OCD.  (SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)										
					<del></del>	·	hove			***************************************	
33. Indicate which itmes have been attached by placing a check in the appropriate boxes:    Electrical/Mechanical Logs (1 full set req'd.)											
34. Thereb	v catify th	at the fores	ning and att	ched infor	nation is cor	miete and co	ment as determined fo	mm all susilab	le seconde (ese aproched in a		
34. Thereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*  Name (please print) Darrell More Title Env. Mgr for Water & Waster  Signature Date 1/24/07											
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Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

#### INSTRUCTIONS

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

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

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

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

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

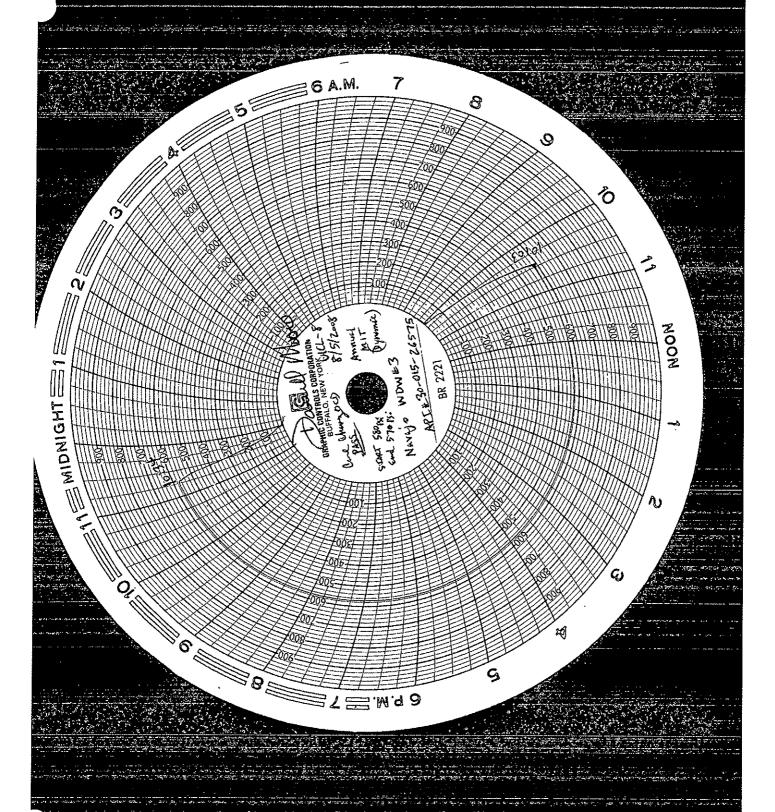
Iodine 131 was then ejected at a depth of 7375' and pumped down the tubing and into the permitted interval. Overlapping logging passes tracked the R/A tracer material as it moved down in the wellbore. The R/A material was seen traveling down the tubing, past the packer, and exiting the permitted injection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

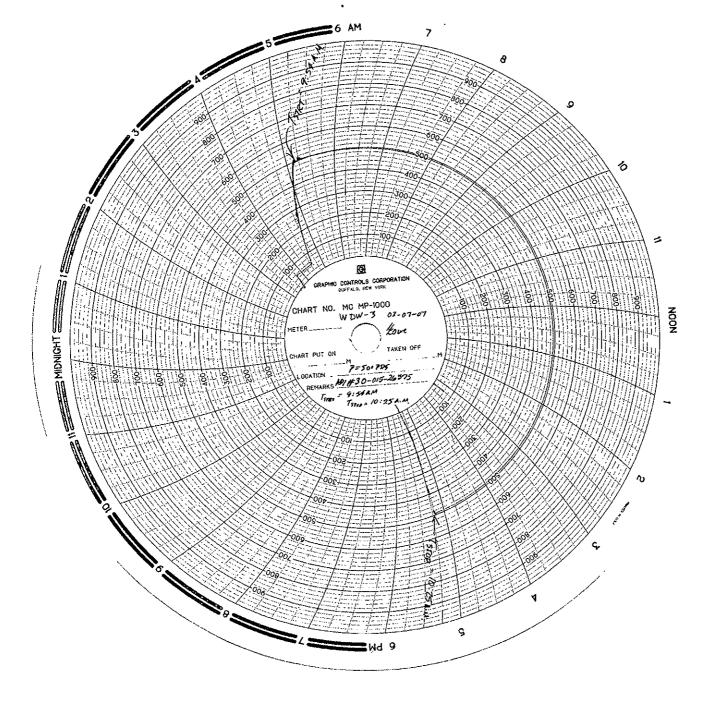
The flow profile log was then repeated and this survey also showed R/A material going out into the permitted interval.

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



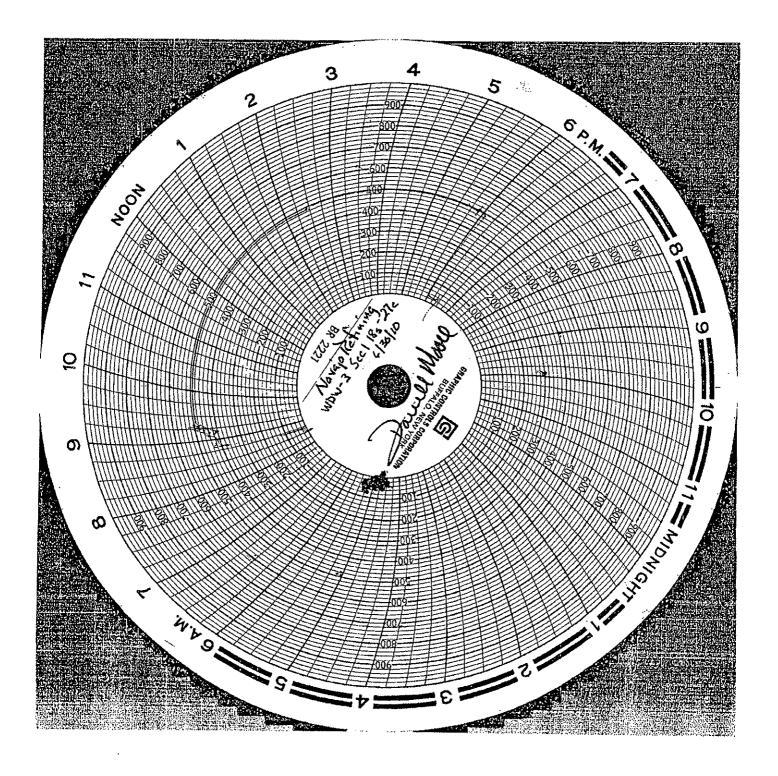


# Oil Conservation Division, Environmental Bureau C/O: Carl Chavez 1220 South St. Francis Drive Santa Fe, New Mexico 87505

# **BRADENHEAD TEST REPORT**

(Submit 2 copies to above address)

Date of 7	Cest June 30	, 2010	Operator_N	avajo Refining	API #30-0 15-26	5575							
• •	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	BRADENHEAI	AND INTERME	DIATE TO	ATMOSPHERE INDI	VIDUALLY FOR 15	MINUTES EACH							
TIME	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	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 bradenh	ead flowed water	r, check all of the de	scriptions (	hat apply below:									
Cì	EARF	RESHSAL	TY	SULFURBLAC	CK								
5 MINUTI	E SHUT-IN B	RADENHEAD 0		INTERMEDIATE 0									
REMARKS		urface and int	ermediat	e bradenheads wer	e onened one of	s time Roth							
				he vqalve (from h									
		No pressure.											
By Dar	rell Moore	Daull	Moore	Witness									
Env. Mgr. for Water & Waste Navajo Refining (Position)													
E-mail addressdarrell.moore@hollycorp.com													



# Chavez, Carl J, EMNRD

From:

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

Sent:

Friday, March 05, 2010 8:51 AM

To: 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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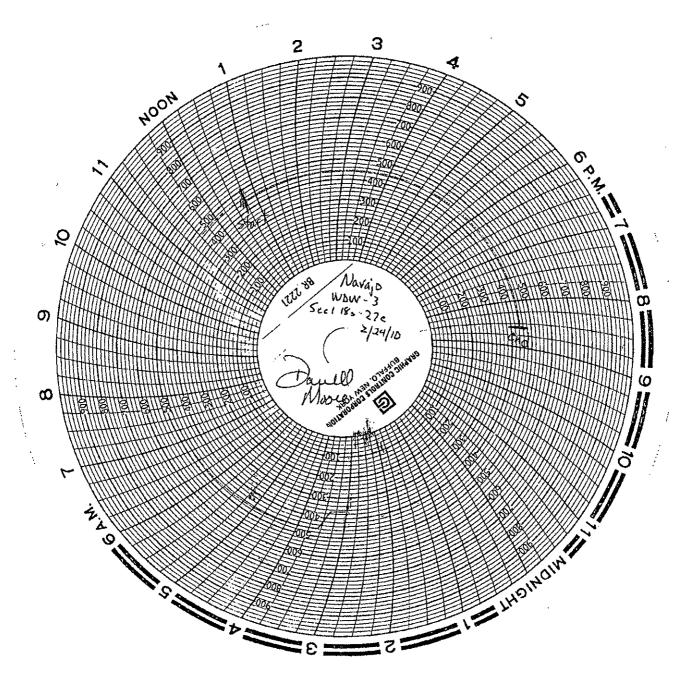


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## Chavez, Carl J, EMNRD

From: Sent:

Chavez, Carl J, EMNRD

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: http://www.emnrd.state.nm.us/ocd/index.htm (Pollution Prevention Guidance is under "Publications")

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

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

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

Carl

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

Darrell Moore

Environmental Manager for Water and Waste Navajo Refining Company, LLC Phone Number 575-746-5281 Cell Number 575-703-5058 Fax Number 575-746-5451

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

## **BRADENHEAD TEST REPORT**

(Submit 2 copies to above address)

Date of Test June	30, 2010 C	Operator N	avajo Refining	API #30-0 <u>15-26</u>	5575	
Property Name WDW Well No. 3 Location: Unit O Section 1 Township185 Range27e  Injecting Well Status (Shut In or Producing) Tubing Intermediate Casing Bradenhead						
OFEN BRADENHE	AD AND INTERME	DIATE TO	ATMOSPHERE INDIV	IDUALLY FOR IS	MINUTES EACH	
TIME BRADENHEA	PRESSURES:	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 Nothing	R 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 wa	ter, check all of the de	scriptions ti	hat apply below:		·	
CLEAR	FRESHSALT	I'Y	SULFUR BLACK	<u>.                                    </u>		
5 MINUTE SHUT-IN BRADENHEAD 0 INTERMEDIATE 0						
REMARKS:				·		
Both the	surface and int	ermediate	e bradenheads were	opened one at	a time. Both	
had a pu	ff of air upon o	pening th	he v <b>q</b> alve (from he	at build-up) ai	nd then nothing.	
No flow.	No pressure.					
By Darrell Moore	Daylol	Nooce	Witness			
Env. Mgr. for	Water & Waste					
(Position)						
E-mail address_darrell.moore@hollycorp.com						

## Chavez, Carl J, EMNRD

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

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

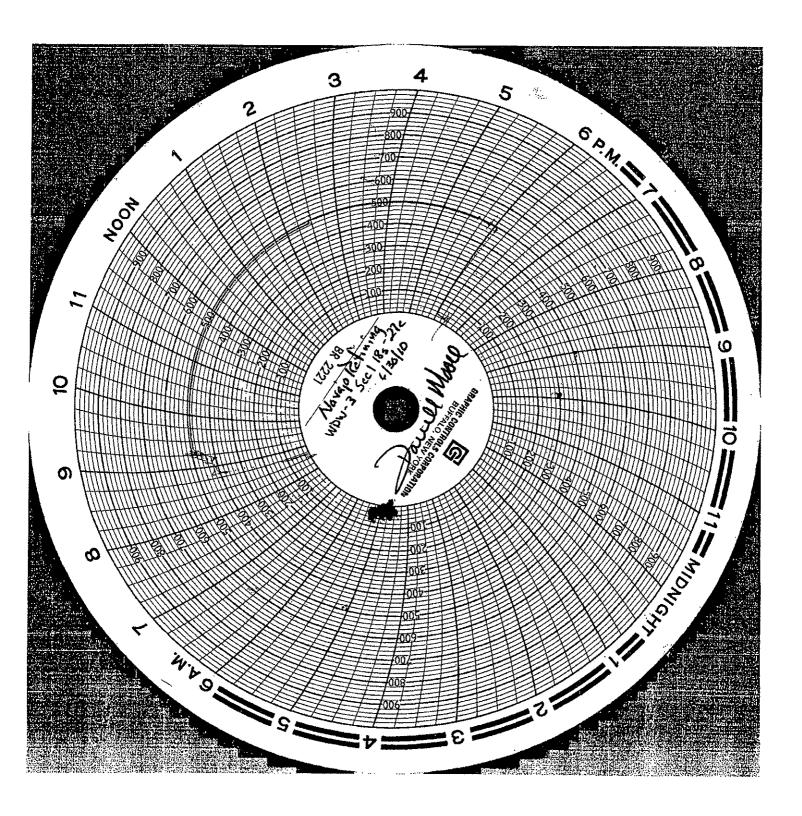
Sent: Wednesday, June 30, 2010 1:44 PM

To: Moore, Darrell

Subject:

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

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	State of New Me	exico	Form C-103
Office <u>District 1</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources		Revised August 1, 2011 WELL API NO.
District II - (575) 748-1283	OIL CONSERVATION	IDIVISION	30-015-26575
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	1220 South St. Francis Dr.		5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 District IV - (505) 476-3460	Santa Fe, NM 8		STATE FEE 6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			NM-0557371
SUNDRY NO (DO NOT USE THIS FORM FOR PROI DIFFERENT RESERVOIR. USE "APP	7. Lease Name or Unit Agreement Name Gaines WDW-3		
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well Other Injection W	/ell	8. Well Number WDW-3
2. Name of Operator			9. OGRID Number
Navajo Refining Company			,
3. Address of Operator Post Office Box 159, Artesia, N	ew Mexico 88211		10. Pool name or Wildcat: Navajo Permo- Penn
4. Well Location			
Unit Letter N :	790 feet from the South	line and <u>2250</u>	feet from the West line
Section 01	Township 18S	Range 27E	NMPM County Eddy
	11. Elevation (Show whether DR 3609' GL, 'RKB	, RKB, RT, GR, etc.)	
Para 10 men ann an Anna ann an Anna ann an Anna ann an Anna ann an Anna ann an Anna ann an Anna ann an Anna an	28 3009 GL, KKB		ALTERNATION CONTRACTOR CONTRACTOR
12. Check	Appropriate Box to Indicate N	lature of Notice, l	Report or Other Data
NOTICE OF I	NTENTION TO:	91199	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK		REMEDIAL WORK	
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRII	LLING OPNS. P AND A
PULL OR ALTER CASING [		CASING/CEMENT	L JOB
DOWNHOLE COMMINGLE			,
		1	
OTHER: PERFORM PRESSURE	FALLOFF TEST	OTHER:	
13. Describe proposed or com	upleted operations. (Clearly state all work). SEE RULE 19.15.7.14 NMAG	pertinent details, and	I give pertinent dates, including estimated date npletions: Attach wellbore diagram of
13. Describe proposed or come of starting any proposed was proposed completion or re-	upleted operations. (Clearly state all work). SEE RULE 19.15.7.14 NMAGE completion.	pertinent details, and C. For Multiple Con	I give pertinent dates, including estimated date
13. Describe proposed or come of starting any proposed or proposed completion or responsed to the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the completion of the comp	upleted operations. (Clearly state all work). SEE RULE 19.15.7.14 NMAGE completion.  all bottomhole gauges into WDW-1,	pertinent details, and C. For Multiple Con	I give pertinent dates, including estimated date npletions: Attach wellbore diagram of
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13. Describe proposed or come of starting any proposed of proposed completion or responsed to three wells.  December 12, 2011 – Institute wells.  December 13, 2011 – Confidence of the proposed completion or response to the proposed completion or response to the proposed completion of the proposed completion of the proposed completion of the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or response to the proposed completion or res	upleted operations. (Clearly state all work). SEE RULE 19.15.7.14 NMAGE completion.  all bottomhole gauges into WDW-1, ntinue injection into all three wells. 12:15pm, the offset wells WDW-1 and continue for a 30 hour injection per state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	pertinent details, and C. For Multiple Con WDW-2, and WDW and WDW-2 will be seriod. Do not exceed	d give pertinent dates, including estimated date inpletions: Attach wellbore diagram of /-3 by 11:45am. Continue injection into all thut-in. A constant injection rate will be 1000 psig wellhead pressure.
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I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
SIGNATURE Try Jones TITLE Project Engineer  Type or print name Timothy Jones E-mail address: Honese Subsurface group. Com  L'or State Use Only	DATE 10/3/2011 PHONE: 7/3-880-4640
APPROVED BY: <u>Cart</u> . <u>Charge</u> TITLE <u>Environmental Engineer</u> I Conditions of Approval (if any). Sur E-mail conditions dut d. 10/1912011 attack	DATE 10/19/2011  child to WDW-1.

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### Chayez, Carl J, EMNRD

rom:

Chavez, Carl J, EMNRD

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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)

Submit 1 Copy To Appropriate District Office	State of New Me	exico	Form C-103
District I - (575) 393-6161	Energy, Minerals and Natural Resources		Revised August 1, 2011
1625 N French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283	044 604 (677)		WELL API NO. 30-015-26575
811 S First St, Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of Lease
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd , Aztec, NM 87410	1220 South St. Fra		STATE FEE
District IV - (505) 476-3460	Santa Fe, NM 8	7505	6. State Oil & Gas Lease No.
1220 S St. Francis Dr., Santa Fe, NM 87505			NM-0557371
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PROPOSALS)  1. Type of Well: Oil Well	Gas Well Other Injection W	/eil	8. Well Number WDW-3
2. Name of Operator	one non El one injection in		9. OGRID Number
Navajo Refining Company			- Control Manage
3. Address of Operator	** !		10. Pool name or Wildcat: Navajo Permo-
Post Office Box 159, Artesia, Ne	w Mexico 88211		Penn
4. Well Location			
Unit Letter N:	790 feet from the South		feet from the West line
Section 01	Township 18S	Range 27E	NMPM County Eddy
	11. Elevation (Show whether DR	, RKB, RT, GR, etc.,	
	3609' GL, ' RKB		
12 Check	Appropriate Box to Indicate N	latura of Matica	Donart or Other Date
12. Check	Appropriate Box to indicate N	lattire of Notice,	Report or Other Data
NOTICE OF IN	NTENTION TO:	SUB	SEQUENT REPORT OF:
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SIGNATURE Ting thy	Jones TITLE Project	Engineer DATE	10/3/2011
ype or print name Timothy	Land .	C Subsurface group. or PHONE:	713-880-4640
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 N/A

STATUS ACTIVE

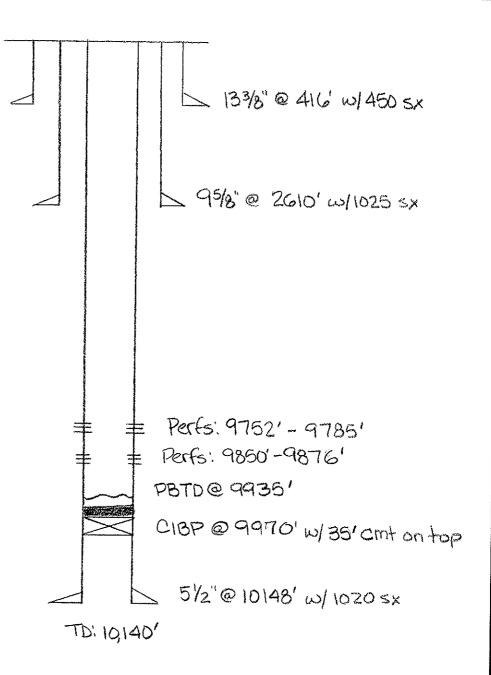
LOCATION Sec. \ -T\8 s-R27E

MUD FILLED BOREHOLE \ N|A

TOP INJECTION ZONE \ -3591'

API NO. \ 30-015- 2674\

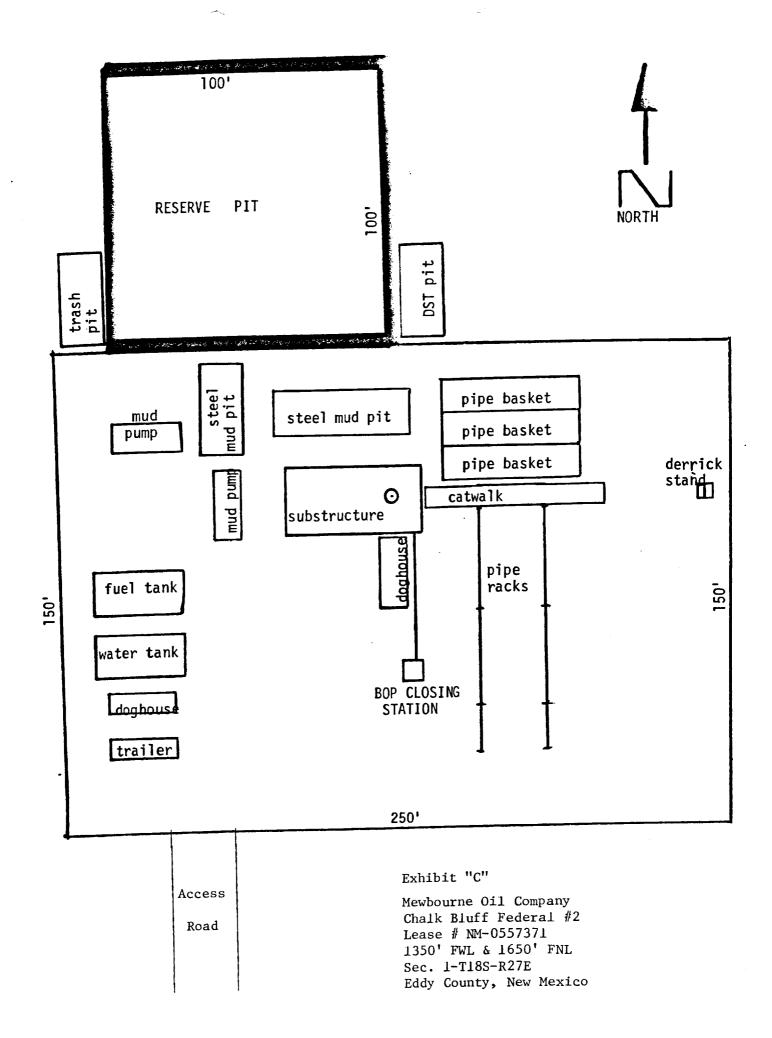
**REMARKS:** 

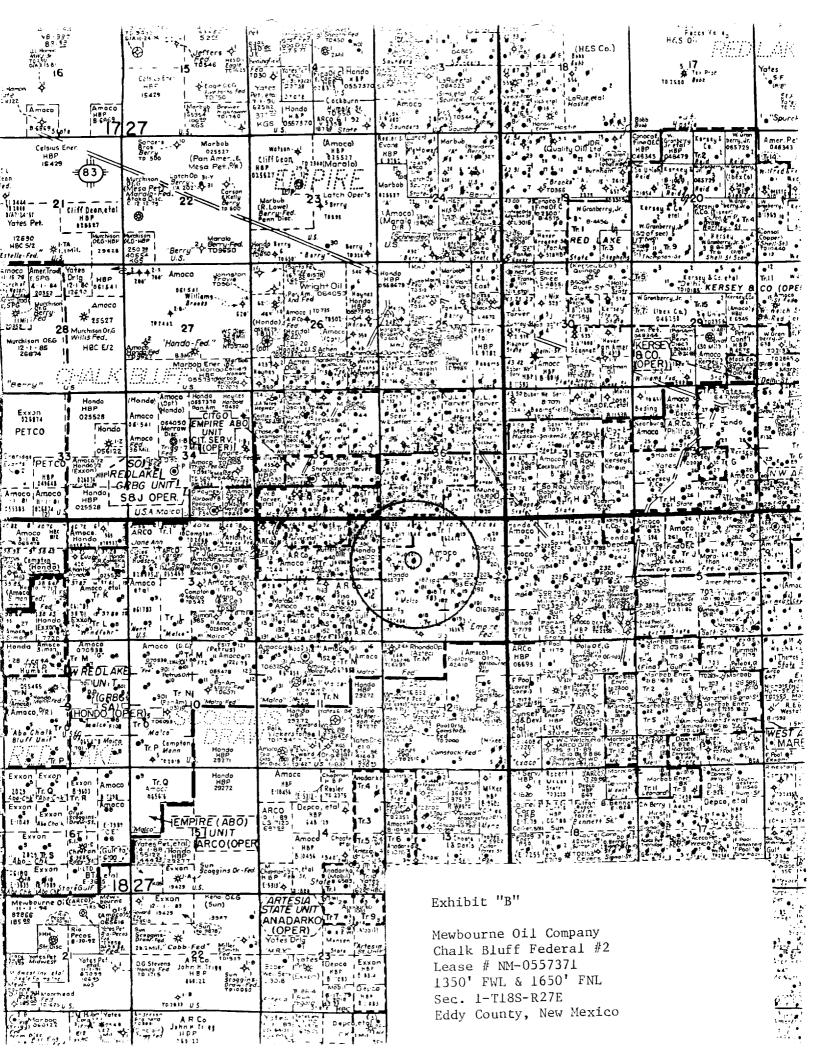


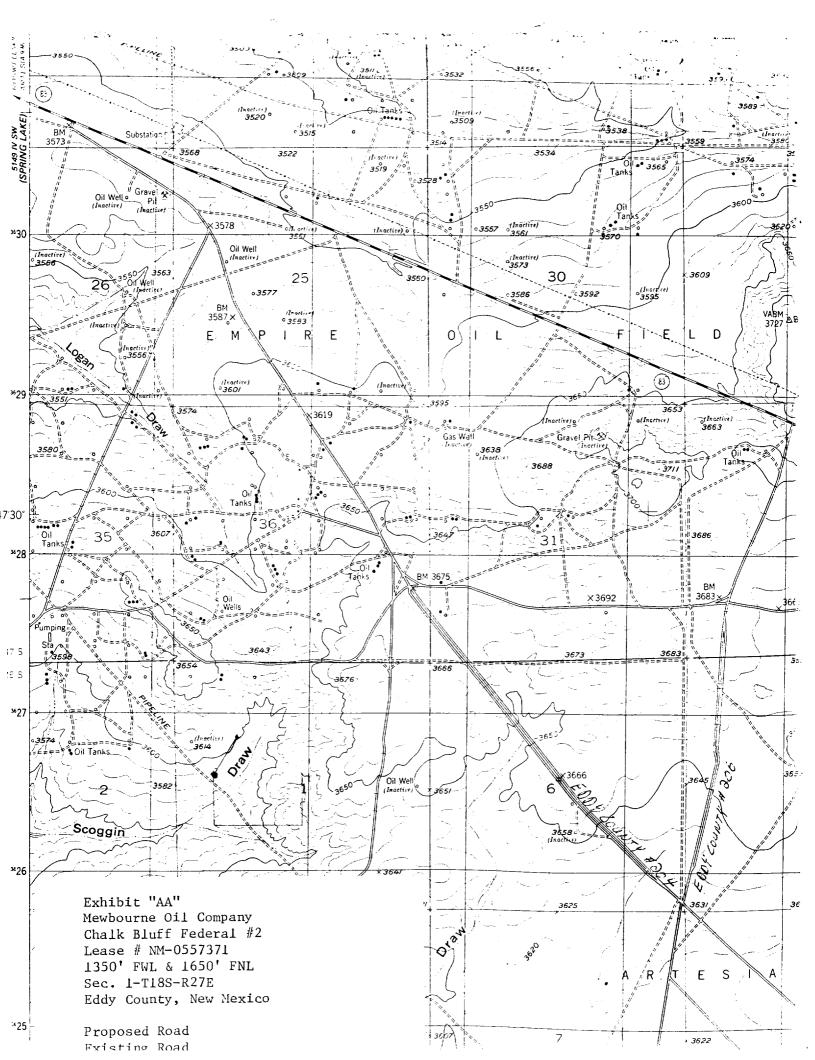
## **MAP ID NO. 97**

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

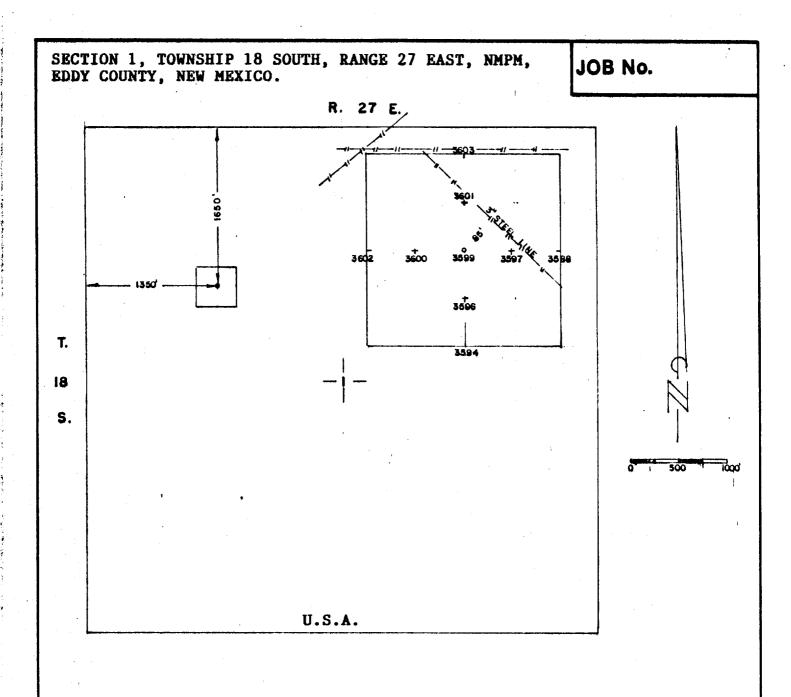
API NO. 30-015-26741











### 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:

/		
1260'	Cisco	7740 <b>'</b>
2100 <b>v</b>	Canyon	8350 <b>'</b>
3720 <b>'</b>	Strawn	8900'
4930	Atoka	9500
5900 √ /	Morrow	√9600'
6900 ✔	Mississippian	10100'
	4930 5900 √/	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 (northeast) and proceed for 1/4 mile into location.
- B. Culverts: None Required.
- C. Cuts and Fills: A three and half to four foot cut will be required for construction of the location.
- D. Turn-Outs: None required.
- E. Gates and Cattleguards: None required.

#### 2. LOCATION OF EXISTING WELLS:

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

#### 3. LOCATION OF PROPOSED FACILITIES:

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

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

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

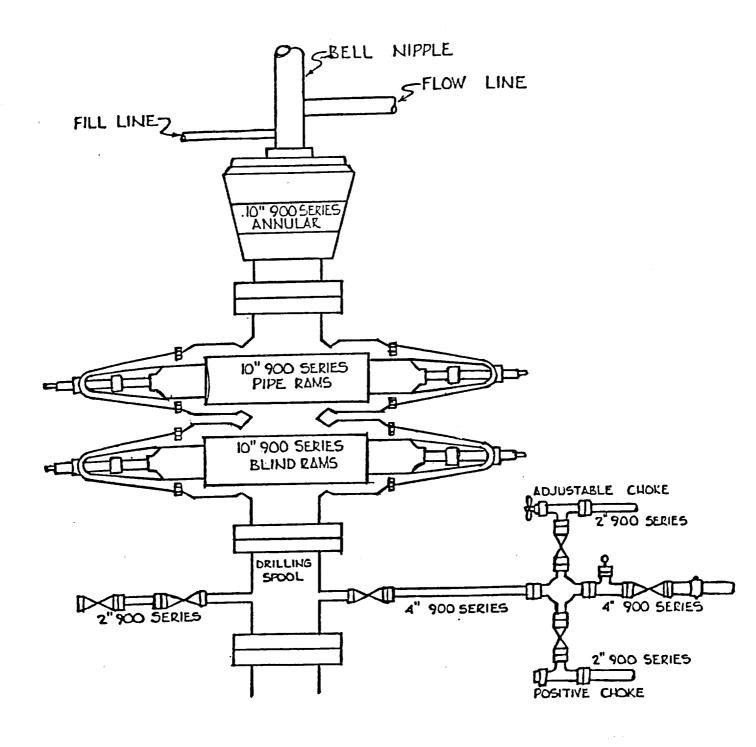


Exhibit "D"

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

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

Form C-102 Revised 1-1-85

# OIL CONSERVATION DIVISION

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

DISTRICT III

# WELL LOCATION AND ACREAGE DEDICATION PLAT

		Lakes			No
MEWBOURNE O			LK BLUFF FEDEI		2
etter Section	Township	Lange	07 7407	County	
F 1	18 :	SOUTH	27 EAST N	EDDY	<del></del>
	<del>-</del> -	1650	· _	NODON	
1350 for from	WEST	time and 1650		from the NORTH	tine leated Acresse:
3599	Morrow	, , , , , , , , , , , , , , , , , , , ,	h Illinois Camp		320 Acres
3. If more than one is unitination, force-; Yes If answer is "no" list this form if necessary	non of different overachip scoling, etc.?  No if a the overace and treat descri	i, cettine each and identify the c is dedicated to the well, have to mover is "yes" type of consolid ptices which have actually been	no interest of all eveness been distinct	ide of	
No allowable will be	entigaed to the well until a	If interests have been consciling seet, has been approved by the	ed (by communitization, uniti Division.	OPERATOR	CERTIFICATION
	000			Printed Number Cr	avy
/-/-/-/-/-/-/-/-/-/-/-/-/-/-/-/-/-/-/-				Position Distric Company Mewbour Date	t Supt.
	÷			April 2	
			- <del></del>	SURVEYOR	CERTIFICATIO
NM-0557371				I hereby certify the on this plat was p actual surveys ma- supervison, and the correct to the best ballef:	lated from flaid n
				Date Surveyed 3/28/9 Signature & Add H Professional Surveye	
				Cartificate No.	

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

# HNITED STATES

CATE* SUBMIT IN TR

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

(Other instruct. s on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

UNTIL		
<b>DEPARTMENT</b>	OF THE INTERIO	3

A DDI ICATION		LAND MANAGEME		NM-0557371
APPLICATION	I FOR PERMIT	O DRILL, DEEP	EN, OR PLUG B	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	LL 🛚	DEEPEN	PLUG BAC	7. UNIT AGREEMENT NAME
OIL GA	ELL X OTHER		INGLE MULTIPL	8. FARM OR LEASE NAME
WELL W	/		RECENED	
Mewbourne	Oil Company			9. WELL NO.
3. ADDRESS OF OPERATOR			MAY - 8 19	91 2 10. FIELD AND POOL, OR WILDCAT
P.O. Box 5	270 Hobbs, New	Mexico 88241	State requirementsC: D.	
At surface			ARTESIA, OFFI	CE North Illinois Camp  11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
	1350' FWL 8	1650' FNL	H.F	AND SURVEY OR AREA
At proposed prod. son	Same	ι	W Y '	Sec. 1-T18S-R27E
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST OFFI	CE®	12. COUNTY OR PARISH 13. STATE
	theast of Artes			Eddy N.M.
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r		O. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
PROPERTY OR LEASE I (Also to nearest drig	g. unit line, if any)	1350'	320	320
18. DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,	19. F	ROPOSED DEPTH	20. ROTARY OR CABLE TOOLS ROTARY
OR APPLIED FOR, ON TH			10,200	22. APPROX. DATE WORK WILL START
		. •		Upon BLM approval
<u>35</u>	99' GR	PROPOSED CASING AN	ID CEMENTING PROGRAM	
	1		SETTING DEPTH	QUANTITY OF CEMENT
SIZE OF HOLE	13-3/8"	WEIGHT PER FOOT	4001+	450 sks. Class "C" circulate
17 1/2" 12 1/4"	9-5/8"	36#	2,600'-	800 sks. Class "C" Tie back
12 1/4	7 37 0		10, 200'+	surface- 600 sks. Class "H"(600'above
Mud Program:	600' Fresh wate	r gel and lime.	gel and lime.	
400' - 2,6 2,600' - 8,5 8,500' - 10,5 BOP Program 900 series Bo Gas is not do	500' Cut brine as needed. 200' Cut brine 9.6 ppg. pressures  OP and Hydril o	with Drispac, s WL 10 cc or les are encountered n 13-3/8" surfa	alt gel, lime, ss. Raise weight.  ce casing and or	9.2-9.6 ppg, WL - NC. LCM  soda ash, and starch. Wt. 9.2 caccordingly if abnormal  1. 9 5/8" intermediate casing.  resent productive sone and proposed new productive measured and true vertical depths. Give blowo
400' - 2,6 2,600' - 8,5 8,500' - 10,5  BOP Program 900 series Bo Gas is not do IN ABOVE SPACE DESCRIB ZONE. If proposal is to preventer program, if an  24.	as needed. 200' Cut brine 9.6 ppg. pressures  OP and Hydril of decided ted. E PROPOSED PROGRAM: If drill or deepen direction	with Drispac, s WL 10 cc or les are encountered n 13-3/8" surfa	alt gel, lime, ss. Raise weight.  ce casing and or	soda ash, and starch. Wt. 9.2 accordingly if abnormal accordingly if abnormal a 9.5/8" intermediate casing.  Tresent productive some and proposed new production measured and true vertical depths. Give blowo
400' - 2,6 2,600' - 8,5 8,500' - 10,5  BOP Program 900 series Bo Gas is not do IN ABOVE SPACE DESCRIB ZONE. If proposal is to preventer program, if an  24.	500' Cut brine as needed. 200' Cut brine 9.6 ppg. pressures  OP and Hydril o	with Drispac, s WL 10 cc or les are encountered n 13-3/8" surfa proposal is to deepen or ally, give pertinent data	alt gel, lime, ss. Raise weight.  ce casing and or  plug back, give data on pron subsurface locations ar  District Superi	soda ash, and starch. Wt. 9.2 accordingly if abnormal accordingly if abnormal a 9.5/8" intermediate casing.  Tresent productive sone and proposed new production measured and true vertical depths. Give blowo
400' - 2,6 2,600' - 8,5 8,500' - 10,6  BOP Program 900 series Bo Gas is not do IN ABOVE SPACE DESCRIB ZONE. If proposal is to preventer program, if an 24.  SIGNED  (This space for Fed PERMIT NO.	500' Cut brine as needed. 200' Cut brine 9.6 ppg. pressures  OP and Hydril of decided. E PROFOSED PROGRAM: If drill or deepen direction by.  eral or State office uses	with Drispac, s WL 10 cc or les are encountered n 13-3/8" surfa proposal is to deepen or ally, give pertinent data	alt gel, lime, ss. Raise weight.  ce casing and or plug back, give data on pron subsurface locations ar  District Superior	soda ash, and starch. Wt. 9.2 accordingly if abnormal  1 9 5/8" intermediate casing.  1 resent productive some and proposed new productive measured and true vertical depths. Give blowo
400' - 2,6 2,600' - 8,5 8,500' - 10,5  BOP Program 900 series Bo Gas is not do IN ABOVE SPACE DESCRIB ZONE. If proposal is to preventer program, if an  24.  (This space for Fed PERMIT NO.	as needed.  200' Cut brine 9.6 ppg. pressures  OP and Hydril of decided. E PROPOSED PROGRAM: If drill or deepen direction any.  eral or State office use.	with Drispac, s WL 10 cc or les are encountered n 13-3/8" surfa proposal is to deepen or ally, give pertinent data	alt gel, lime, ss. Raise weight.  ce casing and or  plug back, give data on pron subsurface locations ar  District Superi	soda ash, and starch. Wt. 9.2 accordingly if abnormal  1 9 5/8" intermediate casing.  1 resent productive some and proposed new productive measured and true vertical depths. Give blowo
400' - 2,6 2,600' - 8,5 8,500' - 10,5  BOP Program 900 series Bo Gas is not do IN ABOVE SPACE DESCRIB ZONE. If proposal is to preventer program, if an 24.  (This space for Fed PERMIT NO.  APPROVED BY CONDITIONS OF APPRO	as needed.  200' Cut brine 9.6 ppg. pressures  OP and Hydril of edicated. E PROPOSED PROGRAM: If drill or deepen direction ny.  eral or State office uses	with Drispac, s WL 10 cc or les are encountered n 13-3/8" surfa proposal is to deepen or ally, give pertinent data	alt gel, lime, ss. Raise weight.  ce casing and or plug back, give data on pron subsurface locations ar  District Superior	soda ash, and starch. Wt. 9.2 accordingly if abnormal  1 9 5/8" intermediate casing.  1 resent productive some and proposed new productive measured and true vertical depths. Give blowo
400' - 2,6 2,600' - 8,5 8,500' - 10,5  BOP Program 900 series Bo Gas is not do IN ABOVE SPACE DESCRIB ZONE. If proposal is to preventer program, if an  24.  (This space for Fed PERMIT NO.	500' Cut brine as needed. 200' Cut brine 9.6 ppg. pressures  OP and Hydril of edicated. E PROFOSED PROGRAM: If drill or deepen direction ay,  eral or State office use,  VAL, IF ANY: SUBJECT 10	with Drispac, s WL 10 cc or les are encountered m 13-3/8" surfa proposal is to deepen or ally, give pertinent data	alt gel, lime, ss. Raise weight.  ce casing and or plug back, give data on pron subsurface locations ar  District Superior	soda ash, and starch. Wt. 9.2 accordingly if abnormal  1 9 5/8" intermediate casing.  1 resent productive some and proposed new productive measured and true vertical depths. Give blowo

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Form 3160-5

# UNITED STATES

FORM APPROVED

(June 1990) DEPARTMEN	NT OF THE INTERIOR	JUN 2 0 1991	Budget Bureau No. 1004-0135 Expires: March 31, 1993
BUREAU OF	LAND MANAGEMENT		5. Lease Designation and Serial No.
SUNDRY NOTICES	AND REPORTS ON WE	O. C. D.	NM - 0557371  6. If Indian, Allottee or Tribe Name
Do not use this form for proposals to di Use "APPLICATION FO	rill or to deepen or reentry R PERMIT—" for such pro	to a different reservo	
	T IN TRIPLICATE	RECEIVED	7. If Unit or CA, Agreement Designation
I. Type of Well Oil Bas Gas		MAYO	<u> </u>
Well Well Other		MAY 24 1991	8. Well Name and No. Chalk Bluff Federal Com #2
2. Name of Operator  Mewbourne Oil Company	$\setminus_{\mathcal{O}}$	DVST	9. API Well No.
3. Address and Telephone No.		PYST 6 N.M.	30-015-26741
P. O. Box 7698, Tyler, Te	exas 75711 💢	New the XCO	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey I	Description)	New Me	North Illinois Camp Morrow
1350' FWL & 1650' FNL of			11. County or Parish, State
	· ·	- Annexes - Annexes - Annexes - Annexes - Annexes - Annexes - Annexes - Annexes - Annexes - Annexes - Annexes	Eddy, New Mexico
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATUR	RE OF NOTICE, REF	PORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	ON
Notice of Intent	Abandonmen	nt .	Change of Plans
_	Recompletion	n	New Construction
Subsequent Report	Plugging Bac	ck	Non-Routine Fracturing
Пети т	Casing Repa		₩ Water Shut-Off
Final Abandonment Notice	Altering Cas	ud & set Pipe	Conversion to Injection
	ES Other - P	, <u></u>	Dispose Water (Note: Report results of multiple completion on Well
13. Describe Proposed or Completed Operations (Clearly state	all pertinent details, and give pertinent de	des, including estimated date of st	Completion or Recompletion Report and Log form )
give subsurface locations and measured and true vert	ical depths for all markers and zones pe	ertinent to this work.)*	and any programme,
5/13/91 - Spud @ 8:00 PM 5,	/13/91.		
100 sxs Class "C" "C" w/3% CaCl. I Tagged with 1" at	" thixset w/½# f1 " w/6% ge1, ½# f1 Plug down @ 9:45 t 82'. At 3:00 P ete 3:15 PM. Cir	ocele, 5# Gil ocele, 5# Gil AM. Did not M cemented w/ culated est.	at 416'. Cemented with sonite & 3% CaCl and sonite and 250 sxs Class circulate. WOC 6 hrs. 100 sxs Class "C" w/3% 25 sxs to pit. WOC 11 hrs.
2% CaCl followed	xs Class "C" + 6% by 200 sxs Class 1000-1500#. Float	s ge1 + 5# Gi1 s "C" + 2% CaC	asing set at 2610' K.B. sonite + ½# flocele + 1. PD at 5:45 AM. lated 125 sxs cement to
14. I hereby certify that the foregoing while and correct			
Signed May Many	Title Engr. Op	orns. Secretar	y Date 5/20/91
(This space for Federal or State office use)			
Approved by	Title		ACCEPTED FOR RECORD
Conditions of approval, if any:			535

RECEIVED

*See Instruction on Reverse Side

Taile 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.

CARLSBAD, NEW MEXICO

FREIVED	RECEIV	/ED
Jun 21 1 25 M '91 DEPARTMEN' BUREAU OF L	TED STATES TOF THE INTERIOR AND MANAGEMENT O. C. ARTESIA.	5. Lease Designation and Serial No.
SUNDRY NOTICES .  መልኩot use this form for proposals to dri	AND REPORTS ON WELLS  If or to deepen or reentry to a different res  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  Well  Gas  Well  Other  2. Name of Operator  Mewbourne Oil Company		8. Well Name and No. Chalk Bluff Federal Com #2 9. API Well No.
3. Address and Telephone No. P. O. Box 7698, Tyler, Te	xas 75711 .	30-015-26741  10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey De 1350 † FWL & 1650 † FNL of	scription)	North Illinois Camp Mörrow 11. County of Parish, State Eddy, New Mexico
12. CHECK APPROPRIATE BOX(	s) TO INDICATE NATURE OF NOTICE,	REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF	ACTION
Notice of Intent	Abandonment	Change of Plans
Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing
Final Abandonment Notice	Casing Repair  Altering Casing  Other Run 5-1/2" cas	Water Shut-Off Conversion to Injection Dispose Water (Note. Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true vertical)	Il pertinent details, and give pertinent dates, including estimated dical depths for all markers and zones pertinent to this work.)*	
Cemented 1st stage wi + 3/10% CFR-3. Taile CFR-3 + 3# Gilsonite	N-80 casing set at 10,148". DVI th 260 sacks Hal-Lite Class "H" d in with 300 sacks Premium cont + 5# KCL. Plug down with full r bomb open DVT. Circulated 6 hr	w/5# Gilsonite, + 1/4# Flocele aining 5/10% Halad-22A + 3/10%, eturns. Pressure tested to
¼# Flocele. Tailed i	th 260 sacks Hal-Lite Class "C" n with 200 sacks Prem H cement., losed DVT. WOC 18 hrs. Pressur	Plug down 4:15 PM 6/16/91
		et etime a las field Las etimes a las fields
14. I hereby certaly that the threguing that and correct Signed My M. Many	nc _{Title} Engr. Oprns. Secre	tary _{Date} 6/18/91
(This space for Federal or State office use)		ACCEPTED FOR RECORD
Approved by	Title	Date SJS

*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 or representations as to any matter within its jurisdiction.

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Form 3160-5 (June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

AUG 2 7 1991

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

2 3 I99I

SUNDRY NOTICES  Do not use this form for proposals to dr  Use "APPLICATION FO	5. Lease Designation and Serial No. NM-0557371  6. If Indian, Allottee or Tribe Name					
SUBMIT	7. If Unit or CA, Agreement Designation					
1. Type of Well	· · · · · · · · · · · · · · · · · · ·					
Oil Gas Well Other			8. Well Name and No.			
2. Name of Operator Mewbourne Oil Company			Chalk Bluff Federal Com #2  9. API Well No.			
P. O. Box 7698, Tyler, Te	xas 75711		30-015-26741  10. Field and Pool, or Exploratory Area			
4. Location of Well (Footage, Sec., T., R., M., or Survey D			North Illinois Camp Morrow			
1350' FWL & 1650' FNL of	Sec. 1, T18S-R27E		Eddy, New Mexico			
CHECK APPROPRIATE BOX(	s) TO INDICATE NATURE OF I	NOTICE, REPOR	T, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing		Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection			
Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true vertical control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr	Il pertinent details, and give pertinent dates, including	ate & Treat  g estimated date of starting is work.)*	L. Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form ) any proposed work. If well is directionally drilled,			
7/10/91 - Made final cut-c to 3000#. Tagge	off on $5-1/2$ " casing. ed cement on top of DV	Installed 74	tubinghead and tested 14. DV tool @ 7606.			
7/11/91 - Pressure tested & DV tool. Test @ 10,090'. Dril to 1500#. Held	ted casing to 1500#. led out 24' to float	TIH w/tubin	g and tagged cement 0;114. Tested casing			
8/12/91 - Perforated 9999 7-1/2% HCL. ISI Max treating presented 4.4 BPM.	-10,024', 4 SPF, 101 PP 7350#, 5 min 7100#, ess 7500#. Avg treati	holes. Aci 10 min 695	dized with 5000 gals 0#, 15 min 6800#.			
2230 1.1 2111	with the control of the strategy					
gradus (Marie Carlos Maries) Programmes (Maries)	And the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	obile i a li rogaliga <b>tionga</b> Billion de Rogaliga (Additional de Additional de Additio	94554 5100 to 95 180			
$-\Omega$	<i></i>					
14. I hereby dentity that the topologisting the who correct Signed (Laylow )	Title Engr. Oprns.	Secretary	Date 8/16/91			
(This space for Seperal or State office use)  Approved by	Title		ACCEPTED FOR RECORD .			
Conditions of approval, if any:	Title		_ Date			

*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 false, fictitious or fraudulene statements

## RECEIVED

Form 3160-5 (June 1990)	DEPARTMENT	D STATES OF THE INTERIOR ND MANAGEMENT	O. C. D.	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No. NM=0557371
Do not use this for	SUNDRY NOTICES AN m for proposals to drill on e "APPLICATION FOR F	or to deepen or reentry t	to a different reservoir.	6. If Indian, Allones or Teibe Name
	SUBMIT IN	I TRIPLICATE		7. If Unit or CA, Agreement Designation
1. Type of Well Gas	,	***************************************		
2. Name of Operator	Other /			8. Well Name and No.  Chalk Bluff Federal Com #
Mewbourne Oi				9. API Well No.
3. Address and Telephone No.		_ 7 [ 7 1 1		30-015-26741
	98, Tyler, Texa		•	10. Field and Pool, or Exploratory Area
	1650' FNL of Se		E Å	North Illinois Camp Morro II. County or Parish, State  Eddy, New Mexico
12. CHECK A	PPROPRIATE BOX(s)	TO INDICATE NATUR	E OF NOTICE, REPO	ORT, OR OTHER DATA
	UBMISSION		TYPE OF ACTION	
Notice of 1	Intent	Abandonment		Change of Plans
<b>.</b>		Recompletion		New Construction
Subsequent	Кероп	Plugging Back  Casing Repair		Non-Routine Fracturing
Final Abar	ndonment Notice	Altering Casir		Water Shut-Off Conversion to Injection
		Other	•	Dispose Water
give subsurface location	oleted Operations (Clearly state all per ons and measured and tone vertical d	tinent details, and give pertinent date	s, including estimated date of starti	Completion or Recompletion Report and Log form a ing any proposed work. If well is directionally drilled,
8/17/91 - Rigged with 1 2 gal as fol 20,000 6 B 60 Bbl Tubing no not Avg Pr	d up Western to aci 0,000 gals CO, con Nine-40, 6 gal Aci lows:  0 Gals Acid/CO, 6 E bls Foam. s 2% KCL water/CO, 1 loaded with 38 bb iceable break in t ess: 9200#. Avg R =6150#). Rigged d	dize perfs 9999-10 taining 2 gal I-22 gel & 5 gal citric PM - total rate @ flush 6 BPM - Tot ls pumped away. Heating pressures. ate: 6 BPM. ISDP:	9200#. Spotting tal rate @ 9150#.  Min Press: 8500 6600# (5 Min=640 ted flowing well	00 gals gelled 15% HCL ter 4, 1 gal FS-2, 1000 gals acid. Pumped, 5 Ball Sealers;  ion throughout but swabbed 0#. Max Press: 9500#. 00#; 10 Min=6200#; to pit on 24/64" choke.
8/17/91 - Rigged with 1 2 gal as fol 20,000 6 B 60 Bbl Tubing no not Avg Pr 15 Min	d up Western to aci 10,000 gals CO, con Nine-40, 6 gal Aci 10ws:  Gals Acid/CO ₂ 6 B bls Foam.  S 2% KCL water/CO ₂ 1 loaded with 38 bb ciceable break in thess: 9200#. Avg R =6150#). Rigged d	dize perfs 9999-10 taining 2 gal I-22 gel & 5 gal citric PM - total rate @ flush 6 BPM - Tot ls pumped away. He reating pressures. ate: 6 BPM. ISDP: own Western. Star	9200#. Spotting  all rate @ 9150#.  Had good ball act. Min Press: 8500 6600# (5 Min=640 ted flowing well	00 gals gelled 15% HCL ter 4, 1 gal FS-2, 1000 gals acid. Pumped, 5 Ball Sealers;  5 Ball Sealers;  1000 max Press: 9500#.  1000 min=6200#;  10 pit on 24/64" choke.
8/17/91 - Rigged with 1 2 gal as fol 20,000 6 B 60 Bbl Tubing no not Avg Pr	d up Western to aci 10,000 gals CO, con Nine-40, 6 gal Aci lows:  1 Gals Acid/CO, 6 B Bbls Foam. 1. S 2% KCL water/CO, 1 loaded with 38 bb 1 iceable break in thess: 9200#. Avg R 1 =6150#). Rigged d	dize perfs 9999-10 taining 2 gal I-22 gel & 5 gal citric PM - total rate @ flush 6 BPM - Tot ls pumped away. He reating pressures. ate: 6 BPM. ISDP: own Western. Star	9200#. Spotting tal rate @ 9150#.  Min Press: 8500 6600# (5 Min=640 ted flowing well	on gals gelled 15% HCL ter 4, 1 gal FS-2, 1000 gals acid. Pumped 7, 5 Ball Sealers;  ion throughout but swabbed 0#. Max Press: 9500#. 00#; 10 Min=6200#; to pit on 24/64" choke.
8/17/91 - Rigged with 1 2 gal as fol 20,000 6 B 60 Bbl  Tubing no not Avg Pr 15 Min	l up Western to aci 0,000 gals CO, con Nine-40, 6 gal Aci lows:  0 Gals Acid/CO ₂ 6 B Bbls Foam. So 2% KCL water/CO ₂ I loaded with 38 bbliceable break in thess: 9200#. Avg R =6150#). Rigged d	dize perfs 9999-10 taining 2 gal I-22 gel & 5 gal citric PM - total rate @ flush 6 BPM - Tot ls pumped away. He reating pressures ate: 6 BPM. ISDP: own Western. Star	9200#. Spotting  all rate @ 9150#.  Had good ball act. Min Press: 8500 6600# (5 Min=640 ted flowing well	00 gals gelled 15% HCL ter 4, 1 gal FS-2, 1000 gals acid. Pumped, 5 Ball Sealers;  ion throughout but swabbed 0#. Max Press: 9500#. 00#; 10 Min=6200#; to pit on 24/64" choke.
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*See Instruction on Reverse Side

SEP - 5 1991



O. C. D. ... ARTESIA OFFICE

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

505/623-5070 ROSWELL, NM

P. C. 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°	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

Form 3160-4 (November 1983) (formerly 9-330) NM OIL CONS. COPTSSION Drawer DD

ERIOR (See office Instructions on reverse side)

NM-0557371

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

UŅ	Form approved.	C
	Budget Bureau No. 1004-013	37
	Expires August 31, 1985	
5.	EASE DESIGNATION AND SERIAL P	ю,

WELL CO	MPI FTIC	ON OF	RECOL	MPI FTI	ON R	REPORT	ANI	LOC	3 *	6. IF INDIAN,	ALLO	TTEE OR TRIBE NAME
1a. TYPE OF WEI		OIL WELL	GAS WELL		<u> </u>	Other		1		7. UNIT AGRE	EMENT	r Nasie
b. TYPE OF COM	PLETION:	W 5.1.L.		<b></b>	1 1	Other		112	V			
NEW WELL	WORK OVER	BEEP-	] PIPG [	DIFF.	n. 🗌	Other	کہ_	MII.		S. FARM OR I	EASE.	NAME
2. NAME OF OPERAT			, makadana ndari Per ter masa den adambira				H	C/2-		Chalk F	3luf	f Federal Con
Mewbourn	e Oil (	Compar	ıy				$\langle / \rangle$			9. WELL NO.		
3. ADDRESS OF OPE	RATOR				·	411	<del></del>			2		
P. O. Bo	x 7698	, Tyle	er, Ter	kas 75	711	RECI	FIVE	<b>a</b>		10. FIELD AND	POOL	L, OR WILDCAT
4. LOCATION OF WE	i.i. (Report le	ocation clea	arly and in o	accordance	with any	y State requir	ement	<del>5) •</del>		N. Illi	noi	s Camp Morrow
At surface 1	350' F	WL & ]	L650' I	PNL		011	67	992		11. SEC., T., R OR AREA	., м., (	OR BLOCK AND SURVEY
At top prod. int	terval reporte	ed below					C. D			Sec.	L, 5	r18s-R27E
At total depth	Same					APTESI	. ,					
				i	MIT NO.		DATE I	SSUED		12. COUNTY OF	R	13. STATE
						.5-26741				Eddy		N.M.
15. DATE SPUDDED	1		ED 17. DAT									ELEV. CASINGHEAD
5/13/91		2/91		8/24				5', DF	361	.3', GL 35	99'	
20. TOTAL DEPTH, MD	4 TVD   21	, PLUG, BAC	K T.D., MD &	TVD   22.	HOW M	TIPLE COMPL.,	•	23. INTI	RVALS LED BY	ROTARY TOOL	.13	CABLE TOOLS
10,140'	1	10,1	25'						<b>→</b>	X		
24. PRODUCING INTE	RVAL(S), OF	THIS COMP	LETION— TOP	, BOTTOM,	NAME (M	ID AND TVD)*	,				20	5. WAS DIRECTIONAL SURVEY MADE
9,999'-10	024! -	Morrow										Yes
5,555 10	,021	LELLOW										100
6. TYPE ELECTRIC	AND OTHER I	OGS RUN						· · · · · · · · · · · · · · · · · · ·			27. w	AS WELL CORED
Dual Space	ed Neutr	on/CBL										No
28.			CAS	ING RECO	RD (Rep.	ort all strings	s set in	well)		· · · · · · · · · · · · · · · · · · ·		
CASING SIZE	WEIGHT,	LB./FT.	DEPTH SE	T (MD)	1101	I.E SIZE		CEA	ENTING	RECORD		AMOUNT PULLED
13-3/8"	61#			416'	17-	-1/2"	4	50 <b>–</b> C	lircu	lated		None
9-5/8"	36#	·_·	2	,610'	12-	-1/4"	10	25 – (	ircu	lated		None
5-1/2"	17# &	20#	10	,148'	8-	-3/4"	10	20 <b>–</b> C	'ircu	lated		None
					·		<u> </u>					
29.		LINE	R RECORD	·		***************************************		30.		TUBING RECO	RD	
81ZE	TOP (MD)	вотт	rom (MD)	SACKS CE	MENT*	SCREEN (MI	D)	SIZE		DEPTH SET (M)	<b>a)</b>	PACKER SET (MD)
								2-7/8	"	9939		9939'
	00.5 / <b>T</b>											
31. PERFORATION RE	CORD (Interv	al, size and	I number)			32.	ACI	D. SHOT	FRAC	TURE, CEMENT	' squ	EEZE, ETC.
9999'-10,02	241 _ 4	CDF 1	Ol holo	~		DEPTH INT	TERVAL	(MD)		MOUNT AND KINI		
3333 -10,02	24 - 4	SPF, I	or more:	5		9999-10	0,02	4'	Acid	ized w/500	<b>)0</b> g	pals 7½% HCL.
									Acid	ized w/20	,000	gals acid/Co
43.* PATE FIRST PRODUCT						DUCTION						
	TION	PRODUCTION	і метнор (і			imping—size	and ty	pe of pun	(p)	WELL:	rein )	8 (Producing or
8/26/91			<del></del> -	FLC	wing						P	roducing
O /OO /OI	HOURS TES		CHOKE SIZE	PROD'N TEST P	FOR ERIOD	OIL-BBL.	1	GAS-MC		WATER-BBL.		GAS-OIL RATIO
8/29/91	24 hr		16/64"		<del>&gt;</del>	0		118	i 	0		**********
410#	CASING PRI		CALCULATED 24-HOUR RAT	onB		GAS—I	мс <b>г</b> . 118	1	WATER	нвг. О	OIL G	RAVITY-API (CORR.)
4. DISPOSITION OF G	AB (Sold, use	d for fuel,	vented, etc.)		<del></del>					TEST WITNES	SED B	<u> </u>
Sold										Bill		
5. LIST OF ATTACH	MENT8						· · · · · · · · · · · · · · · · · · ·			1 2444		— <del></del>
Logs /	7											
6. I hereby certify	that the for	egoing and	Pattached ir	formation	is comp	lete and corre	ect as	determine	d from	all available re	cords	\$35
SIGNED AL	ulm		mpn			ngr.Oprr					المراجع أأد	9/03/91
/	4		//						==1	DATE		-, <u>v</u> y, z±
<i>'</i>	/ +	(See Inst	fuctions a	nd Space	s for A	dditional [	Data	on Reve	rse Sid	de)		

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	NAME	Yates	Queen	Grayburg	San Andres	Glorietta	Tubb	Drinkard	Abo	Wolfcamp	Cisco	Canyon	Strawn	Morrow	Morrow Clastics	Chester							
DESCRIPTION, CONTENTS, ETC.	Sandstone	Sandstone	Detrital Limestone					***************************************															
BOTTOM	9785	18786	10024																				
TOP	9752	18086	16666																				
FORMATION	Middle Morrow	Lower Morrow	Basal Morrow							****								-					

Form C-122 Revised 4-1-91

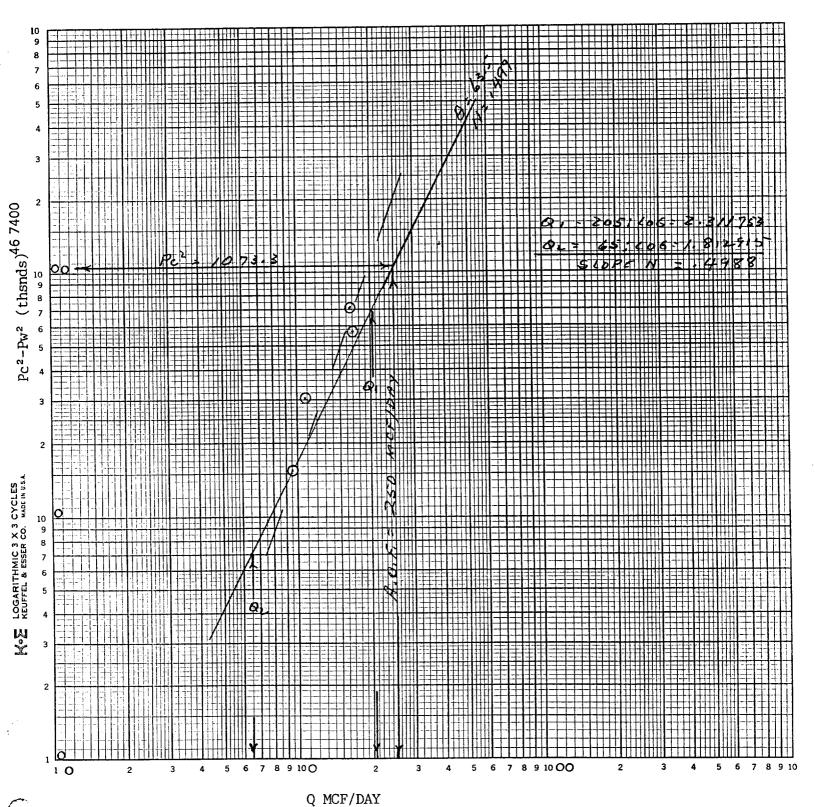
Submit in duplicate to appropriate district office See Rule 401 & Rule 1921

## OIL CONSERVATION DEVISION

P.O. B. < 1088 Seculty Med Society 87594-1088

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MEWBOURNE OIL COMPANY Chalk Bluff Fed., Well 2 1-18-27 Eddy County, New Mexico 2-25-92



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

# **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

See Instructions SEP - 5 1994t Bottom of Page

O. C. D. ARTESIA OFFICE

# DISTRICT II P.O. Drawer DD, Antesia, NM 88210 DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410	REQU				BLE AND AUTHOR AND NATURAL (		N					
Operator MILLIPOLIDADE OTT		/			2		Vell /	API No.				
MEWBOURNE OIL	COMPAI	NY /					3	30-015-	26741			
P. O. Box 769	8, Tyle	er, Te	xas	7571								
Reason(s) for Filing (Check proper box)		<del> </del>			Duber (Please ex	plain)			·····			
New Well		Change in T			$\mathcal{L}$							
Recompletion	Oil		Dry Gas									
Change in Operator	Casinghead	d Gas [ ] (	Conden	sate								
If change of operator give name and address of previous operator					2							
II. DESCRIPTION OF WELL	AND LEA	SE										
Lease Name		Well No.			ng Formation		ind c	of Lease	L	ease No.		
CHALK BLUFF FEDER	AL	2 1	N.Il	linois	Camp-Morrow Ga	s s	laic,	Federal or Fee	NM-0	557371		
Location	i											
Unit LetterF	_: 135	50F	Feet Fro	om The	<u>Vest</u> Line and]	L6 [.] 50	_ Fe	et From The _	Nort	.h Line		
Section 1 Townsh	ip 28 S	South I	Range	27 E	ast , NMPM,	•		Ęđo	dy	County		
III. DESIGNATION OF TRAI				NATU								
Name of Authorized Transporter of Oil		or Condensa		X	Address (Give address to					-		
Amoco Pipeline Interc Name of Authorized Transporter of Casin				Gas X	Oil Tender Dep	t. Box	70	<u> 2068, Tul</u>	sa Ok	<u>74170-206</u>		
Transwestern Pipeline	•		n Diy (	Jan X	Address (Give address to P.O.Box 1188,							
If well produces oil or liquids,			ľwp.	Rge.	Is gas actually connected?		/hen	?		30		
give location of tanks.	F		18S	1 27E	Yes	i_		8/13	3/91			
If this production is commingled with that IV. COMPLETION DATA	l from any othe	er lease or po	ool, give	e comming!	ing order number:	No						
Designate Type of Completion		Oil Well	_i_	X	New Well   Workover	Deep	en.	Plug Back	Same Res'v	Diff Res'v		
Date Spudded 5/13/91	1	l. Ready to F 124/91	rod.		Total Depth			P.B.T.D.	20.	a = •		
Elevations (DF, RKB, RT, GR, etc.)		oducing For	nation	· · · · · · · · · · · · · · · · · · ·	10,140 Top Oil/Gas Pay			Tubing Depth	10,1	25'		
KB 3615', DF 3613', GL 3		Morro			9,999'			Tuomig Deput	9,93	391		
Perforations 9999'-10,024							•	Depth Casing		-		
	Т	UBING, C	CASIN	IG AND	CEMENTING RECO	RD						
HOLE SIZE	CAS	ING & TUB		IZE	DEPTH SE			s	ACKS CEM	ENT		
17-1/2" 12-1/4"		<u>13-3</u> ,			416				Circu			
8-3/4"		<u>9-5,</u>			2.610			1025 - Circulated				
0 3/4		5-1,	/2"		10,148	·		1020 -	Circu	lated		
V. TEST DATA AND REQUE												
OIL WELL (Test must be after			load oi		be equal to or exceed top al							
Date First New Oil Run To Tank	Date of Test	<u> </u>			Producing Method (Flow, p	oump, gas l	ift, et	c.)	Por	+ ID-2		
Length of Test	Tubing Press	sure			Casing Pressure			Choke Size	car	19 x de		
Actual Prod. During Test	Oil - Bbls.				Water - Bbls.			Gas- MCF				
GAS WELL	<u></u>					***************************************				<del></del>		
Actual Prod. Test - MCF/D	Length of To				Bbls. Condensate/MMCF			Gravity of Co	ndensate			
118		hours			0				0			
Testing Method (pitot, back pr.) Back Pressure	-	sure (Shut-in LO#	1)		Casing Pressure (Shut-in)			Choke Size	1.6 /CAII			
VI. OPERATOR CERTIFIC			I A NI	~E					16/64"			
I hereby certify that the rules and regul				CE	OIL CO	NSER	VA	TION D	IVISIO	N		
Division have been complied with and	that the inform	nation given	above	,								
is true and complete to the best of my	knowledge and	l belief.		/	Date Approve	ed	A	PR 2 3 1	992			
Denton Th	trans	1		/		-						
Signature	10 11C	Tro	n		By	ORIGIN	AL:	SIGNED B LAMS	Υ			
Gaylon/Thompson, Engr	Gaylon Thompson, Engr. Oprns. Secretary									-		
Printed Name 9/03/91	(903)	Ti ) 561-2	itte 900		Title	SUPER!	USC	R, DISTRI	CT II			
Date Date	Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro											

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 3160-5	UNITED	STATES RECEIVED	FORM APPROVED
(June 1990)	DEPARTMENT OF	THE INTERIOR	Budget Bureau No. 1004-0135 Expires: March 31, 1993
·	BUREAU OF LAND	MANAGEMENT O 50 AM 10	5 Lana Dada-ada and Cadal Ma
	SUNDRY NOTICES AND	AUG 6 9 58 AM '9	NM-055/3/1
Do not use this		to deepen Spleentry to a different	6. If Indian, Allottee or Tribe Name
1	SUBMIT IN 1	RIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Well Well W	as   Other		8. Well Name and No.
2. Name of Operator		/	Chalk Bluff Fed. Com
3. Address and Telepho		•	9. API Well No.
P.O. Box	x 5270 Hobbs, New Mexi	co 88241	10. Field and Pool or Exploratory Area North L. Inols
		n)	Camp Morrow
	WL & 1650' FNL T18S-R27E		11. County or Parish, State
12. CHEC	K ADDRODDIATE BOY(a) TO	INDICATE MATURE OF MOTIVE	Eddy County, N.M.
			CE, REPORT, OR OTHER DATA
	OF SUBMISSION	TYPE	OF ACTION
LX Notic	ce of Intent	Abandonment	Change of Plans
Subs	equent Report	Recompletion    X   Plugging Back	New Construction
	- quant report	Casing Repair	Non-Routine Fracturing Water Shut-Off
Final	Abandonment Notice	Altering Casing	Conversion to Injection
		Other	Dispose Water
13 Describe Proposed on	Completed Occasion (Cl. 1)		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
give subsurface	locations and measured and true vertical depth	nt details, and give pertinent dates, including estimate s for all markers and zones pertinent to this work.)	ed date of starting any proposed work. If well is directionally drilled
Well is d	currently producing fro hed it's economical lim	n Basal Morrow perforationit. Plans are to recompl	ns at 9999' - 10,024' and ete into lower Morrow Sands.
2. Perf	CIBP at 9950'. Cap wit prate Lower Morrow (985 '-9785')	h 50' cement. O'-9860'; 9864'-9878'; 97	52'-9762'; 9764'-9774';
3. Stimu 4. Restor	late well as necessary re well to production.	and evaluate.	
	,		eth water to
			AUG 1 2 1992
Will com	mence operations upon B	LM approval.	Q. C. D. NETIGIA. AFFICE
14. I hereby certify that i	the foregoing is true and correct	Tide Engineer	Date <u>August 3, 1992</u>
(This space for Feder	ral or State office use)		
Approved by Conditions of approve	al, if any:	Title	Date 8/1//92

### RECEIVED

COT 1 6 1992

Form 3160-5 (June 1990)

### **UNITED STATES** DEDARTMENT OF THE INTERIOR

Q. C. D.

FORM APPROVED Budget Bureau No. 1004-0135

Date

DELYKTMEN	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
	III or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
I. Type of Well Oil Gas		
Oil Well Well Other  2. Name of Operator		8. Well Name and No.
Mewbourne Oil Company		Chalk Bluff Fed Com #2  9. API Well No.
3. Address and Telephone No.		30-015-26741
P. O. Box 7698, Tyler, Texas 75		10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D	escription)	North Illinois Camp Mor
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	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
Final Abandonment Notice	Casing Repair Altering Casing	Water Shut-Off
The Management Ponce	Other	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 a	Ill pertinent details, and give pertinent dates, including estimated date of startifical depths for all markers and zones pertinent to this work.)*	ng any proposed work. If well is directionally drilled
		701 D 1 251
top. PBTD @ 9935'.	og & pkr. Ran in hole w/CIBP set at 99	70 . Dumped 33 cement on
9/11/92 - RIH w/tbg & pkr set at	9731'. Tested to 8000#. Set pkr w/15	pts compression. Tested
annulus to 2000#. Held OK. Teste	ed tbg to 2500#. Held OK. Swabbed well	down.
	D-9876' w/2 SPF, 22' net, 46 holes.	
	gals 7½% HCL acid + additives contain	ing 1000 SCF/Rbl nitrogen
+ 60 ball sealers. Flushed w/2% to 1500# and pumped acid.	KCL containing 1000 SCF/bbl nitrogen.	Pressure tested annulus
	als Binary foam + 30,000# 20/40 Interp	rop. ISDP 5400#, 5 mins
4600#, 10 mins 4350#, 15 mins 41 left flowing to pit.	150#. AR 12 BPM. AP 8100#. MR 12 BPM.	MP 8400#. Opened well and
9/19/92 - Well flowing thru test	unit. Put well down sales line @ 5:0	0 PM 9/19/92.
	Aσ	
	ALC:	•
		5 1997
14. I hereby series that the foregoing is True and correct	1	

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.

ride Engr. Oprns. Secretary

Title _

dsk

Form 3160-5 (June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

MOV 1 8 1992 O. C. D.

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

5. Lease Designation and Serial No.

NM-0557371

SUNDRY NUTICES	6. If Indian, Allottee or Tribe Name			
Do not use this form for proposals to c Use "APPLICATION FO				
SUBMI	7. If Unit or CA, Agreement Designation			
1. Type of Well				
Well Well Uther		8. Well Name and No.		
2. Name of Operator		Chalk Bluff Fed. Com. #2		
Mewbourne 0il Company ✓ 3. Address and Telephone No.		9. API Well No.		
P.O. Box 5270 Hobbs, New Me	exico 88241 (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		
Ut.F 1350'FWLE	1600 FNL	11. County or Parish, State		
1-288-278		Eddy Co., N.M.		
CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION			
Notice of Intent	Abandonment	Change of Plans		
_	Recompletion	New Construction		
L.X 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.)		
	all pertinent details, and give pertinent dates, including estimated date of starting tical depths for all markers and zones pertinent to this work.)*	g any proposed work. If well is directionally drilled,		
9-09-92 Set CIBP @ 9970'. !	Dumped 35' cement on CIBP.			
9-11-92 Perforated Morrow fo of 46 holes.	ormation (9850'-9860' & 9864'-9876') wi	ith 2 SPF for a total		
9-12-92 Acidized Morrow per	forations with 2800 gal. 7 1/2% HCL and	i 1000 SCF/bb1. N2.		
	rations with 40,000 gal. binary foam ca	arrying 30,000#		
20/40 sand.				
		- 4 × · · · · · · · · · · · · · · · · · ·		
		***		
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	2 <b>1992</b>			
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	Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	• •		
14. I hereby certify that the integrating is true and correct	A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O			
Signed Salary	тив <u>District Supt</u> .	Date Oct. 27, 1992		
(This space for Federal or State office use)				
Approved by	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.

### **Laboratory Services**

1331 Tasker Drive



Telephone: (505) 397-3713

FOR:

Pro Well Testing & Wireline

Attention: Mr. Ray Gallagher

P. O. Box 791

Hobbs, New Mexico 88240

SAMPLE

IDENTIFICATION: Chaulk Bluff Fed. #2

COMPANY:

Mewbourne Oil Co.

LEASE: PLANT:

SAMPLE DATA: DATE SAMPLED:

11/5/92 3:15PM ANALYSIS DATE: 11-05-92

PRESSURE - PSIG

540.00

SAMPLE TEMP. °F ATMOS, TEMP, °F

48,00

78.00

GAS (XX) SAMPLED BY:

LIQUID ( )

ANALYSIS BY:

Gallagher-Pro Well

Rolland Perry

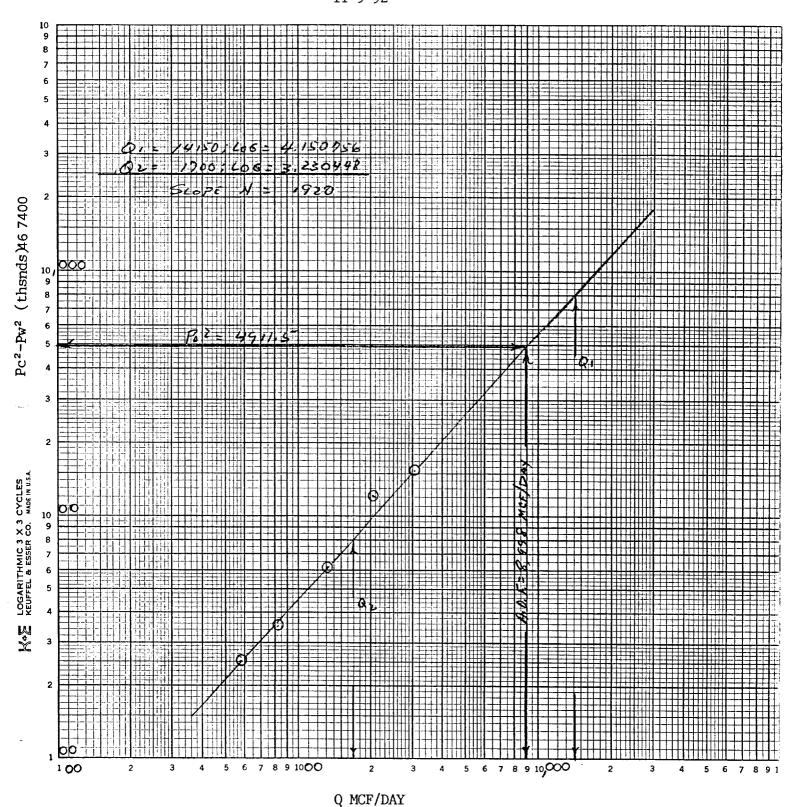
**REMARKS:** 

### COMPONENT ANALYSIS

		MOL		
COMPONENT		PERCENT	GPM	
Oxygen	(02)			
Hydrogen Sulfide	(H2S)			
Nitrogen	(NS)	0.40		
Carbon Dioxide	(CO2)	0,59		
Methane	(C1)	88,27		
Ethane	(C2)	7.05	1.881	•
Propane	(C3)	2.37	0.652	
I-Butane	(IC4)	0.29	0.095	
N-Butane	(NC4)	0.52	0.164	
I-Pentane	(IC5)	0,15	0.055	
N-Pentane	(NC5)	0.10	0.036	
Hexane	(C6+)	0,26	0.107	
Heptanes Plus	(C7)	0.00	0.000	
		100,00	2.990	
BTU/CU.FT DRY	•	1125	MOLECULAR WT	18.5705
AT 14.650 DRY		1121		
AT 14,650 WET		1102	26# GASOLINE ~	0.253
AT 15.025 DRY		1150		V.200
AT 15.025 WET		1130		
SPECIFIC GRAVITY	<b>' -</b>			
CALCULATED	•	0.541		
MEASURED	ļ	0.000		

			#1#10 B		FFT (1)		. 7. 511	. 1				
	5	UGGESTED	FIELD U	AIA Sh	EEI (N	lot Require	d 10 F11					
Type Test	<u>Φ</u> ,	INI FIAL	0	ANNUAL		☐ SHCM		Test ( 11-5		Lease N	a or Serial No.	
Company	1EWBOU	RNE OIL	COMPANY		Connecti					Allaites		
Field		Res	MORROW			Localia				Unit		
Completion	Dare	loid	epin		9935	טד	Ě	levation		Form Cha	Lease Name Ik Bluff	
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MEWBOURNE OIL COMPANY Chalk Bluff Well #2 1-18-27 Eddy County, New Mexico 11-5-92



FOIM C-122 Revised 4-1-91

### OIL CONSERVATION DIVISION

P.O. Box 2088

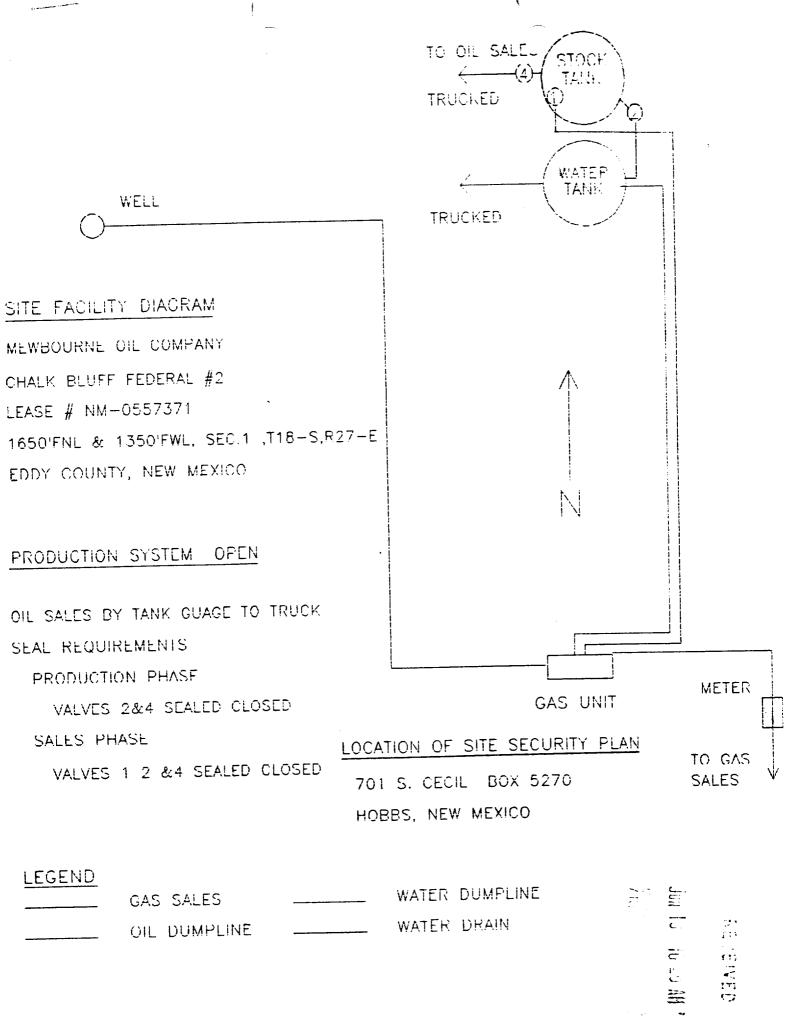
DEC

OIL CONSERVE TON DIVISION RECE VED

Santa Fe, New Mexico 87504-2088

O. C. D.

		MU	ILTIP	DINT _c	AND	OMEI	OIN	ГВАСК	PRES	SURE	TEST FO	OR Ĝ	S WI	ELL	
Opera	^{tor} Mewbo	urne2	NO:	Tr. T	<del>        </del>					Lease or	r Unit Name Ch	alk B	luff		
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								9935						ir Sec. 1	TWP - Rec. 27
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$5\frac{1}{2}$					9935	F	rom:	9850		To:	9876			Eddy	
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### Continued:

The proposed operation is described in detail on the attached diagrams.

A map is enclosed showing the lease numbers and location of all leases and wells that will contribute production to the proposed commingling/common storage facility. All unitized/communitized areas, producing zones/pools are also clearly illustrated.

A schematic diagram is also attached which clearly identifies all equipment that will be utilized.

The storage and measuring facility is located at  $\frac{NM}{1}$  -1/4, Sec.1,  $\frac{18}{18}$  S, R₂₇ E, on lease No.0557371, Eddy County, New Mexico. BLM will be notified if there is any future change in the facility location.

Details of the proposed method for allocating production to contributing sources is as follows:

Gas will be measured at the individual leases and a percentage of contribution will be calculated and applied to the integrated sales volume. There is currently 6 wells producing into the system.

The working interest owners have been notified of the proposal.

The proposed commingling of production is in the interest of conservation and will not result in reduced royalty or improper measurement of production.

The proposed commingling is necessary for continued operation of the above referenced Federal leases.

We understand that the requested approval will not constitute the granting of any right-of-way or construction rights not granted by the lease instrument. And, we will submit within 30 days an application for right-of-way approval to the BLM's Realty Section in your office if we have not already done so.

Additional wells require additional commingling approvals.

Signature: And Man
Name: Gregory Milner
Title: Engineer
Date: 6/06/95

#### CRA BLM FORMAT

### APPLICATION FOR SURFACE COMMINGLING, OFF LEASE STORAGE AND MEASUREMENT APPROVAL

### This Format Should Be Attached To A Sundry Notice

Bureau of Land Management

P. O. Box 1778

Carlsbad, New Mexico 88221-1778

Mewbourne Oil Company (Operator's Name) is requesting approval for surface commingling and off-lease storage and measurement of hydrocarbon production from the following formation(s) and well(s) on Federal Lease No. NM-0557371; Lease Name: Chalk Bluff Federal

Well No.	Loc.	Sec.	Twp.	Rng.	<u>Formation</u>
#2	<u> </u>	1	<u>18S</u> 18S	27E 27E	Morrow Morrow
			<del></del>		

with hydrocarbon production from the following formation(s) and E-7179 ; Lease Name: Chalk Bluff "6" lease No. well(s) on State E-647 Illinois Camp 17 E-1313 Illinois Camp 20

Well No.	Loc.	Sec.	Twp.	Rng.	<u>Formation</u>
Chalk Bluff 6 St. #1	М	6	18\$	28E	Morrow
Illinois Camp 17 St. #1	F	17	188	28E	Morrow
Illinois Camp 17 St. #2	J	<u> 17</u>	185	28E	Morrow
Illinois Camp 20 St. #1	<u> </u>	20	185	28E	Morrow

### Production from the wells involved is as follows:

Well Name and No.	BOPD	Oil Gravity	MCFPD
Chalk Bluff Fed. #2 Chalk Bluff Fed. #3	N/A	N/A	80
Chalk Bluff 6 St. #1	N/A	N/A N/A	166
Illinois Camp 17 St. #1 Illinois Camp 17 St. #2 Illinois Camp 20 St. #1	N/A N/A	N/A N/A	744

^{*} Only gas will be comingled off lease

Continued ...

Form 3160-5

**UNITED STATES** 

		CLSF
ANC	COMMISSION	

#2

MM OIL	COMP COMMISSION
14111	FORM APPROVED
Drawer	DD FORM APPROVED Budget Bureau No. 1004-013
4-4-6-1	a NM ni 88 7 1 1993

June 1990)	DEPARTMEN	NT OF THE INTERIOR	Artesi	a, Nikpires March 31, 1993
	BUREAU OF	LAND MANAGEMENT	5.	Lease Designation and Serial No.
				NM-0557371
	= = -	AND REPORTS ON WELLS		If Indian, Allottee or Tribe Name
Do not use	this form for proposals to dr	rill or to deepen or reentry to a different rese	rvoir.	
	Use "APPLICATION FO	R PERMIT—" for such proposals		
	2		7.	If Unit or CA, Agreement Designation
	SUBMII	TIN TRIPLICATE		
1. Type of Well				
Oil Well	Gas Other		8.	Well Name and No.
2. Name of Ope	rator			Chalk Bluff Fed. Com. #
Mewbou	rne Oil Company		9.	API Well No.
3. Address and	Telephone No.			30-015-26741
	ox 5270 Hobbs, New Me		10.	. Field and Pool, or Exploratory Area
4. Location of V	Vell (Footage, Sec., T., R., M., or Survey D	Description)		N. Illinois Camp Morrow
1350'	FWL & 1650' FNL		. 11	. County or Parish, State
Sec. 1	-T18S-R27E			
		<u></u>		Eddy Co., N.M.
12. <b>C</b>	HECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, F	REPORT,	OR OTHER DATA
	YPE OF SUBMISSION	TYPE OF AG		
	¬	П.,		Character Plans
L	☐ Notice of Intent	Abandonment	ļ	Change of Plans
Г	<b>7</b>	Recompletion	ļ	New Construction
L	Subsequent Report	Plugging Back	1	Non-Routine Fracturing Water Shut-Off
Г	¬	Casing Repair		
L	Final Abandonment Notice	Altering Casing Other Application for	•	Conversion to Injection Dispose Water
		Measurement App	rova 1	(Note: Report results of multiple completion on Well
		all pertinent details, and give pertinent dates, including estimated date		Completion or Recompletion Report and Log form.)
	surface locations and measured and true vertications are locations and measured and true vertications.	ical depths for all markers and zones pertinent to this work.)*		· ·
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14. I hereby certify that the Engineer Title (This space for Federal or State office use) Petroleum Engineer Orig. Signed by Adam Salemen Approved by Conditions of approval, if any: Title

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

Form 3160-5 (June 1990)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5.	Lease	Designation	and	Serial No.		
NM-0557371						

e If Indian	A H-M	a. T	-iba Alama

CUPART	N TRIPLICATE 1567892	7. If Unit or CA, Agreement Designation
	N TRIPLICATE 34567897077	
ype of Well Oil Gas Well Other  lame of Operator  Mewbourne Oil Company	N TRIPLICATE  A 567897077	GI 9, API Well No.
ddress and Telephone No.	OCD APTE	30-015-26741
. O. Box 5270, Hobbs, NM 88241 (505)39	3-5905 OCD ARTESIA	10. Field and Pool, or Exploratory Area
ocation of Well (Footage, Sec., T., R., M., or Survey Desc 650' FNL & 1350' FWL of Section 1, T18S, R	eription) 127E, Eddy County, NM	North Illinois Camp Morrow  11. County or Parish, State
		Eddy, NM
CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF A	
Notice of Intent	☐ Abandonment ☑ Recompletion	Change of Plans New Construction
☐ Subsequent Report	☐ Plugging Back	
Final Abandonment Notice	Casing Repair Altering Casing	Conversion to Injection
directionally drilled, give subsurface locations and measu et cast iron bridge plug to abandon Morrow S	Other  ate all pertinet details, and give pertinent dates, including estinated and true vertical depths for all markders and zones pertines and perforations 9850-9860' and 9864-9876'. P	ent to this work.)"
lirectionally drilled, give subsurface locations and measuret cast iron bridge plug to abandon Morrow S	ate all pertinet details, and give pertinent dates, including estin tred and true vertical depths for all markders and zones pertin	(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.)*
directionally drilled, give subsurface locations and measu et cast iron bridge plug to abandon Morrow S	ate all pertinet details, and give pertinent dates, including estin tred and true vertical depths for all markders and zones pertin	(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.)*
directionally drilled, give subsurface locations and measu et cast iron bridge plug to abandon Morrow S	ate all pertinet details, and give pertinent dates, including estin tred and true vertical depths for all markders and zones pertin	(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.)*
directionally drilled, give subsurface locations and measuret cast iron bridge plug to abandon Morrow S	ate all pertinet details, and give pertinent dates, including estin tred and true vertical depths for all markders and zones pertin	(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.)*
directionally drilled, give subsurface locations and measu	ate all pertinet details, and give pertinent dates, including estin tred and true vertical depths for all markders and zones pertin	(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.)*

30-015-20741

Oseid-14744 Property-7876 Pool-78890

1923830 2811945 2811946

> 9-5-91 Dual I passed Newton Seuf- 10122

> > NSL-3004 Appv. 4-25-91



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E.

Director

Oil Conservation Division

Hefd Isra (chira Progresa Breezeam die Laterria, ist der derioapsisa

29-Jul-05

MEWBOURNE OIL CO

PO Box 5270 Hobbs NM 88241

**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

CHALK BLUFF FEDERAL COM No.002

F-1-18S-27E

30-015-26741-00-00

Inspection Date

Type Inspection

Inspector Chris Beadle *Significant Violation? Non-Compliance? Corrective
Action Due By:

Inspection No.

07/29/2005 Routine/Periodic

Yes

No

8/29/2005

iCLB0521034161

Violations

Absent Well Identification Signs (Rule 103)

Comments on Inspection:

Well sign not visible for distance required by Rule 103. Well sign is hidden inside bush grown up

around the sign.

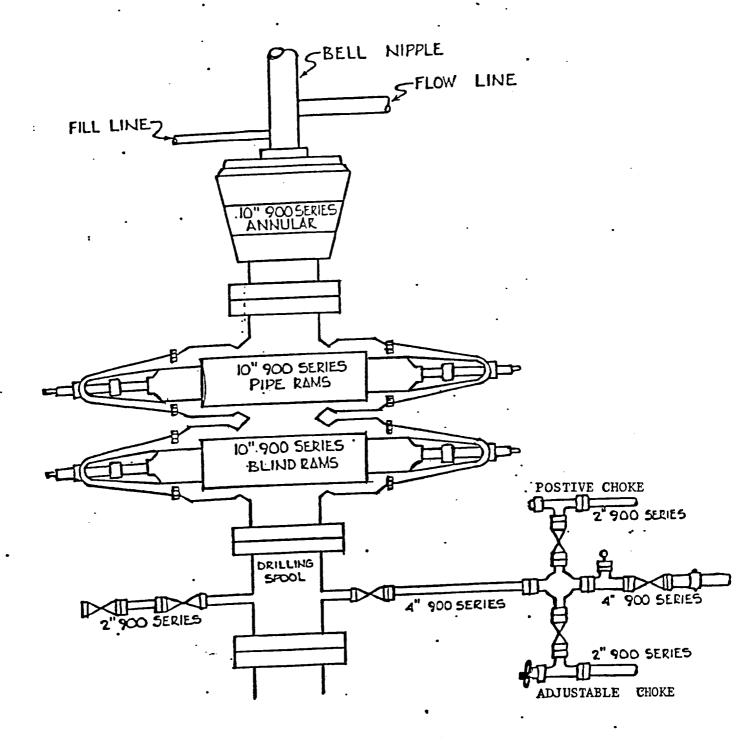
In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By:" date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Divison Examiner 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: Information in Detail Section comes directly from field inspector data entries - not all blanks will contain data.

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



Mewbourne Oil Company 990' FSL & 730' FWL Sec. 6-T18S-R28E Chalk Bluff "6" State #1

BOP Diagram

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

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

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Actual F	ootage Loc	ation of	Well	l:														
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Ground 1	level Elev.			Producing	Forms.	tion			Pool								Dedicated Ac	reage:
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	2. If mor	e than o	one le	ase is ded	icated to	the we	il, outl	ine each and	ident	ify the ov	vnership	thereof	(both as	to works	ng inte	rest and	royalty).	
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Submit to A propriate District Office State Lease – 6 copies Fee Lease – 5 copies

1a. Type of Work:

b. Type of Well:

2. Name of Operator

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

Form C-101 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088

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

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

DRILL X

OIL CONSERVATION DIVISION

DEEPEN

SINGLE ZONE

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUE BACKER

RE-ENTER

Santa Fe, New Mexico 87504 2000 VED

API NO. (assigned by	OCD on New We -2694	ils)
5. Indicate Type of Le		FEE
6. State Oil & Gas Le	ase No.	

JUL 1 5 1991

MULTIPLE ZONE

PLUG BACK

E-/1/9	
7. Lease Name or Unit Agre	

Chalk Bluff "6" State

8. Well No.

1.

Mes	wbourne Oil Co	mpany 🗸		1.			
3. Address of Operator		9. Pool name or Wildcat	1.//				
-	O. Box 5270 H	obbs. New Mexico	88241	North Illino	is Camp ///www		
4. Well Location							
	M : 730 Feet	From The West	Line and	990 Feet From The	South Line		
	<b>**</b> *	nship 18S Ra	nge 28E	NMPM	Eddy <b>County</b>		
Section 6	Town	nanip 103 rak	nge 28E	//////////////////////////////////////			
		10. Proposed Depth	11.	Formation	12. Rotary or C.T.		
		10,2	00'	Morrow	Rotary		
13. Elevations (Show whether	er DF, RT, GR, etc.)	14. Kind & Status Plug. Bond	15. Drilling Contracto		. Date Work will start		
3635'		Blanket on file	WEK Drill:	ing Co. Aug	ust 10, 1991		
17.		ROPOSED CASING A	ND CEMENT PROG	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP		
17-1/2"	13-3/8"	68#	± 400°	500	Surface		
12-1/4"	9-5/8"	36#	- 2,600'	1000	Surface		
7-7/8"	5-1/2"	17#	10,200'	600	Back 6,000'		
Mud Program:  2 8  Gas is not ded	0' - 400 400' - 2,600 ,600' - 8,400 ,400' - 10,200	flow monitors on 'Fresh water wit 'Fresh water wit 'Cut brine with 'Cut brine with Wt. 9.2-9.6 ppg	h spud mud. Pa h LCM as needed lime. Drispac, salt g WL 10 cc's or APPRO	l. gel, lime, soda a	ash  DAYS		
ZONE. GIVE BLOWOUT PREV	ENTER PROCEAM, IF ANY.	GRAM: IF PROPOSAL IS TO DEEPE lete to the best of my knowledge and		Sunt	July 11, 1991		
TYPE OR PRINT NAME				π	ELEPHONE NO.		
(This space for State Use)	ORIGINAL SIGNE MIKE WILLIAMS SUPERVISOR DIS		ne	D	FEB 1 1 1992		
CHAIRMAN MINOLAND		****					

NSL-R-9631

#### RECEIVED

State of New Mexico Form C-103 Submit 3 Copies Energy, Minerals and Natural Resources Department Revised 1-1-89 to Appropriate District Office O. C. D. OIL CONSERVATION DIVISION DISTRICT I WELL API NO. P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 30-015-26943 Santa Fe, New Mexico 87504-2088 DISTRICT II 5. Indicate Type of Lease P.O. Drawer DD, Artesia, NM 88210 MAR 2 3 1992 STATE FEE L DISTRICT III 6. State Oil & Gas Lease No. 1000 Rio Brazos Rd., Aztec, NM 87410 O. C. D. E-7179 APPESIA OFFICE SUNDRY NOTICES AND REPORTS ON WELLS ( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: CHALK BLUFF "6" STATE WELL 2. Name of Operator 8. Well No. Mewbourne Oil Company, 9. Pool name or Wildcat 3. Address of Operator NORTH ILLINOIS CAMP MORROW P. O. Box 7698, Tyler, Texas 75711 4. Well Location 990 South 730 Feet From The West Feet From The Line and Unit Letter 18S Range 28E NMPM Eddy Township 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3635' GR Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data 11. SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: ALTERING CASING PLUG AND ABANDON REMEDIAL WORK PERFORM REMEDIAL WORK **CHANGE PLANS** COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT TEMPORARILY ABANDON CASING TEST AND CEMENT JOB **PULL OR ALTER CASING** OTHER:_ OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. 2/18/92 - Spud 7:45 AM 2/17/92. Cemented 13-3/8" casing at 400' with 100 sxs Class "C" + 10 pps Calseal + 5 pps Gilsonite + 1/2 pps Flocele + 2% CaCl² and 200 sxs Class "C" + 6% gel + ½ pps Flocele + 5# gilsonite + 2% CaCl2. Tailed in with 200 sxs Class "C" + 2% CaCl². Plug down 4:15 PM 2/17/92. Pressure tested casing to 1000#. Float held okay. Did not circulate cement. WOC 3 hrs. Ran 1 and tagged at 190 . Cemented with 150 sxs Class "C" Neat. Circulated 20 sacks to pit. Total 12-1/4 hrs. WOC. 2/22/92 - Ran 9-5/8" 24# J-55 casing set at 2600' and cemented with 100 sxs Class "C" + 10# calseal + ½ pps Flocele + 5 pps Gilsonite + 2% CaCl² and 700 sxs Class "C" Lite + pps Flocele + 5 pps Gilsonite. Tailed in with 300 sxs Class "C" + 2% CaCl2. Had full returns while cementing. Plug down at 10:30 PM 2/22/92. Pressure tested casing to 1000# for 30 mins, float held okay. Circ 65 sxs to pit. WOC 8½ hours. true and complete to the best of my knowledge and belief. I hereby certify that the information non mue Engr.Oprns.Secretary DATE 3/19/92 TYPE OF PRINT NAME, TELEPHONE NO. ORIGINAL SIGNED BY (This space for State Use) MIKE WILLIAMS APR 2 3 1992

SUPERVISOR, DISTRICT IT

APPROVED BY ---

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies to Appropriate District Office

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



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

work) SEE RULE 1103.

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P.O. Box 2088

WELL API NO.		
20 015 06040		
30-015-26943		

Santa Fe, New Mexico 87504-2088. P.O. Drawer DD, Artesia, NM 88210 5. Indicate Type of Lease MAR 2 3 19926. State Oil & Gas Lease No. 1000 Rio Brazos Rd., Aztec, NM 87410 E-7179 SUNDRY NOTICES AND REPORTS ON WELLS ARTESIA OFFICE ( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: CHALK BLUFF "6" STATE WELL OTHER PER 2. Name of Operator 8. Well No. Mewbourne Oil Company, 3. Address of Operator 9. Pool name or Wildcat P. O. Box 7698, Tyler, Texas 75711 NORTH ILLINOIS CAMP MORROW 4. Well Location 730 Feet From The 990 West Unit Letter .. Line and Feet From The Line 28E Township 188 Range **NMPM** Eddy County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3635' GR Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK **ALTERING CASING TEMPORARILY ABANDON CHANGE PLANS** COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT **PULL OR ALTER CASING** CASING TEST AND CEMENT JOB OTHER: OTHER:

3/14/92 - Ran 7" 26# S-95 casing set at 9445'. Bottom of packer at 7096'. DVT at 7033'. CEMENTED 1ST STAGE with 325 sacks Class "H" + 2 pps KCL + .3% CFR-3 + .4% Halad 22A + 5 pps Gilsonite + 5 pps Silicalite & 300 sacks Class "H" + 2 pps KCL + .3% CFR-3 + .4% Halad 22A + 5 pps Silicalite. Plug down at 9:00 AM 3/15/92. Pressure tested casing to 2600# and set packer. Checked float collar. Held okay. Did not have returns while cementing. Dropped bomb and opened DVT at 9:30 AM. Pumped 1 bbl and had full returns. Circulated bottoms up from DVT. Did circulate cement. CEMENTED 2ND STAGE with 1170 sacks H/L + ½ pps Flocele + 5 pps Silicalite + 5 pps Tailed in with 100 sacks Class "H" + 5# Silicalite + 2 pps KCL. Had full returns while cementing. Started losing returns with 140 bbls displacement gone. Lost complete returns with 240 bbls of displacement gone. Plug down at 11:45 AM rs.

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed

3/15	6/92. Closed DVT. Held oka	y. Did not circulate on 2nd st	tage. WOC 19-1/4 hour
I hereby certify that the inform	nation shows is true and complete to the best of my knowle	page and belief.	
SIGNATURE LL	my pompou	mme Engr.Oprns.Secretary	DATE3/19/92
TYPE OK PRINT NAME			TELEPHONE NO.
(This space for State Use)	ORIGINAL SIGNED BY MIKE WILLIAMS /		
APPROVED BY	SUPERVISOR, DISTRICT II	— тп.в	MAR 2 6 1992

Submit 3 Copies to Appropriate

### State of New Mexico



Energy, Minerals and Natural Resources Department

District Office			
DISTRICT   P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVAT P.O. Box		WELL API NO. 30-015-26943
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	5. Indicate Type of Lease		
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410	ı		STATE FEE  6. State Oil & Gas Lease No. E-7179
( DO NOT USE THIS FORM FOR P DIFFERENT RES	TICES AND REPORTS ON VIROPOSALS TO DRILL OR TO DEEL SERVOIR. USE "APPLICATION FOR IC-101) FOR SUCH PROPOSALS.)	PEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
1. Type of Well:  OR. GAS WELL WELL	OTHER	RECEIVED	CHALK BLUFF "6" STATE
2. Name of Operator Mewbourne Oil Con	mpany /	APR 2 4 1992	8. Well No.
3. Address of Operator P. O. Box 7698, Ty	yler, Texas 75711	O. C. D.	9. Pool name or Wildcat NORTH ILLINOIS CAMP MORRO
4. Well Location  Unit Letter	Township 18S	1	NMPM Eddy County
	//////	3635' GR	
	k Appropriate Box to Indica NTENTION TO:		Report, or Other Data  SSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	G OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND C	EMENT JOB
OTHER:		OTHER:	
12. Describe Proposed or Completed Opwork) SEE RULE 1103.	erations (Clearly state all pertinent detail	ls, and give pertinent dates, inclu	ding estimated date of starting any proposed
Cemented w 5 pps Sili	ith 750 gals mud flush	followed by 175 22A + 4/10% CRF-3.	7'. Set liner at 10,198'. sxs Class "H" + 5 pps KCL + Plug down to 10,151' at 7:15 ld okay.
liner. Dr	illed through at 9200'	. Tagged up at 1	rilled out 120' cement in 4½" 0,103'. Drilled down to landing ng to 1000# for 30 mins. Held OK
	otted acid over perfor ond around 4½" lienr f		Ran CBL from TD 10,159' to 620'.
I hereby certify that the information above is	trat and complete to the book of my knowledge	and belief	
SIGNATURE SUSTIN	Transport.	m. Engr. Oprns.	Secretary DATE 4/22/92
TYPE OR PRINT NAME			TELEPTIONE NO.
	NAL SIGNED BY WILLIAMS		MAY 6 = 4000
	RVISOR, DISTRICT IT	TITLE	MAY 2 5 1992

Submit 3 Copies to Appropriate District Office

### State of New Mexico

CONDITIONS OF APPROVAL, IF ANY:

Energy, Minerals and Natural Resources Department

DISTRICT I P.O. Box 1980, Hobbs, NM 88240	WELL API NO.		
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	2088 xo 87504-2088	30-015-26943  5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			STATE FEE
( DO NOT USE THIS FORM FOR PRODIFFERENT RESERVAN	ICES AND REPORTS ON WOPOSALS TO DRILL OR TO DEEP RVOIR. USE "APPLICATION FOR 1-101) FOR SUCH PROPOSALS.)	EN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
1. Type of Well: OIL GAS WELL WELL	OTHER	APR 2 4 1992	CHALK BLUFF "6" STATE
2. Name of Operator Mewbourne Oil Comp	oany√	O. C. D.	8. Well No.
3. Address of Operator P. O. Box 7698, Ty	ler, Texas 75711		9. Pool name or Wildcat NORTH ILLINOIS CAMP MORRO
4. Well Location  Unit Letter : 73	30 Feet From The West	Line and 99	0 Feet From The South Line
Section 6	/////	her DF, RKB, RT, GR, etc.) 3635	NMPM Eddy County
NOTICE OF IN	Appropriate Box to Indicat FENTION TO:		eport, or Other Data SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	GOPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CE	MENT JOB
OTHER:	[	OTHER: Perfo	rate and acidize
12. Describe Proposed or Completed Opera work) SEE RULE 1103.	tions (Clearly state all pertinent details	, and give pertinent dates, inclu	ding estimated date of starting any proposed
4/14/92 - Ran 2-3/8" 16 points c		Tested to 8000#.	Held okay. Set packer with
4/15/92 - Perforated	Lower Morrow 10,084	- 10,092'. 8' ne	t, 1 SPF, 9 holes.
balls. MTP			and 1367 $scf/bbl\ N^2\ \&\ 15$ frac started flowing to pit on
	( <del></del>	<u>/</u>	
I hereby certify item the information above is true	March Brose !		
SIGNATURE SIGNATURE	1 101171100	mme Engr.Oprns.	Secretary DATE 4/22/92
TYPE OR FRINT NAME			TELEPHONE NO.
(This space for State Use) ORIGINAL S			MAY <b>2</b> 5 1992
MIKE WILLI  APPROVED BY SUPERVISO		mle	DATE

OPERATOR	Moubo	urne Oil	·	
WELL NAME	Chalt	Bluff "6" St. #1	<u> </u>	
STATE OCD	TOPS AS PER	Darrell Moore	DATE	5/27/42

	Southeastern	New Mexico	Northwestern New Mexico				
T. Anhy		T Canyon	T. Ojo Alamo	T. Penn. "B"			
T Salt		T Sterry 8910	T Kirdand-Fruitland	T. Penn. "C"			
B. Salt		T. Atoka: 9593	T. Pictured Cliffs	T. Penn. "D"			
T. Yates		T. Miss	T. Cliff House	T. Leadville			
			T. Menefee				
			T. Point Lookout				
			T. Mancos				
			T. Gallup				
			Base Greenhorn				
			T. Dakota				
			T. Morrison				
			T. Todilto				
T. Drinkard		T. Bone Springs	T. Entrada	_ T			
T. Abo		T. Morrow 9842	T. Wingate	_ T			
		Т					
T. Penn		Т.	T. Permain	_ T			
		T	T. Penn "A"				
		OIL OR GAS SA	ANDS OR ZONES				
No. 1, from	••••	to	No. 3, from	to			
		to		to			
		IMPORTANT I	WATER SANDS				
Include data on ra	ate of water inflo	w and elevation to which water ros	se in hole.				
No. 1, from	•••••	to	feet				
			feet				
AT 7 C		<u>.</u>	•				

REMARKS: Paris reported (10,084-10,092) are wrong.



#### 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

March 3', 1992

Mewbourne Oil Company P.O. Box 5270 Hobbs, N.M. 88202

REF: Chalk Bluff "6" St. #1

Gentlemen:

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

400' <b>-</b> 3/4°	5168 <b>' -</b> 2°	6351 <b>' -</b> 2 3/4°
912 <b>' -</b> 1º	5262 <b>' -</b> 2 1/2°	6443! - 2 1/20
1405 <b>' -</b> 3/4°	5316 <b>' -</b> 2 1/2°	6534 <b>' -</b> 2 3/4°
1878 <b>' -</b> 1°	5419 <b>' -</b> 2 3/4°	6625 <b>' -</b> 1 1/4°
2367' - 1°	5513 <b>' -</b> 3°	7151 <b>' -</b> 3/4°
2600 <b>' -</b> 1 1/4°	5605 <b>' -</b> 2 1/2°	7278 <b>' -</b> 1 1/4°
3082 <b>' -</b> 2 1/4°	5698 <b>' -</b> 2 1/2°	7770 <b>' -</b> 1 1/4°
3176 <b>' -</b> 1 1/2°	5792 <b>' -</b> 2 1/2°	8289 <b>' -</b> 1°
3299' - 1 1/4°	5885 <b>' -</b> 2 1/4°	8778 <b>' -</b> 1°
3791 <b>' -</b> 1 1/2°	5979 <b>' -</b> 2 3/4°	9282 <b>' -</b> 1 1/4°
4287' <b>-</b> 2 1/4°	6072 <b>' -</b> 2 3/4°	9450 <b>' -</b> 1 3/4°
438-' - 1 1/4°	6166 <b>' -</b> 3 1/4°	10200 <b>' -</b> 1 1/2°
4752 <b>' -</b> 1 1/4°	6259 <b>' -</b> 3°	

Arnold Newkirk Vice President

STATE OF NEW MEXICO) COUNTY OF CHAVES

The foregoing was acknowledged before me this 31st day of March 1992 by Arnold Newkirk.

MY COMMISSION EXPIRES

October 07,1992

### State of New Mexico **~**nt

Form	C	-105	
Revise	ьd	1-1-8	

District Office	Energy, Minerals and Natural Resources Department
State Lease — 6 copies Fee Lease — 5 copies	
DISTRICT I	OIL CONSERVATION DIVISIO
P.O. Box 1980, Hobbs, NM 88240	D O Do- 2009

WELL API NO. N 30-015-26943 P.O. Box 2088 Santa Fe, New Mexico 8750 2008 5. Indicate Type of Lease FEE STATE

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 6. State Oil & Gas Lease No. MAY - 4 1992 E-7179 1000 Rio Brazos Rd., Aztec, NM 87410 WELL COMPLETION OR RECOMPLETION REPORT AND LOGIC 1a. Type of Well: OIL WELL Lease Name or Unit Agreement Name DRY OTHER GAS WELL CHALK BLUFF "6" STATE b. Type of Completion: NEW WORK OVER DEEPEN 8. Well No. 2. Name of Operator MEWBOURNE OIL COMPANY 9. Pool name or Wildcat 3. Address of Operator NORTH ILLINOIS CAMP MORROW P. O. Box 7698, Tyler, Texas 75711 4. Well Location 990 SOUTH WEST M : 730 Feet From The Feet From The Line and Unit Letter **EDDY** 28E 18S Range **NMPM** County Township Section 13. Elevations (DF& RKB, RT, GR, etc.) 14. Elev. Casinghead 10. Date Spudded 11. Date T.D. Reached 12. Date Compl. (Ready to Prod.) 4/16/92 DF 3339', GR 3324' 2/17/92 3/21/92 18. Intervals | Rotary Tools | Drilled By 17. If Multiple Compl. How Many Zones? 15. Total Depth 16. Plug Back T.D. Cable Tools 10,151' 10,200' 20. Was Directional Survey Made 19. Producing Interval(s), of this completion - Top, Bottom, Name 10,084'-10,092' - Morrow Yes 22. Was Well Cored 21. Type Electric and Other Logs Run NO SDL-DSN, DIL/DLL-MSFL 23. CASING RECORD (Report all strings set in well) **CEMENTING RECORD** AMOUNT PULLED HOLE SIZE **CASING SIZE** WEIGHT LB/FT. **DEPTH SET** 17-1/2" 400 500 sxs - circ 13-3/8" 48# & 68# None 12-1/4" 9-5/8" 24# 2,600' 1100 sxs - circ None 7-7/8" 1895 sxs - circ lst 26# 9.445 None string 24. LINER RECORD **TUBING RECORD** SIZE TOP **BOTTOM** SACKS CEMENT **SCREEN** SIZE **DEPTH SET** PACKER SET 10,198' 4-1/2" 90771 2-3/8" 9.990' 9,990' 175 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. 26. Perforation record (interval, size, and number) DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 10.084-092 Acidized with 2600 gals 7½% 10,084'-10,092' - 8', 1 SPF, 9 holes HCL + additives & 1367 scf/ bbl N² & 15 frac balls. **PRODUCTION** 28. Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in) **Date First Production** Producing 4/17/92 Flowing Gas - Oil Ratio Date of Test Hours Tested Choke Size Prod'n For Oil - Bbl. Gas - MCF Water - Bbl. Test Period 12/64" 1,902 52,833:1 4/28/92 24 hours Oil Gravity - API - (Corr.) Calculated 24-Hour Rate Oil - Bbl. Gas - MCF Water - BbL Flow Tubing Press. Casing Pressure 1,902 2690# 36 0 Test Witnessed By 29. Disposition of Gas (Sold, used for fuel, vented, etc.) Bill Pierce Sold. 30. List Attachments Logs 31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Printed Name Gaylon Thompson Title Engr. Oprns. Sec. Date 4/28/92 Signature/

### **INSTRUCTIONS**

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or 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 tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

	Southeaster	n New Mexico	Northwestern New Mexico				
T. Anhy		T. Canyon 8 . 432 '	T. Ojo Alamo	T. Penn. "B"			
		T. Strawn 8,944 *		T. Penn. "C"			
				T. Penn. "D"			
T. Yates	478'	T. Miss		T. Leadville			
T. 7 Rivers	596 <b>'</b>	T. Devonian	T. Menefee	T. Madison			
T. Queen	1,209'	T. Silurian	T. Point Lookout	T. Elbert			
T. Grayburg	1.560'	T. Montoya	T. Mancos	T. McCracken			
T. San Andres		T. Simpson		T. Ignacio Otzte			
T. Glorieta	3,626'	T. McKee	Base Greenhorn	T. Granite			
T. Paddock	<del></del>	T. Ellenburger	_ T. Dakota	T			
T. Blinebry		T. Gr. Wash		T			
T. Tubb	4,736'	T. Delaware Sand		T			
T. Drinkard	5,531'	T. Bone Springs	T. Entrada	T			
T. Abo	<b>5,878'</b>	T. Morrow 9,664'	T. Wingate	T			
T. Wolfcamp_	6,606'	T. Mor.Clast.9,874'	T. Chinle	T			
T. Penn		T.L.Morrow 10,006'	T. Permain	T			
T. Cisco /	7,742'	т	T. Penn "A"	T.			
		OIL OR GAS	SANDS OR ZONES	•			
No. 1, from	10,084'	to. 10,092'	No. 3, from	to			
No. 2, from		to	No. 4, from	to			
			WATER SANDS				
Include data or	n rate of water in	flow and elevation to which water r	ose in hole.				
No. 1, from	NONE	to	feet				
No. 2, from		to	feet				
No. 3, from	• • • • • • • • • • • • • • • • • • • •	to	feet				
	L	ITHOLOGY RECORD	(Attach additional sheet if	necessary)			
	<del></del>			I .			

From	То	Thickness in Feet	Lithology	From	То	Thickness in Feet	Lithology
0,	430		Red Bed & Anhydrite				
4301							
2490		l i	Anhydrite & Dolomite				
2600 ¹ 4782 ¹			•				
7520	i i		l .				
9450	•						
		188					
10028	10200	172'			]		
, , ,		P	<b></b>				
1	35 89	mari e)	dia di santa				
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		i Çirindirin Art	eli si je i meta i i i i je je seci i i i i i i				
- · · · · · · · · · · · · · · · · · · ·	i ne T						

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

State of New Mexico Energy, Minerals and Natural Resources Department

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

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

### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

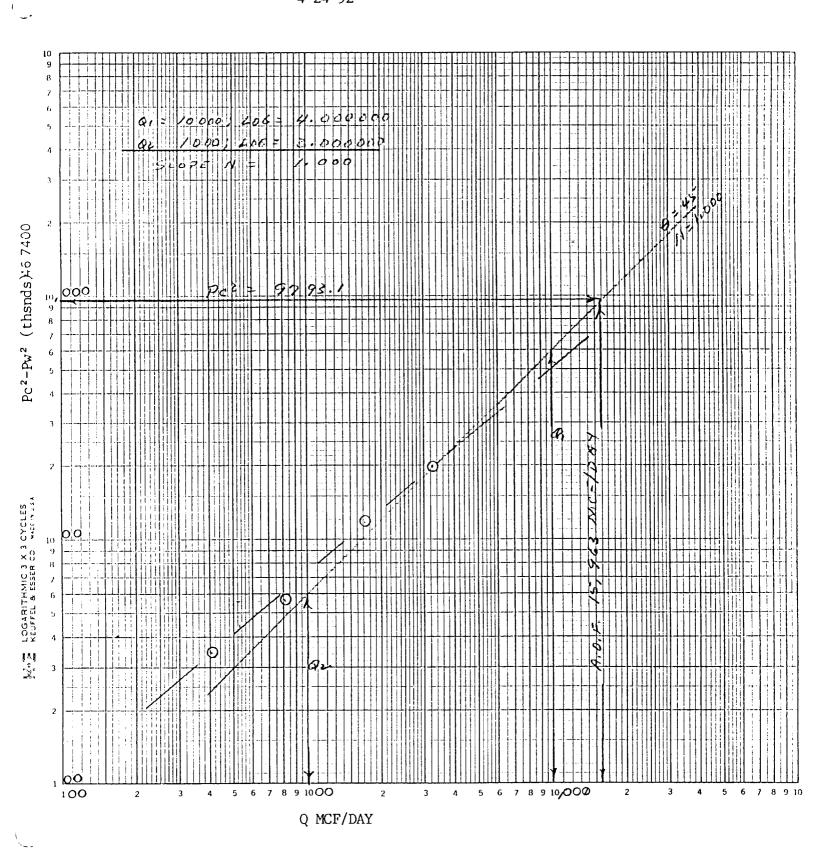
REQUEST FOR ALLOWABLE AND AUTHORIZATION

I		OTRAN	<b>ISPC</b>	RT OI	L AND NA	TURAL GA					
Operator  MEWBOURNE OIL	COMDAN	v		Well API No. 30-015-26943							
Address	COMPAN	<u></u>			<del></del>		<u>l</u>	30 01.	2074.		
P. O. Box 7698	, Tyle:	r, Tex	as	75711							
Reason(s) for Filing (Check proper box)					RECEW	Please explo	ain)				
New Well		Change in T									
Recompletion	Oil	_	ry Gas		APR 24	1992					
Change in Operator	Casinghead	Gas C	Condens	ate 📗							
f change of operator give name  and address of previous operator		·			O. C.		<del> </del>				
I. DESCRIPTION OF WELL	. AND LEA	SE									
Lease Name			ool Nar	me, Includ	ing Formation		Kind	of Lease	1	Lease No.	
CHALK BLUFF "6" ST	ATE	1	N	ILLIN	IOIS CAN	AP MORRO	OM   State	e, Federal or Fe	•   E−71	179	
Location			-	•			•				
Unit LetterM	_ :	<u>730                                    </u>	eet From	m The W	lest Lin	e and9	901	Feet From The	Sout	hLine	
Section 6 Townsh	nip 18S	R	lange	28F	. , NI	мрм,		Eddy		County	
W DECKARACION OF TEL	Nenonger		A B IV	NI A CONT	IDAL CAC						
II. DESIGNATION OF TRAIN Name of Authorized Transporter of Oil		or Condensa		INATU		e address to wh	uich approve	ed copy of this f	orm is to be s	ient)	
PHILLIPS PETROLEUM				KS	l l			essa, To			
Name of Authorized Transporter of Casi	·····		r Dry G					ed copy of this f			
TRANSWESTERN PIPEL	_							ston, To			
If well produces oil or liquids,			Wp.	Rge.			Whe				
ive location of tanks.	M	6	18S	28E	Yes			4/22	/92		
this production is commingled with that	t from any othe	r lease or po	oł, give	comming	ling order num	ber:					
V. COMPLETION DATA				-	- ₁			_,		_,	
Designate Type of Completion	ı - (X)	Oil Well 	Ga	s Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v	
Date Spudded		l. Ready to P	rod.		Total Depth	i	L	P.B.T.D.	1		
2/17/92	1	16/92			1 -	10,200'			10,151'		
levations (DF, RKB, RT, GR, etc.)		oducing Form	nation		Top Oil/Gas			Tubing Dep			
DF 3339',GR 3324'	ł	rrow			10,084'			9,990'			
erforations								Depth Casing Shoe			
10,084' - 10,092'											
	ŢŢ	UBING, C	ASIN	G AND	CEMENTI	NG RECOR	D				
HOLE SIZE	CAS	ING & TUB		ZE		DEPTH SET			SACKS CEM	IENT	
17-1/2"		13-3	/8 <b>"</b>			400'		500 -		- circ	
12-1/4		9-5	/8 <b>"</b>			2,600	•	1100	) - ci	rc	
7-7/8"		7 <b>*</b>				9,445	•	189	<u> - ci</u>	rc 1st s	
7"		½" Lin			10,198'		• 	175	5		
. TEST DATA AND REQUE											
OLL WELL. (Test must be after			load oil	and must	· · · · · · · · · · · · · · · · · · ·			<del></del>	for full 24 hou	urs.)	
Date First New Oil Run To Tank	Date of Test				Producing Me	thod (Flow, pu	mp, gas lift,	elc.)		F F 0- 2	
ength of Test	Tubing Press	sure			Casing Pressu	re		Choke Size	6-	9-72 4 RW	
								Choke Size comp & BK			
Actual Prod. During Test	Oil - Bbls.				Water - Bbis.			Gas- MCF			
GAS WELL			-								
iciual Prod. Test - MCF/D	Length of To	csl			Bbls. Conden	sate/MMCF		Gravity of C	ondensate		
2,149 Mcf		24 hou			89	.9:1		N/A 51.6			
esting Method (pitot, back pr.)		sure (Shut-in	)		Casing Pressu	re (Shut-in)		Choke Size			
Back Pressure	N	I/A			l				12/64	•	
I. OPERATOR CERTIFIC	CATE OF	COMPL	IANO	CE							
I hereby certify that the rules and regu	lations of the C	Dil Conservat	ion			JIL CON	ISERV	'ATION	DIVISIO	NC	
Division have been complied with and		_	above		11				4000		
is true and complete to the best of my	knowledge and	i belief.			Date	Approved	d	MAY 2 5	1992		
Mr. Val	Trans			/							
xuyun /	Ponc	Just		, 	By_	ORIG	GINAL S	IGNED BY			
Signature Gaylør Thompson,	Engr Or	orns S	ecre	taru	₁₂    -		E WILLI				
Printed Name		T	ille	<u>car</u> y	Tale			R, DISTRIC	CT II		
April 22, 1992	(903) 5	61-29			Title.					<del></del>	
Date		Teleph	one No.	<del></del>				•			
					. 1						

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.

MEWBOURNE OIL COMPANY
Chalk Bluff "6" St., Well # 1
6-18-28
Eddy County, New Mexico
4-24-92



* 1. 1

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

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

Form C-122 Revised 4-1-91

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Oper	alor.	171		OINT	AINI	J ONE I	OIN	1 DACK	FICES		Or Unit Name	OK G	12 ME	رابا		
MEWBOURNE OIL COMPANY									CHALK BLUFF '6' St.							
Турс	Test     Initial			Annua!		Special				Test 1	Date -24–92		Well No	o		
Completion Date Total Depth Plug Back TD 10151						k TD 10151		Eleva					TWP - Rgc.			
							l			County	6 18	28				
		26#	l	ŀ									County			
7	$\frac{1}{\text{Size}} & 4\frac{1}{2}$	<u> 19.6</u>	d 2.		101 Sci Ai		rom: rforatio	10084		То:	10092		ļ	Eddy		
		, [~] 6.5	<b>」</b> ° 2.					ж15:					Pool			
Z //	/8 &2 3/8 Well - Single -	<u>4.</u>	<u>7 1.</u>	995	997		om:	Packer Set		To:			N. Illinoise Camp			
Type	Well - Single -	Braden	incad - G.	.G. or G.C	). Multi	ipic				9976	<b>)</b>		Formati Mor			
Prod TBC	ucing Thru	75 @	ir Temp. 10088	PF Mean	n Annu 6	al Temp. %		Baro, Press	-Р. 13	.2		-	Connec			
L	Н		Gg		% CO	<u> </u>	% N	.38	% 1		Prover		Meter R		Taps	
*100	088 100			643		.44		.38			0.0.m.	1	3.0		FLG	
<u> </u>	Prover	Orif	FLOW I	1		Diff.	<del></del>		1		G DATA		CASING		Duration	
NO.	Line X			Pres p.s.i.		h,		Temp. Քլ:	Pres p.s.i		Temp. օլ։	Pre p.s.		Temp. •բ	of Flow	
SI	Size	Siz				<del>-</del>	_		296		· · · · · · · · · · · · · · · · · · ·	PK		•	72 hrs.	
1.	3 X .	750		430		34.00	)	111	281			1			1 hr.	
2.	3 X 1	.000		440		40.00	)	102	273			1	•		1 hr.	
3.	3 X 1			435		32.00	)	_ 78	259	0		•	'		1 hr.	
4. 5.	3 X 1	<u>.750</u>		480		49.00		_54	257	5		<u>'</u>	<u>'</u>	·	1 hr.	
ا ا				l		D	ATEC	F FLOW C	AL CUL	ATIO	NIC	<u> </u>				
	COEFFICIE	ידא		<del></del>	<del></del>	Press		T	Temp.		Gravity Factor	Super	Compress	, ,	ate of How	
NO.	(24 HOU	()	$\overline{}$	h P m		P		Pact	or Ft.		l'g.		tor, I pv.	s. 1	Q, Mcfd	
1. 2.	2.672			2.76		443						1	.035 404			
3.	4.789 11.13	,		4.64 9.76		453 448				1.247	1.035		801			
4.	15,61			5.76 5.46		493							045 1708 058 3221			
5.				2.30_		-	/ <del>- / -</del>	1	<i>I</i>				ــــــــــــــــــــــــــــــــــــــ		J441	
NO.	Pr	Tem	p. º R	T,		Z	Gas	Liquid Hydr	ocarbon R	auo	40.				Mcf/bbl.	
1.	.66	5	71	1.5	3	.934		I. Gravity of				<u>51.6 (</u>	!60°		Deg.	
2.	.67		62	1.5		.933					.6			X X X	XXXXXX	
3	.66		38	1.4		.916		ical Pressure		670			P.S.LA. P.S.LA.			
4.	.73	5	14	1.3	8	.893	1	ical Tempera		372			r.s.ı	R	r.s.i.A.	
5.	3129.4	P. 2	979	3.1										-^^		
NO.	P _t 2	<u> </u>	P.	P _w ²		$P_c^2 - P_w^2$	1)	$\frac{P_c^2}{P_c^2 - P_c}$	=	4.95	6	⁽²⁾ <b>r</b>	$P_c^2$	<b>1</b> "=	4.956	
1.	**		73.7	9447		345.5	$\exists$	$\frac{P_c^2}{P_c}$ - $P_a$	2			] ]	$P_c^2 - P_{\omega}$	2		
2.	**		37.7	9227		565.5	<u></u>					L	•	ı		
3.	**	<del>,</del>	33.4	8604		1188.3		OF = Q	г	$P_c^2$	] " =	15.963	3			
4.	**		95.9	7817		1976.0			$\frac{1}{P_c}$	2 - P	2					
5.		L							Lc	w	<u>.</u>					
Absol	ute Open Flow	1	5 <b>,</b> 963				_Mcfd	@ 15.025	Angl	e of Slo	орс Ө	45	:	Slope, n]	,000	
Rema	rks: * BHP	Ins	trume	nt Se	t @	this De	pth							·		
1.CIII4	** Fr	om K	nown	В.Н.Р	. Ca	lculate	ed ba	ick to S								
	**** W	ell-	Made -	<del>6.375</del>	BBL	<del>S 51.6</del>	<del>660</del>	Condens	ate &	<del>-3.</del> 0	BBLS H2	) — –				
Appro	ved By Divisio	n			Jucted 1	-			Calculate	d By:			Checker	d By:		
				Pro	o We	ll Test	ers		BM			<del></del>	BM			

Tubout 2 Comes	ووفر المعادر بال معطول		rorm (-)()( _ ;
Submit 3 Copies to Appropriate District Office	Energy, Minerals and Natural Re	esources Department	Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION P.O. Box 208	38 maxis -	WELL API NO 30-015-26943
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	87504-2088 NOV <b>1 6 1953</b>	5. Indicate Type of Lease  STATE  FEE
<u>DISTRICT III</u> 1000 Rio Brazos Rd., Aziec, NM: 874	.10	O. G. D.	6. State Oil & Gas Lease No. E-7179
CHNDRY N	OTICES AND REPORTS ON WEL	IS	
( DO NOT USE THIS FORM FOR DIFFERENT RE (FOR	PROPOSALS TO DRILL OR TO DEEPEN ESERVOIR. USE "APPLICATION FOR PE IM C-101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
. Type of Well: OIL GAS WELL WELL	OTHER		Chalk Bluff "6" State
Name of Operator  Mewbourne 011 Comp	any .		8. Well No.
. Address of Operator	•		9. Pool name or Wildcat
P.O. Box 5270 Hob	obs, New Mexico 88241 (5	05) 393-5905	North Illinois Camp Morrow
	730 Feet From The West	Line and 99	O Feet From The South Line
Section 6	Township 18S Ra		NMPM Eddy County
	10. Elevation (Show whether	DF, RKB, RT, GR, etc)	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>
	//////// 3339' DF		
	ck Appropriate Box to Indicate		
NOTICE OF	INTENTION TO:	SUB	SEQUENT REPORT OF:
ERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
EMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	GOPNS. PLUG AND ABANDONMENT
ULL OR ALTER CASING		CASING TEST AND CE	
OTHER:		OTHER: Add Per	forations
	Onemicae (Clearly state all pertinent details a	nd give pertinent dates, inclu	ding estimated date of starting any proposed
work) SEE RULE 1103.  11/02/93 Rig up S	Schlumberger and perf'd Mo 41 holes.		
work) SEE RULE 1103.  11/02/93 Rig up S 20' and  11/03/93 Acidized	Schlumberger and perf'd Mo	rrow 10,044' - 000 gal. 7 1/2%	10,064' with 2 SPF.
11/02/93 Rig up S 20' and 11/03/93 Acidized CF/bbl.  Thereby certify that the information above signature	Schlumberger and perf'd Mo 41 holes.  d Morrow formation with 4, nitrogen Put well on pro	rrow 10,044' - 000 gal. 7 1/2% duction.	10,064' with 2 SPF.
11/02/93 Rig up S 20' and 11/03/93 Acidized CF/bbl.  I hereby certify that the information above SIGNATURE TYPE OR FRINT NAME Brent	Schlumberger and perf'd Mo 41 holes.  d Morrow formation with 4, nitrogen Put well on pro  e is true and complete to the best of my knowledge and Thurman	rrow 10,044' - 000 gal. 7 1/2% duction.	10,064' with 2 SPF.  FE acid & 1,000  ngineer DATE 11/15/93 (505) TELEPHONE NO 393-5905
11/02/93 Rig up S 20' and 11/03/93 Acidized CF/bbl.  Thereby certify that the information above SIGNATURE TYPE OR FRINT NAME Brent  (Thus space for State Use) ORIGINIKE	Schlumberger and perf'd Mo 41 holes.  d Morrow formation with 4, nitrogen Put well on pro  e is true and complete to the best of my knowledge and Thurman  INAL SIGNED BY WILLIAMS	rrow 10,044' - 000 gal. 7 1/2% duction.	10,064' with 2 SPF.  FE acid & 1,000  ngineer pare 11/15/93 (505) TELEPHONE NO 393-5905

والمتعادد المعادرين سيون

30-015-26943

DARID 14744
PROP 1877
POOL 78890

1923010-0 1923830-G 1923050-W

## Oxford[®]

MADE IN U.S.A.

NO. R753 1/3

### IT IS THEREFORE ORDERED THAT:

R-9631

(1) All mineral interests, whatever they may be, from the base of the Abo formation to the base of the Morrow formation, underlying Lots 3 through 7, the SE/4 NW/4, and the E/2 SW/4 (W/2 equivalent) of Section 6, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico, thereby forming a non-standard 334.98-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre spacing within said vertical extent, which presently includes, but is not necessarily limited to the Undesignated Empire-Pennsylvanian Gas Pool and the Undesignated North Illinois Camp-Morrow Gas Pool, are hereby pooled, said unit shall be dedicated to a well to be drilled at an unorthodox gas well location 990 feet from the South line and 730 feet from the West line (Unit M) of said Section 6.

R-9631 Song. Polg. NSP Y NS h 12-19-91 5-22-92 Dual Spaced Auto-Surf-9416 Dual Lat 2588-9464 0451-10295-10295 Dual Induction 2588-9452



NAVAJO REFINING COMPANY, L.L.C. Map ID No. 99 Artificial Penetration Review

OPERATOR MEWBOURNE DIL	
LEASE Chalk Bluff Federal	_
WELL NUMBER 3	
DRILLED 1/6/93	<u>-</u>
PLUGGED NA	~

STATUS PCTIVE

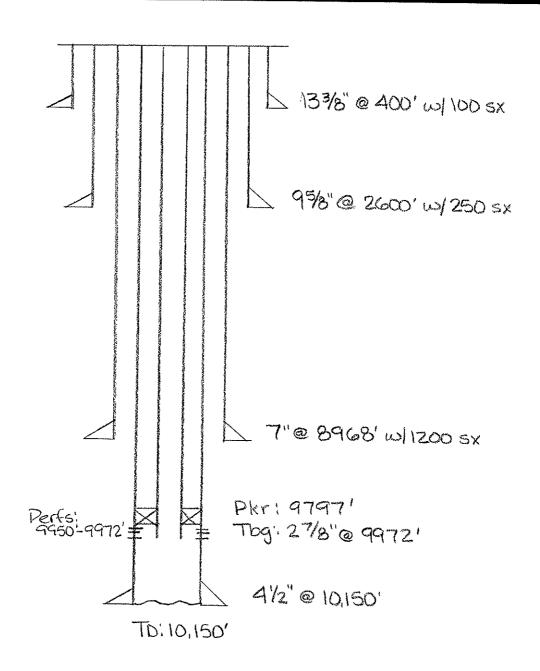
LOCATION Sec. 1 -T | 8 - R 2 7 E

MUD FILLED BOREHOLE NA

TOP INJECTION ZONE -3702'

API NO. 30-015- 27163

### **REMARKS:**



### **MAP ID NO. 99**

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

API NO. 30-015-27163

APD ATTATCHMENT

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

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

Surface Casing:

250 sacks of Class "C" containing 2% CaCL2 + 1/4#/sack of cellophane flakes followed by 200 sacks of Class "C" containing 3% CaCL2.

### Intermediate Casing:

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

#### Production Casing:

A cement diverter tool (D. V. Tool) will be run at a depth of approximately 7500' from surface.

1st Stage:

850 sacks of Class "H" containing 5#/sack KCL + .7% fluid loss additive + 5#/sack compressive strength extender.

2nd Stage:

900 sacks of Class "C" Lite containing 1/2#/sack cellophane flakes + 5#/sack Gilsonite + .4% fluid loss extender followed by 100 sacks of Class "H" containing .4% fluid loss additive + 5#/sack compressive strength extender.

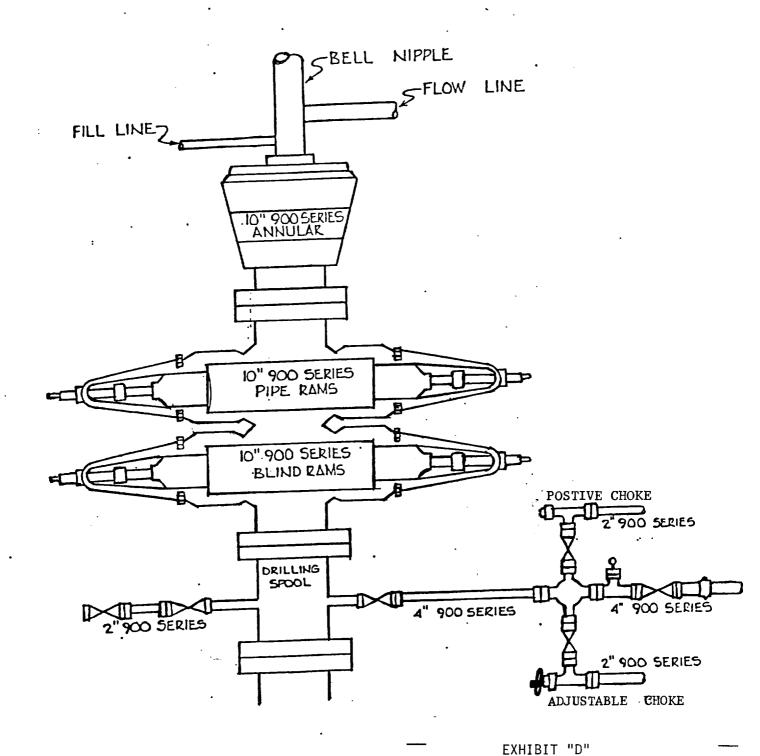
- 3.) Drilling time will require approximately 35 40 days and drilling operations should begin approximately November 1, 1992.
- 4.) The possibility of encountering H2S gas in this area remote. Mewbourne Oil Company has drilled offset wells to this proposed location and none of these wells have encountered any H2S gas in the Pennsylvanian. In the event H2S is encountered, the necessary H2S safety equipment will be installed on location to provide for a safe working environment.
- 5.) Anticipated formation temperature and pressure in the Morrow zone will be approximately 155 degrees fahrenheit and 3,000# psi.

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

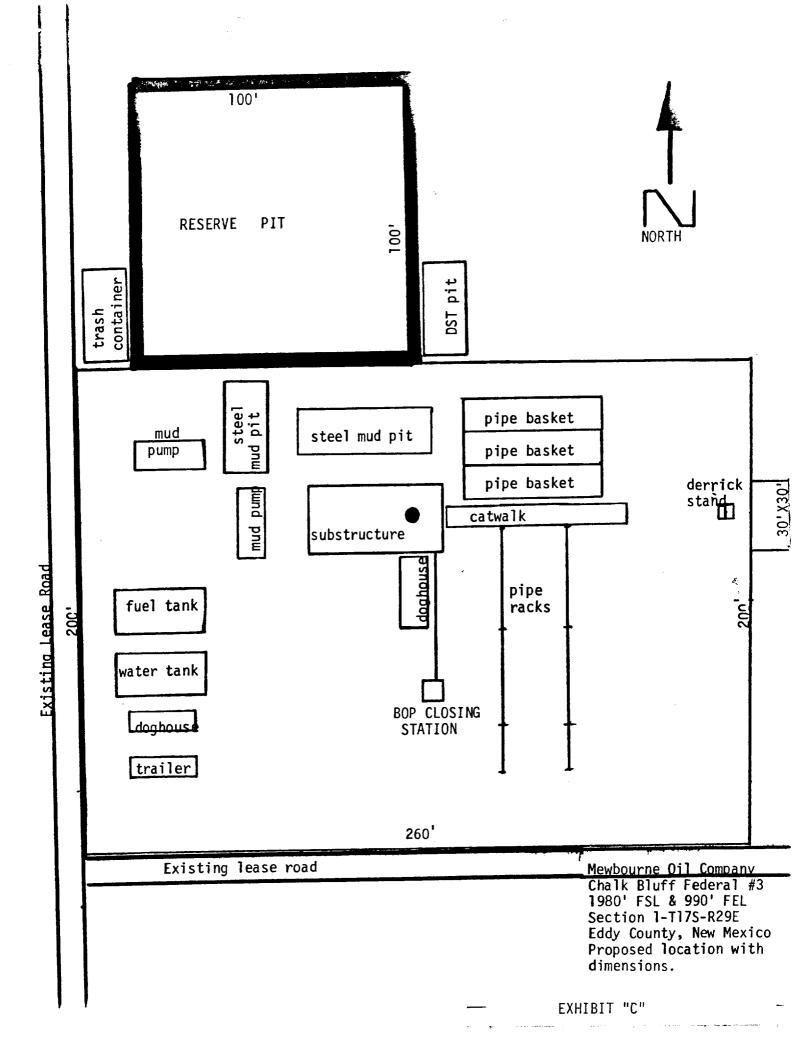
10

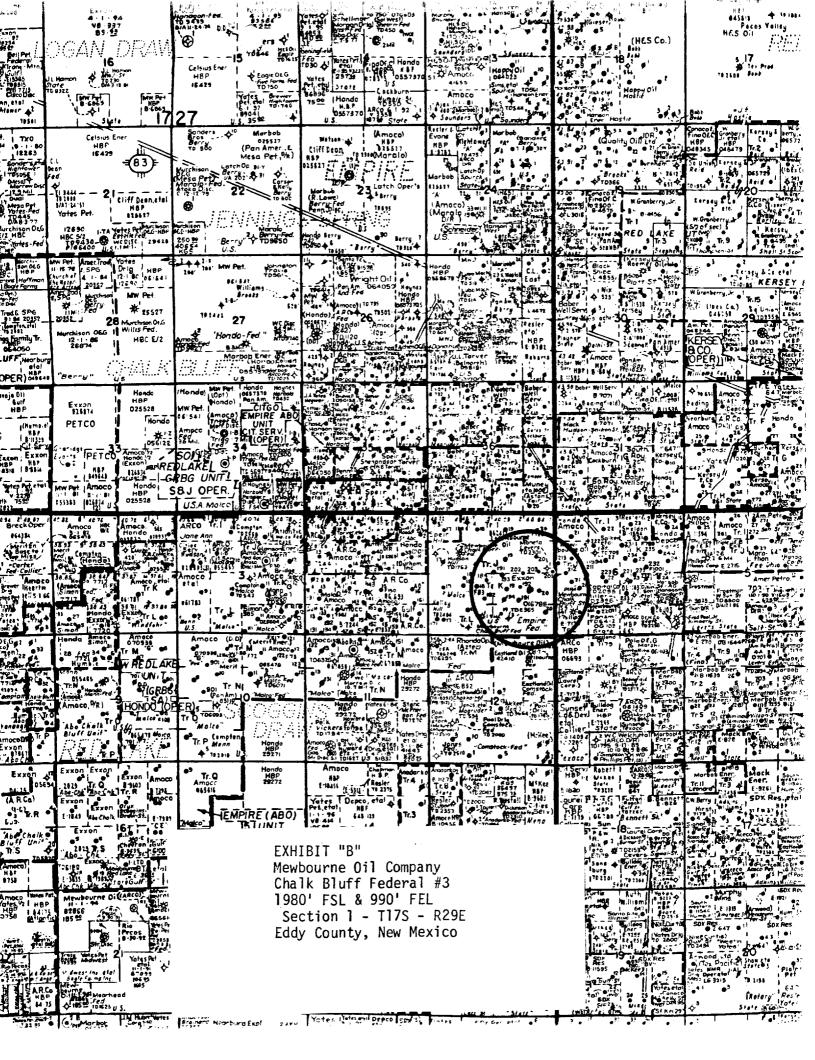
7.) The pressure rating on the BOP STACK (see exhibit "D" of the APD) is 3,000# psi. The correct pressure rating of ANSI 900 series is noted in the APD. The API standard for pressure ratings for flanged equipment is in ANSI series. ANSI 600 series is 2,000# psi working pressure test, ANSI 900 series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

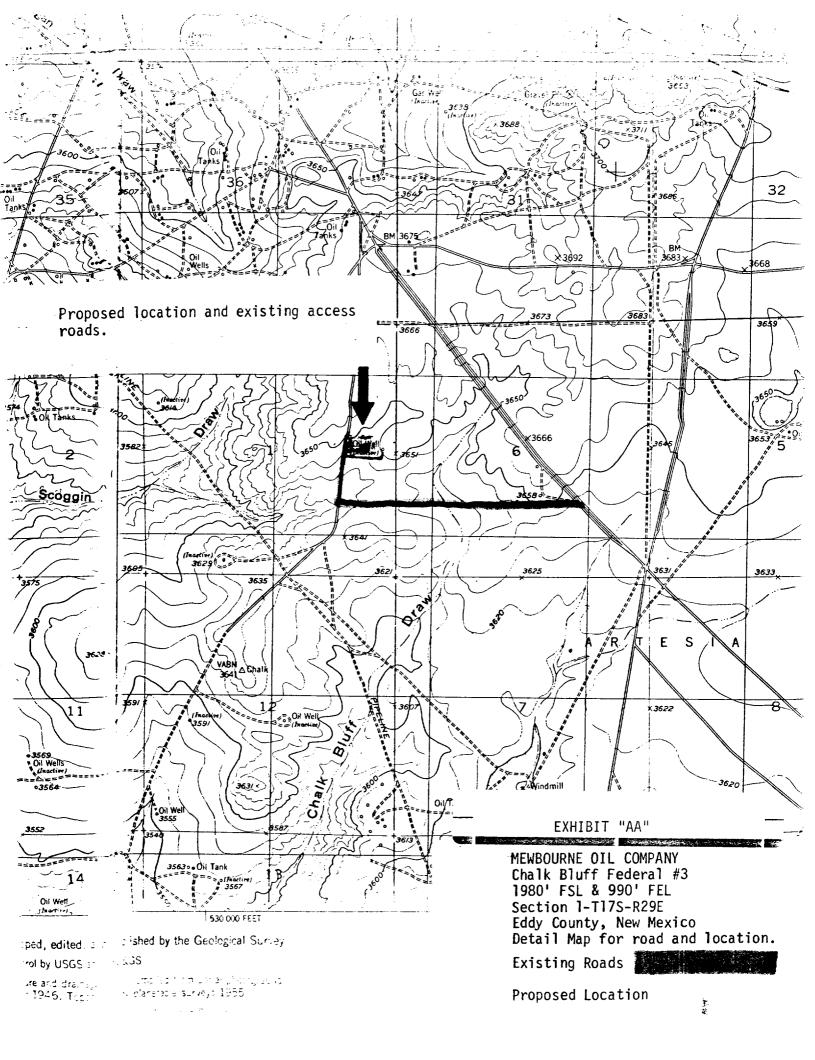
LEASE NAME:			DERAL #3	TYPE OF CSG		PRODUCTION
LEGALS:	SEC 1-1			DEPTH OF CS	3:	10,300
CASING MINIMUM PERFOR	MANCE PI	ROPERTIE				
CSG TYPE			K-FACTOR	COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&			991,000	8830	9190	428000
2 5 1/2" 17# N-80 LT&			844,000	6380	7740	348000
3 5 1/2" 20# N-80 LT&	2		991,000	8830	9190	428000
4						
5						
GRADE OF CASING:	85	% OF NE	W			
CSG TYPE				COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&				7506	7812	363800
2 5 1/2" 17# N-80 LT&				5423	6579	295800
3 5 1/2" 20# N-80 LT&				7506	7812	363800
4 0				0	0	0
5 0				0	0	0
SETTING DEPTH (WT. OF	CSG IN AI	R)	CASING	INTERVAL	INTERVAL	CUMMULATIVE
FROM	TO	_	WT. (LB/FT)	LGTH (FT.)	WT. (LBS)	WT. (LBS)
1 0	1,000		20	1000	20,000	181,100
2 1,000	9,300		17	8300	141,100	161,100
3 9,300	10,300		20	1000	20,000	20,000
4 0				0	0	0
5 0		·		0	0	0
WELLBORE CONDITIONS						
MUD WEIGHT:		PPG				
BOUYANCY FACTOR		(AIR =	•		<b>707 7</b>	
DISPLACEMENT FLUID WT	8.5	PPG	ANNULAR	COLLAPSE	HOLE	
			HYDROSTATIC	-	HYDROSTATIC	######################################
DEPTH	_		PRESSURE	LOADING	PRESSURE	TENSION
0			0	5000	0	154,478
1 1000			499	5982	<b>44</b> 2 <b>4</b> 111	137,418 17,060
2 9300			4643 5142	5290 7506	4553	0
3 10300			0	ERR	4333	Ŏ
4 0 5 0			0	ERR	0	0
5 0 FINIAL CASING DESIGN				SAFTEY FACT		
FINIAL DASING DESIGN				COLLAPSE	BURST	TENSION
	FROM	TO	LENGTH	>1.125	>1.00	>2.00
0	0	0	0	ERR	ERR	ERR
0	0	0	0	ERR	BRR	ERR
5 1/2" 20# N-80 LT&C	10,300	9,300	1000	1.460	1.716	21.325
5 1/2" 17# N-80 LT&C	9,300	1,000	8300	1.139	1.600	2.153
5 1/2" 20# N-80 LT&C	1,000	0	1000	11.983	17.673	2.355
	_,	-				

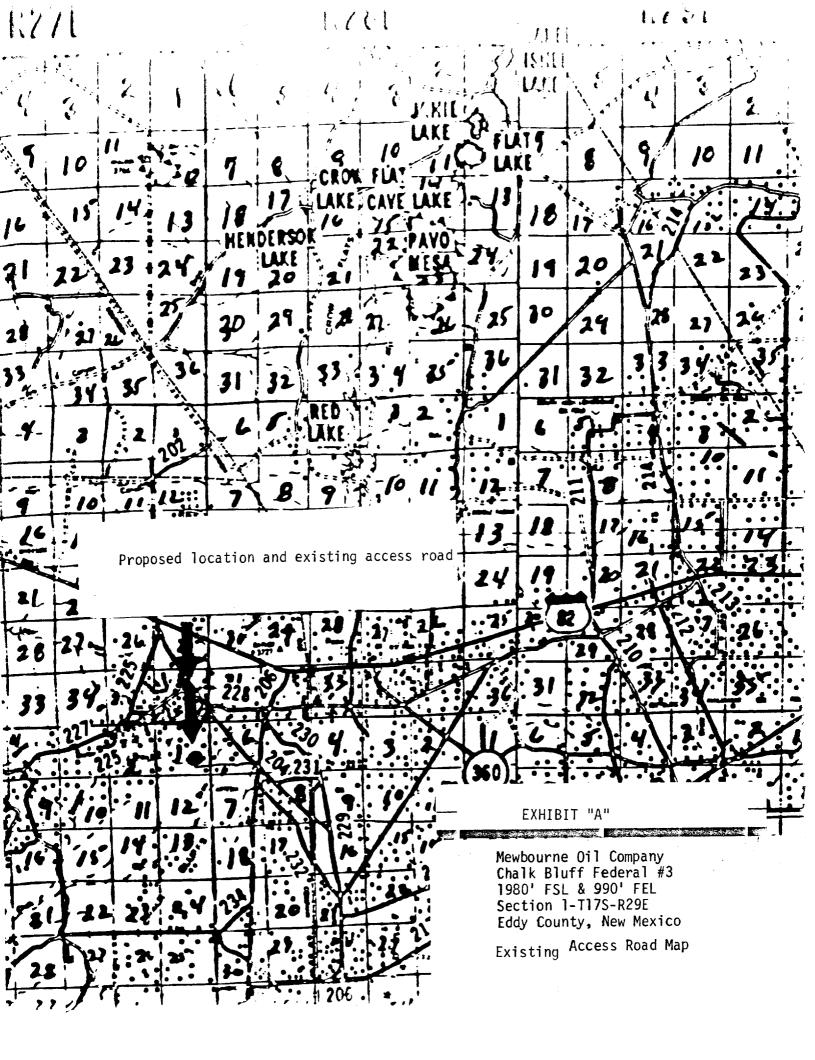


Mewbourne Oil Company Chalk Bluff Federal #3 1980' FSL & 990' FEL Section 1-T17S-R29E Eddy County, New Mexico









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

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

Form C-102 Revised 1-1-89

### **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

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

				- HOLL CO.					
Operator				Leass				Well No.	
MEWBOURNE		ANY			BLUFF	FEDERAL	- TA:	3	
Unit Letter	Section	Township		Range	T.4.0M		County	DDW	
I	1	18	SOUTH	21	EAST	NMPA	41 EI	DDY	
Actual Footage Loca		מיים זיים		990	`		EAST		
1980 Ground level Elev.	feet from the	SOUTH ducing Formation	line and	Pool	<del>'</del>	feet from	n the Times	line Dedicated Acre	206.
	ł	•				o 14	•	1	
3628		orrow	et worll by colored w			Camp Morr	OW	320	Acres
<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> <li>If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization,</li> </ol>									
	ion, force-poolin	ng, etc.?	If answer is "yes" t		_	nmunitizat	_		
If answer		wners and tract de	scriptions which hav	e actually been o					
this form	if neccessary.		til all interests have	haan ganaalidata	d Oby communic	tication maiticati	a formal modic	a or otherwise)	
			ul all interests have interest, has been a			areasi minist	ur totcen-boom	er omerwise)	
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	ļ							ne Oil Com	npany
	1				 		Date August	31. 1992	
	i			•	j			YOR CERTIF	ICATION
Engr.					!	500			
					l I		on this plat v	was plotted from	location shown n field notes of
	i				9	200'	actual surveys	s made by me	e or under my me is true and
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#### 12. CERTIFICATION:

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

September 9, 1992

Kelly Ryan

District Superintendent MEWBOURNE OIL COMPANY

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

Water: Possible surface water be-

tween 100' - 300'.

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

D. Proposed Casing Program: See Form 3160-3

E. Pressure Control Equipment: See Form 3160-3 and Exhibit "D".

F. Mud Program: See Form 3160-3.

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

H. Testing and Coring Program: Possibility of 4
DST's in the following zones:
Wolfcamp, Cisco,
Strawn, Morrow. N

cores are planned at this time.

I. Logging: Gamma Ray - Spectral Density Dual Spaced Neutron Log from T.D. to surface.

Gamma Ray - Dual LaterLog - Micro Guard Log from T. D. to Intermediate casing.

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

#### 11. OPERATOR'S REPRESENTATIVES:

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

Kelly Ryan(505) 393-5905Box 5270Bill Pierce24. hour asweringHobbs, NMGreg Milnerservice.88241

#### 7. ANCILLARY FACILITIES:

A. None required.

#### 8. WELLSITE LAYOUT:

- A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pits, trash container and location of major rig components.
- B. A 400' X 400' area has been flagged surroundthe staked well.

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

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

#### 10. OTHER INFORMATION:

- A. The geologic surface formation is hard clay interspersed with sand and chert outcroppings. Vegatative covering is generally sparse except in low-lying areas where grass is prevelant. Other vegatative covering consists mostly of greasewood and bear grass.
- B. The estimated tops of geologic markers are as follows:

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

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

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

#### 5. LOCATION OF CONSTRUCTION MATERIALS:

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

### 6. METHODS OF HANDLING WASTE DISPOSAL:

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

## MULTI-POINT SURFACE USE AND OPERATING PLAN MEWBOURNE OIL COMPANY

CHALK BLUFF FEDERAL WELL NO. 3
1980' FSL & 990' FEL OF SEC. 1-T18S-R30E
EDDY COUNTY, NEW MEXICO
NEW MEXICO LEASE NO. NM-016788

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

#### 1. EXISTING ROADS:

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

#### 2. LOCATION OF EXISTING WELLS

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

#### 3. LOCATION OF PROPOSED ACTIVITIES:

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

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

## Dra NEED STATES

SUBMIT IN TRIPLICATE. ions on le) (Other ins' revers

Form approved. Budget Bureau No. 1004

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Mar.	District (	1 1610			

DEPARTMENT OF STAF INTERIOR

	BUREAU (	OF LAND MANA	SEMENT				NM-0 <del>1678</del>	80557371
APPLICATION	I FOR PERMIT	TO DRILL, I	DEEPEN	, OR PL	.UG B	ACK	6. IF INDIAN, ALLOT	
Ia. TYPE OF WORK  DRI  b. TYPE OF WELL	LL XXX	DEEPEN [		PLU	G BAC	CK 🗆	7. UNIT AGREEMENT	NAMB
	S Y OTHER		Bingi Zone	* (X)	MULTIPE ZONE	La 🔲	8. FARM OR LEASE !	EMA
NAME OF OPERATOR	/	······································			CEIVE	0	Chalk Bluff	Fed. Comm.
Mewbourne Oil	Company				·		9. WELL NO.	
			-	Car	1319	292	3	
Box 5270	Hobbs, New	Mexico 8824	h ann Stat				10. FIELD AND POOL	
LOCATION OF WELL (Re At surface	eport location clearly a		_	e requirement	i°C. D.	4	North Illino	
1980' FSL ar At proposed prod. son Same		vit.	I	V west & S.	<u> </u>	#Ĵŧ	AND SURVEY OR 185 1-T17S-R2	1E
4. DISTANCE IN MILES A	ND DIRECTION FROM N	EAREST TOWN OR POS	T OFFICE.				12. COUNTY OR PARH	
12 miles sou	utheast of Art	esia. New Me	xico				Eddy	NM
5. DISTANCE FROM PROPO	SED*			F ACRES IN I	æase		F ACRES ASSIGNED	1
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	990'		320		10 11	320	
S. DISTANCE FROM PROP	OSED LOCATION*	330		SED DEPTH		20. ROTAL	RY OR CABLE TOOLS	
TO NEAREST WELL, DI OR APPLIED FOR, ON THI		2040'	10,	3001		Ro	tary	
1. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)						i	VORK WILL START*
3628	GR						Upon BLM ap	proval
3.		PROPOSED CASI	NG AND C	EMENTING F	PROGRAM	4	Water Basin	1
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DE	РТН		QUANTITY OF CEM	
17 1/2"	13 3/8"	61#		400' ±		450 s	ks. Class C	circulated
12 1/4"	9 5/8"	36#		2,600'	+		s. Tie back	
8 3/4"	5 1/2"	17 & 20#		10,300'	+	600 sk	s. of Class	
Mud Program:		•	,	ŕ		ı	10	+ ID-1 -16-92
0-400' Spud   400' - 2600'   2,600' - 8500'	mud with fresl Fresh water go Cut brine w needed.	el and lime.	LCM as	s needed			-	NC. LCM as
8,500 - 10.300	' Cut brine v	WL 10 CC or 1	salt (	gel, lim Raise we	e, so eight	da ash, accordi	and starch. ngly if abno	Wt. 9.2 - rmal pressur
BOP PROGRAM:								
900 series BOP	and Hydrill	on 13 3/8" su	ırface	casing a	nd on	9 5/8"	'intermediat	e casing.
Gas is not ded N ABOVE SPACE DESCRIBE One. If proposal is to treventer program, if an	PROPOSED PROGRAM: drill or deepen directi	If proposal is to deep onally, give pertinent	pen or plug t data on s	back, give d ubsurface loc	ata on pr ations an	esent produ d measured	nctive sone and propo and true vertical dep	sed new productive ths. Give blowout
SIGNED	Tya	TI	LE Dist	rict Sup	erint	endent	DATE _09/0	9/1992
	ral or State office use)							
PERMIT NO.			AP	PROVAL DATE				11 00
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APPROVED BY			rl <b>e</b>	· · · · · · · · · · · · · · · · · · ·	1,944.4		DATE	AFTE !
CONDITIONS OF APPROVAL SI	ĵijĔĊŤ [*] †o						/	-6C/VC
	QUIREMENTS AND						1	SEP. "LO

SPECIAL STIPULATIONS

*See Instructions On Reverse Side

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

#### INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operators, 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 mumber 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. If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

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

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

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

#### NOTICE

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

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

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your

application for permit to drill, deepen, or plug back an oil or gas well.

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

tion on an oil and gas lease.

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

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

This information will be used to analyze and approve applications. Response to this request is mandatory only if the lessee elects to initiate drilling opera-

tions on an oil and gas lease.

1

UN 0 4 1993

June 1990) DEPARTMEN	TED STATES O. C. D. TOF THE INTERIOR ABYER LAND MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No.
Do not use this form for proposals to de	AND REPORTS ON WELLS rill or to deepen or reentry to a different reserv PR PERMIT—" for such proposals	NM-0557377  6. If Indian, Allottee or Tribe Name  Oir.
SUBMIT	T IN TRIPLICATE	7. If Unit or CA, Agreement Designation
Oil Sec. 1-T18S-R27E  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  Other  O	Description)	8. Well Name and No. Chalk Bluff Federal 9. API Well No. 3001527163 10. Field and Pool, or Exploratory Area North Illinois Camp 11. County or Parish, State Morrow Eddy Co., N.M.
	(s) TO INDICATE NATURE OF NOTICE, RE	
TYPE OF SUBMISSION	TYPE OF ACT	ION
Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection

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.)*

Other Spud well & cemented

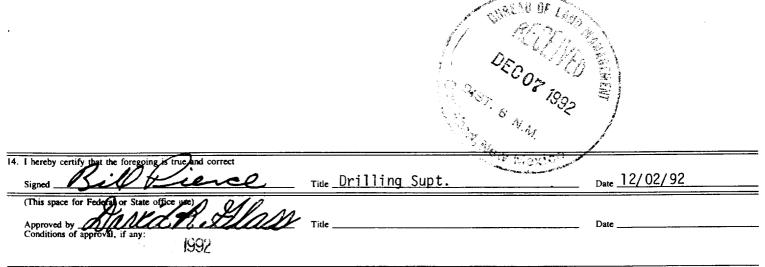
13-3/8" surf. csq.

Dispose Water

(Note: Report results of multiple completion on Well

Completion or Recompletion Report and Log form.)

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



#### GENERAL INSTRUCTIONS

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

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

#### SPECIFIC INSTRUCTIONS

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

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

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

#### NOTICE

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

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

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

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

- well operations.

  (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods
- (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 of recognitions.

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

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

operations on Federal or Indian oil and gas leases.

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

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

#### BURDEN HOURS STATEMENT

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

en'2' CbO: 1000-113-016\5010

CISF

RECEIVED

Form 3160-5 (June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

JAN 0 4 1993

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

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT	IN TRIPLICATE	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  9. API Well No. Comm. #3
Mewbourne Oil Company  3. Address and Telephone No.		3001527163
P.O. Box 5270 Hobbs, New Me	exico 88241 (505) 393-5905	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec. T. R., M., or Survey D. 1980' FSL & 1980' FEL Sec. 1-T18S-R27E		N. Illinois Camp Morro  11. County or Parish, State  Eddy Co New Mexico
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPO	
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing
Final Abandonment Notice	Casing Repair  Altering Casing Other Cement 9-5/8" Inter.  Casing	Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
ST&C casing and set @ 2600'   containing 6% gel + 10 pps N	hole to 2600' KB. Ran 59 joints of KB. Western cemented with 590 sacks aCl + 1/4 pps celloseal followed by 2 rculated 50 sacks of cement to the pi	of Class "C" lite 50 sacks of Class
14. I hereby certify that the foregoing is true and correct	Drilling Supt.	12-02-92
(This space for Federa of State office use)  Approved by Conditions of approval, if any:	Title	Date

#### **GENERAL INSTRUCTIONS**

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

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

#### SPECIFIC INSTRUCTIONS

zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mund 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 the depth to top of any left in the hole; method of closing to approval of and date well site conditioned for final inspection looking to approval of the abandonment.

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

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

#### NOTICE

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

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

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

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent ROUTINE USES:

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

  (3) Analyze future applications to drill or modify operations in light of data obtained and methods
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations

or prosecutions. EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure

of the information is mandatory once an oil or gas well is drilled.

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

operations on Federal or Indian oil and gas leases.

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

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

#### **BURDEN HOURS STATEMENT**

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

en'2' CbO1 1880-113-816/56018

Form 3160-5 (June 1990)

### UNITED STATES . DEFARTMENT OF THE INTERIOR

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993
ase Designation and Seria! No

Metabourne 0:1 Company 3. Address and Telephone No. 9. A ST Well No. 9. O Rex. 5270 Hohbs, New Mexico BR241 4. Location of Well (Frootage, Seg. T. R. M. or Survey Description) 1980' FSL & 1980' FSL & 1980' FEL Sec. 1-T185-R27E  12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TO Change of Plans  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New Construction  New	BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Seria. No
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Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.   Approve No.			<b>↓</b> • • • • • • • • • • • • • • • • • • •
Address and Telephone No.  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Mexico. 88241  P. D. Roy. 5.770. Hobbs. New Construction  Nortice of Instead  Recompletion  Recompletion  Recompletion  Recompletion  Recompletion  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injection  Non Resister Fracturing  Water Shut-Off  Conversion to Injec	2. Name of Operator	[ \$ Q () < 100 }	Chalk Bluff Fed. Comm. 3
4 Location of Well (Fronzage Sec. T. R. M. or Survey Description)  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990  1980' FSL & 1990	Mewbourne Oil Company		1
N. Illinois Camp More   1980' FSL & 1980 FEL   Eddy	·		
1980' FSL & 1960' FEL Sec. 1-T18S-R27E  CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  Notice of Intent Recompletion Plugging Back Plugging Back Plugging Back Plugging Back Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 7" Casing Other Cement 8 Solved 1 Conversion to Injection Dispose Water  13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, sacluding estimated date of starting and recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Recompletion in Reco	P O Box 52/U Honds, New M 4. Location of Well (Footage, Sec., T., R., M., or Survey		N. Illinois Camp Morrow
TYPE OF SUBMISSION    Notice of Intent   Abandonment   Change of Plans   New Construction   New Construction   New Construction   New Construction   Non-Routine Fracturing   Conversion to lapsetion   Non-Routine Fracturing   Conversion to lapsetion   Non-Routine Fracturing   Conversion to lapsetion   Non-Routine Fracturing   Conversion to lapsetion   Non-Routine Fracturing   Conversion to lapsetion   Non-Routine Fracturing   Conversion to lapsetion   Non-Routine Fracturing   Conversion to lapsetion   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fracturing   Non-Routine Fra			
Notice of Inters	2. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
Recompletion   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Construction   New Constructio	TYPE OF SUBMISSION	TYPE OF ACTION	
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Casing Repair   Casing   Casing   Casing   Casing   Casing   Conversion to Injection   Conversion to Injection   Conversion to Injection   Conversion to Injection   Dispose Water (Nata: Report multiple completion on Water (Nata: Report multiple completion on Water (Nata: Report multiple completion on Water (Nata: Report multiple completion on Water (Nata: Report multiple control and measured any first e-trical depths for all markers and zones pertinent dates, including estimated date of starting any proposed work. If well is directionally druling in the substance of this work.)    Completion Completed Operations (Clearly state all pertinent datas), and give pertinent dates, including estimated date of starting any proposed work. If well is directionally druling in the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substance of the substan		Recompletion	New Construction
Sinal Abandonment Notice   Altering Casing   Conversion to Injection   Dispose Water (Note: Report author of Cement 7" casing   Conversion to Injection   Dispose Water (Note: Report author of Completed Operations (Clean's state All pertisent details, and give pertisent dates, including estimated date of starting any proposed work. If well is directionally drill give subsurface locations and measured authoric vertical depths for all markers and zones pertinent to this work.)  Lost complete returns @ 7683'   Dry drilled 8-3/4" hole to 8968'. Ran 226 Jts. of 7", 26# & 29#, N-80 & S-95 grade used API casing and set @ 8968'. Multiple stage cementer @ 6997' and external casing packer @ 7026'. Western cemented the first stage w/350 sks. of Class "H" containing 8 pps CSE + .75% CF-14 + 5 pps Gilsonite + .35% Thrifty Lite. Set ECP and opened DV tool. Cemented 2nd stage w/750 sks. of Class "C" containing 1 pps celloseal + 5 pps gilsonite + 3% salt followed by 100 sks. of Class "H" Neet. Plug down to 6997' @ 2:45 a.m. 12/26/92    ACC   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS   DIVIDITE GLASS	Subsequent Report	·	
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(Note: Report results of multiple completion on Well Source of Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date, of starting any proposed work. If well is directionally drill give subsurface locations and measured and frue vertical depths for all markers and zones pertinent to this work.)*  Lost complete returns @ 7683' Dry drilled 8-3/4" hole the 8968'. Ran 226 Jts. of 7", 26# & 29#, N-80 & S-95 grade used API casing and set @ 8968'. Multiple stage cementer @ 6997' and external casing packer @ 7026'. Western cemented the first stage w/350 sks. of Class "H" containing 8 pps CSE + .75% CF-14 + 5 pps Gilsonite + .35% Thrifty Lite. Set ECP and opened DV tool. Cemented 2nd stage w/750 sks. of Class "C" containing 1 pps celloseal + 5 pps gilsonite + 3% salt followed by 100 sks. of Class "H" Neet. Plug down to 6997' @ 2:45 a.m. 12/26/92    ACC   SGD   DAVID R GLASS   C   C   C   C   C   C   C   C   C	☐ Final Abandonment Notice	Other Cement 7" casing	<u>-</u> -
Lost complete returns @ 7683' Dry drilled 8-3/4" hole to 8968'. Ran 226 Jts. of 7", 26# & 29#, N-80 & S-95 grade used API casing and set @ 8968'. Multiple stage cementer @ 6997' and external casing packer @ 7026'. Western cemented the first stage w/350 sks. of Class "H" containing 8 pps CSE + .75% CF-14 + 5 pps Gilsonite + .35% Thrifty Lite. Set ECP and opened DV tool. Cemented 2nd stage w/750 sks. of Class "C" containing 1 pps celloseal + 5 pps gilsonite + 3% salt followed by 100 sks. of Class "H" Neet. Plug down to 6997' @ 2:45 a.m. 12/26/92    ACC			(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
Lost complete returns @ 7683' Dry drilled 8-3/4" hole to 8968'. Ran 226 Jts. of 7", 26# & 29#, N-80 & S-95 grade used API casing and set @ 8968'. Multiple stage cementer @ 6997' and external casing packer @ 7026'. Western cemented the first stage w/350 sks. of Class "H" containing 8 pps CSE + .75% CF-14 + 5 pps Gilsonite + .35% Thrifty Lite. Set ECP and opened DV tool. Cemented 2nd stage w/750 sks. of Class "C" containing 1 pps celloseal + 5 pps gilsonite + 3% salt followed by 100 sks. of Class "H" Neet. Plug down to 6997' @ 2:45 a.m. 12/26/92    ACC	Describe Proposed or Completed Operations (Clearly state     give subsurface locations and measured and true ver	all pertinent details, and give pertinent dates, including estimated date of starting tical depths for all markers and zones pertinent to this work.)*	g any proposed work. If well is directionally drilled,
ACCURED FOR RESORD  OR G. SGD.) DAVID R GLASS  FEB 4 1993  CARLSEAD, NEW MERICO  Title Drilling Superintendent  Date 01/20/93  Approved by	26# & 29#, N-80 & S-95 grade @ 6997' and external casing sks. of Class "H" containing Lite. Set ECP and opened DV containing 1 pps celloseal +	used API casing and set @ 8968'. Mulpacker @ 7026'. Western cemented the 8 pps CSE + .75% CF-14 + 5 pps Gilson tool. Cemented 2nd stage w/750 sks. 5 pps gilsonite + 3% salt followed by	Itiple stage cementer first stage w/350 nite + .35% Thrifty of Class "C"
Signed	14. I hereby certify that the foregoing is true and correct	OR G. SGD.) DAVID R. G.	RECEIVED RECEIVED
(This space for Federal or State office use)  Approved by	Will treeses	Title Drilling Superintendent	Date 01/20/93
Approved by			
Approved by		Title	Date
Conditions of approval, it any.	Conditions of approval, if any:		

Form	3160-5
(June	1990)

1. Type of Well Oil Well

12.

2. Name of Operator

3. Address and Telephone No.

Other

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

P.O. Box 5270 Hobbs, New Mexico 88241

Mewbourne Oil Company

1980' FSL & 1<del>980</del>

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

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1973

5. Lease Designation and Serial No

6. If Indian, Allottee or Tribe Name

NM-055737<u>1</u>

	SUNDRY NOTICES AND REPORTS ON WELLS
not use this	form for proposals to drill or to deepen or reentry to a different reservoir.

Do Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

-	7. If Unit or CA, Agreement Designation
	8. Well Name and No.
	Chalk Bluff Fed. Comm. #3
	9. API Well No.
	30-015-27163
	10. Field and Pool, or Exploratory Area
	N. Illinois Camp Morrow
	11. County or Parish, State

>0 <u>-</u>

Eddv

Sec. 1-T18S-R27E		244)
	OX(s) TO INDICATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment  Recompletion  Plugging Back  Casing Repair  Altering Casing  Other Run 4-1/2" Liner	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

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

	ACCOMED CORRESPOND  (PRIG. SGD.) DAVID R. GLA  (C. 1993	RECEIVED  N. 25 9 40 M '93  AREA TO SERVED  SS
4. I hereby certify that the foregoing is trade and correct Signed Signed	Title _ Drilling Superintendent	Date01/21/93
(This space for Federal or State office use)  Approved by Conditions of approval, if any:	Title	Date

SEC	twn/8 ··· re	z <u>27</u>	API # 30	-015-27163
	Š			
OPERA	TOR MEWBOUR	VE OIL CO		·
		LUFF FEO COM #3	·	
STATE	E OCD TOPS AS P	ER MARK ASHLE		DATE /-25-93
			•	
Sa	utheastern New	Mevico	Northweste	rn New Mexico
У	T. Car T. Stra	9932	T. Kirrland-Foritland	T. Penn. "C"
		9491	7. Picmed Cliffs	T. Penn. "D"
<b></b>	450 T Mis	3	T. Cliff House	T. Lezdville
vers	565 T.DE	ronian	T. Menefee	T. Madison
27	//59 T. Silv	rian	T. Point Lookout	T. Elbert
yburg		moya	T. Mancos	T. McCracken
Andres		apson	T. Gallup	T. Ignacio Otzae
rieta		Kee	Base Greenhorn	T. Granite
idock	TEI	enburger	T. Dakora	<u>T</u>
nebry	T. Gr	Wash	T. Morrison	_ <u>T</u>
ob	4760 T. De	laware Sand	T. Todilto	<u>T.</u>
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olfcamp			T. Chinie	·
nii	7970		T. Pennain	
sco (Bough C			T. Penn "A"	T
1. from	to	OIL OR GAS	S SANDS OR ZONES No. 3, from	
2. from				

IMPORTANT WATER SANDS

No. 2, from ______feet 

REMARKS:

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

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

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

# Revised 1-1-8 See Instructions

## OIL CONSERVATION DIVISION

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

OIL CONSERVATION DIVISION

ORIGINAL SIGNED BY

SUPERVISOR, DISTRICT H

MIKE WILLIAM

JAN 2 9 1993

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

Jan 2 - 1593 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 REQUEST FOR ALLOWABLE AND AUTHORIZATION O. C. D. TO TRANSPORT OIL AND NATURAL GAS Well API No. Operator 30-015-27163 Mewbourne Oil Company Address P.O. Box 5270 Hobbs, New Mexico 88241 Other (Please explain) Reason(s) for Filing (Check proper box) X New Well Change in Transporter of: Dry Gas Recompletion Oil Casinghead Gas Condensate Change in Operator If change of operator give name and address of previous operator II. DESCRIPTION OF WELL AND LEASE Lease No. Weil No. Pool Name, Including Formation Kind of Leas SUMM. Federal or FACK NM-0557371 North Illinois Camp Morrow Chalk Bluff Federal Comm. Location Feet From The South 990 1980 East Line _ Feet From The . Unit Letter Township 18S Eddy 27E NMPM, County III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS Address (Give address to which approved copy of this form is to be sent) Name of Authorized Transporter of Oil or Condensate 502 N. West Ave. Levelland, Tx. 79336-3914 Amoco Pipeline IPC Address (Give address to which approved copy of this form is to be sent)
P.O. Box 1188 Houston, Texas 77251 Name of Authorized Transporter of Casinghead Gas or Dry Gas Transwestern Pipeline Company

I Unit | Sec. If well produces oil or liquids, give location of tanks. Rge. Is gas actually connected? When? Unit Twp. Y<u>es</u> 18S 27E 01/15/93 I 1 If this production is commingled with that from any other lease or pool, give commingling order number: -None IV. COMPLETION DATA New Well Workover Deepea Plug Back Same Res'v Diff Res'v Oil Well Gas Well Designate Type of Completion - (X) Total Denth PRTD Date Compl. Ready to Prod. 11/24/92 10,102' 01/16/93 10,150' Top Oil/Gas Pay Name of Producing Formation Elevations (DF, RKB, RT, GR, etc.) **Tubing Depth** 99721 KB 3643' DF 3641' GL 3628' Lower Mornow 9950' Depth Casing Shoe 10,150' 9950'-9954' 9957'-9972' TUBING, CASING AND CEMENTING RECORD SACKS CEMENT **CASING & TUBING SIZE** HOLE SIZE Port ID-2 13-3/8" 400' 54.5# 100 sacks 17-1/2" 2-12-93 9-5/8" 2,600' 12-1/4" 250 sacks 36# comp + \$15 8-3/4" 8,968 1200 sacks <u> 26#</u> 6" 4-1/2" Liner 11.6#
7. TEST DATA AND REQUEST FOR ALLOWABLE 200 sacks 8.600' to 10.150' 2-3/8" & 2-7/8" (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.) OIL WELL Producing Method (Flow, pump, gas lift, etc.) Date First New Oil Run To Tank Date of Test Choke Size Casing Pressure Length of Test Tubing Pressure Gas- MCF Water - Bbls. Actual Prod. During Test Oil - Bbls. **GAS WELL** ate/MMCT Gravity of Condensate Actual Prod. Test - MCF/D Length of Test 30:1 24 Hrs. N/A 2000 MCF/D Tubing Pressure (Shut-in) Casing Pressure (Shut-in) Testing Method (pitot, back pr.) 10/64" 0 Back Pressure

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

(505)

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above

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

Robert A Jones

Printed Name

01/19/93

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

Title

Date Approved .

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

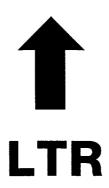
Engineer

Title

393-5905

- 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.







**Job separation sheet** 

73 29 30 37 FOR APPROVED OMPO 1004-0137 Sizes December 31, 1991 Form 3160-4 UNITED STATES OF SUBMIT IN BUPLICATE. (October 1990) Expires December 31, 1991
5. LEASE HENGUNATION AND BESTAL DEPARTMENT OF THE INTERIOR structions on BUREAU OF LAND MANAGEMENTIA, HM 88210 Peverse side) NM-05**\$**2371 WELL COMPLETION OR RECOMPLETION REPORT AND LOGS ALLOTTEE D 1a. TYPE OF WELL: 7. UNIT AGREGMENT NAM WELL X ÖZGI Other CATA RS L TYPE OF COMPLETION: 8. FARM OR LEASE NAME LE NO. WORK OVER DEEP-WELL 2. NAME OF OPERATOR Chalk Bluff Fed. Comm. #3 9. API WELL NO. Mewbourne Oil Company 3. ADDRESS AND TELEPHONE NO. 30-015-27163 10. FIELD AND POOL, OR WILDCAT P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). <u>Illinois Camp Morrow</u> At surface SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 1980' FSL & 990' FEL At top prod. interval reported below Sec. 1-T18S-R27E At total depth Same 12. COUNTY OR 13. STATE 14. PERMIT NO. DATE ISSUED Eddy 19. ELEV. CASINGHEAD 17. DATE COMPL. (Ready to prod.) 15. DATE SPUDDED 16. DATE T.D. REACHED 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 3643' DF 3641' 11/24/92 01/06/93 3628 3628 22. IF MULTIPLE COMPL HOW MANY 21. PLUG, BACK T.D., MD & TVI CABLE TOOLS DRILLED BY 10, 150' 10, 102'

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* WAS DIRECTIONAL 25. 9950'-9954', 9957'-9972' Lower Morrow Orange Sand Yes 27. WAS WELL CORED 26. TYPE ELECTRIC AND OTHER LOGS BUN SDL-DSN Dual-Latero-MFSL-GR Sonic CBL No CASING RECORD (Report all strings set in well) 29 CASING SIZE/GRADE DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD WEIGHT, LB./FT. AMOUNT PULLED 400 -13-3/8" 54.5# 17-1/2" 100 sx. Class None 9-5/8" 2,600' 12-1/4" 250 sx. 36# None 711 26 & 29# 8,968' 8-3/4" 1200 "C & H" None 29. LINER RECORD 30. TUBING RECORD PACKER SET (MD) DEPTH SET (MD) RIZE TOP (MD) BOTTOM (MD) SACKS CEMENT SCREEN (MD) SIZE 9972 4-1/2" 8600' 10.150' 200 sxs 2-7/8" 97971 None 2-3/8" 31. PERPORATION RECORD (Interval, size and number) ACID. SHOT. FRACTURE. CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 9957'-9972' 9950'-9954' 9950'-9954' None None 4 SPF 19' 76 holes 33.* PRODUCTION WELL STATUS (Producing or shut-in) DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 01/16/93 Producing Flowing DATE OF TRET HOURS TESTED CHOKE BIZE PROD'N. FOR OIL-BBL. GAS-MCF. WATER-BBL. GAS-OIL BATIO 10/64" 01/16/93 24 50 2000 40 MCF/BBL PLOW. TUBING PI CASING PRESSURE CALCULATED 24-HOUR RATE OII,---BBI. GAS-MCF. WATER--HBL. OIL GRAVITY-API (CORR.) 2000 60 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY <u>Sold</u> Jones 35. LIST OF ATTACHMENTS

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

(Sittle 13 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

TITLE

Engineer

ll available records

DATE _01/21/93

* Please hold in confidence

SIGNED _

that the foregoing and attached information is con

Morrow 99						
	тор	BOTTOM	DESCRIPTION, CONTENTS, ETC.		TC	TOP
	9950'	9972	Sandstone	NAMR	MEAS, DEPTH	TRUE VERT. DEPTH
	) )	1		Yates	450'	
				7 Rivers	564	
				Queen	1159'	
				Grayburg	1492'	·
				San Andres	1985	
				Glorieta	3536'	····
				Tuɓb	4760'	
				Drinkard	5524	
				Abo	5744	
-				Wolfcamp	6474	
				Cisco	7686	
<del></del>				Canyon	8440	
· <u></u>				Strawn	8932	
· - · · · ·				Atoka	9490	
				Morrow	9594 '	,
<del>•</del>				Morrow Clastic	,0086 3	
				L. Morrow	9911	



## RECEIVED P. D. BOX 1498 ROSWELL

P. D. BOX 1498 ROSWELL, NEW MEXICO 88202-1498

505/623-5070 ROSWELL, NM

505/746-2719 ARTESIA, NM

10 52 AM 193

CARL

AREA

January 06,1993

Mewbourne Oil Company P.O. Box 5270 Hobbs, N.M. 88240

RE: Chalk Bluff Federal #3

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

400'		3/4°
	_	
887 '	-	1°
1359'	_	1°
1864'	_	2°
23361	_	1 1/2°
2600'	_	3/4°
27921	_	1 1/4°
3086'	_	1°
3580'	-	1 1/3°
4079'	_	1°
4358'	_	1 3/4°
4846'		2 3/4°

58131	_	4°
58751	_	4°
5967'	_	3 3/4°
60941	_	3 3/4°
6217'	_	3 1/4°
67201	_	3 1/2°
7213'	_	3°
7685'	_	2 1/2°
8155'	-	2 1/4°
8654'	_	2°
90031	_	2°
<b>9</b> 509'	_	1/4°
9837'	_	3/4°
10150'	-	1 3/4° TD

W. Chappell Contracts Manager

STATE OF NEW MEXICO)

COUNTY OF CHAVES

The foregoing was acknowledged before me this O6th day of January 1993 by Gary W. Chappell.

MY COMMISSION EXPIRES

October 07,1996

NOTARY PUBLIFE

}	COMPANY UNIT:	:MEW8OURNE	OIL	LEASE SECTION	:CHALK BLU	JFF FED.CO	MWELL NO. TOWNSHIP:		1	Pc = 2273.2	Pc2 =	5167.4 *   *
	i :		Н	9961		: 1	G/GMIX			Pt2 = 5031.9	Pw =	2244.7 * ; ;
	%CO2 :	0.42	3N2		H2S			DATE		4810.1		2199.5 * ; ;
	ď:	2.278	Fr	0.012892	GH	: 8456.9		RANGE				2132.7 * ; ;
:::	:::::::::		::::::::::			::::::::	::::::::::		:::::::::::::::::::::::::::::::::::::::	4053.0		2055.4 * 11
									!	1		*!!
	V01 1 :	: 655	PSIA 1	2243.2			RESV.TEMP	173.6	!	Pc2-Pw2= 128.6	Pw2 =	5033.8 *
	VOL 2 :	1310	PSIA 2	: 2193.2						329.8		4837.6 *!!
	VOL 3 :	2283	PSIA 3	2113.2			SHUT-IN PR	2273.2	- i	618.9		4548.6 *
	VOL 4:	3294	PSIA 4	: 2013.2						942.6		4224.8 * ; ;
									;	 		* 1 1
				PCR	: 668					n =	0.884	***
				TCR	: 401				i 1	1		¥11
									!	Pc2/(Pc2-Pw2) =	40.184	
	LINE	RATE 1	! !	RATE 2	! #	RATE 3	1	RATE 4	1 1	t 1	15.66 <b>6</b>	*!!
		: 	 	I I	!	: !	 	 	! !	: 1 : ‡	8.350	<b>*</b> 11
	!	'1ST	'2ND	'ist	1 ''2ND	'ist	1 '2ND	¦ '1ST	1 '2ND	1	5.482	* i i
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1	9M	0.655		•	•							*[[
2		534	•		•	534	534	534		[Pc2/Pc2-Pw2]n =		*!!
3		633.6					633.6	633.6			11.386	*[]
4		583.8						583.8			6.528	* ¹ :
	PR (est)		•	•		3.16		3.01			4.500	<b>x</b> [ ]
5	Z(est)	0.727		0.727	0.736							x : !
		424.5										
	GH/TZ	19.924		19.918	19.691	19.391					14.915	*!!
8		2.111		•	•	2.108			•		14.903	*
7	l-e-S	0.526		•	•	0.526		0.525	0.525	1	14.823	<b>*</b> 1
10	Pt	2243.2					,					*11
	Pt2 /1000	•						4053.0				¥ 1 1
12									0.0128924			*;
		5.472										* ! !
14		3.58										*
	L/H(FoGm)											* ! !
									171.83059			<b>K</b>
17					4837.5							I 1 1
- 3					10123.1							<b>t</b> 11
19					3181.7	•	•	•				*!!
20			2743.3				2601.6	·-				# i !
21		4.12		4.03			3.89					x!!
22	Ţ.	1.45		1.46		1.45	1.45	1.46				£ , ;
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### **Laboratory Services**

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

Mewbourne Oil Co.

Attention: Mr. R.Jones

P. O. Box 5270

Hobbs, New Mexico 88210

SAMPLE

IDENTIFICATION: Chalk sluff #3 Mewebourne Oil Co.

COMPANY:

LEASE: PLANT:

SAMPLE DATA: DATE SAMPLED:

ANALYSIS DATE:

03-05-93

530.0

3/4/93 12:30PM GAS (XX)

SAMPLED BY: ANALYSIS BY: LIQUID ( ) R. Jones

Rolland Perry

PRESSURE - PSIG SAMPLE TEMP. °F

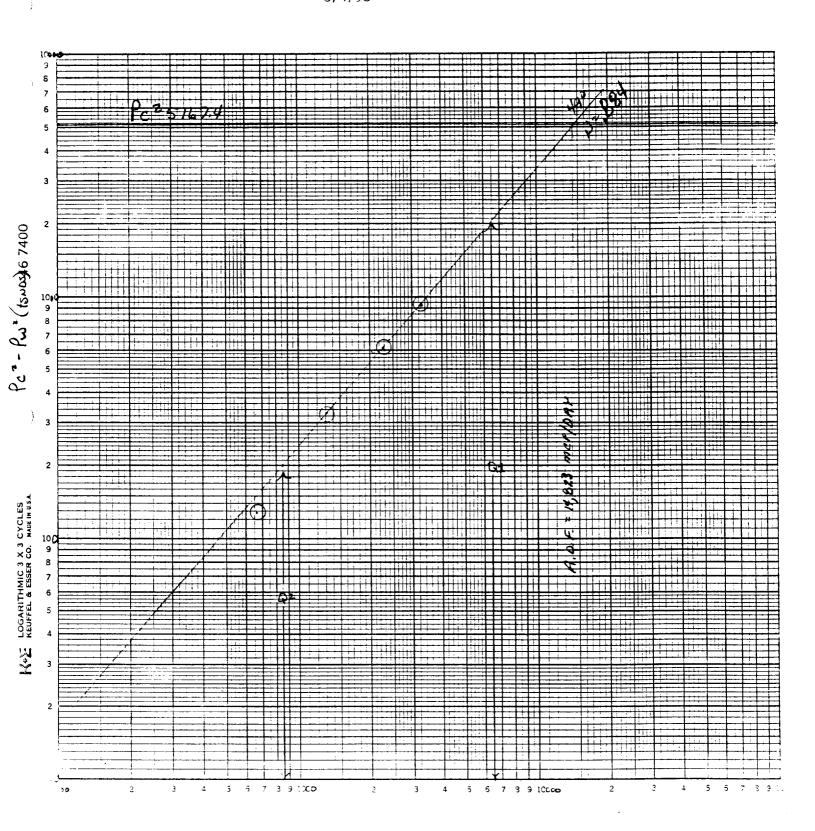
ATMOS. TEMP. °F

REMARKS:

#### **COMPONENT ANALYSIS**

COMPONENT		MOL PERCENT	GPM	
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.33		
Carbon Dioxide	(CO2)	0.42		
Methane	(C1)	83.10		
Ethane	(C2)	8.14	2.164	
Propane	(C3)	3.14	0.862	
I-Butane	(IC4)	0.40	0.130	
N-Butane	(NC4)	0.86	0.270	
I-Pentane	(105)	0.39	0.140	
N-Pentane	(NQ5)	0.41	0.147	
Hexane	(C6)	2.81	1.214	
Heptanes Plus	(C7+)	0.00	0.000	
·	•	100.00	4.927	
DT11/01/ET DD1/		1269	MOLECULAR WT.	21.1701
BTU/CU.FT DRY			WOLECOLAR WI.	6111102
AT 14.650 DRY		1265	26# GASOLINE -	1.591
AT 14.650 WET		1239	26# GASOLINE 4	1.371
AT 15.025 DRY		1298		
AT 15.025 WET		1304	•	
SPECIFIC GRAVITA CALCULATEI MEASUREI	D	0.731		·

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



Omer/Our

Lag - 0. 20 - 20 - 20 - 3.81291 Lag - 10 - 20 20 1004 = 2.92942 Submit in duplicate to appropriate district office 33 See Rule 401% Rule 1122

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

Olste File

Form C-122 Revised 4-1-91

#### OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWVO	OURNE OIL	COMPANY			Lease	or Unit Name CHALK BLU	JFF FEDERA	L COM.	
Type Test X Initial					Test	Date	Well N		
Completion Date		Annual Depth	Special	Back TD	Eleva	3/4/93	Linit I	3 ir Sec T	WD - Ree
1/16/93	TOCAL	10150	riug	10102		GL 3628'	T	1	18S 27E
	Wt. d	Set A	Perf	orations:		3020	County	y <u></u>	-1036/E-
41/2	10.5	. 052   36	500 150 _{Fror}	0050	_	0051			
1-2 Th- Si		C A		n: 9950 orations:	To:	9954	Pool	EDDY	
Tog. Size7/8		.91 Set A	ren						ORROW /
2 3/8 &			72 From		To:	9972			LINOIS
Type Well - Single Subgke			•	Packer Set	9797			MORROW	/
Producing Thru   1	Reservoir Temp. 133	°F Mean Annu		Baro, Press	^{-P} 13.2			ection answeste	ern
I H	950 Gg	.731 % CC	.42	% N ₂ .33	% H ₂ S	Prover	Meter		Taps flg.
	FLOW				TUBIN	IG DATA	CASINO	G DATA	Duration
NO. Prover	Orifice	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	of
NO. Line X Size	Size	p.s.i.g.	h,	ak.	p.s.i.g.	φF	p.s.i.g.	°F	Flow
SI	3126	1	<del> </del>		2260		Pkr.		48 hr.
i. 3 X 1.	500	530	5	148	2230		111		1 hr.
2. 3 X 1.		530	19	124	2180		11	<del></del>	1 hr.
3. 3 X 1.		535	52	88	2100		19	<del> </del>	1 hr.
4. 3 X 1.		540	102	70	2000		19		1 hr.
5.		1		1	1 2000				
			RA	TE OF FLOW C	ALCULATIO	NS			
COEFFICII		h _w P _m	Pressur P _m	110.	Temp. or Ft.	Gravity Factor Fg.	Super Compre Factor, F pv		ate of Flow Q, Mcfd
1. 11.13		52.12	543.2	924	48	1.170	1.043	<del> </del>	55
2. 11.13	10	01.59	543.2			1.170	1.049	13	
3. 11.13	1	8.84	548.2			1.170	1,066	22	
4. 11.13	2.3	37.54	553.2			1.170	1.075	32	
5									
P	Temp. ² R	T _r	Z	Gas Liquid Hydr	ocarbon Ratio	23.6	53		Mcf/bbl.
NO.				A.P. L Gravity of	_		57.0		Deg
	608	1.52	.919	Specific Gravity	•			XXX	XXXXXX
	584 548	1.46	•909	Specific Gravity	-		xxxxx	G	Mix .849
	530	1.37 1.32	.880	Critical Pressure	668			S.I.A. 6	64 _{p.s.l.a}
4. <b>.</b> 83 5.	JOU	1.32	.865	Critical Tempera	.mre4	01		_R4	41R
2273.2	P _c ² 516	57.4							
				1 1) P. ²	= 5.4	821	(2) <b>r</b> P _c ²	<b>=</b> 1	4.500
NO. P _t ²	P _w	P _w ²	P _c - P _w 2	· _ c			(2) c	<u> </u>	
1. 5031.9		5038.8	128.6	$P_c^2 - P_v$	N		P P	w j	
2. 4810.1		4837.6	329.8	1	_	4	-	-	
3. 4465 <b>.</b> 6		4548.6	618.9	AOF = Q	P _c ²	$a = \frac{12}{2}$	4,823		
4. 4053.9	2055.4	4224.8	942.6	<u>:</u>	$\overline{P^2 - P}$	2			
5.	!	i 	<u> </u>		F c	<b>" 」</b>			
Absolute Open Flow	14,823	3		Mcfd @ 15.025	Angle of S	lope 0 49		Slope, n	.884
<u> </u>				- <del>-</del>	<u> </u>	юр. О <u>ту</u>		510pc, n	
Remarks: 13.	3 BBLS CO	DNDENSATE	PRODUCEI	DURING T	EST				
Approved By Divisi	on	Conducted			Calculated By:			ked By:	
		ו טב	VELL TEST	LERS	KS		KS	·	

### THI NESTERN COMPANIA COMPANIA MERICA

### WATER ANALYSIS

HOBBE, NEW MEXICO LAB

ANALYSIS #: HE010251

#### GENERAL INFORMATION

OPERATOR: Mewbourne Oil Company

DEPTH:

WELL:

Chalk Bluff Fed #3

DATE SAMPLED:

DATE RECEIVED:02/24/93

FIELD: FORMATION:

SUBMITTED BY: Leonard Pounds

COUNTY:

Eddy

WORKED BY:

M Keith

STATE:

NM

PHONE #:

505-392-5556

SAMPLE DESCRIPTION: all water

#### PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:

70 °F 1.003 @

PH: 6.75

RESISTIVITY (MEASURED): 3

OHMS @ O °F

IRON (FE++):

150 PPM

SULFATE:

100 PPM

CALCIUM:

10 PPM

TOTAL HARDNESS:

50 PPM

MAGNESIUM:

6 PPM

BICARBONATE:

487 PPM

CHLORIDE:

1595 PPM

SODIUM CHLORIDE (CALC)

2624 PPM

**BODIUM+POTASS:** 

1243 PPM

TOT. DISSOLVED SOLIDS:

3474 PPM

KCL

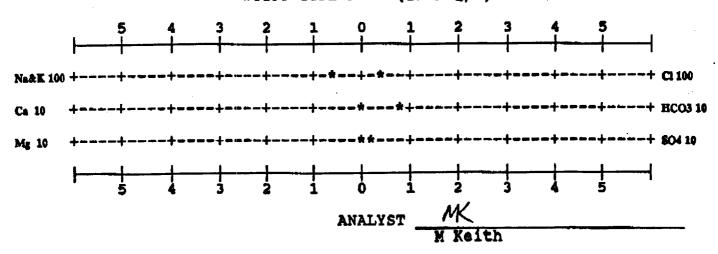
:no trace

OIL

:none

REMARKS:

#### STIFF TYPE PLOT (IN MEQ/L)



05F

Form 3160 5 (June 1990

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Drawer DD Artesia NM Sec10 FORM APPROVE:

Budget Bureau No. 1064-0000

Expires: March 31, 1990

	Expires:			
Pace	Designat	ion and	Cori.	`

Lease Designation and Se

MM_	0557371	
141.1-	0001011	

SUNDRY NOTICES  Do not use this form for proposals to dr  Use "APPLICATION FO	6. If Indian, Allottee or Tribe Name	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Well Well Other		8. Well Name and No.
2. Name of Operator  Mewbourne Oil Company	MENTIVEO	Chalk Bluff Fed. Com. #3  9. API Well No.
3. Address and Telephone No. P.O. Box 5270 Hobbs, New Me	exico 88241 APR 2 6 1993	30-015-27163  10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D		N. Illinois Camp Morrow 11. County or Parish, State
1980' FSL & <del>1980</del> ' FEL Sec. 1-T18S-R27E	, , , , , , , , , , , , , , , , , , ,	Eddy Co., N.M.
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent  Subsequent Report	Abandonment Recompletion Plugging Back	Change of Plans  New Construction  Non-Routine Fracturing
Final Abandonment Notice	Casing Repair Altering Casing Other	Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

1) Formation: Morrow

2) Amount of water produced 10 BW/mo.

3) Water analysis attached

4) Water is stored on lease in fiberglass tank

5) Produced water will be trucked by I & W Inc.

6) The disposal well is I & W Inc., Walter Solt #1, Unit Letter L, Section 5-T18S-R28E Eddy County, New Mexico

SWD #318

14. I hereby certify that the foregoing is true and correct Signed There There are a second to the second the second to the second the second to the second the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to	Title _	Production Engineer	Date	larch 4, 1993
(This space for Federal or State office use)  Approved by (ORIG. SGD.) DAVID R. GLASS	Title _	PETROLEUM ENGINE <b>ER</b>	Date	4/22/93
SEE ATTACHED				

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

COMPANY	:MENBOURNE	OIL	LEASE	:CHALK BL	JFF FEG.COM	MWELL NO.	: 3			Pc2 =	5167.4 *
UNIT:			SECTION	: 1		TOWNSHIP	: 19		1 1		*1
١:	9961	H	9961	L/H	: 1	G/GMIX	: 0.849	a !	Pt2 = 5031.9	Pw =	2244.7 *
%CO2 :		%N2	0.33	H2S	ı •		DATE		4810.1		2199.5 *
d:		Fr	:0.012892	GH	: 8456.9		RANGE	: 27	4465.6		2132.7 *;
	:::::::::::	::::::::::	::::::::::				::::::::		4053.0		2055.4 *
									11		¥ 1
VOL 1 :	655	PSTA 1	: 2243.2			RESV.TEMP	173.6		Pc2-Pw2= 128.6	PW2 =	
VOL 1 :			: 2193.2				2.000	i			4837.6 *
VOL 2 :			: 2113.2		(	SHUT-IN PR	= 2273.2	i	 		4548.6 *
			: 2013.2		,	onor in in	- LLIVIL		11 042 6		4224.8 *
VOL 4:	3294	521H 4	: ZU13.Z					l	11 /72.0		*
									11 11 n -	A 004	
	-		PCR						n =	V.884	*!
			TCR	: 401					ii	40.404	* !
								,	Pc2/(Pc2-Pw2) =		*
LIME	RATE 1		RATE 2	1	RATE 3	!	RATE 4			15.666	* [
	! 	 	i 	!	!	! !			· •	8.350	* 1
1	'1ST	'2ND	¦ 'ist	1 ' 2MD	¦ 'IST	'2ND	1ST	ן צאט ן	• •	5.482	* 1
	! !	 	l 	l I	 	 	!		1   1 <del> </del>		* ;
i OM	0.655	0.655	1.310	1.310	2.283	2.283					*!
2 T₩	534	534	534	534	534	534	534	534	[Pc2/Pc2-Pw2]n =	26.181	*;
3 Ts	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	† [   ]	11.386	*1
4 T	583.8	•			583.8	583.8	583.8	583.8	i 1 i i	6.528	* ^t
PR (est)	•	•	3.28				3.01	1	11	4.500	* 1
5 I(est)	0.727				0.728		•		• •		* [
6 TZ	424.5	•	•	•	•	•	•		ADF= Q	17.148	* į
	19.924	,	•	•	•	•				14.915	*
	2.111			*	•	•				14.903	*:
	•	•	•	•		•	•			14.823	*
	0.526	-			•	•	•			17.020	*:
0 Pt	2243.2		•			•	•				*! *!
1 Pt2 /1000	5031.9	5031.9									
	•	•	•					0.0128924			* [ * [
3 Fc=FrTZ						•		•			
4 FcQm		•				•					*! *!
5 L/H(FcQm)	12.8	13.2									*! *!
	•							171.83059			* !
.7 Pw2	5038.7										*
8 Ps2	•	10519.8									* i * i
.9 Ps	3261.4										*;
0 P	2752.3				•						*
l Pr	4.12	4.11	4.03	4.02	3.90	3.89	3.74				x i
2 Tr	1.46		1.46	1.46	1.46	1.46	1.46				*
23 I	0.738					0.732	0.730	0.730	}	ORM C122	-D *;
·				-			::::::::::	=======================================		::::::::	:::::::::::::::::::::::::::::::::::::::

÷



## **Laboratory Services**

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

Mewbourne Oil Co.

Attention: Mr. R.Jones

P. O. Box 5270

Hobbs, New Mexico 88240

SAMPLE

IDENTIFICATION: Chalk Bluff #3

COMPANY:

Mewebourne Oil Co.

LEASE: PLANT:

SAMPLE DATA: DATE SAMPLED:

ANALYSIS DATE:

03-05-93

530.0

3/4/93 12:30PM GAS (XX) SAMPLED BY:

ANALYSIS BY:

LIQUID ( ) R. Jones

Rolland Perry

PRESSURE - PSIG

SAMPLE TEMP. °F

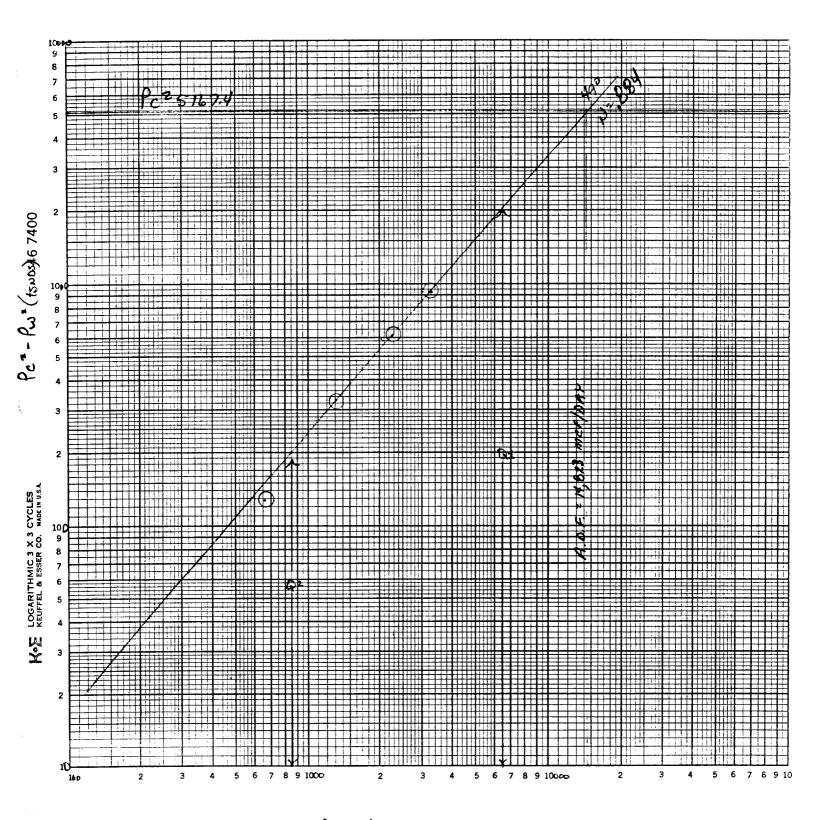
ATMOS, TEMP. °F

**REMARKS:** 

#### **COMPONENT ANALYSIS**

COMPONENT		MOL PERCENT	GPM	
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.33		
Carbon Dioxide	(CO2)	0.42		
Methane	(C1)	83.10		
Ethane	(C2)	8.14	2.164	
Propane	(C3)	3.14	0.862	
I-Butane	(IC4)	0.40	0.130	
N-Butane	(NC4)	0.86	0.270	
I-Pentane	(105)	0.39	0.140	
N-Pentane	(NC5)	0.41	0.147	
Hexane	(C6)	2.81	1.214	
Heptanes Plus	(C7+)	0.00	0.000	
•	•	100.00	4.927	
BTU/CU.FT DR	٧	1269	MOLECULAR WT.	21.1701
AT 14.650 DRY	•	1265		
AT 14.650 WET		1239	26# GASOLINE -	1.591
		1298		
AT 15.025 WET		1304		
SPECIFIC GRAVIT	Υ-			
CALCULATE MEASURE	ED .	0.731		
SPECIFIC GRAVIT	Y <b>-</b> €D	1304		

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



Q MCF/DAY

Log Q1=6500:L09=3.81291

Log Qz = 850: Log = 2.92942

5100F N=,88349 = .884

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

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

Form C-122 RECEIVED Revised 4-1-91

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

10R 0 8 1993

C. C. T.

#### MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL Lease or Unit Name Operator MEWVOURNE OIL COMPANY CHALK BLUFF FEDERAL COM. Test Date Well No. 3/4/93 X Initial _ Special Annual Elevation Unit Ltr. - Sec. - TWP - Rge. Plug Back TD Completion Date Total Depth 10102 1/16/93 10150 GL 3628' County Perforations: Set At Csg. Size 3600 10150 10.5 4.052 9950 9954 EDDY From: Tbg. Size7/8 Pool Perforations: 1.91 MORROW 2 3/8 & 9972 6.5 2.441 9972 9957 NORTH ILLINOIS CAMP From: Type Well - Single - Bradenhead - G.G. or G.O. Multiple Formation Packer Set At 9797 MORROW súbgke Reservoir Temp. °F | Mean Annual Temp. °F Connection Baro, Press - P Producing Thru 13.2 Transwestern Taps flg. % CO₂ .42 Meter Run 3.068 % H,S Prover 9950 .33 9950 .731 **FLOW DATA TUBING DATA CASING DATA** Duration Diff. Orifice Prover of Press. Press. Temp. Temp. Press. Temp. NO. Line X Flow h_ p.s.i.g. p.s.i.g. p.s.i.g. Size Size 2260 Pkr. 48 hr. SI 1 hr. 148 2230 3 X 1.500 530 1. 1 hr. 3 X 1.500 530 19 124 2180 2. 88 2100 1 hr. 3 X 1.500 535 52 3. 1 hr. 102 70 2000 540 4. 3 X 1.500 5. RATE OF FLOW CALCULATIONS Gravity Factor Rate of Flow Flow Temp. Super Compress. COEFFICIENT P_m h_wP_m Factor Ft. Fg. Factor, F pv. Q, Mcfd NO. (24 HOUR) .9248 52.12 543.2 1.170 1.043 655 11.131. 101.59 11.131.170 543.2 .9436 1.049 1310 2. 168.84 11.13.9741 2283 548.2 1.1701.0663. 11.13237.54 3294 553.2 .9905 1.170 1.075 4. 5. 23.63 P, T, Z Mcf/bbl. Gas Liquid Hydrocarbon Ratio_ Temp. º R NO. 57.0 A.P. L Gravity of Liquid Hydrocarbons_ .52 919 .81 608 1. 731 <u>XXXXXXXX</u> Specific Gravity Separator Gas_ 909 .81 584 1.46 2. G Mix .849 XXXXX Specific Gravity Flowing Fluid 548 .880 1.37 .82 3. 664 P.S.I.A. Critical Pressure P.S.J.A 865 .83 530 1.32 4. 401 441 Critical Temperature 5. 2273.2 5167.4 $P_c^2 - P_w^2$ P_ 2 $P_{t}^{2}$ P__ NO. 128.6 2244.7 5031.9 5038.8 4810.1 2199.5 4837.6 329<u>.8</u> 2. AOF = Q4465.6 2132.7 4548.6 618.9 3. 4053.9 2055.4 4224.8 942.6 4. 5. .884 14,823 Angle of Slope ⊖_ Slope, n Mcfd @ 15.025 Absolute Open Flow 13.3 BBLS CONDENSATE PRODUCED DURING TEST Calculated By: Checked By: Approved By Division Conducted By: PRO WELL TESTERS KS KS

Form 3160-5 (June 1990)

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

N.M. Oil . TS Division FORM APPROVED Budget Bureau No. 1004-0135

Expires: March 31, 1993

-9824	Designation	and	Serial	No.
	NM 05	573	71	

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
"A DDLICATION FOR DERMIT" for such proposals

SUBMIT IN TRIPLICATE

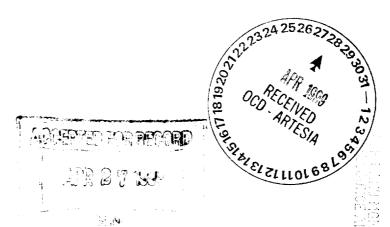
6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

_\v	Oil Gas Vell Well Other	8. Well Name and No.  Chalk Bluff Fed. <del>Comm.</del> #3	
	of Operator 1/ ourne Oil Company		9. API Well No.
	s and Telephone No.		30-015-27163
	Box 5270, Hobbs, NM 88241 505-393	3-5905	10. Field and Pool, or Exploratory Area
	n of Well (Footage, Sec., T., R., M., or Survey Desc	cription)	N. Illinois Camp Morrow
1980'	FSL & 990' FEL of Section 1, T18S, R2	7E	11. County or Parish, State
			Eddy
			,
12.	CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, RE	
12.	CHECK APPROPRIATE BOX(s)  TYPE OF SUBMISSION	TO INDICATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
12.		TYPE OF A	PORT, OR OTHER DATA
12.	TYPE OF SUBMISSION	TYPE OF A  Abandonment  Recompletion  Plugging Back	PORT, OR OTHER DATA  ACTION  Change of Plans
12.	TYPE OF SUBMISSION  Notice of Intent	TYPE OF Abandonment Recompletion	PORT, OR OTHER DATA  ACTION  Change of Plans  New Construction Non-Routine Fracturing

directionally drilled, give subsurface locations and measured and true vertical depths for all markders and zones pertinent to this work.)*

Add Morrow perforations 9860' to 9870'.



ORIG. SGD.) GARY GOURLEY

14. I hereby certify that the foregoing is true and correct Signed	Title	District Manager	Date	04/15/99
(This space for ederator State office use)  Approved by Conditions of approval, if any:	Title		Date	

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

30-015-27163

**⊗ ESSELTE** 

MADE IN U.S.A.

NO. R753 1/3

R-9760 SD + NSL 11-4-92

1-21-93 Spectral Dimoity Dual Spaced Mustron 63651-84671 400'- 10,100'

Comp. Sonic Log.

Dual renduction Lateralg

Qual Lat. 63651-84671 8968'-10,143'

MSY Jamma Collar CBL Log 1340' - 10,069'

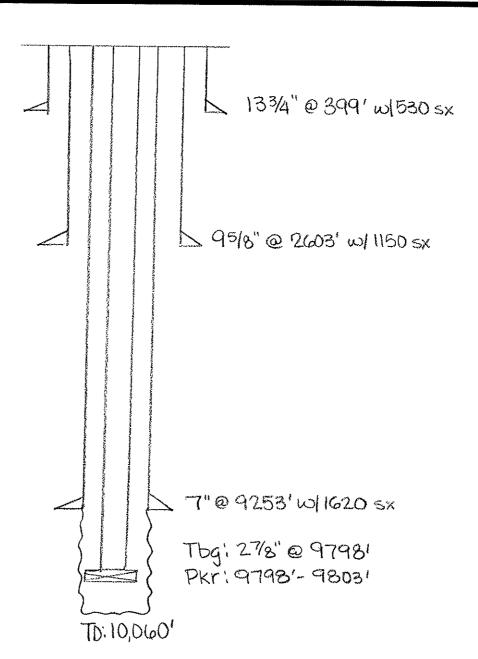
NSL- R-9760



# NAVAJO REFINING COMPANY, L.L.C. Map ID No. \OO Artificial Penetration Review

OPERATOR Membourne Oil	STATUS ACTIVO
LEASE Chark Bluff 36 State	LOCATION Sec. 36-T   75-R27E
WELL NUMBER	MUD FILLED BOREHOLE NA
DRILLED 3/30/93	TOP INJECTION ZONE356/'
PLUGGED NA	API NO30-015- 27286

REMARKS:



### **MAP ID NO. 100**

### MEWBOURNE OIL CO. CHALK BLUFF 36 STATE NO. 001

API NO. 30-015-27286

OCRID # 14744

PROP # 7871

POOI # 96960

Oxford®

₩ ESSELTE

MADE IN U.S.A.

NO. R753 43

4-15-93
Dual Spaced
Neutron Log
Suy-92421
9370'-10,059
Comp. Sonic Log
1220'-9240'
Dual Lat.
2598'-9275'
9310'-10,059'

DHC-2464 Ato 100% NSL-R-9815 Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies

#### State of New Mexico E y, Minerals and Natural Resources Departmen.

Form C-101 ( Revised 1-1-8	15 m
-------------------------------	------

Form C-10; Revised 1-1-8	SUS P

rec Deast - 5 copies	OH	CONSERVATIO	N DIVICION		
DISTRICT I P.O. Box 1980, Hobbs, NM	<b>. 88</b> 240	P.O. Box 208	88	APi NO. (assigned by OX 30 - 015 - 27	
DISTRICT II P.O. Drawer DD, Artesia, P		Santa Fe, New Mexico		5. Indicate Type of Leas	TTATE X FEE
DISTRICT III 1000 Rio Brazos Rd., Azzen	c, NM 87410		0.63	6. State Oil & Gas Leas E-379-4	PNo.
APPLICAT	ION FOR PERMIT	TO DRILL, DEEPEN, O	OF PING BACK		
1a. Type of Work:				7. Lease Name or Unit	Agreement Name
b. Type of Well:	. X RE-ENTER		PLUG BACK		
OF GAS MEIT X	OTHER	SINCLE ZONE	MULTIPLE 20NE	Chalk Bluff	"36" State
2. Name of Operator	/			8. Well No.	
Mewbourne Oi	1 Company			9. Pool name or Wildcat	
3. Address of Operator P.O. Box 527	0 Hobbs, New I	Mexico 88241		/	p Morrow North
4. Well Location Unit Letter			Line and 6	60 Feet From The	South Line
				<del>-</del>	
Section 36	Town	ahip 17S Ra	nge 27E 1	NMPM	ddy <b>County</b>
		10. Proposed Depth	11. F	<b>Formation</b>	12. Rotary or C.T.
		10,300'		Morrow	Rotary
13. Elevations (Show whether 3635 G.R.	er DF, RT, GR, etc.)	14. Kind & Status Plug. Bond Blanket on file	15. Drilling Contractor WEK Drill		Date Work will start 31, 1993
17.	PF	ROPOSED CASING A	ND CEMENT PROGR	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT		SACKS OF CEMENT	
17-1/2"	13-3/8"	48#	400'-	<del>                                     </del>	Circ.
12-1/4"	9-5/8"	36#		700 sks.	<u>Tie back into su</u> r
8-3/4"	5-1/2"	17#	10,300'-	600 sks.	Bring above top of Abo
Mud Program:					post 20-1
					1-12-93
0' - 400'	Spud mud w/fre	sh water gel, LC	M as needed.		JENLOS FART
400' - 6,600'	rresh water ge	<pre>1 &amp; lime. LCM a lime for pH con</pre>	s needed. two1 WI-NC		
,600' - 9,200' 200' - 10 300'	Cut brine with	ispac, salt gel,	lime soda ash	and starch. Wi	5. 9.2-9.6 npg.
,200 - 10,300	WL 10 cc or le	ss, Vis. 32-36.	Raise wt. accor	rdingly if abnor	rmal pressures
	are encountere	_		•	•
BOP Program:					* 1 11 1
	1500 Series Do	uble Ram Hydraul	ic BOP W/900 Se	ries Hydril from	n Intermediate
		900 Series Hydri d-gas seperator,			
Gas is not dedic	•	d-gas seperator,	rotating nead	Trom Norreamp Co	, 1.0.
IN ABOVE SPACE DESC	CRIBE PROPOSED PROG	RAM: IP PROPOSAL IS TO DEEPE	IN OR PLUG BACK, GIVE DATA OF	PRESENT PRODUCTIVE ZONE A	NO PROPOSED NEW PRODUCTIVE
		te to the best of my knowledge and	belief.		
SIGNATURE S	Il tren	e	Drilling Sup	erintendent	01/18/93
	ill Pierce			TE	(505) LEPHONE NO. 393–5905
(This space for State Use)	1010		he land		1-19-93
APTROVED BY	h hlly	π	Lesgut	DA	TE 17/1 12

NSC # R-9815

CONDITIONS OF APPROVAL, IF ANY:

NOTIFY N.M.O.C.D. IN SUFFICIENT TIME TO WITNESS CEMENTING THE

APPROVAL VALID FOR PERMIT EXPIRES 7-11-13 UNLESS DRILLING UNDERWAY Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

#### State of New Mexico unergy, Minerals and Natural Resources Departs.

Lota Col Revision Library

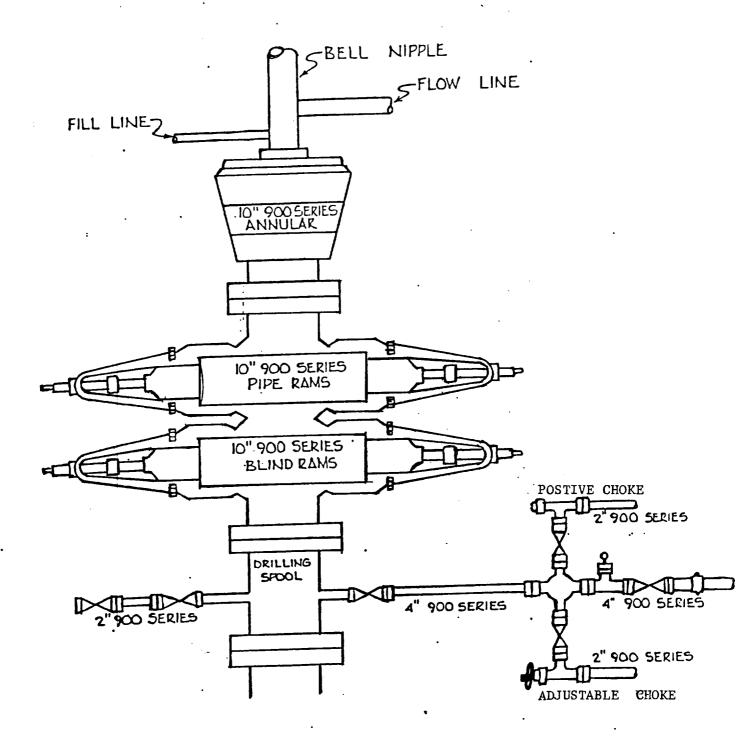
<u>DISTRICT |</u> P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISIO:
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

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

				Lease				Well No.	<del></del>
Operator					חדניים ה	C CONTROL		1	
	OIL COMPANY			Range	טבטבד 3	6 STATE	County	L	
Unit Letter	Section	Township	F77.7	1 -	CT		EDDA		
M	36	17 SOUT	LH	27 EA	<u>101</u>	NMPM	լ բորլ		
Actual Footage Loca		~~		(60			the SOUTH	line	
990.	feet from the W	EST g Formation	line and	660   <b>Pool</b>		leet from	Int POOTU	Dedicated Ac	reage:
Ground level Elev.		<del>-</del>		1	C= · ·	Massas Mes	a+b	320	•
3635	Morrow the acreage dedicate	d an ab a such to sa service	hu salemá s	I IIIno	s camp	Morrow No	<u>'' [ [ ]                               </u>	340	Acres
2. If more	than one lease is dec	licated to the well, o	outline each and	l identify the own	nership thereo	f (both as to work			
	than one lease of dif		dedicated to the	well, have the i	nterest of all o	wners been consc	lidated by com	nunitization,	
	tion, force-pooling, et	c.? ]No If ans	rouprig Huasi tu	pe of consolidation	om Com	munitizat	ion		
[X] If answer	Yes is "no" list the owner	n and tract descripti	ons which have	actually been or				· ·- ··	
this form	if necessary						•		<del></del>
No allows or until a	able will be assigned non-standard unit, eli	to the well until all minating such intere	interests have b est, has been ap	een consolidated proved by the Di	(by community	tization, unitizatio	n, forced-poolin	g, or otherwise,	) 
			<u> </u>			<del></del>	OPERAT	OR CERTI	FICATION
	!		<u> </u>		i I		I hereby	certify that	the information
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					ļ		best of my know	reage and being	<b>y</b> .
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	j.				١.		Printed Name	1 / July	- ce
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<b></b>	;		†·		r		<u>Bill Pier</u> Position	<u>·ce</u>	
	i				İ		Drilling	Superint	endent
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	i				i ·		Mewbourne	oil Con	pany
	i				i		Date		
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		and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same 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Mewbourne Oil Company Chalk Bluff "36" State #1 660' FSL & 990' FWL Section 36-T17S-R27E Eddy County, New Mexico Lease Number E-379-4

	·	·				API	30-015	- d / d/K/	6
Operator Mey	Lourn	e Oil Co.	Lease	lk Bl	ull	"36" St	.Well #	<i>ان</i>	
Location of Well	Unit M	Section 36		Towns!	ιip	Range 27	County	ilu_	
Drilling Contractor	WEK	Drilling		Туре	of R	Equipment olary			
		APPROV	ED CASI	NG PRO	)GR AI	M.			
* Witnes			:			<u> </u>			
Size of Hole	e Size	of Casing	Weigh Foo	t Per	Ne	v or Used	Depth	Sacks	Cement
171/2	× 1	3 3/8	L	18#			400±	400	Circ
121/4	0	15/8	3	36#		·	2600±	700	Surf
8 3/4		5 1/2	)	7#			10,300±	600	Top
Casing Data							,		of ABO
Surface	joints			7.				<del></del>	
Inspected by	, m (c		red) (Re				(no 0 -	a 2	··
Cementing P		2	· · · · · · · · · · · · · · · · · · ·	<u>: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : _ : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : </u>		date_ <u>_</u>	7 <u>9 1)</u> 3 7	1 3	<del></del>
Size of hole		Size of (	Casing )	33/8" \$	Sack	s coment	reguired		
Type of Sho							_		
TD of hole	<u>100'</u> S	et <u>400</u> Fee	t of 133	6"Inch	48	♯ Grade	4-40	/ 	
New-used cs	g. @ 400	with 200	) Joces :	icks ne	eat E 61	cement ar	ound sho	е	
+ <u>λ30</u> s. Plug down @	8:45	(AM) (PM)	_additiv	JA0.	3 - 1	(e18,5#9)1	sonile, K.	occ	
Cement circ							*		
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Casing test	@	(AM) (F							
Method Used					esse	d by			
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Method used_						d by			
Remarks: 💥 (	Tement t	ell back A	fter Plu	Down				······································	
<u> </u>	Ready Mixe	ed cmt top	to 5011	face 2	YAr	ds.			· · · · · · · · · · · · · · · · · · ·
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4 centraline	r <b>s</b> ´						Lost circ	. D 3	49'

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

Form	C-103
Revis	ed 1-1-9

Form	C	-10	3
Revis	ed	1-1	<b>.</b>

DISTRIC	$\mathbf{II}$			
P.O. Box	1980,	Hobbs,	NM	88240

OIL CONSERVATION DIVISION P.O. Box 2088

WELL API NO. 30-015-27286

TRICT II J. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	87504-2088 - 1003	5. Indicate Type of Lease
·	· ·	B 5 9 1993	STATE FEE
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410		a C D.	6. State Oil & Gas Lease No.
		J	E-379-4
SUNDRY NOTICE	S AND REPORTS ON WEL	LS	
( DO NOT USE THIS FORM FOR PROPO	SALS TO DRILL OR TO DEEPEN	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVO	NR. USE "APPLICATION FOR PEF I) FOR SUCH PROPOSALS.)	imi i	
1. Type of Well:	11.0.1.0001111101.001.001		-
OIL GAS WELL WELL	OTHER		Chalk Bluff "36" State
2. Name of Operator	<u> </u>		8. Well No.
Mewbourne Oil Company			-1
3. Address of Operator			9. Pool name or Wildcat
	s, New Mexico 88241		Illinois Camp Morrow North
4. Well Location			
Unit Letter M :990	Feet From The West	Line and 660	Feet From The South Line
Onit Letter	Total Inc.		<del></del>
Section 36	Township 17S Ra	nge 27E	NMPM Eddy County
	10. Elevation (Show whether	DF, RKB, RT, GR, etc.)	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>
	3635		<u> </u>
11. Check Ap	propriate Box to Indicate I	Nature of Notice, R	leport, or Other Data
NOTICE OF INTE			SEQUENT REPORT OF:
1101102 01 11112			
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLIN	G OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND C	EMENT JOB
OTHER:		OTHER:	
12. Describe Proposed or Completed Operation	ns (Clearly state all pertinent details, ar	rd give pertinent dates, incli	uding estimated date of starting any proposed
work) SEE RULE 1103.	14 Co Dia #2 Co.	iddad 17 1/2" s	urface hole @ 6:00 P M MST.
2-2-93: MIRU WEK Dril	ling to. Rig #2. Spt	Judea 17 1/2 3	urface hole @ 6:00 P. M. MST.
2-3-93: Drilled 17 1/	2" surface hole to 40	00' K. B. Ran	9 jts. of 13 3/8", 48#, J-55, S
	was computed w/100 sl	ks of Class "C	" containing lu#/sk. Cal-Seal +
$E = E + I_0 + Cilconito + 1/24$	$\{I_{ck} \in F]_{ccele} + 2\%$ (a)	CL_ tollowed by	230 Sacks of Class C Lite Co
	A 1 6#/6V [-1][CODITO	+ /%   4      (4	TIEN IN WILL TOO SOCKS OF CEUSS
UCH Noot containing 2%	Laci billa domo to	- 3531 @ 6145 AM	. Mal. Circulated an agena of
coment to the nit Com	ent toh witnessed by	Mike Studdleti	eld W/ MMUCD OILICE IN Arcesia.
Coment clurry volume for	ir lead cement was 589	U cu. tt. Slur	ry volume for tall cement was
260 ou ft Total cluy	erv volume was 848 cu	. ft. Compress	ive strength for tall slurry is
1250 nci in 12 hrs @ 7	no F Estimated for	mation temperat	ure is bor r, estimated sturry
temp was 70° F. NU BO	P and $WOC$ 13 1/2 hrs	. Pressure tes	ted blind rams, pipe rams and
casing to 600# each for	· 30 min. w/rig pump.	All held O. K	•
-			
I hereby certify that the information above is true as	nd complete to the best of my knowledge and	l belief.	
(001)		ne Drilling Sup	erintendent pare 2/4/93
SIGNATURE SIGNATURE	<u>шиск</u> п	TE DITTING SUP	505
TYPE OR PRINT NAME Bill Piero	~ <u>~</u>		<b>TELEPHONE NO.</b> 393-5905
TYPE OR PRINT NAME BILL PIECE	<u></u>		
his space for State Use)			FEB 1 5 1993

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

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## State of New Mexico

Energy, Minerals and Natural Resources Department Revised 1-1-89 District Office OIL CONSERVATION DIVISION DISTRICT I WELL API NO. P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 30-015-27286 Santa Fe, New Mexico 87504-2088 TRICT II 5. Indicate Type of Lease .J. Drawer DD, Artesia, NM 88210 STATE FEE L T B 0 9 1993 DISTRICT III 6. State Oil & Gas Lease No. 1000 Rio Brazos Rd., Aztec, NM 87410 E-379-4 O. C. D. SUNDRY NOTICES AND REPORTS ON WELLS ( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Chalk Bluff "36" State WELL OTHER 8. Well No. 2. Name of Operator Mewbourne Oil Company 9. Pool name or Wildcat 3. Address of Operator Illinois Camp Morrow, North Hobbs, New Mexico 88241 0. Box 5270 Well Location South 660 : 990 Feet From The West Line and Feet From The Unit Letter _ 27E Eddy County **NMPM** 17S Township Range 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3635' GR Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data 11. SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: **ALTERING CASING** PLUG AND ABANDON REMEDIAL WORK PERFORM REMEDIAL WORK PLUG AND ABANDONMENT COMMENCE DRILLING OPNS. **CHANGE PLANS** "IPORARILY ABANDON CASING TEST AND CEMENT JOB **PULL OR ALTER CASING** OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. 2-7-93: Drilled 12 1/4" Intermediate hole to 2603' K.B. Ran 58 jts. of 9 5/8", 36#, J-55, new LS casing and set @ 2603' K. B. Howco cemented w/950 sks. of Class "C" Lite containing 1/4#/sk. flocele + 8#/sk. salt followed by 200 sks. of Class "C" Neet cement containing 2% CaCl₂. Plug down to 2557' @ 6:15 P.M. MST 2-7-93. Circulated 50 sacks to pit. Lead slurry weighed 13.8#/gal. and yield was 1.66 cu. ft./sk. Slurry volume was 1520 cu. ft. Tail slurry weighed 14.8#/gal and yield was 1.36 cu. ft./sk. Slurry volume was 268 cu. ft. Total slurry volume was 1,754 cu. ft. Compressive strength for tail slurry is 1350 psi in 12 hrs. @ 70° F. Estimated formation temp. is 75° F, estimated slurry temp. was 72° F. WOC 12 hrs. NU BOP and pressure tested blind and pipe rams, and casing to 1,000# for 30 min. w/rig pump. All held 0. K. TIME Drilling Superintendent SIGNATURE -505

his space for State Use)

TYPE OR PRINT NAME

APPROVED BY

ORIGINAL SIGNED BY

MIKE WILLIAMS

SUPERVISOR DISTRICT IF THE

FEB 1 5 1993

TELEPHONE NO. 393 - 5905

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

Form C-103 Revised 1-1-89

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

## OIL CONSERVATION DIVISION P.O. Box 2088

WELL API NO. 30-015-27286

		00004 0000	30-013-27280
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico		5. Indicate Type of Lease  STATE  FEE
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	19AR 24 1993		6. State Oil & Gas Lease No. E-379-4
	<del></del>	C. D.	
SUNDRY NOTICE	S AND REPORTS ON	ELL® S	
( DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVO (FORM C-10	OSALS TO DRILL OR TO DEEPE DIR. USE "APPLICATION FOR P 1) FOR SUCH PROPOSALS.)	IN OH PLUG BACK TO A	7. Lease Name or Unit Agreement Name
1. Type of Well: OIL GAS WELL WELL	OTHER		Chalk Bluff "36" State
2. Name of Operator			8. Well No.
Mewbourne Oil Company			1
3. Address of Operator			9. Pool name or Wildcat
	Mexico 88241		Illinois Camp Morrow, North
Unit LetterM : 990	Feet From The West	Line and660	Feet From The South Line
Section 36	Township 17S		NMPM Eddy County
	10. Elevation (Show whether		
Check An	propriate Box to Indicate	Nature of Notice, R	leport, or Other Data
NOTICE OF INTE		SUB	SEQUENT REPORT OF
NOTICE OF INTE	NTION TO.	302	OLGOLITI TILI OTTI OTT
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	
PULL OR ALTER CASING		CASING TEST AND C	
OTHER:		OTHER:	
12. Describe Proposed or Completed Operation work) SEE RULE 1103.			
2-24-93: Drilling 8 3/4	4" production hole.	Lost complete r	eturns (8250). Spotted mud pills
1 11 1 1 1 1 0 a a a la com	mant nlua Dagainec	l nartial returns	
	ハー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	AT NAW /N# N=XL	I /" API CASING AND SEC & JEJJ .
261 aff of	hattam Camented la	ct stade by Howco	NW/535 SACKS OF Class "H" Containing
- 1 0 CCEAL and cincula	tad 6 hrs Comented	i zna stade w//bu	I Sacks of Class in Lite Concaining
	ad hu 22k cacke of	TIACC "H" CONTAI	NING 0#/SK. SILICALICE
-3 3 . Co/ Unlad 222	Dlug down to 6654	' 0 5 HI PM 3-5-5	13. LiftCulated 30 Sacks to the pic.
a i i - aamant olivaviii	waidhad IA X#/Aal N	with a vield of i	1.55 Cu.   L./Sk.   Dual Slully Vol
010 cu f+ DUT	by loge was 123° F	ESTIMATED SIUY	rry Leilin. Mas 13 I. Collibi essive
	00E not in 12 hrs	2nd Stade Lea	an cement Sintry Vieta was 1.00 ca.
strength of cement was 2	old for clumpy was	1387 Cu ft Tai	il cement slurry yield was 1.75 cu.
ft./sk. @ 12./#/gal. Yiel ft./sk. 13.6#/gal. Yiel	d was 586 cu. ft.	Total slurry volu	ume was 1973 cu. ft. Estimated
I hereby certify that the information above is true a	nd complete to the best of my knowledge	and belief.	
12 90 47	rence	Drilling Sur	perintendent 3-22-93
SIGNATURE	- CC - T	111LE	

Bill Pierce TYPE OR PRINT NAME

TELEPHONE NO. 505 393-5905

(This space for State Use)

APPROVED BY-

ORIGINAL/SIGNED BY

MIKE WILLIAMS

SUPERVISOR, DISTRICT IT

APR 5 1993

CONDITIONS OF APPROVAL, IF ANY:

1

Ŧ,

formation temp. was  $100^\circ$  F, estimated slurry temp. was  $72^\circ$  F. Compressive strength for 2nd stage lead slurry in 12 hrs. was 1600 psi and tail slurry was 1900 psi. WOC 24 hrs. Drilled out D. V. Tool, float collar, and 1/2 of shoe joint. Pressure tested casing, blind rams, and pipe rams to 2,000# for 30 min. Held 0. K.

**NACESTA ALEMAND DE** SALA POJ LA LOVE ALA SALA POJE POJE PODE P

### Submit 3 Copies to Appropriate District Office

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

Form C-103 Revised 1-1-89

חוכתפוכד ו

OIL CONSERVATION DIVISION WELL APLNO

P.O. Box 1980, Hobbs, NM 88240	P.O. Box 2088	3	20 015_27286
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico 8	37504-2088	30-015-27286  5. Indicate Type of Lease
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410		100 (27 100	STATE FEE  6. State Oil & Gas Lease No.  1. E-379-4
			<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>
( DO NOT USE THIS FORM FOR PRODIFFERENT RESE	ICES AND REPORTS ON WELL OPOSALS TO DRILL OR TO DEEPEN OR RVOIR. USE "APPLICATION FOR PER \$-101) FOR SUCH PROPOSALS.)	OR PLUG PAGE TO A	7. Lease Name or Unit Agreement Name
i. Type of Well: OIL GAS WELL WELL	OTHER		Chalk Bluff "36" State
2. Name of Operator			8. Well No.
Mewbourne 011 Compar  3. Address of Operator	<u>ıy</u>		9. Pool name or Wildcat
P.O. Box 5270 Hobbs	New Mexico 88241		Illinois Camp Morrow-North
4. Well Location  Unit Letter M : 99		Line and660	Feet From The South Line
Section 36	Township 17S Ran	nge 27E ]	NMPM County
Section 36	10. Elevation (Show whether I		
	/////\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	T. CAT.: D	Other Date
	Appropriate Box to Indicate	Nature of Notice, Ko	SEQUENT REPORT OF:
NOTICE OF IN	TENTION 10:	<b>3</b> 00	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS. U PLUG AND ABANDONMENT U
PULL OR ALTER CASING		CE	MENT JOB
OTHER:		OTHER:	
12. Describe Proposed or Completed Oper work) SEE RULE 1103.			ding estimated date of starting any proposed
flush joint liner.	e @ 10,060'. Ran logs   Hung liner @ 10,057' KB lt + 5% Halad 22-A + 5% of liner @ 8439' KB. R	. Howco cement	
	,		
I hereby certify that the information above is	true and complete to the best of my knowledge and	l belief.	
Billy	ière T	ne <u>Drilling Su</u>	pt. 03/22/93
SKINATURE R:11	Pierce		TELEPHONE NO. 393-590
TYPE OR PRINT NAME			

ORIGINAL SIGNED BY APR ... 5 1993 (This space for State Use) MIKE WILLIAMS - DATE -SUPERVISOR, DISTRICT IT CONDITIONS OF APPROVAL, IF ANY:

<b>SEC</b> 36	THE T	mee 27			API #	30-015-27286
				· :	• •	
	:				•	
OPERAT	OR MBA	BOURNE OIL CO				• · · · · · · · · · · · · · · · · · · ·
	(A	- 1 CT#				
WELL N	AME CHIL	- ALUFF 36 ST#				
				*		a>
STATE	OCD TOPS	AS PER M				DATE 4-23.03
						•
				,		
				·	•	
_		a. Marian			BT 15	stern New Mexico
	theastern	New Mexico	רונה		MOLITIME	
Anhy		T. Canyon -	8850	T. Ojo Alamo		T. Penn. B
Sait		T. Strawn	9380	T. Kintand-Fruit		T. Penn. "C"
Sait		T. Atoka	10040	T. Picarred Cliffs		T. Penn. 'D'
Yates	358	T. Miss	10070	T. Cliff House_		T. Lezdville
7 Rivers	464	T. Devonian		T. Menetee	·	T. Madison
Queen	1008	T. Silmian		T. Point Lookou		T. Elbert T. McCracken
Grayburg	1360	T. Momoya	<del></del>	T. Mancos		
San Andres	1785	T. Simpson		T. Gallup		T. Ignacio Otzne
Gloriera	3155	T. McRee		Base Greenborn		T. Granite
Paddock		T. Ellenburger		T. Dakora		<u> </u>
Blinebry		T. Gr. Wash		T. Monison		
Tubb	4025	T. Deizware Sand		T. Todillo		!
Drinkard	4855	T. Bone Springs	9494	. T. Ennada		j
. Aba	5120	T. MARON LM				<del></del>
Walfcamp	6702	T	9674	T. Chinie		to
. Penn	8210	. T		_ T. Pennain		
. Cisco (Bough C)_		_ T		_ T. Penn "A"		
		OIL	ir gas s	ands or zon	VES	
No. 1. from						
No. 2. from				No. 4, from		
•		IMF		WATER SAN		
Inciude data on tate	ਹ <b>ਿ ਅਤਾਵਾ</b> ਜਿਹ	low and elevation to wi				

<u>feet</u>.....

feet....

REMARKS:

No. 1, from

No. 2, from

No. 3, from



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

505/623-5070 ROSWELL, NM

P. D. BOX 1498 ROSWELL, NEW MEXICO 88202-1456 505/746-2719 ARTESIA, NM

RECEIVED

March 19,1993

APR 1 5 1993

Mewbourne Oil Company P.O. Box 5270 88240 Hobbs, N.M.

RE: Chalk Bluff "36" State #1

Gentlemen:

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

Ch'appe 11 Cofftracts manager STATE OF NEW MEXICO)

COUNTY OF CHAVES

The foregoing was acknowledged before me this 19th day of March 1993 by Gary W. Chappell.

MY COMMISSION EXPIRES

October 07, 1996

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

Signature 1

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

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Per	rise.	1	-1-8

OIL CONSERVATION DIVISION

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

30-015-21200		
5. Indicate Type of Lease		3,
TATO	ne X	FEE

Engineer

Title

P.O. Drawer DD, Artesia, NM: 88210 APR 1 5 1993 6. State Oil & Gas Lease No. E-379-4 DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410 WELL COMPLETION OR RECOMPLETION REPORT 7. Lease Name or Unit Agreement Name la Type of Well: GAS WELL X DRY 🗔 OTHER OIL WELL Chalk Bluff "36" State b. Type of Completion: WORK DEEPEN BACK DIFF RESVR OTHER NEW X 8. Well No. 2. Name of Operator Mewbourne Oil Company 9. Pool name or Wildcat 3. Address of Operator N. Illinois Camp Morrow P.O. Box 5270 Hobbs, New Mexico 88241 South Line 660 Feet From The West Line and : 990 Feet From The Unit Letter _ Eddy County **NMPM** 27E Range 17S Township Section 14. Elev. Casinghead 13. Elevations (DF& RKB, RT, GR, etc.) 12. Date Compl. (Ready to Prod.) 11. Date T.D. Reached 3635' GR 10. Date Spudded 3650' KB 3635' GR 03/30/93 03/17/93 02/02/93 Rotary Tools Cable Tools 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By 16. Plug Back T.D. 15. Total Depth 10,012' 20. Was Directional Survey Made 10.0601 19. Producing Interval(s), of this completion - Top, Bottom, Name Yes 9842'-9886': Lower Morrow 22. Was Well Cored 21. Type Electric and Other Logs Run SDI-DSN. DLL-MSFL-GR, Sonic, CBL CASING RECORD (Report all strings set in well) AMOUNT PULLED **CEMENTING RECORD** HOLE SIZE DEPTH SET WEIGHT LB/FT. CASING SIZE Circulated 530 sx. Class "C" 17-1/2" 3991 48#/ft. 1150 sx. Class "C" 13-3/8" Circulated 12-1/4" 2603' 9-5/8" 36#/ft. Circulated 1620 sx. Class 8-3/4" 92531 26#/ft. TUBING RECORD LINER RECORD 24. DEPTH SET SIZE SACKS CEMENT SCREEN BOTTOM TOP SIZE 9803¹ 2-7/8-2-3/8" 225 sx. 10.057 4-1/2" 84391 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. Perforation record (interval, size, and number) AMOUNT AND KIND MATERIAL USED DEPTH INTERVAL 49 holes 4 spf 9842'-9856' 14' 80 holes 4 spf 221 9864'-9886' **PRODUCTION** Well Status (Prod. or Shut-in) Production Method (Flowing, gas lift, pumping - Size and type pump) Producing Date First Production Flowing 03/30/93 Gas - Oil Ratio Water - Bbl. Gas - MCF Prod'n For Oil - Bbl. Choke Size 150 MCF/BBL Hours Tested Date of Test 1500 Test Period 10 1/4" 24 Hours 03/31/93 Oil Gravity - API - (Corr.) Water - BbL Gas - MCF Oil - Bbl. Calculated 24 Hour Rate Casing Pressure Flow Tubing Press. 0 1500 10 Packer 1500# Test Witnessed By 29. Disposition of Gas (Sold, used for fuel, vented, etc.) Erick W. Nelson Sold 30. List Attachments 31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Date 04/05/93

Printed

Name

Erick W. Nelson

### **INSTRUCTIONS**

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or 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 tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

#### Southeastern New Mexico Northwestern New Mexico 8328' T. Ojo Alamo ___ _____ T. Penn. "B"_____ T. Canyon _ 8822 T. Kirtland-Fruitland ______ T. Penn. "C"_____ T. Salt _____ T. Strawn ____ 328 T. Atoka ____ 9380' T. Pictured Cliffs T. Penn. "D" B. Salt 10040' T. Cliff House _____ T. Leadville ____ | 464 | T. Devonian | T. Menefee | T. Madison | T. Silurian | T. Point Lookout | T. Elbert | T. Montova T. Yates T. 7 Rivers T. Oueen _____ T. Grayburg ____ 1322 T. Montoya T. Mancos T. McCracken 1784 T. Simpson T. Gallup T. Ignacio Otzte T. San Andres__ 3164' T. McKee Base Greenhorn T. Granite T. Glorieta T. Paddock T. Ellenburger T. Dakota T. T. Blinebry___ _____ T. Gr. Wash _____ T. Morrison _____ T. ____ 4028 T. Delaware Sand T. Todilto T. T. Tubb ___ 4870' T. Bone Springs _____ T. Entrada _____ T. ____ T. Drinkard T. Abo 5120' T. Morrow Lime 9494 T. Wingate _____ T. ____ T. Wolfcamp 6706' T. Morrow Clastics 9674 T. Chinle T. T. Penn 8208 T. _____ T. Permain ____ T. ___ T. Cisco (Bough C) T. Penn "A"______ T. OIL OR GAS SANDS OR ZONES No. 1, from. 9842' to 9856' No. 2, from. 9864' to 9886' No. 3, from.....to..... No. 4, from.....to.... **IMPORTANT WATER SANDS** Include data on rate of water inflow and elevation to which water rose in hole. LITHOLOGY RECORD (Attach additional sheet if necessary)

From	То	Thickness in Feet	Lithology	From	То	To Thickness in Feet
0.1	1600'	1600'	Redbed & Anhydrite			
1600'		5100'	•			
6700'	8200'	1500'	Limestone & Shale			
8200'		4001				
			· · ·			·
8600'		1100'	Lime & Shale			
9700'	9900'	200'	Sand & Shale			
9900'	10060	160'	Shale			
					·	
1			İ			

# ≥L S

### **Laboratory Services**

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Mewbourne Oil Company

Attention: Mr. Jay Prudhomme

P. O. Box 5270

Hobbs, New Mexico 88241

SAMPLE

IDENTIFICATION: Chalk Bluff 36 State #1

LIQUID ( )

COMPANY:

Mewbourne Oil Co.

LEASE: PLANT:

SAMPLE DATA: DATE SAMPLED:

ANALYSIS DATE:

PRESSURE - PSIG SAMPLE TEMP. °F

ATMOS. TEMP. °F

05-18-93 GAS (XX)

05-18-93

SAMPLED BY:

ANALYSIS BY:

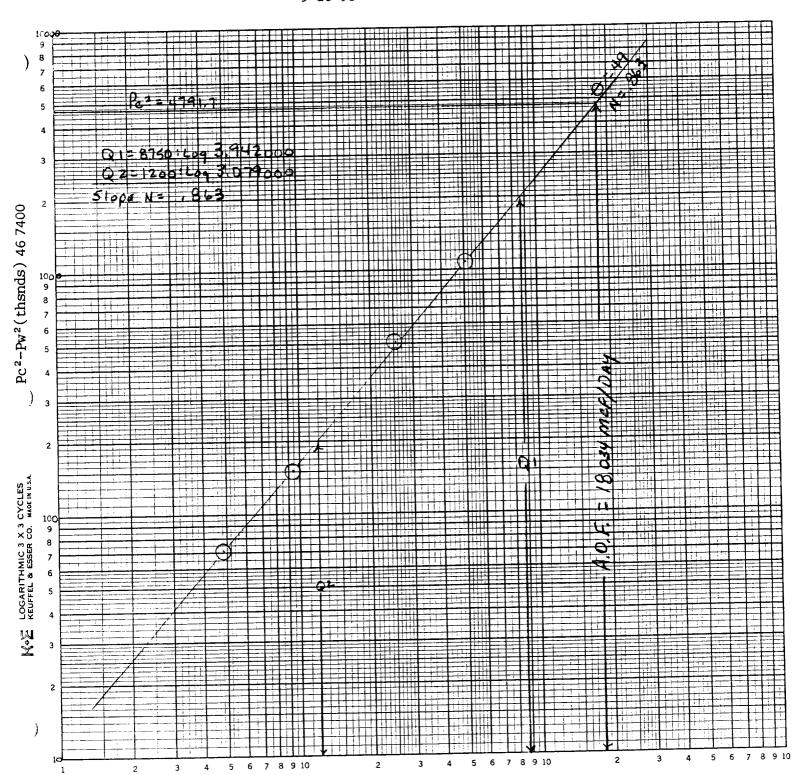
Vickie Walker

REMARKS:

### COMPONENT ANALYSIS

		MOL		
COMPONENT		PERCENT	GPM	
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.41		
Carbon Dioxide	(CO2)	0.41		•
Methane	(C1)	88.13		
Ethane	(C2)	7.02	1.866	
Propane	(C3)	2.44	0.669	
I-Butane	(IC4)	0.31	0.102	
N-Butane	(NC4)	0.59	0.184	
I-Pentane	(IC5)	0.19	0.070	
N-Pentane	(NC5)	0.15	0.055	
Hexane	(C6)	0.35	0.150	
Heptanes Plus	(C7+)	0.00	0.000	
•		100.00	3.096	
BTU/CU.FT.				
	AY Y	1135	MOLECULAR WT.	18.6894
AT 14.650 DR	Y	1132		
AT 14.650 WE		1109	26# GASOLINE -	0.337
AT 15.025 DR		1161		
AT 15.025 WE	T	1166		
SPECIFIC GRAVIT	Υ-			
CALCULATI		0.645		
MEASURI	ED			
				_

MEWBOURNE OIL COMPANY Chalk Bluff 36 State, Well #1 36-17S-27E Eddy County, New Mexico 5-18-93



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

### State of New Mexico ergy, Minerals and Natural Resources Departi

### OIL CONSERVATION DIVISION

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

RECEIVED Form C-122 MAY 2 4 1992 Revised 4-1-91

### POINT BACK PRESSURE TEST FOR GAS WELL

		MU	LTIP	INIC	AND	ONE	POIN	IDACK	FKES	John	Ilnit Name		<u> </u>		<del></del>
Operate	°MEWBOURI	VE O	IL CON	1PANY	<u></u>					Lease or Unit Name CHALK BLUFF 36 STATE					
Туре Т				1	Г	Specia				Test Dai			Well No.	1	TUD D
Compl	etion Date 3-18-93		Total D	epth 10	0060	, I	lug Back	<del>558</del> 9		Elevatio	ⁿ 3635		Unit Ltr. 36	-1 <b>%</b> -27	WP - Kge. E
Csg. Size Wt. d Set At Perforations:											County				
4½ 11.60 4.052 10012 From: 9842							9842		To: 9	856			EDDY		
Tbg. Size 2 3/8 Wt. 6.5 d 2.441 Set At 2 9688 Perforation												Pool		* ****	
7. 1/8   4./   1.J1   JOSE   FROM							From:	9864		To: 9	886		Formation	ORTH IL	LINOIS
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single								Packer Set 7	88				M	ORROW	
Produc	cing Thru R	eservoi	r Temp. º	F Me	an Annua	l Temp. ^e l	<del></del>	Baro, Press	- P	13.	2		Connec T	tion ranswes	tern
L	tbg.		Gg		% CO ₂		% N	N ₂ .41	% H		Prover	-	Meter R		Taps Flg.
986	4 H 98	64 ———		645	L	.41		•41	т	UBING	DATA	C	ASING I		T
	Prover	Orif	FLOW D		T	Diff.	-T	Temp.	Pres		Temp.	Pres		Temp.	Duration of
NO.	Line X Size	Siz			i.g.	$\mathbf{h}_{\mathbf{w}}$		at.	p.s.i.	g.	sk.	p.s.i	g.	•F	Flow
SI						<u> </u>		105	2140			Pkr.	<u> </u>		60 Min
1.		X 1.		425		15.00 57.00		105 90	2125 2100			11			60 Min
2.		X 1. X 1.		425 425		38.0		82	1990			11			60 Min
3.		$\frac{\Lambda}{X} \frac{1}{2}$		440		74.0		75	1800			11			60 Min
5.										4 TT O N					
						$\overline{}$	<u>RATE (</u> ssure	OF FLOW C	ALCUL Temp.		s ravity Factor	Super	Compress	R	ate of Flow
NO.	COEFFICIE (24 HOUR		<b>-</b>	h _w P _m	_			Fact	or Ft.		Fg.	Fact	or, F pv.		Q, Mcfd
1.	4.789		81.	07		438		.9594			1.245 1.034 1.245 1.038				
2.	4.789		158.			438		.9680					038 947		
3.	15.61		129. 183.			438 453					1.0				
<u>4.</u> 5.	21.32		103.	13	<del></del>	473	• 4	1 . 505							
	P _r	Tem	p.ºR	7	r	Z		s Liquid Hydr			62.4				Mcf/bbl.
NO.	.654	565	·	1.5		.935		P. I. Gravity of			71.E	3		777	Deg.
1. 2.	.654	550		1.4		.929	Spe	cific Gravity	-		•047	XXXX		GMIX	.693
3.	.654	542		1.4		.926		ecific Gravity tical Pressure		riuiu	670	<u> </u>	P.S.I	.a. 669	P.S.I.A.
4.	.676	535	5	1.4	38	.913		itical Tempera			372			R 388	R
5. P 2.	189.0	P_2	479	.7	,l _										2 504
	P ₁ 2	_ °	P _w	P	2	P _c - P	2 1	$\frac{P_{c}^{2}}{P_{c}^{2} - P_{c}}$	_ =	4.403		⁽²⁾ [-	$\frac{P_c^2}{P_c^2 - P_w^2}$	<b>_</b> ]	3.594
NO.		21	72.6		20.2	71.	5	$P_c^2 - P_c$	2 w			L'	P _c - P _w	<b>'</b> ] .	
$-\frac{1.}{2.}$			53.7	463	38.4	153.	3		_	n 2	<b>a</b> n 1	8 ሀ <i>ኔነ</i>			
3.		20	68.9		30.3	511.		AOF = Q	[ <u> </u>	$\frac{P_c^2}{^2 - P_w^2}$	_]	0.004			
4.		19	24.4	370	)3.3	1088.	4		P _c	- P _w	j				
5.	1		18,0	⊥ ∩34		L		fd @ 15.025	Ano	le of Slo	_{oe θ} 49	)		Slope, n	.863
Abso	olute Open Flow					Oil D			Aug				!		
Remarks: 6 BBLS of 53 Gravity Oil During Test															
	Calculated with B.H.P. Instruments.														
Appi	roved By Divisi	ion			onducted		DOME	) C	Calculat				Checke	ed By:	
1	PRO WELL TEST						ESTER	దు	KS KS						

abmit 5 Copies
appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

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

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

RÉCEIVED

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

APR 1 5 1993

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator		O INA	i tor t	OI II OIL	AND INA	OI I/IL O/	1	II API			
Mewbourne Oil Company							30	- 01!	5-2728	6	
Address			000				,. <del></del>				
P.O. Box 5270 Hobbs,	New Me	X1C0	8824	+1	The Cart	s (Piease expla	im)				
Reason(s) for Filing (Check proper box)		Change in	Traser	orter of:		e (1 sense expla	<del></del>				i
	Oil		Dry G								
Recompletion	Casinghead		Conde								
f change of operator give name											
and address of previous operator	=									· · · · · · · · · · · · · · · · · · ·	
I. DESCRIPTION OF WELL	AND LEA	SE Well No.	Pool N	leme, Includio	ng Formation		Kir	nd of L	casc	<del></del>	Lease No.
Lease Name Chalk Bluff "36" State		]	N	-	is Camp	Morrow			HXIXX R	<b>I</b>	79-4
Location	<u> </u>			<u> </u>							
Unit Letter M	990	)	Feet P	rom The	west Lin	and 660		Feet l	From The	South	Line
	170		_	07F			Eddy				County
Section 36 Townshi	<u> 17S</u>		Range	27E	, NI	MPM,	Euuy				County
III. DESIGNATION OF TRAN	SPORTE	R OF O	IL AN	ND NATU	RAL GAS						
Name of Authorized Transporter of Oil	<u> </u>	or Conder			Address (Giv	e address to wi	nich appro	wed co	py of this fe	orm is to be	sent)
Amoco Pipeline ICT											)k 74170-2
Name of Authorized Transporter of Casin			or Dry	Gas 💢		e address to wi					sent)
Transwestern Pipeline			lm			x 1188 H y connected?		hen?	exas	77231	
If well produces oil or liquids, give location of tanks.	Unuit   1 M	<b>Sec.</b> 36	Twp. 17S	1 27E	18 gas actuals	Yes	"	inem :	(	03/30/9	93
If this production is commingled with that	1				ing order num	ber:					
IV. COMPLETION DATA					- -					·	
	~	Oil Wel	i	Gas Well	New Well	Workover	Deepe	a lī	Plug Back	Same Res'	v Diff Res'v
Designate Type of Completion		nl Pandii i		X	Total Depth	I	<u> </u>		P.B.T.D.	<u> </u>	l
Date Spudded	Date Com				,	10,060'			.p.1.V.	10,0	12'
02/02/93 Elevations (DF, RKB, RT, GR, etc.)	Name of P	/30/93 roducing F			Top Oil/Gas			-1-	lubing Dep	oth	
3650' KB 3635' GR		rrow				9,842'			•	9,8	03'
Perforations								11	Depth Casis	ng Shoe	
9842'-9856', 9864'-98	86'										
					CEMENT	NG RECOF				CACYC C	EMENT
HOLE SIZE		SING & T		SIZE	<del> </del>	DEPTH SET 399		-+		SACKS CI	
17-1/2"	<del> </del>	3-3/8' 9-5/8'			<del> </del>	2603		530 sx. Class "C" 1150 sx. Class "C"			
12-1/4" 8-3/4"		<del>3-3/0</del> 7"			-	9253		1620 sx. Class "C"			
6"	<del>-  </del>	4-1/2	Li	ner		10057			225 sx. Class "H"		
V TEST DATA AND REQUE	ST FOR	ALLOW	ABL	E							
OIL WELL (Test must be after	recovery of	otal volum	e of loa	d oil and mus	t be equal to o	r exceed top all	lowable fo	this o	septh or be	for full 24	nours.)
Date First New Oil Run To Tank	Date of To	est.			PTODUCING N	sethod (Flow, p	memp, gas	iyi, <b>e</b> iC	.,	1	4-71-92
Length of Test	Tubing Pr	SALELIS		<del></del>	Casing Pres	ure		П	Choke Size	· A	prup & BK
Tenkai or 1 ew	1 SOUND LE										/ /
Actual Prod. During Test	Oil - Bble				Water - Bbi	<b>S.</b>			Gas- MCF		
						•					
GAS WELL		â			1				<u> </u>		
Actual Prod. Test - MCF/D	Length of		_		Bbls. Cond	mate/MMCF			Gravity of	Condensate	55
1500	<del></del>		4 Ho	urs	Craine D	6.6			Choke Siz		
Testing Method (pitot, back pr.)	Tubing P	ressure (Sh			_	acker			www.JL	1/4"	
Back Pressure	C 4 777C C	2700#		NICE	<del>-</del>   <del></del>						
VI. OPERATOR CERTIFIC					]]	OIL CO	NSEF	AVF	TION	DIVIS	SION
I hereby certify that the rules and reg Division have been complied with an	d that the inf	ormation g	iven ab	ove					ADD	9 @ 404	าว
is true and complete to the best of m	y knowledge	and belief.			Dat	e Approv	ed		ALK	2 6 199	<b>7</b> 3
( - //// _							<del></del>		. /	11	•
7 (W. ).	Men				- By Machel Man						
Signature Erick W. Nel	son	End	jine	er	-,	<del></del>	-		n niet	PICT II	
Printed Name		1.	Tiu	e	Titl	e <i>St</i>	JPERV	1801	ç. 1118 l	RICT II	
04/02/93	(50		3-590 elephon						<del></del>		
Date April 5, 1993			acpio	₩ 1 <b>W</b> .							

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.

District I PO Box 1980, Hobbs, NM 88241-1980

District II 811 South First, Artesia, NM 88210

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

District IV 2040 South Pacheco, Santa Fe, NM 87505

### State of New Mexico

Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION** 2040 South Pacheco Santa Fe, NM 87505

Form C-101 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

X AMENDED REPORT

APPLICA	TION I	OR PE	ERMIT		LL RE-EN		EPE	N, PLUGB	_		D A ZONE
Mewbourne 0 P. O. Box 52 Hobbs, NM	Oil Compa 70			tor Name an		,		,		2 <b>O</b> G	RID Number 14744 Pl Number
										30 - 0 15	-27286
4Property	Code				•	rty Name		· · · · · · · · · · · · · · · · · · ·			«Well No.
78	77/	С	halk Bluff	"36" State							1
					,Surface	Location					
UL or lot no. M	Section 36	Township 17S	Range 27E	Lot Idn	Feet from the 660	North/South line South		Feet from the 990	l	/West Line West	County Eddy
		,Prop	osed B	ottom F	Hole Locati	ion If Diffe	rent	From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South	line	Feet from the	East	/West Line	County
we	W C ₃Proposed Pool 1 ₁₀Proposed Pool 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
										· · · · · ·	d Level Elevation
11 <b>Work Ty</b> P			12Well Type G	Code	1	R S S			3635		
16Mu Ne	i <b>ltiple</b> D		17Propose 1006	•	₁₅For Atoka	formation 19 Contractor Key Energy Services			l .	Spud Date 9-15-99	
			21	Propose	ed Casing	and Ceme	nt F	rogram			
Hole Siz	ze	Casing	Size	Casing	weight/foot	Setting Dep	th	Sacks of Cer	nent	Est	imated TOC
17	-1/2"		13-3/8"		48#		399	530		Surface	
12	-1/4"		9-5/8"		36#	2	603		1150	Surface	
8	-3/4"	· · · · · · · · · · · · · · · · · · ·	7"		26#		253	1620		Surface	
	6"	4-1/2	2" Liner	ļ	11.6#	10	057	225		TOL @	9 8439'
Describe the blo 1) Temporal cement plug	wout prever rily abando on top.	ntion program	n, if any. U	se additional ns 9842-98	sheets if necessa	iry. 886' by setting		resent productive z it iron bridge plug			
3) File for co						Any produced f	luids '	will be diverted th	nrouah	a 5000 psi \	WP adjustable
choke to a st	teel tank vi	a 2" steel l	ines								
²³ I hereby certify best of my know			n above is	true and com	plete to the	C	IL (	CONSERVA	OITA	N DIVIS	ION
Signature:	Tseen	Elin				Approved By:		iginal sign			. GUM
Printed name:	Jerry Elgi	10				Title:	DI	STRICT H SU	PERV	ISOK	
Title: District	Manager					Approval Date:	8.	17.55	Expira	ation Date: 3	3-17-0C

District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

District II 811 South First, Artesia, NM 88210

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

District IV 2040 South Pacheco, Santa Fe, NM 87505 OIL CONSERVATION DIVISION 2040 South Pacheco

2040 South Pacheco Santa Fe, NM 87505 213 16 17 18 20

				5	anta Fe	e, Ni	M 87505	<b>★</b>	A M	MENDED REPORT	
		WEI	LL LOC	CATION	AND A	CRI	EAGE DEDIC	ATIONPLA	. (2 T		
	API Number -015-2728	6		₂ Pool Code		Nor	th Illinois Camp At	RECEIVERDOINA DKa <b>(Bas ESI) (A</b>	me (C) (A)		
4Property Code sProperty Name chalk Bluff "36" State										₀Well Number 1	
rogrid 1474		Mewbourr	ne Oil Coi	mpany	_в Оре	erator N	Name			₃Elevation 3635	
"Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East/West Lir	ne County	
М	36	178	27E		66	0	South	990	West	Eddy	
	"Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East/West Lir	ne County	
D. H. A. A. A.		-6 1610	Consolidation	n Code	15Order No.				L		
12Dedicated A 320.00	cresi 13.3011	ntorInfill 14	Consolidation	on code	15Ciuei 140.						
NO ALLOV	VABLE W	ILL BE AS	SIGNED	тотні	COMPL	ETIC	ON UNTIL ALL II	NTERESTS H	AVE BEEN	CONSOLIDATED	
16		ORAN	ON-STA	I	UNII HA	2 BE	EN APPROVE			RTIFICATION	
								I bereby certify	v that the informati	ion contained herein is my knowledge and belief	
	<i>()))))</i>	·	7777	(111/)	////	//	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	I hereby certify was plotted ind or under my si	anager  EYOR CE  y that the well loca om field notes of au upervision, and the	RTIFICATION tion shown on this plat ctual surveys made by me at the same is true and	
990'	→Q .60	(11/1/			////		//////	10-19-92 Date of Surv Signature an	ey nd Seal of Professi signed by Hers		

#### ADMINISTRATIVE ORDER DHC-2464

Mewbourne Oil Company P.O. Box 7698 Tyler, Texas 75711

Attention: Mr. K. M. Calvert

Chalk Bluff "36" State No. 1
API No. 30-015-27286
Unit M, Section 36, Township 17 South, Range 27 East, NM.
Eddy County, New Mexico.
Wildcat-Atoka (Gas –N/A), and
North Illinois Camp-Morrow (Gas – 78890) Pools

Dear Mr. Calvert:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such amendment pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated gas pool as printed in the Division's Southeast Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

Wildcat-Atoka Gas Pool	Oil-100%	Gas-73%
North Illinois Camp-Morrow Gas Pool	Oil-0%	Gas-27%

78890

REMARKS: The operator shall notify the Artesia District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 21st day of September, 1999.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

hari Wroterbery by Duc

LORI WROTENBERY

Director

SEAL

LW/DRC

cc: Oil Conservation Division - Artesia /
State Land Office-Oil & Gas Division

Submit 3 Copies to Appropriate District Office

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



Form C-103 Revised 1-1-89

<u>DISTRICT  </u> P.O. Box 1980, Hobbs, NM 88240	,	OIL CONS	ERVATI	ON DIVISION		
P.O. BOX 1900, FIODUS, NM 00240	,	204	DPacheco St.		WELL API NO.	•
DISTRICT II		San	taFe, NM 8	37505	30-015-2728	
P.O. Drawer DD, Artesia, NM 882	10				sIndicate Type of L	
DISTRICT III					01.4 07.6 0	STATE FEE
1000 Rio Brazos Rd., Aztec, NM I	37410				State Oil & Gas Le	ease No.
CLIND	OV NOTIC	SEC AND DEDOS	TO 01114E		L-3/9-4	
(DO NOT USE THIS FORM	FOR PROF	CES AND REPOR	R TO DEEDE	LLS LOP DI LIG BACK TO A		
DIFFERE	NT RESERN	OIR. USE "APPLICA	ATION FOR PE	RMIT"	i i	nk Agreement Name
	(FORM C-1	01) FOR SUCH PRO	POSALS.)		Chalk Bluff 36	State
Type of Well:	us 🗔					
WELL W	ELL 🔀	от	HER			
aName of Operator Mewbourne Oil Company	, ]				⊮Well No.	
Address of Operator				······································	Pool name or Wild	cat
PO Box 5270, Hobbs, Ne	w Mexico	88240			Wildcat Atoka	
4Well Location	660		0 41-			
Unit Letter M	660	Feet From The	South	Line and 990	Feet From The	. West Line
Section	36	Township	17s	Range 27e	NMPM	Eddy County
		ioElevation (8 3625 GL	ihow whether DF	, RKB, RT, GR, etc.)		
¹¹ C	neck Apr	propriate Box to	Indicate N	ature of Notice, Re	port or Other	Data
		ENTION TO:		1	SEQUENT R	
PERFORM REMEDIAL WORK		PLUG AND ABAN	IDON	REMEDIAL WORK		
TEMPORARILY ABANDON		CHANGE PLANS		COMMENCE DRILLING O	NDNIS -	ALTERING CASING PLUG AND ANBANDONMENT
PULL OR ALTER CASING		G P V G C T B II NO		CASING TEST AND CEM		PEGG AND ANDANDONNEN!
					LIVI JOB	5  71
OTHER:				OTHER: Test Atoka		X
12Describe Proposed or Complete work) SEE RULE 1103.	d Operations	(Clearly state all pertine	nt details, and giv	e pertinent dates, including e	stimated date of startin	ng any proposed
9-21-99POOH w/ Tbg.						
9-22-99Set RBP over M	orrow perfs	s. Perforate Atoka p	erfs @ 9466-	84. GIH w/ Pkr & tbg.		
9-24-99Acidize new Ato	ka perfs w/	3000 gals 7 1/2%	HCL adding N	N2 w/ Ball Sealers. Swal	b & Flow test.	
10-16-99Frac Atoka per 10-19-99Turn to sales.	18 W/ 30,00	o gais 70 Quality F	oam using 10	,000 ibs 20/40 interprop	D. Flow Dack & Cle	ean-up
, , , , , , , , , , , , , , , , , , , ,						
						4
					<i>i</i> 2	MIV ~ a 2
					[1]	RECEIVED
					1 2 3	OCD - ARIESIA
					\·.	MITESIA &
					r	30 a. 1.9191
						OCD - ARTESIA
I hereby certify that the information	on above is tri	ue and complete to the b	est of my knowle	dge and belief.	1	
SIGNATURE WILLIAM			т	TLE CONSU TON	+	DATE 11-01-99
TYPE OR PRINT NAME NAME	loura					505 TELEPHONE NO. 393-5905
(This space for State Use)	<del></del>		66X			
	Sim	W. Sus		1.+-1	معمد نسب مدرد	)
APPROVED BY	<del>-</del>		~ ~			
AFFROVED BI			T	TLE District S	egasi · · ·	DATE 11-5-99

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

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

WELL API NO.

Form C-105 Revised 1-1-89

### **OIL CONSERVATION DIVISION**

2040 Pacheco St. NM___87505 Santa Fe.

30-015-27286 5. Indicate Type of Lease

<u>DISTRICT II</u> P.O. Drawer DD, Artesia	a NM 88210			San	ta Fe, N	M 8	7505			STATE FEE					
	a, (1111 002 10				(1)	18792	0272	32/		6. State Oil & Gas Lease No.					
<u>DISTRICT III</u> 1000 Rio Brazos Rd, A	ztec, NM 8741	0			50		4	10,50		E-3	379-4				
WELL CO	OMPLETIC	N OR	RECOM	PLETIC	ON REPO	RT AN	ID LO	G G	1	6.5		A Control	Mari L	100 PM	
1a. Type of Well:					13	Dra	4. 3	6	2 1	7. Lease Name or Unit Agreement Name					
OIL WELL	] GA	S WELL )	DR'	(	OTHER -OC	RECE, D. AR	VED	<u>^^</u>							
b. Type of Completion:			51.110	DIE	\ 4-	יארי	TESIA		/	Ch	alk Bluff "	36" State			
NEW WORK WELL OVER		и 🔲 з	PLUG BACK X	RES	F DOTHE	:R		, V							
2. Name of Operator											/ell No.				
Mewbourne Oil Co	ompany					308	200			1			<del></del>		
3. Address of Operator											ool name or	Wildcat SE <u>a Gas Po</u>	Z poga	IN Draw	
P. O. Box 5270, H	lobbs, NM	88241								ΑÁ	IOCAL ALON	a Gas Fe	<del></del>	ALOKG	
4. Well Location					04	L			99	20		<b></b>	We	est in	
Unit Letter	<u> </u>	660	Feet From	n The	Sout	n	Lin	e and			Feet F	rom The		Line	
	20		Township	1	7S R	Range	2	7E	1	NMPN	1		Edd	y County	
Section	36	5	<u>·</u>		mpl. (Ready to						RKB, RT, GR	etc.)		. Casinghead	
10. Date Spudded	11. Date T.D. 03/19/		1 12.	09/24		. 15u.)	- 1	3635' G	-					3635'	
02/03/93	<u> </u>	lug Back			17. If Multiple C	Sompl. He	1_		nterva	ls ,	Rotary Tool	s .	Cable To	ools	
15. Total Depth 10060'	10. 7	-	780'		Many Zone	es?	NA		orilled t	Зу	>	<u> </u>	<u> </u>		
19. Producing Interval(s	s), of this comp	letion - To	p, Bottom, N	lame								20. Was Di		Survey Made	
9466-9470' & 94													No		
21. Type Electric and Other Logs Run DIL											22. Was We	II Cored	No		
23.			CASIN	G RE	CORD (	Repo	rt all	strings	set	in w	ell)				
	1 14/51/	21 T 1 D //		DEPTI			LE SIZ				ENTING R	ECORD	AN	MOUNT PULLED	
CASING SIZE 13-3/8"	WEIG	3HT LB/9 48#	F1		99'		17-1/2				30 sks Cla			None	
9-5/8"		36#			03'		12-1/4			11	50 sks Cl	ass C		None	
7"		26#			53'		8-3/4"			16	20 sks Cl	ass H		None	
							·		<u>ا</u> ۔			IDINIO E	FOOR		
24.			LINER					DEEN	-	25. TUBING R			SET PACKER SET		
SIZE	TOF		BOTTO		SACKS CEI	MENI	SC	REEN	-+		2-3/8"	_ 1	07'	9407'	
4-1/2"	8439	)'	1005	07'	225		<del></del>		$\dashv$	<u>·</u>	2-3/0	<del>                                     </del>	<u></u>	1	
	-4 (-4		number)		<u> </u>		27 4	CID S	HOT	FR	ACTURE	CEME	NT. SQ	UEEZE, ETC.	
26. Perforation reco 9466-9484', 0.4				es total	I			TH INTE			AMOUN	T AND KIN	D MATER	RIAL USED	
9400-9404, 0.4	4 entry non	e ulaine	ter, oo no	cs total				9466-9			Fractur	e stimulate	ulated with 10000# IP 20/40		
							ــــــــــــــــــــــــــــــــــــــ				<u> </u>				
28.					PRODU	<u>CTIO</u>	N					T MACONIA	Status (D	rod. or Shut-in)	
Date First Production 09/24/99		Flowi		Method (F	lowing, gas lift	t, pumpin							Pro	oducing	
Date of Test 10/18/99	Hours T	ested 24		e Size 24/64"	Prod'n For		Oil - Bi	2 2	Ga	317		Water - BbL 2		Gas - Oil Ratio 158500	
Flow Tubing Press.	Casing	Pressure		ulated 24			. 0	as - MCF		Wate	er - BbL.	Oil G	ravity - AP	1 - (Corr.) 63.8	
45		acker		Rate	2	2	Щ.	317			2	Witnessed By	<del></del>	03.0	
29. Disposition of Gas Sold	s (Sold, used fo	or fuel, vei	nted, etc.)									Miller	·		
30. List Attachments															
31. I hereby certify th				es of this	form is true an	d comple	ete to the	e best of n	ny Knoi	wiedge	and belief				
	Asm	+1	·		Printed L	erry Elg	nin.				. District	Manager	_	Date	
· /	11000	( . Xa			Name J	eny ⊏iΩ	gill !			Ti	tie			/ai6	

District I PO Box 1980, Hobbs, NM 88241-1980

District II 811 South First, Artesia, NM 88210

Previous Operator Signature

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-104
Revised October 18, 1994
Instructions on back

Title

Date

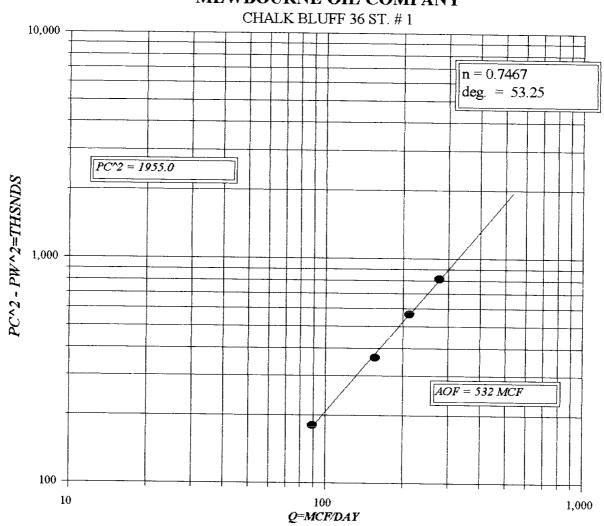
District III 1000 Rio Brazo District IV 2040 South Pa	os Rd., Azteo checo, Sant	c, NM 87410 a Fe, NM 87	505	S	040 Sout anta Fe,	h Pach NM 87	eco 505		Submit to Appropriate District Off 5 Cop MENDED REPO				
1.	RI	EQUES	T FOR ALI		LE AND	) AUTI	HORIZ	ATIC	N TO TRA		ORT O Numbe	or	
Mewbourne		oany /						}		1474	14		
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30 - 0 15-2	27 280 operty Code	······	Wildcat Atok	113as F 001	Lage.	perty Nam	· A	<u>icką</u>	, 50		10°	/elt Number	
	7871		Chalk Bluff "3	6" State		,,				Ì		1	
II. 10 S	Surface	Location	l										
Ut or lot no.	Section	Township	1 1	Lot Idn	Feet from		North/So		Feet from the		est line	County	
M	36	178	27E		660 Sou				990	w	est	Eddy	
Ul or lot no.	Section	Hole Loc		Lot Idn	Feet from	Feet from the North/South L			Feet from the	East/W	est line	County	
			1										
¹² Lse Code		ng Method C lowing	1	onnection Date	e ¹⁵ C-	129 Permi	129 Permit Number		¹⁶ C-129 Effective I	Date	17 C	-129 Expiration Date	
III. Oil aı	nd Gas	Transpo	rters		· · · · · · · · · · · · · · · · · · ·								
18 Transport OGRID	ter		¹⁰ Transporter Nar and Address	ne		20 PO	D	²¹ O/G	2	POD UL and D	STR Loc escriptio		
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192	3850												
		tion Dat		· · ·			24.00	-	29 Davidson	-4	<del></del>	MDUC DO MC	
25 Spu	d Date 13/93		²⁶ Ready Date 09/24/99		²⁷ TD 10060		2ª PB1 978	_	9466-9	ations ARA¹		™DHC, DC, MC	
02/0	31 Hole Size			sing & Tubing		$\neg$ $\bot$		Depth S			34 Sac	ks Cement	
	17-1/2"	· · · · · · · · · · · · · · · · · · ·		13-3/8"				399'	Post -	10-2		530	
	12-1/4"	*		9-5/8"				2603'	10-29-	99		1150	
	8-3/4"			7"				9253'	cemv	Ats		1620	
	6-1/8"			4-1/2"				10057'	7			225	
VI. Wel	ll Test D	ata											
35 Date N	lew Oil	³⁶ Gas	Delivery Date	³⁷ Test		3	* Test Len	-	39 Tbg. Pre			40 Csg. Pressure	
09/24		0:	9/24/99	1.0/1	8/99	_	24 hou 44 Gas		45 AO			Packer  46 Test Method	
41 Choke 24/		i	⁴² Oil 2		ater 2		317			•		Sold	
47 I hereby complied v	ertify that the	the informative decided the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control	Oil Conservation tion given above is	l Division have l	been	Approve	0	OIL CO	ONSERVAT AL SIGNED E	MIT Y			
Printed name	Jeno	Igin /			Title:								
Title: Dietr	ict Manag	er				Approva	Date:		10-27-	55			
Date: 10	/20/99	· <del>• · · · · · · · · · · · · · · · · · · </del>	Phone:	505-393-5	905								
48 If this is a c	hange of op	erator fill in ti	ne OGRID numbe	r and name of	the previous	operator							

Printed Name

U ==	COMPANI UNIT L %CO2 d	: M : 9385 : 4.586 : 1.995	%N2 Fr	SECTION 936. : 0.788 : 0.018231	36 L/H H2S GH	: : 6532.0	·	: 17 : 0.696 DATE RANGE	:10 27 99	Pt2 = 1398.2   Pt2 = 1774.8   1593.1   1388.2   1141.1	Pc2 =	*   1332.3 *   1262.5 *   1178.8 *   1069.3 *
	VOL 1 VOL 2 VOL 3 VOL 4	: 156 : 212	PSIA 2 PSIA 3	: 1332.2 : 1262.2 : 1178.2 : 1068.2			RESV.TEMP	167.9 R= 1398.2			Pw2 =	*   1775.0 *   1593.9 *   1389.5 *   1143.4 *
				PCR TCR					   	n =	0.747	*   *   *
	LINE	RATE 1		RATE 2		RATE 3		RATE 4		Pc2/(Pc2-Pw2) =	10.862 5.414	*   *
-		`1ST	`2ND	`1ST	``2ND	1ST	2ND	`1ST	`2ND	    -	3.457 2.409	1 :
1	#	0.089	0.089	0.156	0.156	0.212	0.212	0.276	0.276	1		*   *
2		534	534	534	534			534		[Pc2/Pc2-Pw2]n =	5.936	*
3		627.9	627.9	•	627.9	627.9	627.9	627.9			3.529	*
4	T	580.9	580.9	580.9	580.9	580.9	580.9	580.9	, , , , , , ,		2.525	*
	PR (est)	2.04	,	1.94		1.81		1.64			1.928	
	Z(est)	0.809	•	0.815	•	0.824	0.807	0.835			1.720	*
6	ΤZ	469.9	460.5	473.7	,		468.9			· ·	0.528	*
7	GH/TZ	13.901	14.185	13.790	14.074	13.650	13.929	13.458		•	0.551	*
8	eS	1.684	1.702	1.677	•	1.668	1.686	1.656			0.535	*
9	l-e-S	0.406	0.413	0.404	•	0.401	0.407	0.396			0.532	
10	Pt	1332.2	1332.2	1262.2		1178.2	1178.2	1068.2			*****	*
	Pt2 /1000		1774.8	1593.1	1593.1	1388.2	1388.2	1141.1	1141.1	j		*
12	Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.0182311			*
13	Fc=FrTZ	8.567	•	•	8.462	•		8.848	8.677			*
14	FcQm	0.76	0.75	,	1.32	1.85	1.81					*
	L/H(FcQm)		0.6			3.4	3.3	6.0	5.7			*
16	Fw	0.230154	0.230308	0.732800	0.714522	1.370485	1.336601	2.363611	2.3073869			*
17	Pw2	1775.0	•		1593.9	1389.5	1389.5	1143.4	1143.4			*
18	Ps2		3021.4	2673.2	2701.8	2318.3	2342.6	1894.0	1912.9			*
19	Ps	1729.0		1635.0	1643.7	1522.6	1530.6	1376.2	1383.1			*
20	P	1530.6	' '	1448.6	1453.0	1350.4	1354.4	1222.2	1225.6			*
21	Pr	2.35	٠ ,				2.08		1.88			*
22	Tr	1.52										*
23	Z	0.793	0.792	0.799	0.799	0.807	0.807	0.819	1 0010 11	70	RM C122-	
					:=======	:=======	:========	:=======	==========		=======	======*



### MEWBOURNE OIL COMPANY



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

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

Form C-122 Revised 4-1-91

#### OIL CONSERVATION DIVISION

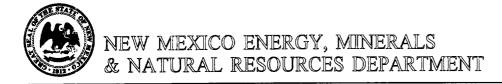
P.O. Box 2088

Santa Fe, New Mexico 87504-2088 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL Operator 1 Lease or Unit Name Mewbourne Oil Company Chalk Bluff 36 State Test Date Type Test Well No. X Initial Special 10/27/99 Annual Completion Date Total Depth Plug Back TD Elevation Unit Ltr. - Sec. - TWP - Rge. 10/16/99 10060 3563' GL 9780 36 17s 27e Perforations: Csg. Size 8439 - $\frac{4\frac{1}{2}}{\text{Tbg. Size}}$ 11.35 4.000 10060 From: 9466 To: 9484 Perforations: Set At 2 3/8 4.6 1.995 9385 From: To: Ended Illinois Camp Ittolia <u>Open</u> Type Well - Single - Bradenhead - G.G. or G.O. Multiple Packer Set At 9385 **Atoka** <u>Single</u> Connection Producing Thru Reservoir Temp. ºF Mean Annual Temp. ºF Baro, Press - P Tbg 13.2 Elk Horn % N₂ L % CO, % H,S Prover Meter Run Taps 9385 9385 0,696 4.586 0.788 3.068 FLG **FLOW DATA TUBING DATA CASING DATA** Duration Prover Orifice Diff. Press. Temp. Press. Temp. ωf NO. Temp. Press. Line h_ Flow p.s.i.g. p.s.i.g. p.s.i.g. Size Size SI 1385 24 hrs PACKER  $3.068 \times 0.875$ 28 10.00 60 1319 1 hr 11  $3.068 \times 0.875$ 27 32.00 70 1249 1 hr 11 3.  $3.068 \times 0.875$ 27 60.00 77 1165 1 hr 3.068 x 0.875 29 95.00 68 1055 1 hr 5. RATE OF FLOW CALCULATIONS Pressure Flow Temp. Gravity Factor COEFFICIENT Super Compress. Rate of Flow P_m h_P_ NO. (24 HOUR) Factor Ft. Fg. Factor, F pv. Q, Mcfd 1. 20.30 3.650 41.2 1.000 1.199 1.004 89 2. 3.650 35.87 40.2 .9905 1,199 1.004 156 3. 3.650 49.11 40.2 9840 1.199 1.004 212 4. 3.650 63.32 42.2 9924 1 199 1.004 276 5.  $P_r$ T, Z Temp. 9 R Gas Liquid Hydrocarbon Ratio_ Mcf/bbl Dry Gas NO A.P. I. Gravity of Liquid Hydrocarbons____ Deg Drv .06 520 1.36 993 Specific Gravity Separator Gas____ xxxxxxxx.06 530 993 2. 1.39 Specific Gravity Flowing Fluid _ XXXXX.993 3. .06 537 1.40 Critical Pressure * 652 P.S.I.A P.S.I.A. 4. .06 528 1.38 .993 * 381 Critical Temperature___ 5. P.2 1955_00 1398_2  $P_c^2 - P_w^2$  $P_w^2$ Ρ. NO. 1332.3 1775.0 180.0 1. 1262.5 1593.9 361.1 AOF = Q3. 1178.8 1389.5 565.5 4. 1069.3 1143.4 811.6 5. 532 53.25 7467 Mcfd@ 15.025 Slope, n Angle of Slope O Absolute Open Flow_ Well produced no fluid * Corrected to 4.586% CO2 Approved By Division Conducted By: Calculated By: Checked By:

Jarrel Services, Inc.

Bob Murray

Bob Murray



OIL CONSERVATION DIVISION DISTRICT II ARTESIA 811 S. FIRST ST. ARTESIA, NM 88210 (505) 748-1283 FAX (505) 748-9720

Jennifer A. Salisbury

January 28th, <del>1999</del> 2000 mag

Mewbourne Oil Company P.O. Box 5270 Hobbs, NM 88241

Re: Well Placed In Pool

#### Gentlemen/Madams:

As the result of Division Order 11300, the following described gas well has been placed in the pool 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.

### Logan Draw; Atoka, Southeast Gas Pool Chalk Bluff '36' State #1 Unit M, Section 36, Township 17 South, Range 27 East, NMPM Poolcode: 96979

Transporters are advised by copy of this letter, to change their records to reflect the pool name as established by this order, effective October 1, 1999.

Sincerely,

Bryan Arrant

District Geologist

Cc: Amoco Pipeline Company

Transwestern Pipeline Company

Santa Fe Mae Well File

#### District I PQ Box 1980, Hobbs, NM 88241-1980

811 South First, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

District IV 2040 South Pacheco, Santa Fe, NM 87505

### State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-101 C/S Submit to Appropriate District Office

Revised October 18, 1994 Instructions on back State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

### **OIL CONSERVATION DIVISION** 2040 South Pacheco Santa Fe, NM 87505

APPLICA	TION F	OR PE	RMIT	TO DRI	LL, RE-EI	NTER, DEI	EPE!	H-PLUGB	ACK,	OR AD	D A ZONE	
Mewbourne (	Dil Compa			tor Name and		(5)	56 ¹⁵	A 2/3	13/5/67	₂OG	RID Number 4744	
Hobbs, N.M. 505-393-590	88241	•				11-11	R	ECEIVED.	16177	_з АР 30 - 015	Number -27286	
₄Property 787		Ch	alk Bluff	36 State 1	₅Ргоря	erty Name	<i>•••</i>	ARTESIA	2/ 2/ 2/		₅Well No. 1	
					-,Surface	e Location		يا هر محمد الرازي و روجوع	<u> </u>			
UL or lot no.	Section 36	Township 17S	Range 28E	Lot Idn	Feet from the 660	North/South	line	Feet from the 990		West Line W	County Eddy	
Proposed Bottom Hole Location If Different From Surface												
UL or lot no.	Township	Feet from the	North/South	line	Feet from the	East/\	West Line	County				
	l	∍Proposed	Pool 1				1_	10Propose	ed Pool 2			
₁₁Work Ty F			₁₂Well Type G	Code		le/Rotary R		Lease Type Cod S	e	₁₅Ground Level Elevation 3625		
16 <b>M</b> L	ltiple		17Propose 940	· ·	Canyon/V	ormation Volfcamp	TBA	19Contractor		₂₀Spud Date		
<u>.</u>		<u> </u>	21	ropose	d Casing	and Ceme	ent P	rogram				
Hole Siz	že –	Casing	Size	Casing	weight/foot	Setting Dep	th Sacks of Cement			Estimated TOC		
²² Describe the p Describe the blo	roposed pro wout prever	gram. If this ntion program	application n, if any. U	is to DEEPE se additional	N or PLUG BAC sheets if necess	CK give the data o sary.	n the pro	esent productive z	one and	proposed ne	w productive zone.	
above top	perforation	ns. Cap C	IBP w/ 3	5' cement.	Attempt a co	tions. Mewbou ompletion in the he Wolfcamp (	e Cany	on @ +/- 8550	uld like )'.	to set a CI	BP 100'	
During op	erations o	of plugback	& testin	g, a 7 1/16	x 3000 psi B	OP w/ 2 3/8"ra	ams &	blinds will be u	ısed.			
²³ I hereby certify best of my know	that the info	ormation give	n above is	true and com	plete to the	Box c	OIL C	ONSERVA	OITA	N DIVIS	ION	
Signature:	11/1	J				Approved By:	OPIC	NAL SIGNE	DBY	TIM W. C	UM	
Printed name:	N.M. You	ng)				Title:	DIST	<del>(ICT II DUF!</del>	14 19 1997	- VS		
Title: District	Manager		·			Approval Date:	AU6	2 9 2001	Expirat	tion Date:	<b>AUG</b> 2 9 2002	

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

### state of New Mexico

Form C-102 Revised 1-1-83

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

DISTRICT I P.O. Box 1980, Hobbs, NM 82240

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

perator				<del></del>			· · · · · ·	Lesse	3						Well No	
MEWBOURNE	OIL	COM	PANY					CHALK BLUFF 36 STATE 1								
Juit Letter	Section	DB.		Town	ship			Rang						County	•	
M		36			17 SC	DUTH	[		27 E	AST		NMF	M	EDDY		
Actual Footage Loc								-	··········					• • • • • • • • • • • • • • • • • • • •		
990.	feet f	rom the		EST			line and		660			feet fro	om 1	the SOUTH	line	
Ground level Elev.		P	roducing	Form	tion			Pool							Dedicated	Acruage:
3635								I.	llino	is Cam	p Mo	rrow N	or	th	320	Acres
1. Outlin	e the ac	reage d	edicated	to the	subject v	well by	y colored pe	encil or l	pachure n	erks on th	e plat b	elow.				
2. If mor	2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).															
witiz	3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?    X   Yes   No															
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary.																
this form if neccessary.  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.																
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#### State of New Mexico Ene Minerals and Natural Resources Department

Form C-103

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

### OIL CONSERVATION DIVISION

2040 Pacheco St.

c15 pp	
WELL API NO.	

Revised 1-1-89

		g	Santa Fe, N	M 87	505		30-015-27286		
DISTRICT II P.O. Drawer DD, Artesia, NM 8	88210	`	Juliu i O, IV	01			sIndicate Type of Lea	ase STATE	
DISTRICT III 1000 Rio Brazos Rd., Aztec, N	<b>M</b> 87410						6State Oil & Gas Lea		FEE
61.11	DDV NOTIC	EO 41'5 5=		145					
(DO NOT USE THIS FOR	RM FOR PROP	ES AND REI OSALS TO DRI DIR. USE "APP D1) FOR SUCH	LL OR TO DEI	EPEN ( R PER	OR PLUG BAC	K TO A	Lease Name or Uni Chalk Bluff 36 S	· ·	
₁Type of Well:	,	,		<u>′</u>	· ·				
OIL WELL	GAS WELL		OTHER	-	. <u> </u>		777		
² Name of Operator Mewbourne Oil Compa	any /						₃Well No. 1		
3Address of Operator							Pool name or Wildo		
PO Box 5270, Hobbs,	New Mexico	88241					Logan Draw At	toka	
₄Well Location	600		0 41			000		\ <b>A J</b> = - ±	
Unit Letter M	: <u>660</u> F	eet From The	South		_ Line and	990	Feet From The	West	Line
Section	36	Township	178	-	ange	R28E	NMPM	Eddy	County
		₁₀Elevat 3635'	ion (Show wheth GL	ner DF, F	RKB, RT, GR, et	c.)			At Terror
11	Check App	ropriate Bo	x to Indica	te Na	ture of No	tice, Rep	ort, or Other	Data	
NOTIC	E OF INT	ENTION T	<b>O</b> :			SUBS	SEQUENT RI	EPORT OF:	
PERFORM REMEDIAL WORK		PLUG AND	ABANDON		REMEDIAL W	ORK		ALTERING CAS	ING
TEMPORARILY ABANDON	,	CHANGE P	LANS		COMMENCE	DRILLING OF	PNS.	PLUG AND ANB	ANDONMENT
PULL OR ALTER CASING					CASING TEST	AND CEME	NT JOB		
OTHER:					OTHER: PB	Atoka. Test	& plug off Canyon. T	est & Produce Wol	fcamp X
12Describe Proposed or Comp work) SEE RULE 1103.	leted Operations (	Clearly state all pe	ertinent details, a	and give	pertinent dates,	including es	timated date of startin	g any proposed	
6/28/01 POOH w/ tb Perforate Ca							PBTD @ 9365'. ⁻ Fe & ball sealers.		OK.
7/05/01POOH. RIH ( (29'. 2 spf. 58	& set 7" RBP ( 3 holes). GIH v	@ 8300'. Load v/ tbg. Acidize	& test to 100 perfs w/ 5000	00 psi. 0 gals :	OK. New PB 20% Ne-Fe 8	STD @ 830 & ball seale	are Swah toet		
7/16/01POOH w/ tes	st equipment. F	Run tbg & rods	s & put well o	n prod	uction.		/.	√2345678g	
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I hereby certify that the inform	nation above is tru	ue and complete to	the best of my	knowled	ge and belief.	<u> </u>		· · · · · · · · · · · · · · · · · · ·	<del>- M-/</del>
SIGNATURE	wee			TIT	LE District M	lanager		DATE 08-24	4-01
TYPE OR PRINT NAME N.M.	Young						···	TELEPHONE NO. 5	05-393-5905
(This space for State Use)	1								
150		NAL SIGNE NCT II SUPE						DATE SEP	[™] 6 2001
APPROVED BY				111	le			DAIE SE	

CONDITIONS OF APPROVAL, IF ANY:

### INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or 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 specific tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

#### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

**Northwestern New Mexico** 

**Southeastern New Mexico** 

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# Submit to Appropriate District Of..ce \$\frac{1}{2}\tau \text{Lease - 6 copies}\$ Fee Lease - 5 copies \text{DISTRICT I} P.O. Box 1980, Hobbs, NM 88240}

#### State of New Mexico Energy, ....nerals and Natural Resources Department

Form C-105

Revised 1-1-89

### **OIL CONSERVATION DIVISION**

2040 Pacheco St.

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	7. L	ease Na	ame or	Un	it Agree	ement	Name	•	•			
	CI	nalk Bl	uff 36	S S	tate							
	8. V	Vell No.										-
	9. F	ool nan	ne or V	Vildo	at				-			_
	Lo	gan D	raw \	Nο	lfcam	р						
99	90	F	eet Fro	om '	The		We	st		_ Li	ne	
(	NMPN	A					Eddy	,	Со	unty		
itions (l	OF & I	RKB, RT	, GR,	etc.	)	14.	Elev.	Cas	inghe	ad		-
3L								36	35'			
Interva Drilled E		Rotary	Tools			Ca	ble To	ols				_
			2	0. V	Vas Di	recti	onal S No	urve	у Ма	de		_
	Т	22. Wa	s Well	Cor	ed							-
	$_{\perp}$					No	)					
set	in w	ell)										
	CEN	MENTIN		CC	RD		AM		IT PU	LLE	D	
			sks						N/A			_
			0 sks						N/A			_
<del> </del>		102	0 sks			-			N/A			_
											_	-
1	25.		TUI	BIN	NG R	ECC	DRD					_
		SIZE		_	DEPTI			PA	CKE	R SE	Т	-
<u> </u>		2 7/8"				52			.C @			_
												_
HOT	, FR	ACTL								ETC	).	
ERVAL					D KIN							
277		5	000 g	gals	20%	Ne	Fe &	ball	seal	ers		
		<u> </u>										
		j					<del></del>					-
pump)				$\overline{}$	Well	Statu	e (Pro	od o	r Shut	-in)		_
рипфу					WEII	otatu	Proc			-111)		
Gas	- MC	F	V	/ate	r - BbL		G		Oil Rat	io		_
1	88 Wate	r - BbL.		$\stackrel{}{}$		avity	- API -					_
		78						38				_
		1	est Wit J. Ca		sed By							
.,	-											_
ny know	ledge	and bei	ief								_	_

P.O. Drawer DD, Artesia,	, NM 8821	0		Sa	nta Fe,	NM 8	37505		"		ST	TATE X	FEE	SH
DISTRICT III									6	. State Oil &				
1000 Rio Brazos Rd, Az	tec, NM 87	7410								E-379- <b>4</b>	<del></del>			
WELL CO	MPLET	TION OR	REC	OMPLET	ION REPO	ORT A	ND LOG		<i>-</i>					
1a. Type of Well: OIL WELL⊠	(	GAS WELL		DRY	OTHER		2345	6 >8	7	. Lease Name	e or Unit Agre	ement Nar	me	
b. Type of Completion:  NEW WORK WELL OVER	DEE	EPEN	PLUG BACK	∑ DI RI	FF ESVR _ OTH	(3 ³ )	<b>∱</b> _SEP **1		4	Chalk Bluff	36 State			
2. Name of Operator Mewbourne Oil Co	mpany	/	,	*	i i		RECEIVI			. Well No.				
3. Address of Operator		•				<del>} U(</del>	<del>SD - ART</del>	LSIA	: 9	. Pool name o	or Wildcat			
PO Box 5270, Hob	bs, New	/ Mexico 8	38241		``					Logan Drav	w Wolfcam	ıp		
4. Well Location					0	44-			000			184	/ <b>+</b>	
Unit Letter _	<u>M</u> :	660	_ Fee	t From The _	Sou	tn		ind	990	Feet	From The	VV	est	Line
Section	36		Town	·	· · · <del>-</del>	Range	2' 28E		NM			Edd	<del></del>	
10. Date Spudded 02/03/93		F.D. Reached 9/93		12. Date Co 07/1	ompl. <i>(Ready t</i> e 7/01	o Prod.)	1	Elevati 35' G		& RKB, RT, G	R, etc.)	14. Elev	v. Casinghead 3635'	ł
15. Total Depth 10060	16	6. Plug Back 8:	T.D. 300		17. If Multiple Many Zor		ow		ntervals Frilled By	Rotary To		Cable 7	Tools	
19. Producing Interval(s), 7164-7277	, of this co	mpletion - To	p, Bott	om, Name						<u> </u>	20. Was D	irectional No	Survey Made	!
21. Type Electric and Oth	ner Logs R	tun		-						22. Was W	lell Cored	No		
23.			CAS	SING RI	ECORD	(Repo	rt all str	ings	set in	well)			*	
CASING SIZE	W	EIGHT LB/I	т.	DEPT	'H SET	нс	LE SIZE		CE	EMENTING	RECORD	А	MOUNT PULI	ED
13 3/8"		48#		3	99'		17 1/2"			530 sk	(S		N/A	
9 5/8"		36#			903,		12 1/4"	[		1150 s			N/A	
7"		26#		92	253		8 3/4"	<del></del> -	····	1620 s	ks		N/A	
	_							-						
24.	!		LINE	R RECC	RD	L		1	25.	Т	UBING R	ECORI	)	
SIZE	TO	OP.		TTOM	SACKS CE	MENT	SCRE	EN	120.	SIZE		HSET	PACKER	SET
4 1/2"	843			10057'	225				i.	2 7/8"	73	352	TAC @ 7	190'
		<u> </u>												
26. Perforation record	(interval	, size, and i	numbe	r)			27. ACI	D, SI	HOT, F				UEEZE, E	ГС.
7164-7277'. 58.3	38" diam	eter holes					DEPTH				IT AND KIN			
							71	64-72	277	500	0 gals 20%	6 Ne-Fe	& ball sealer	<u>s</u>
					PRODU	CTIO								
28.  Date First Production 07/17/01					Flowing, gas lif			type p	ump)		Well		rod. or Shut-ii	n)
Date of Test	Hours	Tested	<del></del> -	Choke Size	Prod'n F		Oil - BbL.		Gas - N		Water - Bbi		Gas - Oil Ratio	
07 <i>/</i> 22/01		24		N/A	Test Per	riod	88		8	8	78		1000	
Flow Tubing Press. N/A	Casing	g Pressure 35		Calculated 24 Hour Rate	- Oil - Bb			MCF 88	Wa	ater - BbL. 78		ravity - AP	1 - (Corr.) 38	
29. Disposition of Gas (S	Sold, used	for fuel, ven	ted, etc	:.)						1	Witnessed By Capps	4		
30. List Attachments				· · · · · · · · · · · · · · · · · · ·										
C-103 & C104.						-1-	4- 4- 11 :	-4 . *	. t					
31. I hereby certify that is	the informa // ,	ation shown	on both	sides of this	form is true an	id comple	te to the be:	st of my	/ knowled	ge and belief			(	
Signature	M. 11/4	4			Printed N	.M. You	ing			ritle District	Manager		oate 08/24/0	)1
	7	)												

District I PO **B**ox 1980, Hobbs, **NM** 88241-1980

District II 811 South First, Artesia, NM 88210

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

Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office

OIL CONSERVATION DIVISION

1000 Rio Brazo	os Rd.,	Aztec,	<b>NM</b> 87410						ith Pach , NM 87			A	<b>(</b> ^y _		5 Copie:
District IV 2040 South Pa	checo,												\		ENDED REPOR
1.		RE	QUEST		<del> </del>		<del></del>	E ANI	D AUT	HORIZ	ATIC	ON TO TRA			
Mewbourne PO Box 52		ompa	any /	Or ا	perator nam	e and /	Address					···	1474		
Hobbs, Nev	w Mexi	co 8	8241										Reason fo	•	
												Plug I	3ack/Re		
4A 30 - 0 15-2	PI Num	ber		Loc	gan Draw	Molfo	ramn	5	Pool Name	e		•			Pool Code 960
	operty C	Code				****	ourrip.	8 Pr	operty Nan	ne			-		/ell Number
	7871			Cha	alk Bluff 3	6 Sta	te								1
. 10 5	Surfa	ce L	ocation												
UI or lot no.	Section 36		Township 17S		Range 27E	Lot Idi	n	Feet from	the	North/Sou		Feet from the 990		est line est	County Edd <b>y</b>
11	Botto	m H	lole Loc	atio	on					1		· <u>L</u>			
UI or lot no.	Section	on	Township		Range	Lot Id	n	Feet from	n the	North/Sou	uth Line	Feet from the	East/W	lest line	County
¹² Lse Code	13 Pro	-	Method Co	ode	1	7/17/0	ction Date	15 C	C-129 Perm	nit Number		¹⁶ C-129 Effective	Date	17 C-	129 Expiration Date
		as T	ranspo												
¹⁸ Transpor OGRID	ter				nsporter Na nd Address	ime			²⁰ PC	)D	²¹ O/G		22 POD UL and D	STR Loc Description	
138648	3		oco Pipelir a, Ok.	ne C	Company				19238	10	0				
990	994 Elkhom Operating Company H			y A	RCO	2829736			G	SEP MM RECEIVED 44 OCD - ARTESIA 8					
												SEP 1001 1213			
												0	RECE ICD - AI	RTESIA	1415
															301/05/
IV. Prod	uced	Wa	ter							.4.1.1.111					
	OD								24 POD UI	LSTR Locati	ion and l	Description			
1923								<del></del>	<del> </del>					· · · · · · · · · · · · · · · · · · ·	<u> </u>
	Com d Date	pleti	on Data		ady Date			27 TD	1	28 PBT	D	²⁹ Perfor	ations		30 DHC, DC, MC
02/0	3/93			07/1	17/01			10060		830	0	7164-7	277		
	³¹ Hole	Size		$\Box$	32 C	asing &	Tubing S	Size		33	Depth S	Set		34 Sac	ks Cement
	17 1	/2"	<u>,, ,</u>			13	3/8"				399'		ļ	<del></del>	530
	12 1	/4"		$\perp$		9	5/8"			······	2603'	<del></del>			1150
<u> </u>	8 3/	4"		$\perp$			7"				9253'				1620
	6 1/					4	1/2"				10057	•	<u> </u>		225
	ll Tes	t Da				.,	<u>.</u>		<del></del>					<del></del>	40.0
³⁵ Date N 07/1			ì	Deliv 7/17/	ery Date /01		³⁷ Test I 07/22			³⁸ Test Leng 24	jth	³⁹ Tbg. Pro			40 Csg. Pressure 35
41 Choke N				⁴² Ö			⁴³ Wa			44 Gas 88		45 AO	rF		⁴⁶ Test Method Pumping
	with and	i that t	rules of the the information and be	on gi					Approve	33//	ORIGI	ONSERVAT	BY TI	NW.	ON GUM
Printed name	N.I	yl. Yc	ung						Title:						
Title: Disti	rict Ma	nage	r						Approva	al Date:			SEP	Bir C.	2001
Date: 08	3/24/0	1			Phone:	505	5-393-5	905							
48 If this is a c	hange o	of ope	rator fill in th	e OC	GRID numb	er and	name of t	the previou	us operator						
		<del></del>			<del></del>										
1	Pre	vious (	Operator Sig	gnatu	ıre				Printe	ed Name				Title	Date



## NAVAJO REFINING COMPANY, L.L.C. Map ID No. \\7 Artificial Penetration Review

OPERATOR $\underline{\mathcal{M}}$	ack Enei	au Cor	ρ.
LEASE Stat	e H	UJ	
WELL NUMBER			
DRILLED 1	11108		
PLUCCED	NIQ		

STATUS ACTIVE

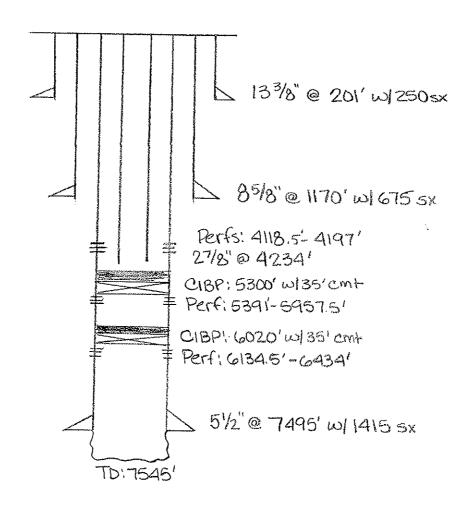
LOCATION Sec. 2 -T 18s-R27E

MUD FILLED BOREHOLE NA

TOP INJECTION ZONE ~ - 3615'

API NO. 30-015- 35814

### **REMARKS:**



### **MAP ID NO. 117**

### MACK ENERGY CORPORATION STATE H NO. 2

API NO. 30-015-35814

### State of New Mexico

Form C-101 Permit 60506

### **Energy, Minerals and Natural Resources**

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

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

1. Operator	Name and Address	2. OGRID Number		
900	NERGY CORP	13837 3. API Number 30-015-35814		
	BOX 960 A , NM 88211			
IIICIESI	11,1111 00211			
4. Property Code	5. Property Name	6. Well No.		
303847	STATE H	002		

#### 7. Surface Location

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

### 8. Pool Information

CHALL DI HEE HOLEGAMD CAC	04040
CHALK BLUFF; WOLFCAMP GAS	96963

#### Additional Well Information

	<u> </u>	THE THE THE THE THE THE THE	at vacati		
9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3590 18. Spud Date 9/20/2007	
14. Montiple N	15. Proposed Depth	16. Formation Wolfcamp	17. Contractor		
Depth to Ground 50	Water	Distance from nearest fresh water	well	Distance to nearest surface water	
it: Liner: Synthetic Closed Loop System	mils thick	Clay Pit Volume: bbls		Diesel/Oil-based Gas/Air	

19. Proposed Casing and Cement Program

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

### Casing/Cement Program: Additional Comments

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

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

of my knowledge and belief.	ation given above is true and complete to the best. Hing pit will be constructed according to	OIL CONSERVATION DIVISION  Approved By: Bryan Arrant				
	neral permit , or an (attached) alternative					
Printed Name: Electroni	cally filed by Jerry Sherrell	Title: Geologist				
Title: Production Clerk		Approved Date: 9/19/2007	Expiration Date: 9/19/2008			
Email Address: jerrys@:	mackenergycorp.com	0 W.T.S	:01 :20 :			
Date: 9/11/2007	Phone: 505-748-1288	Conditions of Approval Attached				

#### District I

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

District I

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

District III

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

District IV

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

### State of New Mexico

Form C-102 Permit 60506

### Energy, Minerals and Natural Resources Oil Conservation Division

1220 S. St Francis Dr. Santa Fe, NM 87505

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

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

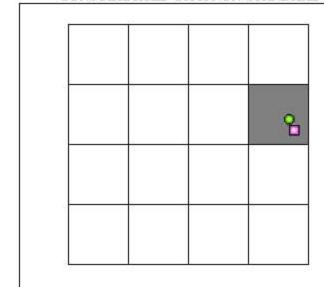
#### 10. Surface Location

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

#### 11. Bottom Hole Location If Different From Surface

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

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



#### OPERATOR CERTIFICATION

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

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

#### SURVEYOR CERTIFICATION

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

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

### **Permit Comments**

Operator: MACK ENERGY CORP , 13837 Well: STATE H #002

API: 30-015-35814

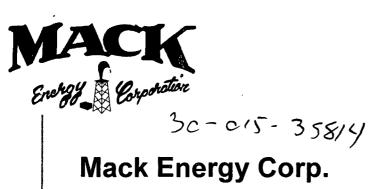
Created By	Comment	Comment Date
JWSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	9/11/2007

### Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837 Well: STATE H #002

API: 30-015-35814

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



### Mack Energy Corp.

Eddy County, NM (NAD 27 NME) State H #2 State H #2 Wellbore #1

Plan: Plan #1

### **Standard Planning Report**

11 September, 2007





### **Scientific Drilling** Planning Report



Database: Company: Project:

EDM 2003 16 Single User Db

Mack Energy Corp

Eddy County, NM (NAD 27 NME) Site: State H.#2 State H #2 Wellbore #1 Wellbore Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference

Survey Cálculation Method:

Well State H #2 WELL @ 3606.00ft (KB Elev) WELL @ 3606 00ft (KB Elev)

Grid³

Project

Eddy County, NM (NAD 27 NME)

Map System: Geo Datum:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Site Position:

From:

Site State H #2

Northing: Easting: Map

646,629.20ft 528,184.50ft

Latitude:

Longitude:

32° 46' 39.510 N 104° 14' 29.874 W

Position Uncertainty:

0.00 ft

Slot Radius:

Grid Convergence:

0.05 °

Well State H #2 Well Position

Northing: Easting:

646,629 20 ft 528,184 50 ft

Longitude:

32° 46′ 39.510 N

**Position Uncertainty** 

+E/-W

0 00 ft

3,606.00 ft

104° 14' 29.874 W 0 00 ft

0.00 ft Wellhead Elevation: Ground Level:

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

Design Plan #1			eggy, actorson in the later	A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH	43.77 44.70
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S (ft)-	+E/-W	Direction (°)	
	0.00	0.00	0.00	156 02	

Plan Sections		196 ₄ , 1 (8/4) 4	可以更多数的。 19	*******	4.	MAN STATE	Marie Control	"是我是我们	The state of the	
Measured			Vertical			Dogleg	91	Turn		
Depth (ft)	Inclination	Azimuth	Depth ; ,,	; +N/-S	ે +E/-W અ - (ft) તે રહે હ	Rate _(°/100ft)	(°/100ft) (°/100ft)	Rate /100ft)	TFO (1)	Target
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768.78	_ 6.18	156.92	768.18	-15.29	6.52	2 00	2 00	0 00	156 92	
2,854.52	6 18	156 92	2,841.82	-221 71	94.48	0.00	0.00	0.00	0 00	
3,163.30	0.00	0.00	3,150 00	-237 00	101 00	2.00	-2 00	0 00	180.00	
7,313 30	0.00	0 00	7,300.00	-237.00	101.00	0.00	0 00	0.00	0.00	PBHL-State H #1



### **Scientific Drilling** Planning Report



Database: EDM 2003.16 Single User Db Local Co-ordinate: Reference: TVD Reference: TVD Reference: MD Reference: Site: State H #2 North Reference: Survey Calculation Method: Wellbore: Wellbore: User MD Reference: Wellbore: Wellbore: Plan #1

Well State H #2 Well State H #2 WELL @ 3606.00h (KB Elev) WELL @ 3606.00h (KB Elev) Grid # Minimum Curvature

Planned Survey			good the same		NATA W	ALWYP, WY	100000000000000000000000000000000000000	Bearing.	WAYNE WAR
Measured Depth	Inclination	Azimuth	✓ Vertical	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Bulld Rate	Rate
(ft)	:	e (1)	(n) - 1	(ft)	(ft)	(ft)	TENTON TO SET UP TO THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF THE SET OF TH	(°/100ft) ***	(°/100ft)
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100.00	0.00	0.00	100.00	0.00	0.00	0.00	0 00	0.00	0.00
200.00 300.00	0.00 0.00	0 00 0 00	200.00 300.00	0 00 0.00	0.00 0.00	0.00 0.00	0 00 0.00	0.00 0.00	0.00 0 00
400.00	0.00	0.00	400 00	0.00	0.00	0.00	0.00	0.00	0 00
460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP 460'S	CONTRACTOR OF THE PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T		eever real		warmer.				
500 00	0.80	156 92	500.00	-0.26	0.11	0.28	2.00	2.00	0.00
600.00	2.80	156.92	599 94	-3.15	1 34	3.42	2.00	2.00	0.00
700 00 768 78	4.80 6.18	156.92 156.92	699.72 768.18	-9.2 <b>4</b> -15.29	3.94 6.52	10 05 16 62	2 00 2 00	2.00 2.00	0.00 0.00
EOC hold 6						PROPERTY.			
800.00	6.18	156.92	799.22	-18.38	7 83	19 98	0.00	0.00	0.00
900.00	6 18	156.92	898.64	-28.28	12,05	30 74	0.00	0.00	0.00
1,000 00	6.18	156.92	998.06	-38.18	16.27	41.50	0.00	0.00	0.00
1,100.00 1,200.00	6.18 6.18	156 92 156 92	1,097.48 1,196.90	-48.07 -57 97	20 49 24.70	52.26 63.01	0.00 0.00	0.00 0.00	0.00 0.00
1,300.00 1,400.00	6.18 6.18	156.92 156.92	1,296.32 1,395.74	-67.87 -77.76	28 92 33.14	73.77 84.53	0 00 0 00	0.00 0.00	0.00 0.00
1,500 00	6.18	156.92	1,495 16	-87.66	37.36	95.29	0 00	0 00	0.00
1,600.00	6 18	156 92	1,594.58	-97.55	41 57	106.04	0.00	0.00	0.00
1,700.00	6.18	156 92	1,694.00	-107.45	45.79	116.80	0.00	0 00	0.00
1,800.00	6.18	156.92	1,793 42	-117.35	50.01	127.56	0.00	0.00	0.00
1,900.00	6.18	156.92	1,892 84	-127.24	54.23	138.32	0.00	0.00	0.00
2,000.00 2,100.00	6.18 6 18	156.92 156.92	1,992.26 2,091.68	-137.14 -147.04	58 44 62 66	149.07 159.83	0.00 0.00	0.00 0.00	0.00 0.00
2,200.00	6.18	156.92	2,191.10	-156.93	66 88	170.59	0.00	0.00	0.00
2,300.00	6.18	156.92	2,290.52	-166 83	71.10	181.35	0.00	0.00	0.00
2,400.00	6.18	156.92	2,389.94	-176.73	75.31	192.10	0.00	0.00	0.00
2,500.00	6.18	156.92	2,489.36 2,588 78	-186.62	79 53 83.75	202 86	0.00	0.00	0.00
2,600.00 2,700.00	6 18 6.18	156.92 156.92	2,688.20	-196.52 -206.41	87.97	213.62 224.38	0.00 0.00	0.00 0.00	0.00 0.00
2,800.00	6 18	156.92	2,787.62	-216.31	92.18	235.13	0.00	0.00	0.00
2,854.52	6 18	156 92	2,841.82	-221.71	94.48	241.00	0.00	0.00	0.00
Start Drop	2.0°/100'		BANGER STATE				PORTER OF THE		<b>医</b> 医
2,900.00	5.27	156.92	2,887.07	-225.88	96.26	245.53	2.00	-2.00	0.00
3,000.00 3,100.00	3.27 1.27	156.92 156.92	2,986 79 3,086.71	-232.72 -236.36	99.18 100.73	252.97 256.92	2.00	-2.00 -2.00	0.00 0.00
	0.00	0.00	3,150.00	-237.00			2.00		
3,163.30 EOC hold 0	en in transformed the interest to the property rest.	reesarativa	3,130.00 200422-044 544	TETER PROFITS (SINGE	101.00	257.62	2.00	-2 00	0.00
3,200 00	0.00	0 00	3,186.70	-237.00	101.00	257.62	0.00	0.00	0 00
3,300.00	0.00	0 00	3,286.70	-237.00	101.00	257.62	0.00	0.00	0 00
3,400.00	0 00	0.00	3,386.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,500.00	0 00	0 00	3,486 70	-237.00	101.00	257.62	0.00	0.00	0 00
3,600.00 3,700.00	0.00 0.00	0 00 0.00	3,586 70 3,686.70	-237.00 -237.00	101.00 101 00	257.62 257.62	0 00 0 00	0 00 0.00	0 00 0.00
3,800.00	0.00	0.00	3,786.70	-237.00	101 00	257.62 257.62	0 00	0.00	0.00
3,900.00	0.00	0.00	3,886.70	-237.00	101.00	257.62	0 00	0 00	0.00
4,000.00	0.00	0 00	3,986 70	-237 _: 00	101.00	257.62	0.00	0.00	0.00
4,100.00	0 00	0.00	4,086 70	-237.00	101.00	257.62	0.00	0.00	0 00
4,200.00 4,300.00	0.00 0.00	0 00 0 00	4,186.70 4,286.70	-237.00 -237.00	101 00 101.00	257 62 257 62	0 00	0.00	0.00
4,400.00	0.00	0.00	4,386.70	-237.00	101.00	257.62 257.62	0 00 0.00	0 00 0.00	0.00 0.00



Planning Report



EDM, 2003; 16 Single User Db Database:

EDM.2003:16 Single User Db.
Mack Energy Corp.
Eddy.County. NM (NAD 27,NME)
State.H.#2
State.H.#2
Wellbore.#1
Plan.#1 Company: Project: Site: Well:

Wellbore: Design:

Local Co-ordinate Reference: TVD Reference:

North Reference:

Survey Calculation Method:

Well State H #2

Well State H #2 WELL @ 3606 00ft (KB Elev) WELL @ 3606 00ft (KB Elev) Grid Minimum Curvature

nned Survéy	المساولة المناك سيهزي	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		وبنه مسيسه فالقوات ترب		2 4 10 10 10 10	11. 12. 12. 12. 12. 12. 12. 12. 12. 12.		
				The state of the state of					
Measured	を記りくれ事も		Vertical #			Vertical	Dogleg	Build salls	Turn
Competh San Ti	nclination:	Azimuth 3	Depth 📜	લા. <b>±N/-S ,</b> ુંર્યું,	₹ +E/-W#	Section * 15		্ Rate 🦙 🖫	Rate
	(*)	```(°)?``\	(ft)	(ft)	(ft)	(ft)	(°/100ft);	(°/100ft)	(°/100ft)
4,500.00	0.00	0.00	4,486 70	-237.00	101.00	257.62	0.00	0.00	0.00
4,600.00	0.00	0.00	4,586.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,700.00	0.00	0.00	4,686.70	-237.00	101.00	257 62	0.00	0.00	0.00
4,800.00	0.00	0.00	4,786 70	-237.00	101 00	257.62	0.00	0.00	0 00
4,900.00	0.00	0 00	4,886.70	-237 00	101.00	257.62	0.00	0.00	0.00
5,000.00	0.00	0.00	4,986.70	-237.00	101 00	257 62	0.00	0.00	0 00
5,100 00	0 00	0 00	5,086.70	-237.00	101 00	257.62	0 00	0.00	0.00
5,200 00	0 00	0 00	5,186.70	-237.00	101 00	257.62	0.00	0.00	0.00
5,300.00	0.00	0 00	5,286.70	-237.00	101 00	257 62	0.00	0.00	0.00
5,400 00	0 00	0.00	5,386 70	-237.00	101 00	257.62	0.00	0.00	0.00
5,500 00	0 00	0.00	5,486.70	-237.00	101.00	257.62	0.00	0.00	0.00
5,600.00	0.00	0.00	5,586.70	-237.00	101.00	257.62	0.00	0.00	0.00
5,700.00	0.00	0.00	5,686 70	-237.00	101.00	257.62	0.00	0.00	0 00
5,800.00	0 00	0.00	5,786 70	-237.00	101.00	257.62	0.00	0.00	0 00
5,900.00	0.00	0 00	5,886 70	-237.00	101 00	257.62	0 00	0.00	0.00
6,000 00	0 00	0.00	5,986 70	-237.00	101.00	257.62	0.00	0 00	∙0 00
6,100.00	0.00	0.00	6,086 70	-237.00	101.00	257.62	0.00	0.00	0 00
6,200.00	0 00	0 00	6,186.70	-237.00	101.00	257 62	0 00	0.00	0.00
6,300.00	0.00	0.00	6,286.70	-237 00	101.00	257.62	0 00	0.00	0.00
6,400.00	0.00	0.00	6,386.70	-237.00	101.00	257 62	0.00	0 00	0 00
6,500.00	0.00	0.00	6,486.70	-237.00	101.00	257.62	0.00	0 00 〔	0.00
6,600.00	0.00	0.00	6,586.70	-237.00	101.00	257 62	0.00	0.00	0.00
6,700.00	0.00	0.00	6,686.70	-237 00	101.00	257.62	0 00	0.00	0.00
6,800.00	0.00	0.00	6,786.70	-237.00	101.00	257.62	0.00	0.00	0.00
6,900.00	0 00	0.00	6,886.70	-237.00	101 00	257.62	0.00	0 00	0.00
7,000.00	0 00	0 00	6,986 70	-237.00	101.00	257 62	0.00	0.00	0.00
7,100.00	0.00	0.00	7,086.70	-237.00	101.00	257.62	0.00	0.00	0.00
7,200.00	0 00	0 00	7,186.70	-237.00	101.00	257.62	0.00	0 00	0.00
7,300 00	0.00	0.00	7,286.70	-237 00	101.00	257.62	0 00	0.00	0.00
7,313.30	0.00	0 00	7,300.00	-237.00	101.00	257 62	0.00	0.00	0.00

Target Name hit/miss target Shape	41.51.64.5 4	o Dir.	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (fi)	Latitude	Longitude
PBHL-State H #1 - plan hits target - Circle (radius 10.00)	0 00	0.00	7,300.00	-237.00	101.00	646,392.20	528,285 50	32° 46' 37.164 N	104° 14' 28.693 W
South HL-State H #1 - plan misses by 14.14ft at - Rectangle (sides W0.00 l			7,300.00 .00 TVD, -23	-247.00 37 00 N, 101.00	111 00 (E)	646,382.20	528,295 50	32° 46′ 37.065 N	104° 14' 28.576 W
East HL-State H #1 - plan misses by 14.14ft at - Rectangle (sides W800.0			7,300.00 .00 TVD, -23	-247.00 37.00 N, 101 00	111 00 (E)	646,382 20	528,295.50	32° 46′ 37.065 N	104° 14' 28.576 W



Planning Report



Database: EDM 2003 16 Single User Db

Database: Company: Project: Site: Well: Wellbore: Design:

EDM 2003 16 Single User Db Mack Energy Corp. Eddy County, NM (NAD 27 NME) State H #2 State H #2 Wellbore #1 Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well State H #2 Well State 1 #2 WELL @ 3606.00f (KB Elev) WELL @ 3606.00f (KB Elev) Grid Minimum Curvature

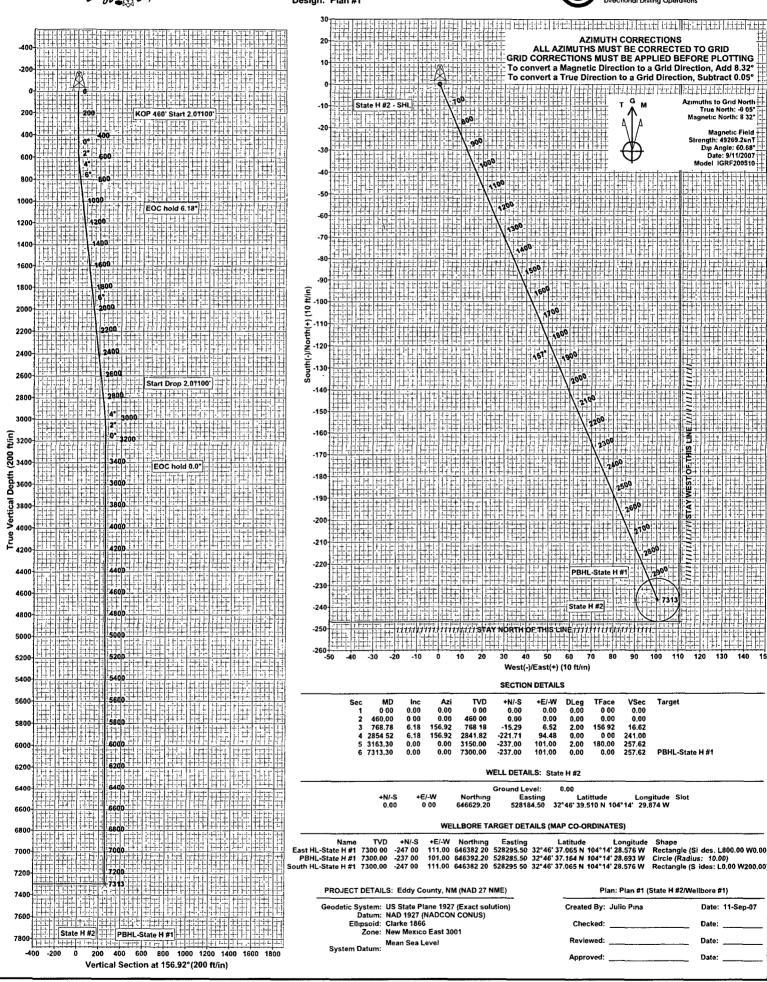
Plan Annotations	TANK AND	104 SV	THE THE THE	on the state	<u> </u>
M	easured	Vertical	Local Coordin	ates	
1、 人名西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西西	Depth	Depth 4	+N/-S	+E/-W	
112 5 4 12 19 19	(11)		(ft)	(ft) 27 4. Jr	Comment
	460.00	460.00	0.00	0.00	KOP 460' Start 2.0°/100'
	768.78	768.18	-15.29	6.52	EOC hold 6.18°
'	2,854.52	2,841.82	-221.71	94.48	Start Drop 2.0°/100'
	3,163.30	3,150 00	-237.00	101.00	EOC hold 0.0°



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

Weilbore:





Subtitit 3 Copies To Appropriate District	State of New Mexico	Form C-103
Office District I	Energy, Minerals and Natural Resources	May 27, 2004 WELL API NO.
District 11	OIL CONSERVATION DIVISION	30-015-35814
1301 W Grand Ave, Artesia, NM 88210 District III	1220 South St. Francis Dr.	5. Indicate Type of Lease STATE  FEE
1000 Rio Brazos Rd, Aztec, NM 87410 <u>District IV</u>	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S St Francis Dr, Santa Fe, NM 87505		B-9391
	TICES AND REPORTS ON WELLS OSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR USE "APPLI	CATION FOR PERMIT" (FORM C-101) FOR SUCH	State H
PROPOSALS)  1. Type of Well: Oil Well	Gas Well 🛛 Other	8. Well Number 2
2. Name of Operator  Mack End	ergy Corporation	9. OGRID Number 013837
3 Address of Operator	Agy corporation	I 0. Pool name or Wildcat
	x 960 Artesia, NM 88211-0960	Chalk Bluff Wolfcamp
4 Well Location Unit Letter H	2063feet from the North line and	441feet from theEastlinc
Section2	Township 18S Range 27E	NMPM County Eddy
	I 1. Elevation (Show whether DR, RKB, RT, GR, etc.	
Pit or Below-grade Tank Application	or Closure	·
	vaterDistance from nearest fresh water wellDis	stance from nearest surface water
Pit Liner Thickness: mi	Below-Grade Tank: Volumebbls; Co	onstruction Material
12. Check	Appropriate Box to Indicate Nature of Notice,	Report or Other Data
NOTICE OF II PERFORM REMEDIAL WORK [ TEMPORARILY ABANDON [		<u>=</u>
PULL OR ALTER CASING	吕	<u> </u>
OTHER: Change casing		
13. Describe proposed or com of starting any proposed v	pleted operations. (Clearly state all pertinent details, an vork). SEE RULE 1103. For Multiple Completions: At	d give pertinent dates, including estimated date
or recompletion.	ada assistanti di ADD	
Mack Energy would like to chang	te the casing string approved on this APD.	
	3 3/8" 48# H-40 casing and cement.	
	8 5/8" 24# J-55 casing and cement. ly 7300', run 5 1/2" 17# L-80 casing and cement.	
Dilli a / //o flote to approximate	19 7300, tuil 3 1/2 1/# L-ov casing and cement.	OCT 22 2007
		OCD-ARTESIA
		OOD-ANI LOIA
I hereby certify that the information grade tank has been/will-be constructed of	above is true and complete to the best of my knowledge r closed according to NMOCD guidelines , a general permit	and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan
SIGNATURE Jerry W.	Shere TITLE Production Clerk	DATE 10/19/07
Type or print name Jerry W. Sherr	ell E-mail address: jerrys@macke	energycorp.com Telephone No (505)748-1288
For State Use Only		OCT 2 2 2007
APPROVED BY: DIST	IN G. ARRANT RICT II GEOLOGIST ^{TLE}	DATE_
Conditions of Approval (If any):	TO THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OFFICE OFFICE OFFICE OF THE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE OF	DITT D



### Mack Energy Corp.

Eddy County, NM (NAD 27 NME) State H #2 State H #2 Wellbore #1

OCT 22 2007 OCD-ARTESIA

Plan: Plan #2

### **Standard Planning Report**

19 October, 2007





#### Planning Report



Database:

EDM 2003 16 Single User Db

Company:

Wellbore Design:

Site:

Well:

Mack Energy Corp

Wellbore #1

Plan #2

Project:

Eddy County, NM (NAD 27 NME)

State H #2 State H #2 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well State H #2

WELL @ 3606 00ft (KB Elev) WELL @ 3606 00ft (KB Elev)

Mınimum Curvature

Project

Eddy County, NM (NAD 27 NME)

Map System: Geo Datum:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Site State H #2

Site Position:

Well Position

From:

Мар

Northing: Easting:

646,629 20 ft 528,184 50ft

Latitude:

Longitude:

32° 46' 39 510 N

Position Uncertainty:

Slot Radius:

Grid Convergence:

104° 14' 29 874 W 0 05 °

0 00 ft

Well State H #2

> +N/-S +E/-W

> > IGRF200510

0 00 ft 0 00 ft

Northing: Easting:

10/19/2007

646,629 20 ft 528,184 50 ft

8 36

Latitude: Longitude:

60 68

32° 46′ 39 510 N 104° 14' 29 874 W

49,259

**Position Uncertainty** 0 00 ft 0 00 ft Wellhead Elevation: 3,606 00 ft Ground Level:

Wellbore Wellbore #1 Magnetics Model Name Sample Date Declination Dip Angle Field Strength (nT) (°) (°)

Design	Plan #2				en mante en en en en en en en en en en en en en		 	 * .
Audit Notes:								 
Version:		Ph	ase:	PLAN	Tie On Dep	oth: 0 00		
Vertical Section:		Depth From	(TVD)	+N/-S	+E/-W	Direction	 	 
		(ft)		(ft)	(ft)	(°)		
		0.00		0.00	0.00	156 92	 	 

			and the secondary						Sample V Asset	
Measured			Vertical			Dogleg	Build	Turn		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Rate	Rate	Rate	TFO	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	Target
0 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00	0 00	
1,250 00	0 00	0.00	1,250 00	0.00	0 00	0 00	0 00	0.00	0.00	
1,785 00	10 70	156.92	1,781.89	-45.82	19 53	2 00	2 00	0 00	156 92	
2,636 01	10 70	156.92	2,618 11	-191 18	81 47	0 00	0 00	0.00	0 00	
3,171 01	0 00	0 00	3,150 00	-237 00	101 00	2 00	-2 00	0.00	180 00	
7,321 01	0 00	0 00	7.300 00	-237.00	101 00	0 00	0 00	0 00	0 00 F	BHL-State H #1



Planning Report



Database:

EDM 2003 16 Single User Db

Company:

Well:

Mack Energy Corp

Project: Site:

Wellbore:

Design:

Eddy County, NM (NAD 27 NME) State H #2 State H #2 Wellbore #1

Plan #2

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well State H #2

, WELL @ 3606.00ft (KB Elev) ! WELL @ 3606 00ft (KB Elev)

Grid

Minimum Curvature

ed Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
1,150 00	0 00	0 00	1,150 00	0 00	0 00	0.00	0 00	0 00	0.00
8 5/8" Casin	g								
1,250 00	0 00	0.00	1,250 00	0 00	0,00	0 00	0 00	0 00	0 00
KOP 1250' S	tart 2.0°/100'								
1,300 00	1 00	156 92	1,299 99	-0 40	0 17	0 44	2.00	2 00	0 00
1,400 00	3 00	156 92	1,399 93	-3 61	1 54	3.93	2 00	2 00	0 00
1,500 00	5.00	156.92	-1,499 68	-10 03	4.27	10 90	2 00	2 00	0 00
1,600 00	7 00	156 92	1,599 13	-19 64	8 37	21 35	2.00	2 00	0 00
1,700 00	9 00	156.92	1,698 15	-32 45	13.83	35 27	2 00	2.00	0 00
1,785 00	10 70	156 92	1,781 90	-45 82	19 53	49 81	2 00	2 00	0 00
EOC hold 10	.70°								
1,800 00	10 70	156 92	1,796.63	-48 38	20 62	52 59	0 00	0 00	0.00
1,900 00	10 70	156 92	1,894 89	-65 46	27 90	71 16	0 00	0 00	0 00
2,000 00	10 70	156 92	1,993 15	-82 54	35 18	89 73	0 00	0 00	0 00
2,100 00	10 70	156 92	2,091 41	-99 63	42 46	108.29	0 00	0 00	0 00
2,200 00	10.70	156.92	2,189 68	-116 71	49.74	126 86	0 00	0 00	0 00
2,300.00	10.70	156.92	2,287 94	-133 79	57.01	145 43	0 00	0.00	0 00
2,400 00	10 70	156.92	2,386 20	-150 87	64.29	163 99	0 00	0 00	0 00
2,500 00	10.70	156 92	2,484 46	-167 95	71.57	182 56	0.00	0 00	0 00
2,599 99	10 70	156 92	2,582 72	-185 03	78 85	201 13	0 00	0 00	0 00
2,636 01	10 70	156 92	2,618 11	-191 18	81 47	207 81	0 00	0 00	0.00
Start Drop 2	.0°/100 <b>'</b>								
2,699 99	9.42	156.92	2,681 11	-201 46	85 85	218 99	2 00	-2 00	0 00
2,799 99	7 42	156 92	2,780 03	-214 93	91 59	233 63	2 00	-2 00	0 00
2,899 99	5.42	156.92	2,879 39	-225 22	95.98	244 81	2 00	-2 00	0 00
2,999 99	3 42	156 92	2,979 09	-232 31	99 00	252 52	2 00	-2 00	0 00
3,099 99	1 42	156 92	3,079 00	-236 19	100 65	256 74	2 00	-2 00	0.00
3,171.01	0.00	0.00	3,150 00	-237 00	101 00	257.62	2 00	-2 00	0 00
EOC hold 0.	0°.								
7.321 01	0 00	0 00	7,300.00	-237 00	101 00	257 62	0 00	0 00	0.00

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL-State H #1 - plan hits target - Circle (radius 10	0 00	0 00	7,300 00	-237 00	101.00	646,392 20	528,285 50	32° 46′ 37 164 N	104° 14' 28.693 W
South HL-State H #1 - plan misses by 1 - Rectangle (sides			7,300 00 0.00 TVD, -23	-247 00 37 00 N, 101.0	111 00 00 E)	646,382 20	528,295 50	32° 46′ 37 065 N	104° 14' 28 576 W
East HL-State H #1 - plan misses by 1 - Rectangle (sides		,	7,300 00 0 00 TVD, -20	-247 00 37.00 N, 101.0	111 00 00 E)	646,382.20	528,295 50	32° 46′ 37 065 N	104° 14' 28.576 W



#### Planning Report



Mack Energy Corp Company: Project:

Eddy County, NM (NAD 27 NME)

Site: State H #2 Well: State H #2 Wellbore #1 Wellbore: Plan #2 Design:

EDM 2003.16 Single User Db Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well State H #2

WELL @ 3606 00ft (KB Elev) WELL @ 3606 00ft (KB Elev)

Grid

Minimum Curvature

Casing Points	'						
	Measured Depth	Vertical Depth			Casing Diamete	Hole Diameter	
	(ft)	(ft)		Name	(ft)	(ft)	
	1,150 00	1,150 00	8 5/8" Casing		8 625	00 12.25000	

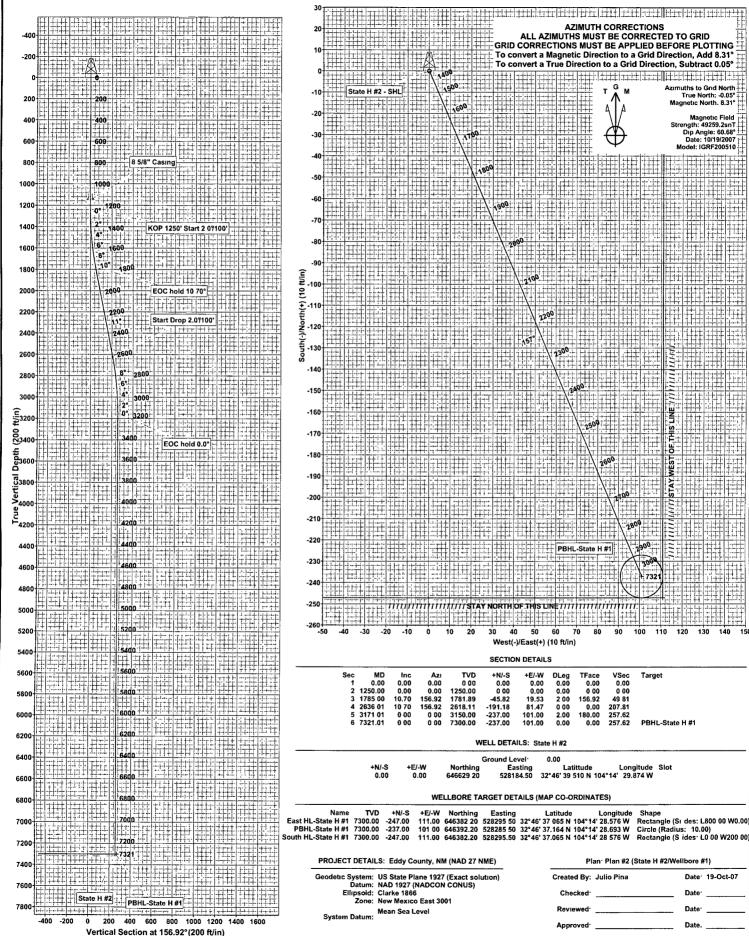
Plan Annotati	ons			. /	an and a fine processing all the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con
	Measured	Vertical	Local Coon	dinates	
	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
	1,250 00	1,250 00	0 00	0 00	KOP 1250' Start 2 0°/100'
	1,785 00	1,781 90	-45 82	19.53	EOC hold 10.70°
	2,636 01	2,618 11	-191 18	81 47	Start Drop 2 0°/100'
	3,171 01	3,150 00	-237 00	101 00	EOC hold 0 0°



Scientific Drilling for Mack Energy Corp. Site: Eddy County, NM (NAD 27 NME)

Well: State H #2 Wellbore: Wellbore #1 Design: Plan #2





#### District I State of New Mexico Form C-103 1625 N. French Dr., Hobbs, NM 88240 Permit 65781 Energy, Minerals and Natural Resources Phone:(505) 393-6161 Fax:(505) 393-0720 WELL API NUMBER Oil Conservation Division 1301 W. Grand Ave., Artesia, NM 88210 30-015-35814 Phone:(505) 748-1283 Fax:(505) 748-9720 1220 S. St Francis Dr. District III Santa Fe, NM 87505 Indicate Type of Lease 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV 1220 S. St Francis Dr., Santa Fe, NIM 87505 6. State Oil & Gas Lease No. Phone:(505) 476-3470 Fax:(505) 476-3462 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO STATEH A DIFFRENT RESERVIOR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH 8. Well Number PROPOSALS.) 002 Type of Well: () 2. Name of Operator 9. OGRID Number MACK ENERGY CORP 13837 3. Address of Operator 10. Pool name or Wildcat PO BOX 960,, 11352 LOVINGTON HWY ARTESIA, NM 88211 4. Well Location 2063 441 N E Unit Letter feet from the line and feet from the line **18S** 27E Range NMPM Eddy Section Township County 11. Elevation (Show whether DR, KB, BT, GR, etc.) 3590 GR Pit or Below-grade Tank Application or Closure Pit Type _ __ Depth to Groundwater_ Distance from nearest fresh water well_ _ Distance from nearest surface water_ bbls; Construction Material Pit Liner Thickness: Below-Grade Tank: Volume_ mil 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK ALTER CASING TEMPORARILY ABANDON CHANGE OF PLANS PLUG AND ABANDON | COMMENCE DRILLING OPNS. | PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENT JOB Other: Other: Drilling/Cement X 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. 10/31/2007 Spud 17 1/2 hole @ 10:00pm. 11/1/2007 TD @ 201. Ran 5jts 13 3/8 H-40 48#@ 201', Cmt w/250sx C+2%CC, circ 104sx, plug down 12:20pm. WOC 18hrs test to 1800#30min, OK. 11/4/2007 TD 12 1/4 hole @ 1165'. 30min, OK. 11/20/2007 TD @ 7545'. 11/22/2007 Ran 177jts 5 1/2 J-55 17#@ 7495', Cmt w/530sx C, circ 217sx. 2nd stage 365sx C, 520sx C, plug down 6:55pm, circ 200sx. WOC 12hrs test to 600#20min, OK. 10/31/2007 Spudded well.

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

Casing and	Cement	Program
------------	--------	---------

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

Thereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has beenAvill be constructed or closed according to NMOCD guidelines 🗐, a general permit 🗂 or an (attached) alternative OCD-approved plan 🛚 SIGNATURE Electronically Signed TITLE Production Clerk DATE 12/11/2007 Type or print name Jerry Sherrell E-mail address jerrys@mackenergycorp.com Telephone No. 505-748-1288

For State Use Only:

APPROVED BY: DATE 12/12/2007 7:46:02 AM TITLE Geologist Bryan Arrant

Subtitut 3 Copies To Appropriate District Office	State of				Ι	Form C-103 May 27, 2004
<u>District I</u> 1625, N French Dr, Hobbs, NM 88240	Energy, Minerals	and Natu	ral Resources	WELL API		Way 27, 2004
<u>District 11</u> 1301 W. Grand Ave, Artesia, NM 88210	OIL CONSERV			30-015-3581 5. Indicate T	ype of Lease	
District III 1000 Rio Brazos Rd, Aztec, NM 87410	1220 South			STAT	TE 🛛 FEE	
District IV	Santa Fe	e, NM 87	505	6. State Oil	& Gas Lease No.	
1220 S St Francis Dr, Santa Fe, NM 87505				B-9391	·····	
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR USE "APPLIC		PEN OR PLU	JG BACK TO A		ne or Unit Agree	ment Name
PROPOSALS)		,		State H 8. Well Nun	nher o	
1. Type of Well: Oil Well 2. Name of Operator	Gas Well Other	<u> FER</u>	26 2008	9. OGRID N		
Mack En	ergy Corporation	OCD	-ARTESIA		01383	7
3. Address of Operator					ne or Wildcat	_
	x 960 Artesia, NM 88211	1-0960		Red Lake; G	lorieta-Yeso NE	
4. Well Location Unit Letter H	2063 feet from the	Nortl	1 line and	441 fee	et from theF	East line
Section2	Township		nge27E	NMPM	County	Eddy
Section	1 1. Elevation (Show wh				County _	
	· ·	3590'		´	* # PER 17 17	A Land State Comment
Pit or Below-grade Tank Application						
Pit typeDepth Groundw						
Pit Liner Thickness: mil						
12. Check A	Appropriate Box to Inc	dicate Na	ature of Notice,	, Report or O	ther Data	
NOTICE OF IN	ITENTION TO:		SUE	SEQUENT	REPORT OF	=•
PERFORM REMEDIAL WORK			REMEDIAL WO			CASING
TEMPORARILY ABANDON [	CHANGE PLANS		COMMENCE DR	RILLING OPNS	☐ P AND A	
PULL OR ATTER CASING	MULTIPLE COMPL		CASING/CEMEN	NT JOB		
OTHER:		П	OTHER: Compl	etion		_ 🛛
13. Describe proposed or compof starting any proposed wor recompletion.			ertinent details, ar	d give pertinen		estimated date
12/15/2007 Perforated from 6134	5-6434' 57 holes					
12/17/2007 Acidized w/4500 gals						
12/18/2007 RIH w/203 joints 2 7/		H w/2 1/2	2"x2"x20' pump.			
12/26/2007 Set CIBP @ 6020' w/		d from 57	789.5-5957.5' 52 I	holes.		
12/27/2007 Acidized w/4500 gals		1 /500	01- 150/			
12/28/2007 Perforated from 5391- 12/29/2007 RIH w/188 joints 2 7/						
1/7/2008 Set CIBP @ 5300' w/35'				S.		
1/8/2008 Acidized w/2000 gals 15						
1/9/2008 Frac w/8130# liteprop, 6				30/40# gel.		~
1/11/2008 RIH w/134 joints 2 7/8	" tubing SN @ 4243'. R1	H 2 1/2 x	2 x 20' Pump.			
,						
The house of Court and the Court	-1	4. 41. 1	4 - C 1- 1 ·	11 22 6 7 2		
I hereby certify that the information grade tank has been/will be constructed o	above is true and complete r closed according to NMOCD	guidelines [	t of my knowledge ], a general permit [	and belief. I fur or an (attached)	rther certity that a a alternative OCD-ap	ny pit or below- proved plan [
SIGNATURE Comple	1 /1 /1		oduction Clerk		DATE_2/2	
Type or print name Jerry W. Sherr	ell E	-mail addr	ess:jerrys@mack	energycorp.com	m_ Telephone N	o. <u>(575)</u> 748-128
For State Lice Only						
APPROVED BY:	records only	TITI P			DATE 1	-28-08
Conditions of Approval (if any):		TITLE			DAIE_ <b>_</b> _	

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

<u>District 11</u> 1301 W Grand Avenue, Artesia. NM 88210

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

State of New Mexico

Energy, Minerals & Natural Resource EB 26 2008

Revised Feb. 26, 2007 OCD-ARTESIA to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr.

Form C-104

1220 S. St. France	eis Dr., Sai	nta Fe. NN	<b>1</b> 8750	)5		Santa Fe, N	M 87505						AMEND	DED REPORT
	1.	REQU	UES	T FOR	ALLC	WABLE A	ND AUT	HOF				RANS	<u>SPORT</u>	
ı Operator n	ame and	l Addres N	ss Mack	Energy	Corpora	tion			2 OGR	ID Nur	nber	01383	7	
				P.O. Bo	x 960				3 Reas	on for F	iling C	Code/ Ef	fective Da	te
A DI NII				sia, NM 8	88211-0	960					م. ا	NW		
4 API Numb 30-015-3		t	Pool	Name	]	Red Lake; Glo	rieta-Yeso	NE	-		6 Pe	ool Cod	5 <del>1120</del>	96836
	847		-	erty Nan	ne	State	Н				9 <b>W</b>	Vell Nur	nber 2	
H. Surfa	ace Lo	cation												<del></del>
UL or lot no H	Section 2	Town:		Range 27E	Lot Idn	Feet from the 2063	North/South North		Feet fro			West lir East	Eddy	County
	ttom H				<del></del>	2003	Norui		1 44	1		Cast	JEddy	
UL or lot no.		Town		Range	Lot Idn	Feet from the	North/South	line	Feet fro	om the	East/	West lin	ne	County
Н	2	18S		27E		2300	North		340		East		Eddy	
12 Lse Code	" Producir	ng Method	Code	" Gas Conn		C-129 Pern	nit Number	16 <b>C</b>	C-129 Ef	ective l	Date	17 C	-129 Expi	ration Date
S P 1/11/08										l				
Ill. Oil a	nd Gas	Trans	porte	ers		19 Transpor	ter Name						20 (	D/G/W
OGRID						and Ad								J/G/ W
015694		avajo R		ng								l		O
	Ρ(	O Box 1 rtesia, N		88211-01	59								•	* . * .
036785		CP Mid						_						G
		001 Pen dessa, T												
,		ucosa, i	- /	7102	<del></del> -									
														V
		<del></del>									······································			
* * *												<u> </u>		
<u>k</u>														- 1
IV. Well	Compl	etion D	)ata											
21 Spud Da	ate	22 Re	eady I			²³ TD	²⁴ PBT		1	Perforat			C, MC	
10/31/20		11/	23/20		1	7545'	5265'			18.5-4	197'		icks Ceme	
27 HG	ole Size			²⁸ Casing	& Tubir	ng Size	2º D	epth S	et	-		10 <b>S</b> E	icks Ceme	ent
1	7 1/2				13 3/8		<i>:</i>	201					250	
12	2 1/4				8 5/8		1	170					675	
7	7/8				5 1/2		7	495					1415	
					2 7/8			243			·			
V. Well	Test Da	nta	I		2 770	<u> </u>		273						
11 Date New	Oil	32 Gas D	Oclive	ry Date	33	Test Date	34 Test	Leng	th	3.5 Tb	g. Pre	ssure	³⁶ Cs _ξ	g. Pressure
1/14/200	08	1/1	4/20	08	1	/30/08	24 ł	ours						
37 Choke S	³⁷ Choke Size ³⁸ Oil ³⁹ Water										• • •		4 1 Te	st Method
			8			30	3	30						P
42 I hereby cer been complied									OIL C	ON <mark>S</mark> ERV	VATIO	N DIVIS	ION	
complete to th						c is true and	1		, .	/ ,				
Signature:	(//	/  a.aa	/1/	1.5	Resemb	R	Approved by:	$\mathscr{L}$	mbe	rlu	4	nll	Piluo	2)
Printed name, Jerry W. She	errell	J.	<del>, ,</del>		COVES!		Title: (mplings Allelian)							
Title: Production (		<del></del>		******			Approval Date: 2-5-08							
E-mail Addres	E-mail Address: jerrys@mackenergycorp.com								<u> </u>	<u> </u>				
Date: 2/25/08	,	1		one: 5)748-12	100									
2/23/08			J(37.	<i>3)/4</i> 8-1.	<u> </u>					_				

P O Box 1980, Hobbs, NM 88240

DISTRICT I

### Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies State of New Mexico

WELL API NO

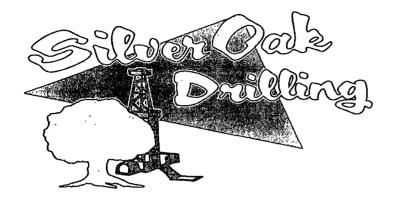
30-015-35814

Energy, Minerals and Natural Resources Department

### OIL CONSERVATION DIVISION 2040 South Pacheco

Form (	C-	105	
Revise	ed	1-1-89	9

DISTRICT II 811 South First, Arte	II Santa Fe, New Mexico 87505  5 Santa Fe, New Mexico 87505										ate 🔀	FEE
<u>DISTRICT III</u> 1000 Rio Brazos Rd ,	Aztec, NM 87410								6 State Oil & B-9391	Gas Lease No		
WELL	COMPLETIO	N OR RE	COMPLE	TION REF	PORT	AND L	OG				**************************************	
1 Type of Well OIL WELL	GAS WE	LL	DRY 🗍	OTHER					7 Lease Na	me or Unit Agr	eement N	Name '
b Type of Completion												
NEW WORK	· 🗀	PLUG BACK		DIFF RESVR 01	THER				State H			
2 Name of Operator					اسوسو	B 26 D-AR	7008		8 Well No			
Mack Energy Corp  3 Address of Operato					<u>FE</u>	D L D	TFS	A A	9 Pool nam	e or Wildcat		
P.O. Box 960, Artes	sia. NM 88211	-0960			OC	D-AN	Ban an		Red Lake;	Glorieta-Ye	so NE	<u> </u>
4. Well Location	74, 1411 00211	0700	7	,							144	
Unit Letter	H : 200	53 Fee	t From The	Nor	th	Line	and .	44	1Feet	From The	E	ast Line
Section	2	Tov	vnship	18S	Range	•	27E	N	МРМ	Eddy		County
10 Date Spudded	11 Date TD Re	ached	12 Date C	ompl (Ready 1	o Prod.)	1	3 Ele	vations (DI	~ & RKB, RT,	GR, etc )	14 Elev	Casınghead
10/31/2007	11/21/2		1	1/11/08					590' GR			
15 Total Depth 7545'	16. Plug	Back TD 5265'		17 If Multiple Cor Many Zones ⁹	mpl How		18	Intervals Drilled By	Rotary To	ools Yes	Cable	Tools
19 Producing Interval(s	s), of this completi		Bottom, Name	;						20 Was Direc	tional Su	urvey Made
4118.5-4197'											Yes	•
21 Type Electric and C	•			_					22 Was V	Well Cored	_	
Gamma Ray, Neutro	on, Density, La	teralog, S	Spectral Ga	mma Ray						]	No	
		CA	SING RE	ECORD (I	Repor	t all st	ring	s set in	well)			
CASING SIZE	WEIGHT		TH SET	Н	OLE SIZ	E	CF	EMENTING		AN	MOUNT PULLED	
13 3/8 8 5/8	32	+	170		17 1/2 12 1/4	· ···	-	250 s 675 s			None None	
5 1/2	17		7495			7 7/8			1415			None
								1				
SIZE	ТОР		ER RECO		. (5) 17		) EE) I	25		UBING RE		
SIZE	10F		OT TOM	SACKS CE	MENI	SC	REEN		2 7/8	DEPTH 424		PACKER SET
									2 770	121		
26 Perforation reco	ord (interval, s	ze, and r	number)			27 A	CID	, SHOT,	FRACTU	RE, CEMEN	T, SQU	JEEZE, ETC.
	6434', .42, 57	_		-		DEP'	LH IN.	ΓERVAL			ND MAT	TERIAL USED
) 5391-59 	57.5', .42, 92 ( 4118 5-4	ЛВР @ 5 1197', .42		cmt cap					See C-10	03 for detail		
	4110.5-	177,.72	, 40									
28				PRODU	CTIC	)N						
Date First Production		Producti	on Method (I-	Howing, gas lij			and ty	pe pump)		Well Sta	•	l. or Shut-in)
1/14/2008	Hours Tested		SI 1 6		x2x20'					777	Produ	
Date of Test 1/30/08	Hours Tested 24 hour		Choke Size	Prod'n Fo Test Perio		Oıl - Bbl 8		Gas - N	i	Water- Bbl		Gas - Oil Ratio
Flow Tubing Press	Casing Pressu		Calculated 24	- Oıl - Bbl			- MCF		Vater- Bbl.		vity - AP	3730 I - (Corr.)
			Hour Rate	8		30		30				
29 Disposition of Gas (	Sold, used for fuel,	vented, etc	;)						Test	Witnessed By		·····
Sold				***						Robe	rt C. Ch	nase
30 List Attachments	1 7											
Deviation Survey at 31. I hereby certify the		on shown	on hoth side	s of this form	ı is truo	and cor	nnlete	to the ho	st of my kno	wledge and he	lief	
	, 1	01	$\mathcal{A}$			31101001	.,,		ojy mio	age and be		
Signature Kin	ug W.	Mer		rinted lame	Jerry	W. Shei	rell	Tit	le Prodi	action Clerk	Dat	e <u>2/25/08</u>



PO Box 1370 Artesia, NM 88211-1370 (505) 748-1288 FEB 2 6 2008 OCD-ARTESIA

November 30, 2007

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

RE: State H #2

2310' FNL & 990' FEL Sec. 2, T18S, R27E Eddy County, New Mexico

Dear Sir,

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

Very truly yours,

Leroy Curry

**Drilling Superintendent** 

State of New Mexico }
County of Eddy }

Notary Public

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

OFFICIAL SEAL
REGINIA L. GARNER
NOTARY PUBLIC - STATE OF NEW MEXICO
My commission expires Qua. 30, 200

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

.



FEB 2 6 2008 OCD-ARTESIA

### **MACK ENERGY**

Field: Chalk Bluff

Site: Eddy County, NM

Well: State H #2

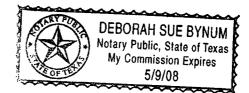
Wellpath: DH - Job #32D11071006

Survey: 11/05/07-11/14/07

This survey is co and is supported		oest of my knowled eld data.	ge
	whastr		pany Representative
otorized this date	19th of	Ma complexed	2007

Alebrato Sue Bynunce
Notary Signature
County of Midland

State of Texas





### **Scientific Drilling International**

**Survey Report** 

Company: MACK ENERGY

Field: Chalk Bluff Eddy County, NM Site: Well:

VH - Job #32K11071013 Wellpath:

State H #2

12/16/2007 Date:

Section (VS) Reference:

Co-ordinate(NE) Reference:

Survey Calculation Method:

Vertical (TVD) Reference:

Time: 18:34.47

Page:

Site: Eddy County, NM, Grid North

SITE 0.0

Well (0.00N,0.00E,156.92Azi)

Minimum Curvature

Db: Sybase

1

11/06/07 Survey:

KSRG 0'-1143'

Scientific Drilling Internatio

Company: Keeper;Keeper Gyro Start Date:

11/06/2007

**Engineer:** Tied-to:

Madrid w/P&M

From Surface

### Tool: Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0 00	0.00	359.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.62	77.45	100.00	0.10	0.12	0.53	0.62	0.54	77.45
200.00	0.42	110.33	199.99	0 45	0.11	1.40	0.35	1.40	85.60
300.00	0.37	96.72	299.99	0.86	-0.06	2.06	0.11	2.07	91.59
400.00	0.38	143.78	399.99	1.35	-0.36	2.58	0.30	2.61	98.00
500.00	0.26	212.14	499.99	1.80	-0.82	2.66	0.37	2.78	107.20
600.00	0.28	250.72	599.99	1.91	-1.10	2.30	0.18	2.55	115 4
700.00	0.44	271.18	699.99	1.74	-1.17	1.69	0.20	2.05	124.6
800.00	0.40	74.03	799.98	1.62	-1.06	1.64	0.83	1.96	122.9
900.00	1.01	96.02	899.98	2.09	-1.06	2.85	0.66	3.04	110.3
1000.00	0.95	87.15	999.96	2.81	-1.11	4.56	0.16	4.69	103.70
1100.00	0.56	76.15	1099.95	3.17	-0.95	5.86	0.41	5.94	99.2
1143.00	0.26	86.43	1142.95	3.24	-0.90	6.16	0.72	6.23	98.2



### **Scientific Drilling International**

**Survey Report** 

Company: MACK ENERGY

Field: Chalk Bluff : Eddy County, NM Site: State H #2 Well:

Wellpath: DH - Job #32D11071006

12/16/2007 Date: Co-ordinate(NE) Reference: Vertical (TVD) Reference:

**Survey Calculation Method:** 

Section (VS) Reference:

Time: 19:33:59

Page:

Site: Eddy County, NM, Grid North SITE 0.0

Well (0.00N,0.00E,156.92Azi)

Db: Sybase

1

11/05/07-11/14/07

MWD 1206'-7367'

Scientific Drilling Internatio

Company: MWD;MWD **Start Date:** 

11/05/2007

Engineer: Tied-to:

Hernandez/Biggs/Elger

Minimum Curvature

From: Definitive Path

### Tool: Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W	DLS deg/100ft	ClsD ft	ClsA deg
1143.00	0.26	86.43	1142.95	3.24	-0.90	6.16	0.00	6.23	98.28
1206.00	0.17	46.81	1205.95	3.26	-0.82	6.37	0.27	6.43	97.37
	1.66	164.91	1300.94	4.57	-2.06	6.83	1.84	7.14	106.75
1301.00	1.00			4.37				7.14	
1396.00	3.41	161.92	1395.84	8.75	-6.07	8.07	1.85	10.10	126.96
1492.00	5.19	159.14	1491.57	15.93	-12.84	10 50	1.87	16.59	140.73
1587.00	7.21	156.46	1586.01	26.19	-22.32	14.41	2.15	26.57	147.15
1682.00	8.51	155.25	1680.11	39.18	-34.17	19.74	1.38	39.46	149.99
1778.00	9 94	158.14	1774.87	54.56	-48.32	25 80	1.57	54.77	151.90
1873.00	9 56	157.67	1868.50	70.65	-63.22	31.85	0.41	70.79	153.26
1968.00	10.53	159.64	1962.04	87.21	-78.66	37.86	1.08	87.30	154.30
2064.00	9 83	160.07	2056.53	104.15	-94.59	43.71	0.73	104.20	155.20
2159.00	9.69	160.58	2150.15	120.23	-109.75	49.13	0.73	120.25	155.88
	9.09						0.17	120.20	
2255.00	10 79	160.25	2244.62	137.26	-125.83	54.86	1.15	137.27	156.45
2350.00	10.78	156.23	2337.95	155.02	-142.33	61.44	0.79	155.02	156.65
2445.00	10.67	156.45	2431.29	172.70	-158.52	68.54	0.12	172.70	156.62
2540.00	10.54	155.44	2524.66	190.18	-174.49	75.66	0.24	190.18	156.56
2604.00	10.43	156.37	2587.60	201.82	-185.12	80.42	0.32	201.83	156.52
2699.00	8.58	156.51	2681.29	217.51	-199.50	86.69	1.95	217.52	156.51
2794.00	7.39	158.65	2775.36	230.71	-211.69	91.74	1.29	230.71	156.57
2889.00	5.58	158.12	2869.75	241 43	-221.66	95.68	1.91	241.43	156.65
2009.00	5.56	130.12	2009.75	241 43	-221.00	95.00	1.91	241.43	150.00
2984.00	4.30	167.04	2964.40	249.55	-229.42	98.20	1.57	249.55	156.83
3080.00	2.86	157 16	3060.21	255.49	-235.14	99.94	1.63	255.49	156.97
3175.00	1.50	150.04	3155.14	259.10	-238.40	101.48	1.46	259.10	156.94
3270.00	0.67	256.00	3250 13	260.24	-239.61	101.56	1.90	260.24	157.03
3365.00	0.82	280 00	3345.12	259.79	-239.63	100.35	0.36	259.79	157.28
3460.00	0.48	176.03	3440.12	259.79	-239.90	99.71	1.10	259 80	157.43
3556.00	0.51	181.08	3536.11	260 56	-240.73	99.73	0.06	260.57	157.50
3651.00	0.65	173.19	3631.11	261.46	-241.69	99.79	0.00	261.48	157.5
	0.03			201.40			0.17		
3746.00	0.67	157.21	3726.10	262.54	-242.74	100.07	0.19	262.55	157.60
3841.00	0.59	154.21	3821.10	263.58	-243.69	100.50	0.09	263.60	157 59
3936.00	0.24	309.36	3916.09	263.89	-244.00	100.55	0.86	263 91	157.60
4031.00	0.30	302.31	4011 09	263.51	-243.74	100.19	0.07	263.53	157.66
4126.00	0.45	322.60	4106.09	262.95	-243.32	99.75	0.21	262.97	157.7
4222.00	1.06	337.45	4202.08	261.69	-242.20	99.18	0.66	261.72	157.73
4317.00	0.86	37.93	4297.07	260.47	-240.82	99.29	1.03	260.49	157.5
4412.00	0.59	7.90	4392.06	259.70	-239.78	99.79	0.48	259.71	157.40
4507.00	1.14	0.19	4487.05	258.42	-238.35	99.86	0.48	258.42	157.2
4602.00	1 01	346 16	4582.04	256.72	-236.59	99.66	0.31	256.72	157.10
4667.00	1.10	18.68	4647.03	255.69	-235.44	99.73	0.92	255.69	157.0
4729.00	0.53	71.05	4709.02	255.27	-234.78	100.19	1.42	255.27	156.8
4824.00	0.28	38.14	4804.02	255.19	-234 46	100.75	0.35	255.19	156.75
4920.00	0.71	12.94	4900.01	254.59	-233.69	101.03	0.49	254.60	156.62
5015.00	1.19	5.48	4995.00	253.25	-232.14	101.25	0.52	253.26	156.43
5110.00	0.82	20.33	5089.99	251.89	-230.52	101.58	0.47	251.91	156.22
5206.00	0.28	132.80	5185.98	251.60	-230.03	101.99	1.00	251.63	156.09
E204.00	0.54	99.07	E000 00	054.54		100.04	0.70		455.0
5301.00	0.54	23.07	5280.98	251.51	-229.78	102.34	0.72	251.54	155.99
5396.00	0.34	49.15	5375.98	251.11	-229.18	102.73	0.29	251.15	155.86
5491.00	1.12	153 76	5470.97	251.95	-229.83	103.35	1.32	252.00	155.79
5586.00	2.14	189.33	5565.94	254.38	-232.42	103.47	1.46	254.41	156.00



### **Scientific Drilling International**

**Survey Report** 

Company: MACK ENERGY

Field: Chalk Bluff Site: Eddy County, NM Well: State H #2

Wellpath: DH - Job #32D11071006

Date: 12/16/2007

Time: 19:33:59

Page:

Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Site: Eddy County, NM, Grid North SITE 0.0 Well (0 00N,0.00E,156.92Azi)

Survey Calculation Method: Minimum Curvature

Db: Sybase

2

Survey

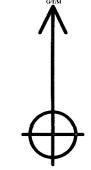
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5681.00	1.09	194.79	5660.90	256.59	-235.04	102.96	1.12	256.60	156.34
5745.00	0.67	318.43	5724.89	256.71	-235.35	102.55	2.44	256.72	156.45
5839.00	0.24	221.30	5818.89	256.28	-235.08	102.06	0.79	256.28	156.53
5935.00	1.41	161.10	5914.88	257.54	-236.35	102.31	1.36	257.55	156.59
5998.00	1.01	182.35	5977.87	258 82	-237.64	102.54	0.94	258.82	156.66
6093.00	0.20	294.46	6072.86	259.45	-238.41	102.35	1.16	259.45	156.77
6189.00	0.34	306.99	6168.86	259.08	-238.17	101.97	0.16	259.08	156.82
6284.00	0.45	287.60	6263.86	258.59	-237 89	101.39	0.18	258.59	156.92
6379.00	1.01	331.75	6358.85	257.51	-237.04	100.64	0.79	257.51	157.00
6474.00	0.11	334 85	6453.84	256.59	-236.22	100.20	0.95	256.59	157.01
6570 00	0.15	314.50	6549.84	256.38	-236.04	100.07	0.06	256.38	157.02
6665.00	0.27	304.58	6644.84	256.08	-235.83	99.80	0.13	256.08	157.06
6760.00	0.45	295.56	6739.84	255.61	-235.54	99.28	0.20	255.61	157.14
6855.00	0.46	296.68	6834.84	255 04	-235.21	98.60	0.01	255.04	157.26
6950.00	0 51	281.73	6929.83	254.50	-234.95	97.85	0.14	254.51	157.39
7046.00	1.09	134.41	7025.83	255.10	-235.50	98.08	1.61	255.11	157.39
7140.00	0.38	89.52	7119.82	256.05	-236.13	99.03	0.92	256.05	157.25
7235.00	0.57	122.42	7214.82	256.56	-236.38	99.75	0.34	256.56	157.12
7330.00	0.81	125.40	7309.81	257.52	-237.02	100.69	0.26	257.52	156.98
7367.00	0.87	128 12	7346.81	257.99	-237.35	101.13	0.19	257.99	156.92



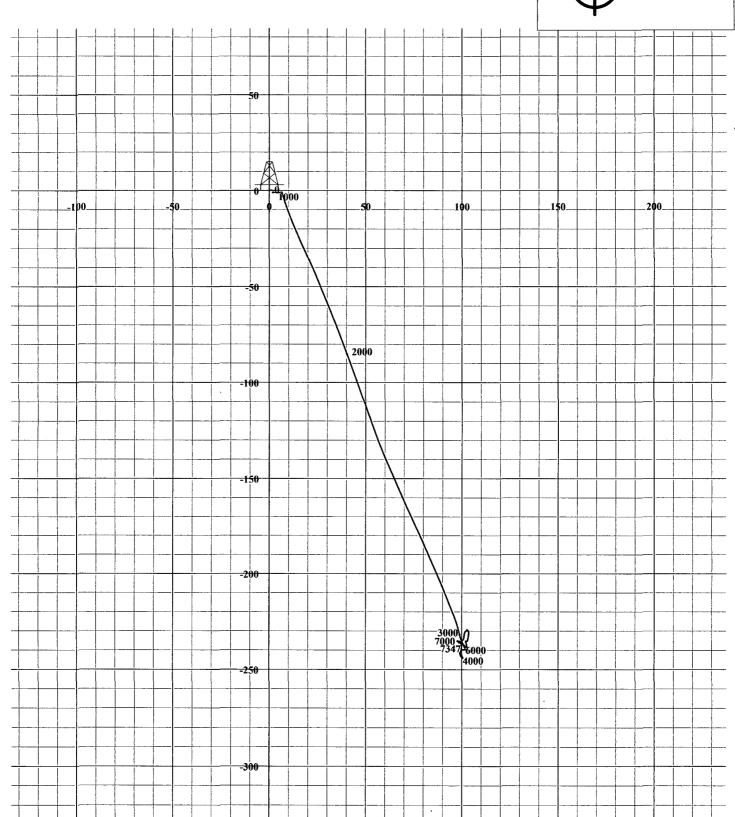
South(-)/North(+) [50ft/in]

Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2

Wellpath: DH - Job #32D11071006 Survey: 11/05/07-11/14/07







### Wilson, Kimberly M, EMNRD

From:

Jerry Sherrell [jerrys@mackenergycorp.com]

Sent:

Wednesday, March 05, 2008 3:37 PM

To:

Wilson, Kimberly M, EMNRD

Subject:

FW: Financial Assurance/Rule 40- Mack

Importance: High

From: Altomare, Mikal, EMNRD [mailto:Mikal.Altomare@state.nm.us]

Sent: Tuesday, March 04, 2008 11:03 AM

To: Mull, Donna, EMNRD

Cc: Rebecca Groh; Jerry Sherrell; Phillips, Dorothy, EMNRD

Subject: Financial Assurance/Rule 40- Mack

Importance: High

#### Donna -

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

Thanks, Mikal



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

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