UIC - I - 8-1, 2 & 3

WDWs-1, 2 & 3
PERMITS,
RENEWALS,
& MODS (5 of 18)

2017

Amoco Production Company

COMMINGLING ORDER PLC-43 (con'd)

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

A. L. PORTER, Jr. Secretary-Director

ALP/DSN/dr

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



OIL CONSERVATION COMMISSION

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

LAND COMMISSIONER -

GOVERNOR BRUCE KANG

ALEX J. ARMIJO

MEMBER STATE GEOLOGIST A. L. PORTER, JR.

SECRETARY - DIRECTOR

87501 April 6, 1972

APR 7 1972

Amoco Production Company P. O. Box 68

O. C. C. ARTESIA, OFFICE

Hobbs, New Mexico 88240

Attention: Mr. V. E. Staley

COMMINGLING ORDER PLC-43

Gentlemen:

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

Lease Name	Acreage Description					
Malco H Federal R/A A	NE/4 SE/4 Sec. 3-18-27					
Malco D Federal R/A A	N/2 NE/4 Sec. 10-18-27					
Malco D Federal R/A D	S/2 NE/4 Sec. 10-13-27					
Malco E Federal R/A A	SE/4 SE/4 Sec. 3-18-27					
Malco E Federal R/A B	SW/4 SE/4 Sec. 3-18-27					
Malco A Federal	E/2 NW/4 Sec. 11-18-27					
Malco B Federal	W/2 NW/4 Sec. 11-18-27					
Malco C Federal	W/2 NE/4 Sec. 11-18-27					
Malco J Federal	E/2 NE/4 Sec. 11-18-27					

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

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

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

NEW MEXICO OIL CONSERVATION COMMISSION

Artesia, New Mexico

May 9, 1972

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

Re: Wells placed in pools

Gentlemen:

As the result of Commission Order <u>P-4291</u> the following described well (a) (has-haxe) been placed in the pool (a) shown below. This change in nomenclature has been made in our files. Please change your records to reflect the proper pool name. All subsequent reports must show this nomenclature until further notice.

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

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

Very truly yours,

OIL CONSERVATION COMMISSION

Dist.
Orig. Operator
cc: Each transporter



Amoco Production Company

Post Office Box 68 Hobbs, New Mexico, 88240

March 19, 1973

File: VES-86-680 x WF

Da .

Back Pressure Test

Amoco's Malco "S" Federal No. 1

F-11-18-27

Eddy County, New Mexico

RETTIVED

MAR 20 1973

ARTICLE, OFFICE

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

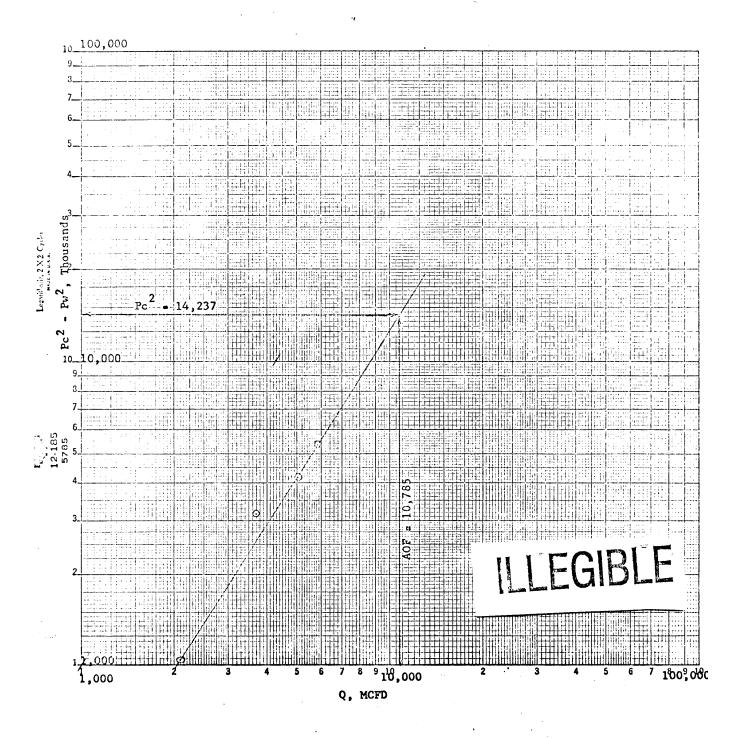
Gentlemen:

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

Yours very truly,

V. E. STALEY Area Superintendent

Attachments



EW MEXICO OIL CONSERVATION CC SSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Тур	e Test	_									Test De	ot•			MAR	20	197	7
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NO. OF CAPIES RECEIVED DISTRIBUTION

NEW MEXICO OIL CONSERVATION COMM. :ON

Form C-104

Ļ	SANTA FE	_/_				R	EQUEST I	FOR ALI	LOWABLE			des Old C-104 and vo 1-1-65	1 C-11
-	FILE	-4	V					AND		4.TUD41.0			
1	U.S.G.S.			AUT	HURIZA	A 1 101	I IU IRA	NSPURT	OIL AND N	ATUKAL G	M)		
1	OIL	7								ike-7			
1	TRANSPORTER GAS	7					i	REC	EIVE				
Ì	OPERATOR	1			•		,						
ı. İ	PRORATION OFFICE							CFD	1 2 1976				
	Operator	IOT	101	1 CO24D	A 5 1 3 2	/		JLI	1.0				
	AMOCO PRODU	101	ION	I COMP.	ANY				3. C. C.				
	Address	1100	Trv	KC 70000				L	ESIA, OFFIC	Ĩ			
ļ	P.O. DRAWER A, LEVEL	'רעעה'	, ILA	42 1323D			· · · · · · · · · · · · · · · · · · ·	ANI			+ 8-1-76		
	Reason(s) for filing (Check p.	roper	oox,		e in Tran	sporter	of:				DUCTION C		
	New Well Recompletion			Oil			Dry Ga	s 🔀	1				
	Change in Ownership				head Ga	s 🗍	Conden		To: GA	s Compi	any of NE	W MEXICO	,
Į													
	f change of ownership give and address of previous ow												
	ind address of previous on												
II.	DESCRIPTION OF WEL	L A	ND	LEASE		Naza	Including F	ormation	- G- 1	Kind of Lease	· · · · · · · · · · · · · · · · · · ·	Lease	No.
Ì	Lease Name			! .					gas			RAL LC-06	
	MALCO "S" FED	ERA	4 1	$\bot\bot\bot$	رد	000	IN DEAN	Y- /1/0	RROW		, , , ,	1011 00	100
	Location	,	1. 4	ζΛ <u>.</u> .		. 1/0	RTH Lin	o and	1653	Feet From	The WES	-	
	Unit Letter	. ; L .	0.	Feet Feet	From The	e_////	ICIM_ LIN	e ana	1000				
	Line of Section	<i>t</i>	Tov	wnship	18 - 3	S	Range	27 · E	, NMPM	. <i>É</i>	POY	Co	unty
II.	DESIGNATION OF TRA	NSP	OR'	TER OF C	IL ANI	D NAT	URAL GA	S	(C	o which appro	und copy of this	form is to be sent,	
	Name of Authorized Transpor				or Conder	_							
	AMOCO PRODUCT	LION	1 C	<u>OMPAN</u>	Y - TR	UCK:	<u>S</u>	Box	(Give address)	o which appro	ved copy of this	700/ form is to be sent,)
							Gas	FIRST	INTER	VATIONAL	Bldg.	LAS, TX 752	70
	GAS COMPANY		Δ	EW (4)	EXIC Sec.	O Twp.	P.ge.	Is gas a	ctually connect	800 ed? Wh	en OAL	Hy / K / U to	
	If well produces oil or liquid give location of tanks.	is,		, m	11	10	27		YES	i	12-27-	72	
						1.70		-:		r number:			
	If this production is commi	ingle	d wi	th that from	any ou	ner tea	se or poor,	give com	migning order				
			1	(V)	OII We	ell	Gas Well	New Wel	1 Workover	Deepen	Plug Back	Same Resty. Diff.	Hes.v
	Designate Type of C	omp	leti		1		<u> </u>	 			P.B.T.D.		
	Date Spudded			Date Com	ol. Ready	to Pro	d.	Total De	epth		P.B.1.D.		
				Name of F	anducted	Forma	Hon	Top Oil	/Gas Pay		Tubing Depth		
	Elevations (DF, RKB, RT, C	GR, ei	tc.j	Name of F	Toducting	1 Offine		1.00					
	Perforations			J				<u> </u>			Depth Casing	Shoe	
	Periorations												
					TUBI	NG, C	ASING, AN	D CEMEN	ITING RECOF	₹D			
	HOLE SIZE			CAS	ING &				DEPTH S		SAC	KS CEMENT	
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											and must he so	ual to or exceed to	p allo
V.	TEST DATA AND REQ	UES	TF	OR ALLO	WABLI	E (T	est must be a ble for this d	epth or be	for full 24 hour	<i>s)</i>		4.100 / 120114	,
	OIL WELL Date First New Oil Run To	Tank	5	Date of T	est			Product	ing Method (Flo	w, pump, gas l	ift, etc.)		
	Date 1 May 110 m Chi 110 m	-										<u> </u>	
	Length of Test			Tubing P	tessme			Casing	Pressure		Choke Size		
								<u></u>			- VGF		
	Actual Prod. During Test			Oil-Bbla	•			Water-	Bble.		Gas-MCF		
								<u> </u>					
	-										•		
	GAS WELL			1	1 Tant			Bbl= C	Condensate/MMC	CF	Gravity of Co	ondensate	
	Actual Prod. Test-MCF/D			Length o	; 1081			SDIB.	Condensary MINIC				
		k nr 1		Tubing P	ressure /	Shut-	in)	Casina	Pressure (Shu	t-in)	Choke Size		
	Testing Method (pitot, back	n pri)		, uning P			,		•	•			
								1	OII	CONSERV	ATION COM	MISSION	
VI	CERTIFICATE OF CO	MPI	JIAI	NUE					0.14	CED 1 4	1976		
	I hereby certify that the	.,,1	B = -4	regulation	a of the	Oil C	onservation	3	ROVED	<u>5tr 14</u>	1970	, 19	
									11	1.U. L	nosset		
	above is true and compl	lete	to ti	ne best of	my kno	wiedge	and pelief	BY_		· ·			

TITLE SUPERVISOR, DISTRICT IL

0;4-NMOCC-ART Administrative Assistant 1- DIV 1-1MG (Title) 1-Hondo 9-3-76 1-. Susp 1-RL

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

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

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

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

Sparate Forms C-104 must be filed for each pool in multiply complet d weeks.

NO. OF CUPIES RECEIVED DISTRIBUTION SANTA FE FILE 110 u.\$.G.S. LAND OFFICE TRANSPORTER GAS

REQUEST FOR ALLOWABLE AND

AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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

GAS 1	ØE	CEIVED	
OPERATOR	17 =		
PRORATION OFFICE			
perator	. Z	AN 28 1977	
Address	Y ′		
	J T 70226	D. C. C.	
P.O. Drawer A, Levelland Reason(s) for filing (Check proper box)	d, Texas 79336	TESIA, Office (Please explain)	ff. 8-1-76
New We!1	Change in Transporter of:	Giner (a source of pression)	11. 0 1 70
Recompletion	Oil Dry Gas	• X From: Gas Compan	y of New Mexico
Change in Ownership	Casinghead Gas Conden		uciton Company
and an emercing			
if change of ownership give name			•
and address of previous owner			
DESCRIPTION OF WELL AND	LFASE		
_ease Name	Well No. Pool Name, Including Fo		_
Malco "S" Federal	1 Scoggin Draw-	-Morrow J State, Federal	C-067858
Location			
Unit Letter / F ; 1	650 Feet From The North Line	e and 1653 Feet From 7	rhe West
Line of Section 11 Tov	waship 18-S Range 27	7-E , ммрм, Edd	y County
		•	
DESIGNATION OF TRANSPORT	TER OF OIL AND NATURAL GA	S Address (Give address to which approx	and appropriate form in to be cent.
Name of Authorized Transporter of Oil			
Amoco Production Comp		Box 1183, Houston, Tex Address (Give address to which approx	as //UU1
Name of Authorized Transporter of Cas		!	1
Amoco Production Comp		P.O. Drawer A, Levellan Is gas actually connected? Who	
li well produces oil or liquids,	Unit Sec. Twp. Rge. F 11 18 27	Yes	12-27-72
give location of tanks.		h	12-27-72
	th that from any other lease or pool,	give commingling order number:	
COMPLETION DATA	Oil Well Gas Well	New Well Workover Deepen	Plug Back Same Res'v. Diff. Res'v.
Designate Type of Completic		1 1 1	
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
Date Spadada			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Ferforations	<u> </u>		Depth Casing Shoe
	TUBING, CASING, AND	CEMENTING RECORD	
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
			1
		<u> </u>	
TEST DATA AND REQUEST F	OR ALLOWABLE (Test must be a	fter recovery of total volume of load oil oth or be for full 24 hours)	and must be equal to or exceed top allow-
OIL WELL	Date of Test	Producing Method (Flow, pump, gas li	ft. etc.)
Late First New Oil Run To Tanks	Date of .est	Producing Marines (1 tool Power, See	,,,
	Tubing Pressure	Casing Pressure	Choke Size
Length of Test	I daing Pressure		ρ_0
Actual Prod. During Test	Oil-Bbls.	Water - Bbls.	Gas-MCF
Actual Prod. During 1981	S 52.5.		1 2000 11
		<u> </u>	· Maria
GAS WELL			7
Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
CERTIFICATE OF COMPLIAN	CE	OIL CONSERVA	ATION COMMISSION
- OLIVIII OF COMPLETE	· 	1 107	7
i hereby certify that the rules and	regulations of the Oil Conservation	APPROVED JAN 31 19	. 19
Commission have been complied	with and that the information given	Wa Lu	essett
above is true and complete to th	e best of my knowledge and belief.	BY	
		TITLE	

Administrative Assistant

(Title)

1-26-77

U&4 NMOCC-Art (Date)

1-JMG 1-Susp
1-QC

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

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

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

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

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

Form 9–331 Dec. 1973 UNITED STATES		Form App Budget B	proved. ureau No. 42-R1424
DEPARTMENT OF THE INTERIOR	5. LEASE	2011	* *
	LC-067858		1.27
CARE GEOLOGICAL SURVEY	6. IF INDIAN,	ALLOTFEE OR	TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir, Use Form 9–331–C for such proposals.) 1. oil gas	7. UNIT AGRE 8. FARM OR L Malco "S"	EASE NAME	DEC 2910
well well other	9. WELL NO.		AHIEGIA CERCI
2. NAME OF OPERATOR	1		
Amoco Production Company /	10. FIELD OR V	VILDCAT NAM	E
3. ADDRESS OF OPERATOR	Scoggin D	raw - Mor	row Gas
P. O. Box 68, Hobbs, NM 88240 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	AREA	., m., or blk. 1-18-27	AND SURVEY OR
AT SURFACE: 1650' FNL X 1653' FWL, Unit F AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E AT TOTAL DEPTH:	12. COUNTY O		B. STATE NM
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.	14. API NO.		
REQUEST FOR APPROVAL TO: SUBSEQUENT, REPORT OF	15. ELEVATION 3587 ' RDB	IS (SHOW DF	, KDB, AND WD)
TEST WATER SHUT-OFF			
PULL OR ALTER CASING	ichange :	esults of multip on Form 9–330.	le completion or zone)
ABANDON* U.S. GEOLÓGIC ROSWELL, NEW	AL SURVEY / MEXICO		

th Correct Graffig. 12

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

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

0+4- USGS, A	1-Hou	1-Susp	1-CLF	r ^r		(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Subsurface Safety Valve: N	Ոanu. and Туբ	e				Set @	·	144.	_ Ft.
18. I hereby certify that the		true and correct		Analyst D	ATE		(5		
			or Federal or Sta			APPR	0 7	ED	\exists
APPROVED BY		TITLE			DATE		<u>: :</u>		
CONDITIONS OF AFFROYAL,		*See Inst	ructions on Rev	verse Side		DEC 2 LLL JAMES A DISTRICT	ı. Gil	.LHAM	

NM OIL CON COMMISSION Drawer DD

Artesia, NM 88210

Form 9-331 Form Approved. Dec. 1973 Budget Bureau No. 42-R1424 RECEIVED UNITED STATES 5. LEASE DEPARTMENT OF THE INTERIOR LC-067858 GEOLOGICAL SURVEYDEC 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME SUNDRY NOTICES AND REPORTSOON WELLS (Do not use this form for proposals to drill or to deepen proposals to a different reservoir. Use Form 9–331–C for such proposals.) 8. FARM OR LEASE NAME Malco "S" Federal well X other well 9. WELL NO. 2. NAME OF OPERATOR 1 Amoco Production Company 10. FIELD OR WILDCAT NAME 3. ADDRESS OF OPERATOR Scoggin Draw Morrow Gas P. O. Box 68, Hobbs, NM 88240 11. SEC., T., R., M., OR BLK. AND SURVEY OR 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 **AREA** 11-18-27 AT SURFACE: 1650' FNL X 1653' FWL, Unit F 12. COUNTY OR PARISH 13. STATE AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E Eddy AT TOTAL DEPTH: 14. API NO. 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 15. ELEVATIONS (SHOW DF, KDB, AND WD) 3587 RDB REQUEST FOR APPROVAL TO: SUBSECU TEST WATER SHUT-OFF X FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (NOTE: Report results of multiple completion or zone PULL OR ALTER CASING DEC 3 1982 MULTIPLE COMPLETE CHANGE ZONES OIL & GAS ABANDON* MINERALS MOMT. SERVICE (other) ROSWELL, NEW MEXICO 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Propose to fracture stimulate Morrow interval 9621'-9929' (non-continuous) as follows: Pull tubing and packer. Set a packer at apx. 9520'. Fracture stimulate with 20000 gal 40# gelled 2% KCl water commingled with 10000 gal CO2 carrying 20500# 20/40 sand. Flush with 3000 gal 2% KCl brine water and 1000 gal CO2. Flow and kick off well. If well won't flow, pull packer and run 3 joints tubing as tailpipe with 1.81" profile nipple 1 joint off bottom, landing tubing at apx. 9530'. Set a packer in $5\frac{1}{2}$ " liner at apx. 9430'. Run on-off tool with 1.875" profile nipple in seal mandrel. Run 2-3/8" tubing to surface and hydro test tubing. Flow test and return well to production. 0+4-MMS,A 1-H0U 1-SUSP 1-CLF Subsurface Safety Valve: Manu. and Type __ Set @ _____ 18. I hereby certify that the foregoing is true and correct SIGNED CATE Cropan TITLE Ast. Adm. Analyst DATE 11-30-82 APPROVED (This space for Federal or State office use) APPROVED BY Sgd.) PETER W. CHESTER DATE CONDITIONS OF APPROVAL, IF ANY: DEC 8 **198**2 FOR JAMES A. GILLHAM ee Instructions on Reverse Side DISTRICT SUPERVISOR

RECEIVED BY	7			~	45.
(November 1983) II C	UIS. COMMISSION	· 	SUBMIT IN T (Other instru		Form approved. Budget Bureau No. 1004-0136
JAN-117985 -	CAS. COMMISSION	ED STATES	reverse i	side)	Expires August 31, 1985
Artesia,	THE 188 STPINEIN	OF THE INTE			5. LEASE DESIGNATION AND SERIAL NO.
O. C. D.		LAND MANAGEM			LC-067858
MENOL PERCHON	FOR PERMIT 1	O DRILL, DEE	PEN, OR PLUG I	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK DRIL b. TYPE OF WELL	. =	DEEPEN 🗆	PLUG BA		7. UNIT AGREEMENT NAME
OIL K WE	OTHER /	Recomplete	SINGLE MULTII	PLE	S. FARM OR LEASE NAME
2. NAME OF OPERATOR	ad time Co				1/olco S' rederal
3. ADDRESS OF OPERATOR	vancuon Co	meany			9. WELL NO.
_ P.O. Box 0	08, Holbs Ni	M 88240			10. FIELD AND POOL OR WILDPAT
4. LOCATION OF WELL (Re At surface			State requirements.*)		Chalk Bluf Wolfcamo
	1650' FNLX I				11. SEC., T., E., O., OR BLE. AND SURVEY OR AREA
At proposed prod. zone	(5E/4 NW/4	Unit F)			11-18-27
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST OFF	ICE*		12. COUNTY OR PARISH 13. STATE
15. DISTANCE FROM PROPOS	IED*	118	NO. OF ACRES IN LEASE	17 No 0	Eddy NM
LOCATION TO NEAREST PROPERTY OR LEASE LI	NE. FT.	10.	NO. OF ACRES IN LEASE		HIS WELL
(Also to nearest drlg. 18. DISTANCE FROM PROPO	SED LOCATION*	19.	PROPOSED DEPTH	20. ROTAL	40 BY OR CABLE TOOLS
TO NEAREST WELL, DR OR APPLIED FOR, ON THIS	LEASE, FT.		7610'	Rot	any
21. ELEVATIONS (Show whet					22. APPROX. DATE WORK WILL START*
3587 <i>j</i>	RDB	DODOGED GARANE AL	ND CEMENTING PROGR		
2.20 02 2012			- <u>, </u>	AM .	
size of Hole	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	-	QUANTITY OF CEMENT
11"	85%	32 #	6348'	1	300 sta
77/8"	51/2" liner	17 [±]	6277-10/38'	8	155 A/Va
0 1 1	11	1			
Propose to aband	on the Morror	v and recomp	slete to the h	olfcam	o as follows:
OH with products	1.	/		0	0
OH WUM producii	ion squipmeni	, ,	11 1.	. 1	1 1 1 - 1
RIH and set C	IBP at 9500	and cap w	th 35 (5 Mg) Class	H' meat cont. Top of mo
1 %					10
at 9490'.					241
Sout a 250' ((25 px) class	AH nest De	us from 18	60-761	0. × Place mud between
Run CBL la	om 7500-65	<i>i00</i> .			
If there is not a	modernt. l	rond betwee	n 7000'-7400	'a sup	estemental procedure t
S Made Normal M	9000 0114 33	51.5q 20.000 GB		1	
					uctive sone and proposed new productive I and true vertical depths. Give blowout
preventer program, if any.					
24. SIGNED Say	C. Clark	TITLE	Rest. admin. (malys	1 1-7-84
(This space for Federa	al or State office use)				
PPDMIT FO			ADDDOVAT DAMM		
PERMIT NO.	1/ ./-	antry	APPROVAL DATE		/
APPROVED BY	earl Lally	TITLE _	<u> </u>		DATE
CONDITIONS OF APPROVAL	TOO I-FTN	1-600 2-Nn	LOCD, A		
0+5 BLM,C 1-	JRB I-FIN	1 000 2 700	w-0/11		

*See Instructions On Reverse Side

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

place cont behind pipe will be issued. (a) Perforate Wolfcamp intervals 7046-62, 7090-7100, and 7382-88 W/4 DPJSPF using a 3/8"gun. @ RIH with RBP, they, and pler. Set RBP at 7450's pler. at 7280'. & Swob and flow test well D Stimulate Wolframs 7382-88' with 1000 gals 15% NEFE Hel gelled acid w/add, and 1000 gals nongelled 15% NEFE Hel w/add. Flush with 30 bblo fresh water. O Swab and flow test well W Release phr, lower and latch onto RBP. Pullup RBP to 7200' and spot 10' Rand on Top. Set phr at 6850. D'Swab and flow test gross interval 7046-7100'. (13) Stimulate Wolfcamp 7046-62' and 7090-7100' as follows: * Tag allacid W/RA material a) Run before treatment GR Temp survey 7/70-6800 6) Pump 4000 gals 15% NEFE HCl gelled acid W/add in 2 equal stages C) Pump 1000 gals 15% NEFE HCl acid W/add D) flush said with 29 bbls fresh water e) Run after treatment survey 7170-6800 1 Swob and flow test well (5) Release plus and POH with RBP, plus, and they.
(6) RIH with 236" they with seating nipple on bottom. Land they at 7450' and anchor at 7350' 1) Run rods and pump and return well to production.

W MEXICO OIL CONSERVATION COMMIT ON WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section Well No. Actual Footage Location of Well: North 1650 West line and Dedicated Acreage: 3587 Arres 1. Outline the acreage descrated to the subject well by colored perfoil or haphure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? Yes No If answer is "yes," type of consolidation _ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)_ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 1650 1653 I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 1320 1650 1980 2310 2640



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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OIL CONSERV	ATION DIVISION Format 06-01-83
P. O. E	Page 1
LAND OFFICE SANTA FE, NE	W MEXICO 87501
THANKS	
	OR ALLOWABLE
AUTHORIZATION TO TRAN	AND SPORT OIL AND NATURAL GAS
Charater 2	SPORT OIL AND NATURAL GAS
L'Amoco Production Company	
P.U. Box UB. Holles NM 88240	
Reception of thing (Check proper box)	Oiner (Please explain)
Change in Transporter of:	Request 1000 bbs testing allowable
	Condensate 7090 - 7388 (Wolfcomp perfo)
Charge in Ownership Capinghead Gas	Condensate 7070 7380 College 120975
If change of ownership give name and address of previous owner	I TOTAL B
II. DESCRIPTION OF WELL AND LEASE	
Miles S Festeral Well No. Pool Name Including	Williams State (Federal or Fee 11-114705 a
Location	State (Federal or Fee LC - 067858
Unit Letter F : 11250 Feet From The North Li	ne and 1653 Feet From The West
Lino of Section // Township /8-5 Range	27-E, NMPIA, Eddy COUNTY
III. DESIGNATION OF TRANSPORTER OF OIL AND NATURA	
Name of Authorized Transporter of CII or Condensate or	L GAS
The Permian Corporation pormer 154 9/1/87	Andrees (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casingneed Gas or Dry Gas	Address (Give address to which approved copy of this form is to be sent)
	additional approved copy of this form is to be sent)
If well produces oil or liquias, Unit Sec. Twp. Rge.	is the actuality connected? When
give location of tanks.	// when
If this production is commingled with that from any other lease or pool,	TIVE COMPLICATION
YO'TE. C	give commingling order number:
NOTE: Complete Parts IV and V on reverse side if necessary.	
VI. CERTIFICATE OF COMPLIANCE	01 5010-
	OIL CONSERVATION DIVISION
I hereby certify that the rules and regulations of the Oil Conservation Division have	APPROVED MAR 6 1985
been complied with and that the information given is true and complete to the best of my knowledge and belief.	Original Stand D
•	Leslie A. Clements
//	TITLE : Supervisor District II
Mary (1 Clark	
Mary C. Clark	This form is to be filed in compilence with RULE 1104.
asst. admin analyst	If this is a request for allowable for a nowly drilled or deepened will, this form must be accompanied by a tabulation of the deviation toute taken on the well in accordance with nULL 111.
3-1-85 (Tale)	All rections of this form must be filled out completely for allowable on new and recompleted wells.
OFS NMOCD, A 1-JRB 1-FTN 1- GCC	Fill out only Sections I. II. II. and VI for changes of owner, well name or number, or transporter or other such change of condition.
	Separate Forms C-104 must be filed for each pool in multiply completed wells.

Designate Type of Complete	tion = (X)		Ges hell	New Well	Motrovet	Doepen	Plug Back	Same des'v. Dill. Re	
Data Epusaca	Date Compt. Re		•	<u> </u>	!	!		, Din. R	
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Perforations				<u> </u>					
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HOLE SIZE	CESING	70171G, C/	ASIRG, AND	CEMENTIL	G RECORD				
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OH WELL	FOR ALLOWA	ABLE (Tea	et must be af a for this det	ter recovary of	ficial volume	of load oil	i and must be eq.	ual to or exceed top cl	
OH WELL OUT FIRST DATA AND REQUEST OUT WELL OUT FIRST NOW OU RUN TO TENES	FOR ALLOWA	ABLE (Tea	et must be of a for this dec					ual to or exceed top cl	
OIL WELL DOIS FROM NOW ON RUN TO TORES	Dute of Test		et must be of o for this det	ter recovary opins or be for full Producing Ma				ual to or exceed top cli	
	FOR ALLOWA		et must be of o for this det		thod (Flow, p		i, etc./	ual to or exceed top cl	
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-ength of Yust	Dute of Test		et must be of o for this det	Producing Ma	ithod (Flow, p		Chore Size	eal to or exceed top cli	
TEST DATA AND REQUEST OIL WELL DETERMINED OF RUN TO TENER LENGTH OF TOLL LETTER PECAL DURING TEST	Tubing Process		et must be of oforthis dec	Producing Ma	ithod (Flow, p		i, etc./	ual to or exceed top cl	
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

DATE <u>March 6. 1985</u>

OIL CONSERVATION DIVISION

Drawer	DD		Ar	tesia	. N	И.
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DISTRICT OFFICE #2

Jan. thru Apr. 1985 NO. 2159 T

DISTRICT SUPERVISOR

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

PURPOSE	ALLOWABLE ASSIGNMENT - TESTING								
	Effective March 1, 1935 a testing allowable of 1000 barrels of oil is								
	hereby assigned to Amoco Production Company, Malco "S" Federal								
	#1-F-11-18-27 in the Chalk Bluff Wolfcamp Pool for the month of								
	March, 1985.								
	LAC: fc								
	Amoco Prod. Co.								
	PER								
•	OIL CONSERVATION DIVISION								
	Zon M. C. Con J.								

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Form 3160-5 UNI D STATES SUBMIT IN TRIPL TE	Buaget Bureau No. 1004-0135 Expires August 31, 1985
Rovember 1983) Commerly 9-331) DEPARTMEN: OF THE INTERIOR (Other instructions re-	5. LEASE DESIGNATION AND SERIAL NO.
BUREAU OF LAND MANAGEMENT DU	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS 13. WELLS (Do not use this form for proposals to drill or to decompany that to defend the control of the control o	
I.	7. UNIT AGREEMENT NAME
WELL WELL OTHER NOV 15 1985	8. FARM OR LEASE NAME
AMOCO PRODUCTION COMPANY	Malor "5" Federal
3. ADDRESS OF OFFICE	9. WELL NO.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.	10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface	Chalk Bluff Wolfdamp
1650 ' FNL x 1653' FWL	11. SEC., T., E., M., OR BLE. AND / SURVEY OR ARMA
(UNIT F, SE/4, NW/4)	1/-18-27 12. COUNTY OF PARISON 13. STATE
14. FERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	Eldu NM
300/5205/0 SSB//KDD 16. Check Appropriate Box To Indicate Nature of Notice, Report, or C	Other Data
	NENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CASING
BHOOT OR ACIDIZE ABANDON® SHOOTING OR ACIDIZING CHANGE PLANS (Other)	ABANDONMENT®
(Nors: Report results	of multiple completion on Well etlon Report and Log form.)
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertice, nent to this work.) 	including estimated date of starting any all depths for all markers and sones perti-
Propose to permanently Plug : Abandon as follows: Notify BLM prior	commencing operations.
1. MISU and POHwith rode, pump, and taking.	U
2. RIH with CIBP and set at 6995'. Cop CIBP with 35' class Hee	ment. Run CBL from 6000'to TCMT.
3. Displace hole from 6960' to suspece with 9#/gal gelled brine (at	Least 25 sx gel/1008Ble trine).
4. Spot 325x class Hicement from 6400'-6225'. (Cover 878" csg. St	Loe and top of 5 1/2 "liner.)
5. Spot 265x clase (West rement (\$100') across the TCMT found in	istep 2 above.
6. Perforate 898" caring from 1050'-1049' with 4JSPF.	
7. RIH with 878" cement retainer. Set retainer at ± 950'. Sting into	retainer and pump 3005x class C
Neat coment and circulate to surface them 878" and 113/8" brades	headoutlet.
8. Spot 10 sx Class (Neat coment from 40' to Surface. Lemove well head	and mistall Px A Marker.
0 + 5 BLM / , 1 - JRB, 1 - FJN, 1 - CMH 18. I hereby certify that the foregoing is true and correct	1 1 -
SIGNED TITLE Administrative Analyst	SG) DATE 9/30/85
(This space for Federal or State office use)	11-111-85
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	DATE 11-14-85

*See Instructions on Reverse Side

N. M. O. C. C. COPY
ED STATES SUBMIT IN TRIE 1U

Form approved.

(May 1965)	DEPARTMEN FOF T		(Other Instruction verse side)	Budget Bu	Ireau No. 42-R1424 ON AND SERIAL NO.
	UNDRY NOTICES AND this form for proposals to drill or to Use "APPLICATION FOR PERI			6. IF INDIAN, ALLOT	THE OR TRIBE NAME
1. OIL GAS WELL WE	on Cires	LING		7. UNIT AGREEMENT	NAME
	Juction Company 🗸			8. FARM OR LEASE	
3. ADDRESS OF OPER	SS, N. M. 88240		•	9. WELL NO.	
	I. (Report location clearly and in acc	ordance with any State	requirements.•	10. FIELD AND POOL	, OR WILDCAT
1650° F1	7L × 1653 FWL	Sec 11 (Unit	1 F, SE/4 (YK)	11. SEC., T., R., M., G SURVEY OR AL	PR BLK. AND
14. PERMIT NO.	15. ELEVATIONS	(Show whether DF, RT, GI	R, etc.)	12. COUNTY OR PAR	ISH 13. STATE
16.	Check Appropriate Box	To Indicate Nature			
Mobile A On 2-16 @ 1000	MULTIPLE COMPLETED OF ERATIONS (Clearly If well is directionally drilled, give the complete of	state all pertinent deta e subsurface locations u ALA 15" A A7 K-5 CON+2%	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING ON ACIDIZING (Other Apport r (NOTE Report r Completion or Re ils, and give pertinent and measured and true of Sola 2:30 55 Caoina CACL 4 5;	esults of multiple completic completion Report and Log dates, including estimated certical depths for all mark PM 10-16- LG WOS LOG Torplug	G CASING MENT* of on Well form.) date of starting any ters and zones perti
W/ 2000	ps, job 30. ed hule to 11		Test O. R	C	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
		OCT	EIVED 2 2 1971 C. C. A. Office		
18. I hereby certify t	hat the foregoing is true and correct		, cy 400 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
SIGNED		AREA S	UPERINTENDENT	DATE 357	হ ৫ খ্রা
(This space for F	ederal or State office trop	TITLE			
CONDITIONS OF	APPOPULATE ANY			DATE	

0. 4. USGS-FIRD OCT 2 1971
1- SUSP
2- HONDO-ROSMEKI BEEKMAN
2- HONDO-ROSMEKI BEEKMAN
ROTING DIETONT FROM See Instructions on Reverse Side

		THE INTERIOR verse side)	
	GEOLOGICAL		5. LEASE DESIGNATION AND SERIAL NO. LC-C57858
	UNDRY NOTICES AND this form for proposals to drill or to Use "APPLICATION FOR PER	REPORTS ON WELLS of deepen or plug back to a different resMIT—" for such proposals.)	6. IF INDIAN, ALLOTTEE OR THIBE NAME servoir.
CIL GAS		ING	7. UNIT AGREEMENT NAME
	eduction Company /		MALCO PA BULLA
BOX 63, HOBBS			9. WELL NO.
See also space 17 At surface	7 below.)	ordance with any State requirements.	10. FIELD AND POOL, OR WILDCAT WILD CAT 11. SEC., T. R., M., OR BLE. AND BURYET OR AREA
		c. 11 (F, SE/4 1YW/4	11-18-27 NMPP
4. PERMIT NO.	15. ELEVATIONS	S 687 R. D. B.	EDDY 13. STATE
3.	Check Appropriate Box	To Indicate Nature of Notice, I	Report, or Other Data
	NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:
TEST WATER SH FRACTURE TREAT			
SHOOT OR ACIDIZ	ZE ABANDON*	SHOOTING OR	ACIDIZING ABANDONMENT*
REPAIR WELL (Other)	CHANGE PLANS	(Other) (Note: Completi	Report results of multiple completion on Well -
@ 6348	3' w/ 300 P4.) 24-36 ^H Casa Class H. ne	
1011	rs, Troted Cu	sing w/ 1500	o psi for 30 min
Isst (rs, Troted Cu O.K.	sing w/150	o psi for 30 min
Test Reduce	rs, Troted Cu O.K. Led hole Lo 7%	sing w/150	o psi for 30 min
Test C Reduce	rs, Tisted Cu O.K. Led hole Lo 7%	sing w/150	o psi for 30 min
Jest C Reduce	rs, Tisted Cu O'K Led hole Lo 7%	sing w/150	o psi for 30 min
Test C Reduce	rs, Troted Cu O.K. Led hole to 7%	sing w/1500 8"@ 6348 and	o psi for 30 min resumed drillin RECEIVED NOV 15 1971
Test C Reduce	rs, Troted Cu O.K. Led hole to 7%	sing W/1500 8"@ 6348 and RECEIV	PSI FOR 30 min NISUMED WILLIAM RECEIVED NOV 15 1971 U. S. GOLDHOAL SOMMERTENIA, MSW MINING
	rs, Troted Cul	NOV 16 197	Novision Some
8. I hereby certify		RECEIV NOV 16 197 AREA SUPERINTENDEN	Desi for 30 min
8. I hereby certify SIGNED (This space for APPROVED BY	that the foregoing is true and correct	RECEIV NOV 16 197 AREA SUPERINTENDEN	Desi for 30 min
8. I hereby certify SIGNED (This space for	that the foregoing is true and correct	RECEIV NOV 16 197 C. C. C. ARTESIA, OFFICE TITLE AREA SUPERINTENDEN	DATE NOV 14 177
SIGNED	Federal or State office use)	RECEIV NOV 16197 C. C. C. ARTESIA, OFFICE TITLE AREA SUPERINTENDEN	DATE NOV 14 177
SIGNED (This space for APPROVED BY CONDITIONS OF USGS-P-SUSP-RRY	Federal or State office use)	RECEIV NOV 16 197 C. C. C. ARTESIA, OFFICE TITLE AREA SUPERINTENDEN	DATE HOY 14 TT
SIGNED	Federal or State office use)	RECEIV NOV 16197 C. C. C. ARTESIA, OFFICE TITLE AREA SUPERINTENDEN	DATE NOV 14 177

Form	9 - 331
(May	1963)

U TED STATES M. O. C. C. COPY SUBMIT IN TR (Other Instruction Verse side)

CATE* on re-5. LEASE DESIGNATION AND SERIAL NO. A STION AND SEL

3	FOI	OGICAL	SURVEY	

TIME .	ANID	DEDODTE	ONL WE	HIC

6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.)

REBEIVE! 7. UNIT AGREEMENT NAME weer [2. News or Germanon, Company / S. FARM OR LEASE NAME .072 Phy 3. ADDRESS OF OPERATOR 98 JO, HOBBS, N. M. 88240 ROCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 10. FIELD AND POOL, OR WILDCAT 11110000 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NNON 14. PERMIT NO. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

TEST WATER SHU	T-OFF	 PULL OR ALTER CASING		WATER SHUT-OFF REPAIRING WELL
FRACTURE TREAT	j-	 MULTIPLE COMPLETE		FRACTURE TREATMENT ALTERING CASING
SHOOT OR ACIDIZE	E .	 ABANDON*		SHOOTING OR ACIDIZING ABANDONMENT
REPAIR WELL	Ĺ	 CHANGE PLANS	 l	(Other)
(Other)				(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

TONY TIES-TEMPSUNEY DISTULL LED MAY TONES WITHESEN
JON 20 MOUNT ONE ON SON CON 2000 PEIL ON. 1 3521-27, 67:12, 82; 86 0/25PF.

RECEIVED

DEC29 1971

U. S. GROLOGICAL SHOWER ARTESIA, NEW LATERCO

TV 10103		
11/10	of Transfer A of the	
Was to	1000 110200 1 50000	
18. I hereby certify that the foregoing by true and cor		
	AREA SUBSCIAISENDENE	

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

TITLE DISTRICT ENGINEER

DADEC 2 9 1971

*See Instructions on Reverse Side

N. M.

1.	O.	C.	C, 1	COBA

SUBMIT IN DUP. ATE+

U .TED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(See other in-structions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

L	C-	O	6	18	5	8	
						TRIBE	

	_			44.00			.C- U6	7858
WELL CO	MPLETION (OR RECOMI	PLETION I	REPORT AN	ID LO	G * 6. 11	INDIAN, ALL	OTTEE OR TRIBE NAME
ia. TYPE OF WEL	L: OII.	GAS WELL				7 11	NIT AGREEMEN	um NAMB
b. TYPE OF COM	WELL PLETION	WELL X	DBY. []	Rue CE	VE		VII AUREDIE	I HAME
NEW NEW	WORK DEEP-	PLUG BACK	DIFF. CESVR.	Other	3	8. F.	ARM OR LEASE	NAME
			HEISTE, LEE		1070	ma		
Amoco I	Production Co	ompany 🏑	• •		1972	9. w	ELL NO.	<i>TEDERAL</i>
3. ADDRESS OF OPER	RATOR				- 		7	
BUA YUB	1083S, N. M. 882	240		ART		/10. 1	IELD, AND ROC	DL, OR WILDCAT
4. LOCATION OF WEI	LL (Report location	clearly and in acco	ordance with an		nte)	199	gin pr	En mener
At surface			4 6			11.	SEC., T., B., M.,	OR BLOCK AND SURVEY
1650 FNL	v 1653 FW	L Sec. 11 (7, 2014	NW/4	l	1	OR AREA	5-1-72
	-				. [
At total depth				<u> </u>			<u>-18-2</u>	MAWN
			14. PERMIT NO.	DATE	ISSUED		OUNTY OR	13. STATE
			<u> </u>		1	E	אסכ	N.W.
5. DATE SPUDDED	16. DATE T.D. REAC	1	OMPL. (Ready t	1 -0		DF, REB, RT, GR,		ELEV. CASINGHEAD
10-16-71	15-2-(1		<u>- 20-7</u>		3581		3.	
). TOTAL DEPTH, MD		BACK T.D., MD & TVD	HOW M	TIPLE COMPL.,		LLED BY	ARY TOOLS	CABLE TOOLS
10,168	RVAL(S), OF THIS CO	,000	DTTOM NAME (VD AND TVD) •	31	<u>→ O</u>	TD	5. WAS DIRECTIONAL
, 11000 cm 11121	mb(b), or mis co	mibblion—loi, b	, , , , , , , , , , , , , , , , , , , ,		1			SURVEY MADE
0621-99	929'		7.			ام آهي. د آهي		No
	AND OTHER LOGS RUN	4			-		27. v	WAS WELL CORED
GR-M.	PROX PORC	SITY. ET	<u>ر</u>	hiv.				No
3.				ort all strings set				
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET	MD) HO	LE SIZE	CE	MENTING RECORI		AMOUNT PULLED
11 34"	47	_ ĬÕŎ	<u>Q. </u>	15	7 () 5 x		
8 5/8"	32 #	654	<u> </u>	11,,,				
5 /2"LING	= 1·/	<u> 6217-101</u>	38	ገ %"	855	· · · · ·		
).	LI	NER RECORD		<u> </u>	30.	TUBIN	G RECORD	
SIZE			CKS CEMENT*	SCREEN (MD)	SIZE		SET (MD)	PACKER SET (MD)
					2 3/		 	9491
			7		!			
. PERFORATION REC	CORD (Interval, size	and number)	12	82. A	CID, SHOT	FRACTURE,	EMENT SQU	JEEZE, ETC.
9621-27.6	7-72 82 86		<i>/</i>	DEPTH INTERVA		AMOUNT	ND KIND OF	MATERIAL USED
9735, 39;	.7-72, 82, 86 42; 12; 75-8 58, 64, 66;	4, 91-95		9735- 992	29	300 ga	<i>L10%H</i>	CF x 3% HCL
9851-56; 5	58; 64; 66;		•		·			
9 929.		wlo icas		(
i.*		w/2JSPF	DDC.I	OUCTION				
TE FIRST PRODUCTI	ION PRODUCT	ION METHOD (Flos		umping—size and	type of pu	mp)	WELL STATE	s (Producing or
12-16-21		w	1.7	1		F .	SHIII.	TN
TE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR	OIL-BBL.	GA8M	CF. WAT	DR—BBL.	GAS-OIL RATIO
1-2-72	4	VARIOUS	TEST PERIOD	9.3	7	08	0	76 136
OW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS MCT.		WATER-BBL.	OIL C	RAVITY-API (CORR.)
035-2689	PKK		<i>5</i> 6 `	10 78	5	<u> </u>	0	.54°
. DISPOSITION OF G.	AS (Sold, used for fu)	· .	12	TEST	WITNESSED B	Y SEE SEE
10 BE S	OLD - ///	ARKET HE	MOING		<u>:-</u>	10	ECE!	VW
), LIST OF ATTACH)	MENTS		-	i ka 🗐	-31			2-10
NONE	that the foregoing	and attached lud-	metion to come	ia i g	: [] (=] (E. 5	JAN- 6	19/6
mercaj ceruny	toreRouth !	and attached intor		 1 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4.1	eu irom all ave	name record	A SHEET
SIGNED			TITLE A	rea superintei	NDENT	Ų. 10	THE ME	M MARCO
565- Det							וייייייייייייייייייייייייייייייייייייי	

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

NSTRUCTION

or both pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitting a complete and correct well completions. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to occal, area, or regional procedures and practices, etheral and correct may be obtained from, the local Federal and correct the submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation pressure this submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure this submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure the pressure and pressure the pressure and surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments about a life of a separate production from more than one interval zone (multiple completion) is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Interval, or intervals, top (s), bottom(s) and name(s) (if any) for only the interval zone (multiple completion), so state in tem 22, and in item 24 show the produced, showing the additional data pertinent to such interval.

Interval: Submitty separate completion report on this form for each interval reported in ferma 22 and 24 above.)

Submitty separate completion report on this form for each interval reported of showing the details of any multiple stage cementing and the location of the cementing tool.

TRUE VEST. DEPTH TO THE WARREST OF TOP DEPTH GEOLOGIC MARKERS HORES N. M. 82760 NAME 38. INCLUDING DATE COMPL. (Roadly TO THE CONTRACTOR 7 - 05 - 51 ACII T.D., ACI A TVO | 25, 11- MIN-MON | 100 A TVO | 100 MIN-2-5-71 12 21. pr.ug. eagel t.g., mp a tvo IC, CO. D. O. O. THER COLING NAME TESTS, CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM T TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES 2322<u>.</u> 2323<u>.</u> DESCRIPTION, CONTENTS, ETC. (0A) THE HT9G 1 ارد این ارد این LINER RECORD (GE) MOTTOS 513 fd المنا 929 SUMMARY OF POROUS ZONES:

BHOW ALL IMPORTANT ZONES OF POROSITY AND COMPANY INTERVAL TRETED, CUSHION USED, TIME FLUI CHOLE PLAS (CHICATES 2-105E RED 2-105E RED 1296 TOP Transferrence of the large of the state of the control of the cont : FORMATION 5 Data on Rovense Side) (See Instructions and Spaces for Aditional

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GOVERNMENT PRINTING OFFICE: 1963—O-683636

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UI 'ED STATES SUBMIT IN TRIP

Form approved. Budget Bureau No. 42-R1424.

Form 9-331 (May 1963)		ED STATES IN OF THE INTE	SUBMIT IN TRIP (Other instruction verse side)	TE• 5. LEA	Form approved. Budget Bureau ISE DESIGNATION AN	No. 42-R1424.
	JNDRY NOTICE	S AND REPORTS			INDIAN, ALLOTTEE (OR TRIBE NAME
1. OIL GAS WELL WELL 2. NAME OF OPERATOR	ı.	•	FEB 3 1972		IT AGREEMENT NAM	E
3. Address of Opera	S, N. M. 88240		C. C. ARTESIA, OFFICE		LL NO.	WILDCAT
See also space 17 At surface	below.)	,	F. SE/4 MW/4)	11. si	EC., T., R., M., OR BL. SURVEY OR AREA	R-4291
14. PERMIT NO.		5. ELEVATIONS (Show whether		12. cc	OUNTY OF PARISH	NMON 13. STATE NM
16.	Check Appro	priate Box To Indicate	Nature of Notice, Repo	ort, or Other D)ata = 5	
TEST WATER SHU	NOTICE OF INTENTION	OR ALTER CASING	WATER SHUT-OFF	SUBSEQUENT RE	PORT OF:	
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	E ABAN	TIPLE COMPLETE IDON* NGE PLANS	FRACTURE TREATME SHOOTING OR ACID! (Other) (NOTE: Repoi	zing	ALTERING CAS ABANDONMENT tiple completion or eport and Log form	• Well
المستوسع	200 augus S	Tallas me	Well No.	.		
Comp elle Changes	uru neru v	yon and	type we			
			•	F	JANGI	
18 I hereby certify:	that the foregoing is tru	ue and correct		· · · · · · · · · · · · · · · · · · ·		
SIGNED	6.7		AREA SUPERINTENDENT		DATE1	9 1872
APPROVED BY	Federal or State office u	se) TITLE _	DISTRICT ENGINEER	3	DATE FEB	2 1972
SGS- HAT	Fapperoval, if any				in Balas	ÉÉÉ
longs /		₹C I	ions on Reverse Side			

NO. OF COPIES RECEIVED

SANTA FE	i	FOR ALLOWABLE	Supersed	es Old C-104 and C-116
FILE (/		AND	Effective	1-1-65
U.S.G.S.		NSPORT OIL AND N	ATURAL GAS	•
LAND OFFICE	(DT-1-1-01-1-01-1-01-1-01-1-01-1-1-01-			
TRANSPORTER GAS GAS	DEC 2 9 1972	SURVEYS - BACK S	IDE)	
OPERATOR			ADT 20	015 00510
I. PRORATION OFFICE	O. C. C.		AP1-30-	015-20510
Operato Amoco Production C	ompan g			
Address				
BOX 68, HOBBS, N. M. 882	40			
Reason(s) for tiling (Check proper box,		Other (Please	explain)	
New Well	Change in Transporter of:			
Recompletion	Oil Dry Ga	is A		
Change in Gwnership	Casinghead Gas Conder	nsate		
If change of ownership give name and address of previous owner				
II. DESCRIPTION OF WELL AND	LEASE			
Leane Name	Well No. Pool Name, Including F		Kind of Lease	Lease No. LC-067858
MALCO "S" FEDERAL	1 SCOGGIN DRAW-	MORROW Law	State, Federal or Fee FED	EC-007036
Location	SO - NORTH	. 1652	Feet From The WEST	
Unit Letter F; 16	50 Feet From The NORTH Lin	ne and	_ Feet From TheWEST	
Line of Section 11 Tov	wnship 18-S Range	27-E , NMPM,	EDDY	County
III. DESIGNATION OF TRANSPORT		Address (Give address to	which approved copy of this fo	rm is to be sent)
Name of Authorized Transporter of Oil				
Amoco Production Compa	ny (Irucks) or Dry Gas x	Address (Give address t	Midland, Texas o which approved copy of this fo	rm is to be sent)
Amoco Production Compa	4	P. O. Box 68.	Hobbs, New Mexico	88240
If well produces oil or liquids,	Unit Sec. Twp. Rge.	ls gas actually connecte	d? When	
give location of tanks.	F 11 18-S 27-E	Yes	12-27-	12
If this production is commingled wi	th that from any other lease or pool,	give commingling order	number:	
IV. COMPLETION DATA	Oil Well Gas Well	New Well Workover		me Res'v. Diff. Res'v
Designate Type of Completic		X		1
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.	
10-16-71	12-20-71	10,168'	10,000'	
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth	
3587' RDB	Penn-Morrow	9,621	9,504'	
Perforations			Depth Casing Si	
	2',86',9735',39',42',72'		•	10,138'
58',64',66',9929'		D CEMENTING RECOR		
HOLE SIZE	CASING & TUBING SIZE	DEPTH SE		S CEMENT
15"	11-3/4" 8-5/8"	1000') SX
11"	5-1/2"	6348' 6277'-101		SX
7-7/8"	2 3/8"	9504 ppr 6	M.Y	, , , , , , , , , , , , , , , , , , , ,
V. TEST DATA AND REQUEST F			ne of load oil and must be equal	to or exceed top allow
OIL WELL	able for this d	epth or be for full 24 hours)	
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow	, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size	
Data Data Task	Oil-Bbis.	Water - Bbls.	Gas-MCF	<u> </u>
Actual Prod. During Test	OII-BBIS.			
GAS WELL				
Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMC		lensate
AAOF - 10785		12	54 °	
L	4 Hr.			
Testing Method (pitot, back pr.)	4 Hr. Tubing Pressure (Shut-in)	Casing Pressure (Shut		
Testing Method (pitot, back pr.) 4 - Pt		Casing Pressure (Shut	Choke Size VARIO	
•	Tubing Pressure (Shut-in) 2862	Casing Pressure (Shut	-in) Choke Size	
4 - Pt VI. CERTIFICATE OF COMPLIAN	Tubing Pressure (Shut-in) 2862	PKR OIL (Choke Size VARIO	

Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

APPROVED.	DEC	2 9 1972	 , 19	
		A. a.s.		

0 & 4 - NMOCC-Art	comes Elpel
1 - Div	(Signature) AREA SUPERINTENDENT
1 - JEL \	Engineer.
1 - OBP	(Title)
1 - Susp 1 - RRY	12-21-12
2 - Hondo	(Date)
2 11011100	

TITLE _____ GAS INSPECTOR

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

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

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

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

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

DEVIATION	SURVEYS
	DEGREES
DEPTH	OFF
740	1/2
1300	1/4
1670	1/4
2040	1/4
2460	1/2
2790	1/2
2 970	1-1/4
3500	3/4
4000	3/4
4560	1°
4890	1°
5100	1-1/4
5610	1
6020	2-1/2
6195	2-1/2
6 34 5	2
6970	2-1/4
75 1 0	1
8152	1-3/4
9430	3/4
10165	1

The above are true to the best of my knowledge.

Sworn to this date. December 27, 1972

NOTARY PUBLIC IN & FOR LEA COUNTY, NEW MEXICO

MY COMMISSION EXPIRES 6 15-76



Form 9–331

Form Approved.

Dec. 1973	Budget Bureau No. 42-R1424
UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE LC-067858 RECEIVED
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME MAY - 6 1982
(Do not use this form for proposals to drill or to deepen or plug back to a differen reservoir. Use Form 9–331–C for such proposals.) 1. oil gas	8. FARM OR LEASE NAME Malco "S" Federal ARTESIA, OFFICE
well Well K other	9. WELL NO.
2. NAME OF OPERATOR Amoco Production Company /	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR P. O. Box 68, Hobbs, New Mexico 88240	Scoggin Draw-Morrow Gas
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
below.) AT SURFACE: 1650' FN: v 1653' FW! Unit F	11-18-27
AT SURFACE: 1650' FNL x 1653' FWL, Unit F AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E AT TOTAL DEPTH:	12. COUNTY OR PARISH 13. STATE Eddy NM
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE	14. API NO.
REPORT, OR OTHER DATA REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	15. ELEVATIONS (SHOW DF, KDB, AND WD) 3587 ' RDB
TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly strincluding estimated date of starting any proposed work. If well is measured and true vertical depths for all markers and zones pertinomation. Moved in service unit 3-2-82. Ran swab for level 2100 ft. from surface. Final fluid Ran gamma ray temp. log. Pumped 8000 gal staged with 150 ball sealers. Ran after galog. Ran swab with light show of gas. Moreover, and staged with 150 ball sealers. Ran after galog. Ran swab with light show of gas. Moreover, and flowed 342 MCF.	directionally drilled, give subsurface locations and ent to this work.)* or 8 hrs. with initial fluid level 9400 ft. from surface. 7-1/2% HCL NEFE acid with additives arma ray and temp. treatment eved out service unit 3-8-82.
	ACCEPTED
O+4-USGS, A 1-Hou 1-Susp 1-CLF	APR 2 7 1982
Subsurface Safety Valve: Manu. and Type	U.S. GEOLOGICAL SURVEY
18. I hereby certify that the foregoing is true and correct	ROSWELL, NEW MEXICO Ft.
SIGNED Cathy L. Forman TITLE AST. Adm. A	
(This space for Federal or State of	office use)
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	MAR 22 1982
*See Instructions on Reverso	OIL & CAS SURVEY OIL & CAS SURVEY U.S. CEOLOGICAL MEXICO

Form 9-331

Dec. 1973		`Ac.t	621gra		Budget Bureau No.	42-R1424
	UNITED STA	TES		5. LEASE		
	DEPARTMENT OF TH	E INTERIOR			67858	
c/SF	GEOLOGICAL S	URVEY		6. IF INDIAN, AL	LOTTEE OR TRIB	ECEIVED
	NOTICES AND R orm for proposals to drill or to n 9–331–C for such proposals.			7. UNIT AGREEM	МДҮ	- 4 198
1. oil well	gas X other			Malco "S" 9. WELL NO.	Federal O .	C. D. A. OFFICE
2. NAME OF	OPERATOR	· · · · · · · · · · · · · · · · · · ·		1		7 077702
	co Production Com	pany /		10. FIELD OR WII		_
3. ADDRESS (of operator). Box 68, Hobbs,	New Mexico	88240		raw-Morrow Ga M., OR BLK. AND SI	
	OF WELL (REPORT LOCA			AREA	m., ON BEN. AND SC	JAVET OR
below.) AT SURFAC	1650' FNL x	1653' FWL, L	lnit F	11-18-27		
AT TOP PE	ROD. INTERVAL: Sec.	11, T-18-S,	R-27-E	Eddy	PARISH 13. STATE NM	Ξ
AT TOTAL	DEPTH:		· · · · · · · · · · · · · · · · · · ·	14. API NO.		
	PROPRIATE BOX TO IN OR OTHER DATA	DICATE NATURE O	OF NOTICE,			
1121 0111, 0	N OTTEN DAIN				(SHOW DF, KDB, ' RDB	AND WD)
-		SUBSEQUENT REPO	ORT OF:			
TEST WATER S			ç	man de la companya de	and the same of th	
SHOOT OR AC REPAIR WELL	IDIZE	<u>⊠</u> .			Maihi	
PULL OR ALTE	R CASING			change or	ults of multiple comple Form 9–330.)	tion or zone
MULTIPLE CON CHANGE ZONE			g.	th 23 3 1	982	
ABANDON*		H	4		, established	
(other)				nisi otorodina Oli sion		
Move 5000 5500 XL-4	PROPOSED OR COMPLE estimated date of starting and true vertical depths feed in service unions of the from surface gal XL-4 gel, 2 gel, 1-1/4 gal gel. Flow teste B MCF. Returned	t 4-5-82. Sw e. Final flu 750 gal CO2, CO2, and 231 d for 96 hrs.	vabbed 6 rid level and 2310 0# 20/40 and flor	hrs with in 9000 ft. fro # 20/40 sand. sand. Flush	itial fluid l m surface. P Pumped 2500 ed with 48 bb	evel umped gal
	-USGS, A 1-Hou	·	1-CLF			
Subsurface Sat	fety Valve: Manu. and Typ	e	·		Set @	Ft
	ertify that the foregoing is					
SIGNED CAT	ry L. German	TITLE Ast.	Adm. An	alyst DATE	4-19-82	
APPROVED BY	ACCEPTED FOR REC			ffice use)		
CONDITIONS OF	APPROVAL, IF ANY CITE	FIER				
	MAY 3 198	2 []				

U.S. GEOLOGICAL SURVEY. See Instructions on Reverse Side ROSWELL, NEW MEXICO

والمان المانية

Form Approved.

Budget Bureau No. 42-R1424

Form 9-331 Dec. 1973

IINITED STATES

WILD SIVIES	5. LEASE
DEPARTMENT OF THE INTERIOR	LC-067858
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	or in the state of the state
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill on to decomp and the state of the proposals to drill on the decomp and the state of the proposals to drill on the decomp and the state of the proposals to drill on the decomp and the state of the proposals to drill on the decomp and the state of the proposals to drill on the decomp and the state of the proposals to drill on the state of the proposals to drill on the proposals to drill o	7. OMIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)	9 FARM OR LEAST MANE
JUN=1 1 1303	8. FARM OR LEASE NAME
1. oil gas well other	Malco "S" Federal
O C D	9. WELL NO.
2. NAME OF OPERATOR AMOCO Production Company ARTESIA, OFFICE	1
	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	Scoggin Draw Morrow Gas
P. O. Box 68, Hobbs, New Mexico 88240	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA
below.) AT SURFACE: 1650' FNL X 1653' FWL, Unit F	11-18-27
AT TOP PROD. INTERVAL:	12. COUNTY OR PARISH 13. STATE
AT TOTAL DEPTH:	EddyTNM
16 OUTON ASSESSMENT	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	3587' RDB
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF \[\square \]	
FRACTURE TREAT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
REPAIR WELL	(NOTE: December 1997)
PULL OR ALTER CASING 🗍	(NOTE: Report results of multiple completion or zone change on Form 9-330.)
MULTIPLE COMPLETE	
CHANGE ZONES	
ABANDON*	
(Other)	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state	
including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertinen	e all pertinent details, and give pertinent dates, irectionally drilled, give subsurface locations and it to this work.)*
Moved in service unit 1-11-83. Killed well w	with 50 bbls 10# 2% KCL water.
Pulled tubing and packer. Ran packer and 2-7	7/8" tubing and tested to 8000
psi. Packer set at 9515'. Fractured with 20	0.000 gal 40# gelled 2% KCL water
and 10,000 gals. CO2 carrying 20,500# sand.	Flushed with 71 bbl 10# 2% KCl
water. Flowed well on 32/64" choke for 1/2 h	ore at 75 nei Flowed 3 hns
on 48/64" choke at 50 psi. Well died. Pulle	id tubing and nackon Dan 2 2/0"
tubing, F-nipple, 2-3/8" tubing, packer, on-o	off tool and 2 2/0" tubing Dacken
set at 9432' and tailpipe landed at 9527'. Sw	rabbed 8 hrs. and recovered
60 BLW with Strong show of gas. Moved out se	which unit 1 16 02 Moved in
and rigged up Swab unit 1-16-83. Swabbed 12	days Moved out Such unit 2 1 03
Connected well to gas sales line 2-2-83. Flo	word 1/1 has and produced 0 PT
and 701 MCF. Last 24 hrs flowed 0 BF and 120	MCE Potumed wall to medicate
and for hor. Last 24 hrs flowed of and 120	mer. Returned well to production.
Substitute Barrer Walve: Mr. Halland Tuns USP 1-CMH 1-W. St	afford WOLL
Subsufface Bed Mety Raive: Mathe Mand Typs USP 1-CMH 1-W. St	afford, HOU Set @Ft.

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

SIGNED Harlis Mr. Lerung TITLE AST. Adm. Analyst D (Thi ACCEPTED-FOR RECORDse) - DATE FEB 1 6 1983 71983 JUL

ROSWELL, NEW MEXICO

ON P CAS MAYERANA TOTAL SERVICE ROCALL , NEW MEXICO

		NOT BUILD	
	Art	esia, NN 88210	Form approved.
Form 3160-5 November 1983)	UN! LD STATES	SUBMIT IN TRIPL CE*	Budget Bureau No. 1004-0135 Expires August 31, 1985
Formerly 9 231)	ARTMENT OF THE IN	TERIOR (Other instructions on re-	5. LEASE DESIGNATION AND SERIAL NO.
RECEIVED BY	BUREAU OF LAND MANAGE	MENT	LC-067858
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
FEB. 28 SUNDRY	NOTICES AND REPOR		
EDO TO CUITO SHIM form for Use ".	proposals to drill or to deepen or APPLICATION FOR PERMIT—" for	such proposals.)	· .
1. O. C. D.	0	······································	7. UNIT AGREEMENT NAME
WELDTHAN CAR	HER Kumalition		
ARIPSIA, CFR.	The state of the s		8. FARM OR LEASE NAME
amoco Produ	ction Cothesanis		Malco S Federal
3. ADDRESS OF OPERATOR	1100 -11		9. WELL NO.
Y 8 BX 68.	Hokkes Dry 88	3240	
4. LOCATION OF WELL (Report le	ocation clearly and in accordance wi	th any State requirements.*	10. NIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface			Chalk Bluck Nolfcamp
1650	FNL X 1653 FWL		11. SEC., T., R., M., OR MIE. AND
(< = /A	, NW/4, Unit F)		11.000
(96/1)	, NYT, WILL F)		11-18-27
14. PERMIT NO.	15. ELEVATIONS (Show who		12. COUNTY OR PARISH 13. STATE
	3587 'RI	ාපි	Eddy NM
10 (1	1 A D T ! !!	. N	N. D. /
16. Ch	eck Appropriate Box to India	ate Nature of Notice, Report, or C	•
NOTICE	OF INTENTION TO:	BUBBEQU	ENT REPORT OF:
TEST WATER SHUT-OFF	PCLL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CABING
SHOOT OR ACIDIZE	ABANDON*	SECOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(Note: Report results Completion or Recompl	of multiple completion on Well etion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPL	ETED OPERATIONS (Clearly state all p	ertinent details, and give pertinent dates, se locations and measured and true vertice	including estimated date of starting any
nent to this work.)			· A · O
MISU 1-21-85. Kill	eased sold, and sou	lled Elg. Kan cash	von bridge plug
and sale ale 9495	Pumped 5 sx C	lass H cmb. Spotted	not mly aday
and Dev av 1713.		////	of fing of FSZ =
9683 Swotted 25	ex class Hoslug	~ 7863 - 76131 "Pul	lled the Pured
noad'ndan' noa-	investment h	2001 11/ 1505 70.	the A har bull sets
1046-7062,7090	1-7100°, 7382°-47	388 with 45PF. Ka	n etg. I, ples. and set
nathierable bil	ge solug at 7444	Pulled that and	set bakel at 7280'.
review as a some			7- 00 -01 1101
Swed. acidental w	th 1000 guls. 1	5% NEFE LACL and	10000 gabs. 5 /0 MCL.
Sweld Released sole	s, and reset at 68	4-2'. Jested rept. to	500 PSI and OK.
swood necession for	1. who supplies to	\mathcal{T}^{\bullet}	
Set nothewable - Ur	edge slug at 72	.00. Justed VRBP to	500 PSI and OK. Swbd.
301 10000000000000000000000000000000000	_ // // //		
Kan before- breaking	no survey and	accorded with 500	O galo gelled 15%
NETT ISH DOOR ?	Radio Roture materia	l. Han after treater	Teach rue liver Sweld
0 11/1		A // A	A
Heleased of and	- pulled they and	tran retrievable.	head stating masle
1 de l'anne	• // • //		/ 0 :// ////
and tog. to 1188.	Cleaned our par	nd to 7200: Than &	elaling nipple,
//			1 (// /
2+5-BEM, C 1-JRB	1-FJN 1-GCC :	2-mmoco, A	V
18. I hereby certify that the for	regoing is true and correct	11	1 1 2000
SIGNED BONITA	Coble TITLE	daministrative anal	PV DATE 2-22-85
(This space for Federal or 2		ν	
APPROVED BY	CIP FOR RECORD TITLE	3	DATE
CONDITIONS OF APPROVA	AU, IF ANY:		. 202
	• • •		Past 3-85 W
rt.	826935		3- 3- MARIA
	*See Instru	ections on Reverse Side	· ** *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 and liability from the United States and liability fro

tail-pipe, tto, and tto anchor. Seating ripple landed at 7441, and off tto anchor ar 7005. Than the and pmp. MOSU
1-30-85. Built wellhead and connected to flw line on 1-31-85.
Began pmp testing 2-1-85. Pump tested approx. 8 days. Fash
24 hrs. Jmpd. VO BO X 180 BW X O MCF. MISU 2-V1-85.
Pulled work and smp. Pulled tto, and ran she, seating nipple and tto, thetrevable bridge plug set at 7150. Tested
RBF to 1000 FB1 and OK. Set she, las 7073. Swid. Released she, ran sto, and latched out to RBF. Pulled tto, Than Cast with
Iridge slug and set at 7080. Kan emt. ret. and set at 6962.
Pumped 16 ox Class H Neat. Keversed out 5 ox emt. POOH.
Brilled out cout. to 7070. Han tty, and tagged cast won bridge plug at 7080. Pulled tto, drill collar and bit. Than cont.
Intainer and set at 6955. Squeezed 125 ex Class H omb and.
10 ox below retainer and 103 bx bformation. Neversed out 12 st
and pulled tto.

je v 1 7 7443. (um. <u>ii</u>	SET	-	Form approved.
$\mathbf{E}_{\mathbf{r}} = \mathbf{n}(\mathbf{r}, \mathbf{r}) \mathbf{n}(\mathbf{r}, \mathbf{r}) \mathbf{n}(\mathbf{r}, \mathbf{r}) \mathbf{n}(\mathbf{r}, \mathbf{r}) \mathbf{n}(\mathbf{r}, \mathbf{r})$	JN .ED STATES	SUBMIT IN TRIPL ATE	Budget Bureau No. 1004-0135
Nous Proceed to anything	MENT OF THE INTERI	Other Instructions on w	Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO.
1/2021.2			S. LEASE DESIGNATION AND BERIAL NO.
BUREA	J OF LAND MANAGEMEN		LC-06/858
MAR 13 SONDRY NOTI	CES AND DEDODES (ON WELLS	6. IF INDIAN, ALLOTTEE OR TEIDE NAME
	CES AND REPORTS (
(Do not use this form for propose	als to drill or to deepen or plug b TION FOR PERMIT—" for such p	roposals.)	
			7. UNIT AGREEMENT NAME
OILARTESIA, OFFICE			1. UNIT AUGUSTER REME
WELL OTHER			
NAME OF OPERATOR	1.		8. FARM OR LEASE NAME
Imoco Production	Company V		Malco > Federal
. ADDRESS OF OPERATOR	10 2.00 22	1/2	9. WELL NO.
- P.O. Box 68 80	W 1111 882	40	1 1
LOCATION OF WELL (Report location cl	early and in accordance with any	State requirements.*	10. FIELD AND POOL, OB WILDCATA
See also space 17 below.)	,	-	100.11 20 01 1 100
At surface 1650 FNL X	1653 FWL		Chack Dung wox cam
,			11. SEC., T., R., M., O'ABLE. AND SURVEY OR AREA
(Unit F, S	E/4 NW/4)		
,			1 11-18-27
PERMIT NO.	15. ELEVATIONS (Show whether DF	, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	3587' RDB		1 d/J Inm
	1 3361 180		1 Eday 1111
Check Ap	propriate Box To Indicate N	lature of Notice, Report, or	Other Data (
NOTICE OF INTENT	TON TO:	SUBSE	QUENT REPORT OF:
TEST WATER SHUT-OFF P	CLL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
	ULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
	BANDON*	-	· , ,
		SHOOTING OF ACIDIZING	BANDONMENT*
	HANGE PLANS	(Other) / Popular result	ts of multiple completion on Well
(Other)		Completion or Recom	pletion Report and Log form.)
proposed work. If well is direction nent to this work.) *	ally drilled, give subsurface locat	tions and measured and true vert	s, including estimated date of starting any cal depths for all markers and zones perti-
1 to lorge	in the sind	ation 1	tooti a ligar
Me is to projection	JOU THE SUIDEN	icum from pur	nd luxung began on
n 1 - 1 1 11	1) / 2 / 2 / 2 -	0 0/1 1/2	ha Party a
Malco S Federal	16. 1 2-26-85	Produced 91	30 150 bblow, and
	00	11 1	0100
as. The subject is	well is curren	the Duma Long	om Stotod krown to
ac. 15 & soupean	ga no content	ag xang rac	sings every of sources
in the I lab	100.00		
row to the Way	Camp.		
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			•
a. w. 10 1-TRR 1.	-F.TN 1-GOC	cc - BLm, C	
B1 M, R 1-JRB 1.	-FJN 1-GOC	cc-BLM, C	
		cc - BLm, C	
. I hereby certify that the foregoing is	true and correct		hnt 2-27-86
		cc-BLM, C Vost. Admin. And	lyst DATE 2-27-85
. I hereby certify that the foregoing is	true and correct		hyst DATE 2-27-85
SIGNED (Aug. Carlos) (This space for Federal or State office	TITLE A		hyst DATE 2-27-85
(This space for Federal or State office	TITLE OR RECORD TITLE		Lyst DATE 2-27-85
SIGNED (Aug. Carlos of this space for Federal or State office	TITLE OR RECORD TITLE		
SIGNED CAME. CAME (This space for Federal or State office APPROVED BY	TITLE TITLE OR RECORD TITLE		
SIGNED CALL COLORS (This space for Federal or State office APPROVED BY ACCEPTED FO	TITLE TITLE OR RECORD TITLE		

*See Instructions on Reverse Side

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

Form 3160-5	TED STATES	SUBMIT IN TR CATE•	Form approved. Budget Bureau No. 1004-0135
	ILINT OF THE INTERIO	manual transfer of the second	Expires August 31, 1985 LEASE DESIGNATION AND SERIAL NO.
SUNDRY NOTI	CES AND REPORTS OI		O IF INDIAN, ALLOTTEE OR TRIBE NAME
I. OIL GAS OTHER		O. C. D. ARTESIA, OFFICE	. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Productio	n Company	Artesia me	Molco S Faderal
3. ADDRESS OF OPERATOR P.O. Box 68 Ho 4. LOCATION OF WELL (Report location cle	obbs nm 88240	ate requirements.*	9. WHILL NO.
See also space 17 below.) At surface 1650 FN	LX 1653 FWL JF, SE/4 NW/4)		Child Bloff Wolfcamp 11. 28C, T. B., M DO BLK. ANT
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT	r, GR, etc.)	11-18-27 12. COUNTY OR PARISH 13. STATE Eddu NM
	propriate Box To Indicate Nat	ure of Notice, Report, or O	ther Data
NOTICE OF INTENT TEST WATER SHUT-OFF	ION TO:	WATER SHUT-OFF	ENT REPORT OF:
SHOOT OR ACIDIZE REPAIR WELL CI	ULTIPLE COMPLETE BANDON* HANGE PLANS	FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other)	ALTERING CASING AANDONMENT* Wantiple completion on Well
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OPER proposed work. If well is direction nent to this work.)*	ATIONS (Clearly state all pertinent dually drilled, give subsurface location	Completion or Recomple	tion Report and Log form.)
Drilled out cont retai	iner to 7071 are	l pressure teste	I to 1000 psi for
- 11 /	out and cleaned	Pout to 7504.	Circulated cleanand
POH. Ran production	equipment, tai		† 7432. Began
pump testing 2-23-	85 Pump tester	of apx 20 days	, last 29 km
sumped 0 BO, 110 h	BW, and 0 mc	F. Well is cu	wently shut in
for evaluation.			·
V			
	24 - 34 		
O+5 BLM, C 1-JRB 1-F3	TN 1-GCC		
18. I bereby certify that the foregoing by SIGNED Lange Ca	rk TITLE WAS	Admin Gralys ?	DATE 4-2-85
(This space for Federal or State office ACCEPTED FO			DATE
CONDITIONS OF APPROVAL, IF AN	TY.		DATE
APR 11	*See Instructions of	n Reverse Side	

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

Form 3160-4 (November 1082) RECEIVED BY		TED STAKE	CONS. COMM	MIT IN DUL	Bud	m approved. get Bureau No. 1004-0137 ires August 31, 1985
MAY 13 1985	BUREA	ENT OF THE	GEMENT	Teve	etions on 5. Lease LC.	DESIGNATION AND SERIAL NO.
WELL CON	MPLETION OF	RECOMPLETION	On report	AND LO	G * 6. 16 1ND	IAN, ALLOTTEE OR TRIBE NAME
ARTESIA, OFFICE	LETION:				7. UNIT A	GREEMENT NAME
WELL. 2. NAME OF OPERATO	OVER L EN L	BACK DIFF.				OR LEASE NAME
3. ADDRESS OF OPER	PRODUCTIO	N COMPANY	John Control		MALC 9. WELL	O'S" FEDERAL
P.O. B	X 68 Ho	BBS NM 89	3240		10, FIELD	AND POOL, OR WILDCAT
At surface /	, SO FAL A	1653 FWL	with any State requ	iiremente) •	Chalk	Bluff Wolfcamp
At top prod inte	Unit F SE	(4 NW/4)		•	OR AD	T. R., M., OR BLOCK AND SURVEY EA
At total depth						18-27
olc_		14. PER:	MIT NO.	DATE ISSUED	EDD'	12
15. PATE STREET	16. DATE T.D. REACHE	D 17. DATE COMPL. (A	Ready to prod.)		DF. RKB, RT, GR. ETC.)	
1-21-85 20. TOTAL DEPTH, MD A	TVD 21. PLUG. BAC	K T.D., MD & TVD 22.	IF MILTIPLE COMP	358		
10, 168'	76		HOW MANT®	DR	TERVALS ROTARY T	COOLS CABLE TOOLS
7046 - 7 26. TYPE ELECTRIC AN CBL	7388 WO	Framp BECOK	1) (Report all strin			27. WAS WELL CORED
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE		MENTING RECORD	AMOUNT PULLED
11-3/4" B-5/8"	<u>47#</u>	1000	15 "	970 SX		CIRC
5 -1/2"	32# 17#	6348		300 SX 855 SX		TINKNOWN 7165'
29.	LINE	RECORD	·	1 70		
8122		OM (MD) SACKS CEM	ENT* SUREEN (30. SIZE	TUBING RE	
· ·						
31. PERFORATION RECO	RD (Interval, size and	number)	, 32.	ACID, SHOT	FRACTURE CEME	NT SQUEEZE, ETC.
7046-62	7090 - 7	7100, 7382 - 1		NTERVAL (MD)		CIND OF MATERIAL USED
W/ 4 DPJ:	SPF (.380")		7382'	- 88' - 7100'		NIFFE HCL
			7016		1 / -	rs and 1000 Gal
33.*			PRODUCTION		15% NEFE	HCL
Z-Z6-85	l_Pu	METHOD (Flowing, gus	lift, pumping-size	e and type of pu		hut-in) Shut-IN
3-18-85	HOURS TESTED	HOKE SIZE PROD'N. TEST PE		GASM	1	BRL. GAS-OIL RATIO
	CASING PRESSURE C	ALCULATED OIL - BB	I GAS-	_{-MC} ĄĠĞĬĤ	ED FOR RECO	OIL GRAVITY-API (CORR.)
34. DISPOSITION OF GAS	(Sold, used for fuel, t	ented, etc.)		A44	V 10 TAST WITE	NESSED BY
35. LIST OF ATTACHME	INTS			M/	AY 10 1985	
1000 00 11		attached information is	s complete and cor	rect as determin	D NE . WEX	CO records
signed	-L. Notes		E Administrati			TE 6 MAY 1985

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

Fitle 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.

AHCRIM-C. I-TPR, I-FTN, I-NIG

	TOP	TRUE VERT, DEPTH				
GEOLOGIC MARKERS)T	MEAS, DEPTH				
		NAME				
s, and 38.						
d intervals; a	rrc.					
ereof, cored ng and shu	ONTENTS, E					
SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	DESCRIPTION, CONTENTS, ETC.					,
of porosity ar used, time to	Q					
ortant zones d, cushion	2			 	·	
how all impo terval testo	BOTTOM					
uding depth in	TOP	② 著(4)的。	୬ ୩ ୪) (୧୯) ୧୯)			
ORC incl	FORMATION		***			

Form 3160-5 November 1933) Comperly 9-331)	DEPARTME (D STATES OF THE INTERIO		Expires Au	reau No. 1004-0135 CSF Igust 31, 1985 TION AND BERIAL NO.
	BUREAU OF LA	AND MANAGEMENT		_ LC-06	7858
(Do not use thi	NDRY NOTICES A s form for proposals to dril Use "APPLICATION FOR	ND REPORTS OF DUTY BACK PERMIT—" TOR REGISTED DOP'S	N WELLS to a discress receiver.	U. IF INDIAN, ALL	UTTEE OR TRIBE NAME
OIL GAS WELL 2. NAME OF OPERATOR	OTHER DXA	MAR 1	7 1986-77	7. UNIT AGREEMEN	
	CTION COMPANY	0. 0	:.60,	Malco "	5" Federal
P.O. BOX 68	HOBBS. NEW MEX	100 80241	, OFFICES	9. WELL NO.	
4. LOCATION OF WELL (See also space 17 be At surface	Report location clearly and	in accordance with any St	ate requirementa.	10 FIELD AND POO	DL, OR WILDCAT
165	0 ' FML x //6	53 ' FWL		11. BEC., T., R., M., SURVEY OR	MARIE. AND
(UNIT		4		11-18-	.21
30015205		ATIONS (Show whether DF, R	r, GR, etc.)	12. COUNTY OR THE	TITE 13. STATE
16.		ADO/KID		- Cddy	1 1//(
_	NOTICE OF INTENTION TO:	: Dox to Indicate Nat	ture of Notice, Report, or	_	
TEST WATER SHUT-	<u></u>	TER CASING	WATER SHUT-OFF	EQUENT REPORT OF:	
FRACTURE TREAT	MULTIPLE O	·	FRACTURE TREATMENT		NG CASING
SHOOT OF ACIDIZE	ABANDON*		SHOOTING OR ACIDIZING	ABANDO	NMENT*
(Other)			Completion or Recor	ilts of multiple complet impletion Report and Lo	e form \
17. DESCRIBE PROPOSED of proposed work. I nent to this work.)		learly state all pertinent d d. give subsurface location	etails, and give pertinent dat s and measured and true ver		
1. MISU 11-25	85 and lotterth.	rode, pump, and	taking.		•
2. Ran CIBP a	nd set at 6995		Ü		
3. Pan free por	int log.				
4. RIHa/tabu	in to 6950' and po	insed 80BBhs 1	brine gel. Capped	CIBPWITH IS	SX Class Heement.
5. Displaced,	holowith 150 BB	Chine gel			
			00-6225: WO	C. Tagged co	mentat 6211.
7. Pulled tub	,	. / /			aced w/bring gel.
8. Perforated	1049-50'0/4	IDPJSPF. Esta	blished circulati	on out 11 3/4.	"asing. ted 175x out 1/3/4"
9. Set Cemen;	Fretainer at 9	30 . Spacezed a	/3505x class Cc	ment. Circula	ted 175x out 1/3/4°
Caring.		<i>V</i> 3			
0 + 5 BLM-C	the foregoing is true and	FJN, 1- CMH			
SIGNED	the foregoing is true and confirmation.		nistrative Analyst	(SG) DATE /Z	:6/85
(This space 107 Fede	ral or State office use)	1			<u> </u>
APPROVED BY	Assa Month	TITLE			8-14-59
				ı	Post ID-2
		*See Instructions or	n Reverse Side		3-21-86 P4A

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.

10. Spotted 105x class Coment surface plug.
11. Installed dry hole marker and MOSU 12-3-85.

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

DATE December 15,1986

NOTICE OF GCNM'S GAS DISCONNECTION:

OPERATOR: Amoco Production Company

LEASE: Malco "S" Federal

WELL NUMBER: #1 WELL UNIT LETTER: F

SECTION: 11 TOWNSHIP: 18 RANGE: 27

POOL: Scroggin Draw Morrow Chack Paluf Waffards - DATE WELL DISCONNECTED: 12/15/86

1890-00

GAS COMPANY OF NEW MEXICO TRANSPORTER

GAS CONTROL SUPERVISOR

RECEIVED BY

JAN - 5 1987

O. C. D.

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

GCNM'S STATION NUMBER:____

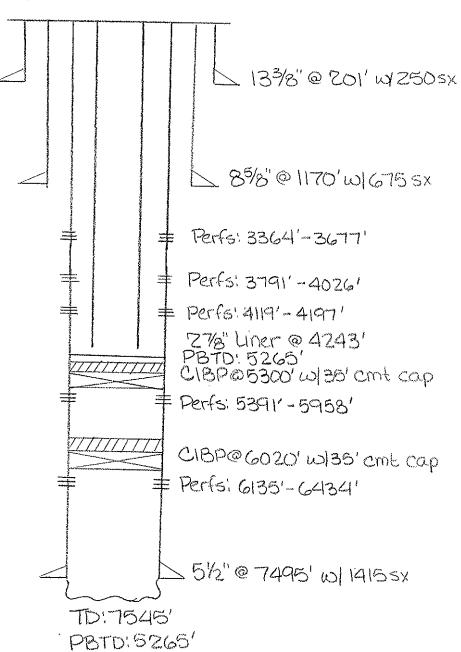
Tom Sanders - Albuquerque Carolyn Titus - Albuquerque Merle Dennis - Kutz Canyon Oil Conservation file Grady Gist file



NAVAJO REFINING COMPANY Map ID No. (夕う Artificial Penetration Review

OPERATOR Mack Energy Corp	STATUS Active Oil
LEASE State H	LOCATION Sec. 2T18S-R27E
WELL NUMBER 2	MUD FILLED BOREHOLE NA
DRILLED 10-31-07	TOP OF INJECTION ZONE ~7215
PLUGGED NA	API NO. <u>30-015-</u> 35원/4

REMARKS: Calc. Top of Cement behind 51/2"@Surface.



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

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 A	R ADD A ZONE
---	--------------

APPLICATION FOR PERMIT TO DRIED, RE-EVIER, DEEPEN, PEUGDACK, OR ADD A ZONE						
1.	2. OGRID Number					
M	13837					
A	3. API Number					
1	30-015-3581	4				
4. Property Code	5. Property Name	6. Wel	ll No.			
303847	STATEH	00	12			

7. Surface Location

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

8. Pool Information

CHALK BLUFF; WOLFCAMP GAS	96963
---------------------------	-------

Additional Well Information

	100	Additional Wen Intollia	ation	- 01	
9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3590	
14. Mühtiple N	15. Proposed Depth	16. Formation Wolfcamp	17. Contractor	18. Spud Date 9/20/2007	
Depth to Ground water 50		Distance from nearest fresh water well		Distance to nearest surface water	
it: Liner: Synthetic Closed Loop System	mils thick	Clay Pit Volume: bbls	Drilling Method: Fresh Water Brine	Diesel/Oil-based Gas/Air	

19. Proposed Casing and Cement Program

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

Casing/Cement Program: Additional Comments

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

Proposed Blowout Prevention Program

Troposed Distribut Liver and Control of the Control							
Туре	Working Pressure	Test Pressure	Manufacturer]			
DoubleRam	2000	2000		1			

of my knowledge and belief.	ation given above is true and complete to the best Sing pit will be constructed according to	d OIL CONSERVATION DIVISION				
	neral permit , or an (attached) alternative	Approved By: Bryan Arrant				
Printed Name: Electronic	ally filed by Jerry Sherrell	Title: Geologist				
Title: Production Clerk		Approved Date: 9/19/2007	Expiration Date: 9/19/2008			
Email Address: jerrys@r	nackenergycorp.com	V 3 4 7 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	48 A.S			
Date: 9/11/2007	Phone: 505-748-1288	Conditions of Approval Attached				

District I

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

District II

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

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

District IV

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

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

Santa Fe, NM 87505

Form C-102 Permit 60506

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	2. Pool Code 3. Pool Name			
30-015-35814	96963	96963 CHALK BLUFF; WOLF			
4. Property Code	5. Prope	5. Property Name			
303847	STA	TE H	002		
7. OGRID No.	8. Opera	8. Operator Name			
13837	MACK EN	MACK ENERGY CORP			

10. Surface Location

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

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Id	n	Feet From	N/S Line	Feet From	E/W Line	County
Н	2	18S	27E	Н		2300	N	340	E	EDDY
0.000	cated Acres	13	Joint or Infill		14.	Consolidation (solidation 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

82		
8	3	0
3		8
8	8	95
9		

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 API:

Created By	Comment	Comment Date
LDMSHERRELL	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
IHATTANT	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 wYresh 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





Planning Report



EDM 2003.16 Single User Db >

Mack Energy Corp. Eddy County, NM (NAD 27 NME) Company: Project:

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

WELL @ 3606.00ft (KB Elev) WELL @ 3606 00ft (KB Elev) Grid . Survey Calculation Method:

Minimum Curvature

Well State H #2

Eddy County, NM (NAD 27 NME) Project

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 Marchine Carrier St. March Steel Northing: 646,629.20ft Site Position: Latitude: 32° 46' 39.510 N 528,184.50ft 104° 14' 29.874 W Easting: From: Longitude: 0.05 ° Position Uncertainty: 0.00 ft Slot Radius: **Grid Convergence:**

Well State H #2 0 00 ft 646,629 20 ft 32° 46' 39.510 N Well Position +N/-S Northing: Latitude: 528,184 50 ft 104° 14' 29.874 W +E/-W 0 00 ft Easting: Longitude: **Position Uncertainty** 0.00 ft Wellhead Elevation: 3,606.00 ft Ground Level: 0 00 ft

Wellbore #1	<u> </u>		"物"的"物"的"一次"。	
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Magnetics Model Name	Sample Date	Declination	ip Angle	leld Strength
		(1)	(1)	(nT)
IGRF200510	9/11/2007	8.37	60.68	49,269

Design Plan #1			STALL SERVICE CONTRACTOR		
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W	Direction (°)	
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(ft)	M# (*). 13.5 M	(°) *******	*(ft)	िन (ft) 🔭 🔑	ं- (ft) कर्के हैं ((°/100ft) 💎 💸 (°/100ft) 📜 🖔 (°	/100ft) 🛴 🦡	٠٠٠ (۴)ؤ ما المادة المادة المادة المادة المادة المادة المادة المادة المادة المادة المادة المادة المادة المادة	Target 👯 🦮
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Planning Report



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

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

WELL @ 3606.00h (KB Elev)

North Reference:

Survey, Calculation Method:

Minimum Curvature

975-5- Garate / 1-18-1-19-1-19-1-19-1-19-1-19-1-19-1-19	and the same of th	at the transfer of	and the same of th	halde the same the same of the		1000			
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4,400.00	0.00	0.00	4,386.70						



Planning Report



Database: Company: EDM, 2003:16 Single User Db

Project: Site: Well: Wellbore: Design:

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 @ 3606 Onf (KB Elev)
WELL @ 3606 Onf (KB Elev)
Grid
Minimum Curvature

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(ft)		(°)	(ft)	(ft)	(ft)	(m) 🔻 🐧	(°/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 htt/miss target Shape	Angle Di	p 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			7,300.00 .00 TVD, -23	-247.00 7 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 7.00 N, 101 00	111 00 (E)	646,382 20	528,295.50	32° 46′ 37,065 N	104° 14' 28.576 W



Planning Report

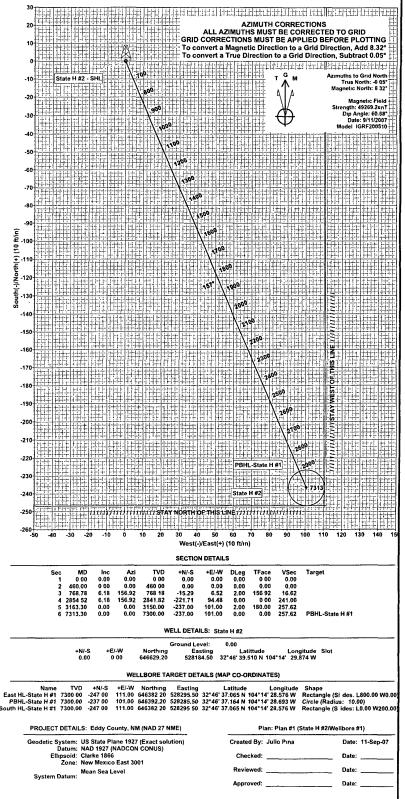


ľ	Plan Annotations	11 3 M W. V.	TEST 74 17 1	1997年の1998	THE PARTY OF THE WAR AND AND AND AND AND AND AND AND AND AND
F			HI WAS A STREET	学校图 3394年,	
-	Measured	Vertical	Local Coord	inates 🤈 🍪 🛼 🦙	
	Depth	Depth	+N/-S	* +E/-W	
	(m)	(ft)	(fi)	(ft) 27 < 52	Comment
ľ	460.00	460.00	0.00	0.00	KOP 460' Start 2.0°/100'
-	768.78	768.18	-15.29	6.52	EOC hold 6.18°
1	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°
L					

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

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





Subtitit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103
District I 1625 N French Dr , Hobbs, NM 88240	Energy, Minerals and Natural Resources	May 27, 2004 WELL API NO.
District 11 1301 W Grand Ave , Artesia, NM 88210	OIL CONSERVATION DIVISION	30-015-35814
District III	1220 South St. Francis Dr.	5. Indicate Type of Lease STATE FEE
1000 Rio Brazos Rd , Aztec, NM 87410 District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S St Francis Dr , Santa Fe, NM		B-9391
87505 SUNDRY NO	TICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROP	OSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	
PROPOSALS)	ICATION FOR PERMIT" (FORM C-101) FOR SUCH	State H
1. Type of Well: Oil Well	Gas Well 🛛 Other	8. Well Number 2
2. Name of Operator Mack En	ergy Corporation	9. OGRID Number 013837
3 Address of Operator		I 0. Pool name or Wildcat
	ox 960 Artesia, NM 88211-0960	Chalk Bluff Wolfcamp
4 Well Location	2063 feet from the North line and	441 feet from the East line
2	neet from the fine and	itet from theint
Section2	Township 18S Range 27E 11. Elevation (Show whether DR, RKB, RT, GR, etc.)	With it
	3590' GR	
Pit or Below-grade Tank Application	or Closure	
Pit typeDepth Ground	waterDistance from nearest fresh water wellDis	stance from nearest surface water
Pit Liner Thickness: m	Below-Grade Tank: Volume bb1s; Co	onstruction Material
12. Check	Appropriate Box to Indicate Nature of Notice,	, Report or Other Data
NOTICE OF I	NTENTION TO: SUE	BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		
TEMPORARILY ABANDON	号	
PULL OR ALTER CASING	- MULTIPLE COMPL	NT JOB
OTHER: Change casing		
	npleted operations. (Clearly state all pertinent details, an	nd give pertinent dates, including estimated date
	work). SEE RULE 1103. For Multiple Completions: At	
Mack Energy would like to change	ge 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. Ely 7300', run 5 1/2" 17# L-80 casing and cement.	
Dilli a 7 7/8 Hole to approximate	ery 7500, run 5 1/2 1/# L-80 casing and cement.	OCT 22 2007
		OCD-ARTESIA
I hereby certify that the information grade tank has been/will be constructed	above is true and complete to the best of my knowledge or 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 Jenylu	Shere TITLE Production Clerk	DATE 10/19/07
Type or print name Jerry W. Sher	rell E-mail address: jerrys@macke	energycorp.com Telephone No (505)748-1288
For State Use Only		OCT 2 2 2007.
BRY	AN G. ARRANT	· <i>y</i>
APPROVED BY: DIST Conditions of Approval (if any):	RICT II GEOLOGIST	DATE



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: Company EDM 2003 16 Single User Db

Mack Energy Corp

Project: Eddy County, NM (NAD 27 NME) Site: State H #2

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

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

Mınimum Curvature

Eddy County, NM (NAD 27 NME) Project

Map System: Geo Datum: Map Zone:

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

New Mexico East 3001

System Datum:

Mean Sea Level

State H #2 Site

Site Position:

Northing:

646,629 20ft

Latitude:

32° 46' 39 510 N

From: Position Uncertainty: Мар

State H #2

+N/-S

+E/-W

Easting: Slot Radius: 528,184 50ft

Longitude: Grid Convergence: 104° 14' 29 874 W 0 05 °

Well

Northing:

646.629 20 ft 528,184 50 ft Latitude: Longitude: 32° 46′ 39 510 N

Position Uncertainty

Well Position

0 00 ft 0 00 ft

IGRF200510

0 00 ft

0 00 ft

Easting: Wellhead Elevation:

3,606 00 ft

8 36

Ground Level:

104° 14' 29 874 W 0 00 ft

Wellbore Wellbore #1

Magnetics Model Name Sample Date

10/19/2007

Declination (°)

Dip Angle (°)

60 68

Field Strength (nT)

49,259

Design Plan #2

Audit Notes: Version:

Phase:

PLAN

Tie On Depth:

0 00

Vertical Section: Depth From (TVD) (ft) 0.00

+E/-W (ft) 0 00

Direction (°)

156 92

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination +N/-S Azimuth Depth +E/-W Rate Rate TFO (°/100ft) (ft) (°) (°) (ft) (°/100ft) (°/100ft) (ft) (ft) (°) 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 00 180 00 101 00 2 00 -2 00 0.00 0 00 PBHL-State H #1 7,321 01 0 00 0 00 7,300 00 -237.00 101 00 0 00 0 00 0 00

+N/-S

(ft)

0 00



Planning Report



Database: Company: EDM 2003 16 Single User Db

Project:

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

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
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	9			J. J. J					
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'								
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 00 000 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



Planning Report



EDM 2003.16 Single User Db Database:

Mack Energy Corp
Eddy County, NM (NAD 27 NME)
State H #2
State H #2 Company: Project:

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

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

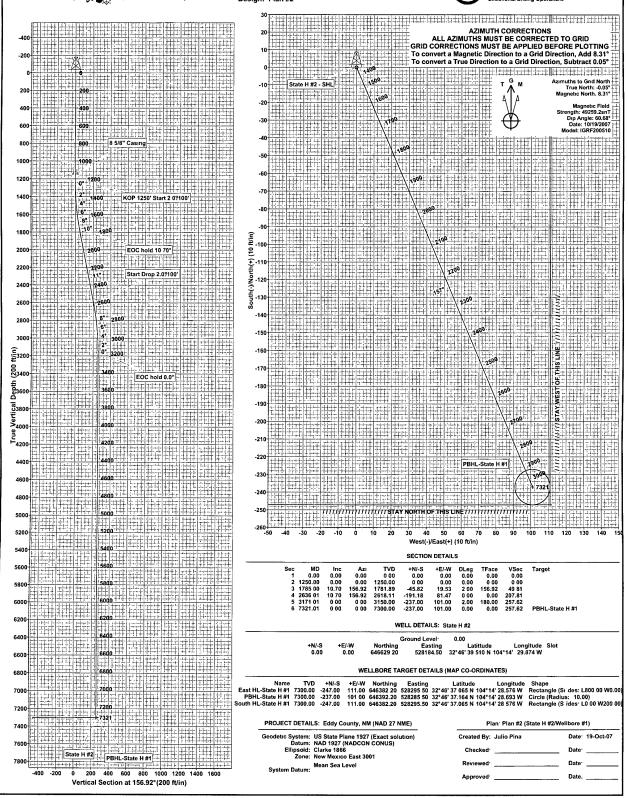
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
1,250 00	1,250 00	0 00	0 00	KOP 1250' Start 2 0°/100'
1,785 00	1,781 90	-45 82	19.53	EOC hold 10.70°
2,636 01	2,618 11	-191 18	81 47	Start Drop 2 0°/100'
3,171 01	3,150 00	-237 00	101 00	EOC hold 0 0°



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

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





District I State of New Mexico Form C-103 Permit 65781 1625 N. French Dr., Hobbs, NM 88240 Energy, Minerals and Natural Resources Phone:(505) 393-6161 Fax:(505) 393-0720 WELL API NUMBER District II 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. Santa Fe, NM 87505 Indicate Type of Lease 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 S 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 1. 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 Ν Unit Letter feet from the line 18S Township Range 27E NMPM Eddy 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 Pit Liner Thickness: Below-Grade Tank: Volume bbls; Construction Material 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK ALTER CASING TEMPORARILY ABANDON | CHANGE OF PLANS COMMENCE DRILLING OPNS. PLUG AND ABANDON | 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'. 11/5/2007 Ran 27jts 8 5/8 J-55 32#@ 1170". Cmt w/475sx C, 200sx C+2%CC, circ 218sx, plug down 3:00am. WOC 12hrs test to 600# 30min, OK. 11/20/2007 TD @ 7545' 11/22/2007 Ran 177jts 5 1/2 J-55 17#@ 7495', Cmt w/530sx C, circ 217sx. 2nd stage 365sx C, 520sx C, plug down 6:55pm, circ 200sx. WOC 12hrs test to 600# 20min, OK. 10/31/2007 Spudded well. Casing and Cement Program. Fluid Hole Csg Weight Est Doth Pres Pres Open Grade Sacks Yield Class Set Doth Type Size Size Ib/ft TOC Held Drop Hole C 11/01/07 Surf FreshWater 17.5 13.375 48 H-40 0 201 250 1800 0 Y 11/05/07 Int1 FreshWater 12.25 8.625 32 J-55 0 1170 675 C 600 0 Υ 11/22/07 CutBrine 7.875 17 J-55 0 7495 600 0 Prod 5.5 1415 C Y I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been will be constructed or closed according to NMOCD guidelines , a general pennit or an (attached) alternative OCD-approved plan. TITLE Production Clerk SIGNATURE Electronically Signed DATE 12/11/2007

TITLE Geologist

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

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

Type or print name Jerry Sherrell

Bryan Arrant

For State Use Only: APPROVED BY:

Subtitit 3 Copies To Appropriate District Form C-103 State of New Mexico Office May 27, 2004 Energy, Minerals and Natural Resources District I WELL API NO. 1625.N French Dr, Hobbs, NM 88240 30-015-35814 District 11 OIL CONSERVATION DIVISION 1301 W. Grand Ave . Artesia. NM 88210 5. Indicate Type of Lease 1220 South St. Francis Dr. District III STATE 🛛 FEE 1000 Rio Brazos Rd , Aztec, NM 87410 Santa Fe, NM 87505 6. State Oil & Gas Lease No. District IV 1220 S St Francis Dr , Santa Fe, NM 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 A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH FFR 26 2008 8. Well Number 2 1. Type of Well: Oil Well Gas Well Other OCD-ARTESIA 9. OGRID Number 2. Name of Operator 013837 Mack Energy Corporation I 0. Pool name or Wildcat 3. Address of Operator Red Lake; Glorieta-Yeso P. O. Box 960 Artesia, NM 88211-0960 4. Well Location line and feet from the Unit Letter feet from the line Eddy Section Township. Range **NMPM** County 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3590' GR Pit or Below-grade Tank Application or Closure _Depth Groundwater_ _Distance from nearest fresh water well__ Distance from nearest surface water_ Pit Liner Thickness: Below-Grade Tank: Volume _ bb1s; Construction Material 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING | TEMPORARILY ABANDON 🔲 CHANGE PLANS COMMENCE DRILLING OPNS P AND A CASING/CEMENT JOB PULL OR ALTER CASING MULTIPLE COMPL OTHER: Completion OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. 12/15/2007 Perforated from 6134.5-6434' 57 holes. 12/17/2007 Acidized w/4500 gals 15%. 12/18/2007 RIH w/203 joints 2 7/8 tubing SN @ 6439'. RIH w/2 1/2"x2"x20' pump. 12/26/2007 Set CIBP @ 6020' w/35' cement cap. Perforated from 5789.5-5957.5' 52 holes. 12/27/2007 Acidized w/4500 gals 15%. 12/28/2007 Perforated from 5391-5700.5' 83 holes. Acidized w/5000 gals 15%. 12/29/2007 RIH w/188 joints 2 7/8 tubing SN @ 5965'. RIH w/2 1/2"x2"x20' pump. 1/7/2008 Set CIBP @ 5300' w/35' cement cap. Perforated from 4118.5-4197' 40 holes. 1/8/2008 Acidized w/2000 gals 15%. 1/9/2008 Frac w/8130# liteprop, 68,890# 16/30 sand, 14,046# siberprop, 91,292 gals 30/40# gel. 1/11/2008 RIH w/134 joints 2 7/8" tubing SN @ 4243'. RIH 2 1/2 x 2 x 20' Pump. I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines 🗔, a general permit 🔲 or an (attached) alternative OCD-approved plan 🔲 TITLE Production Clerk **SIGNATURE** _DATE 2/25/08 Type or print name Jerry W. Sherrell E-mail address: jerrys@mackenergycorp.com Telephone No. (575)748-1288

For State Use Only

Conditions of Approval (if any):

APPROVED BY:

FOR RECORDS ONLY

TITLE_

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

State of New Mexico
Energy, Minerals & Natural Resource 26 2008

Form C-104 Revised Feb. 26, 2007

1301 W Grand A	venue, Art	esia. NN	M 8821	0					ACD ART	resia	ato Ann	ropriate District Office
District III 1000 Rio Brazos	Rd , Aztec	, NM 87	410			il Conservati			OCD-HIV	, Maronni	-to App	5 Copies
District IV 1220 S. St. France	as Dr., San	ta Fe. Ni	M 8750)5	12	20 South St Santa Fe, N		•				AMENDED DEDORT
					RALLO			нов	RIZATION	то т		AMENDED REPORT
ı Operator n		Addre	SS	-			IIID IIOI	1101	2 OGRID Nu			
			Mack	Energy P.O. Bo	Corpora	ition			3 Reason for	Filing C	013837	
			Artes		88211-0	960			3 Reason to	i iiiig Ci	NW	cenve Bate
4 API Numb			Pool	Name					-	6 Po	ol Code	21 401
30-015-3:			Duna	ante Non		Red Lake; Gl	orieta-Yeso,	NR			ell Num	51120 96836
303	847			erty Nar		State	Н			°w	en Num	2
H. Surfa	section	ation	l Schip	Range	Lot Idn	Feet from the	North/South	line	Feet from the	Fast/V	Vest line	County
H	2	18	- 1	27E	Lot full	2063	North	11110	441	1	ast	Eddy
11 Bo	ttom Ho	le Loc	cation	1						<u> </u>		
UL or lot no.	Section	Towr	nship	Range	Lot Idn	Feet from the	North/South	line	Feet from the	East/V	Vest line	County
Н	2	18S		27E	ection Date	2300	North		340	East	- 0	Eddy
12 Lse Code	" Producing	g Method P	d Code		1/08	C-129 Peri	mıt Number	16 C	C-129 Effective	Date	17 C-	129 Expiration Date
	nd Goo				1708	<u></u>		L				
Ill. Oil a	rter das	<u>1 rans</u>	sport	ers		19 Transpo	rter Name					²⁰ O/G/W
OGRID						and A	ddress				_	
015694		vajo F Box		ng								0
				88211-0	159							
036785	DO	CP Mic	dstrea	ım LP								G
30700	40	01 Per										
	Oc	lessa,	TX 7	9762								
												· ·
. 51. 1												
<u> </u>												
IV. Well		tion I	Data									
21 Spud Da	1		eady l			²³ TD	²⁴ PBTI)	25 Perfora			²⁶ DHC, MC
10/31/20	ole Size	11/	/23/20 T		g & Tubir	7545'	5265'	epth S	4118.5-4	+19/	10 Sac	cks Cement
						Ig Size						
17	7 1/2		ļ		13 3/8			201				250
12	2 1/4				8 5/8		1	170				675
	7.10				· · · ·			105				1415
	7/8		+		5 1/2			495				1415
					2 7/8		4	243				
V. Well	Test Da	ta Good	Dalin	ery Date		Cout Data	-					26
11 Date New	-					Test Date	34 Test	_	tn ¹5 T	bg. Pres	sure	³⁶ Csg. Pressure
1/14/200		1/	14/20 3* Oil	008		/30/08 Water		ours Gas				41 Test Method
37 Choke S	ize				3"							
⁴² I hereby cer	tify that t	he rule	8 s of th	e Oil Con	Servation	Division have	3	0	OIL CON S ER	VATION	Divier	P
been complied	l with and	that th	e info	rmation g	given abov				OIL CONSER	VATION	ואואום	JN
complete to the	e best of	my kno	wledg	ge and bel	lief	No	Approved-by:					
	Ler	us-	W	<u> S</u>	Kens	IK	. ipproved-by:	X	mberly	49	1. W	Uson
Printed name Jerry W. She	errell	<i>U</i>					Title: (smaliance Valicer)					
Title: Production (Clerk						Approval Date: 3-5-08					
E-mail Addres	ss:								<u> </u>			
jerrys@macl	kenergyc	orp.cc	om				1					

Date: 2/25/08

Phone: (575)748-1288

State of New Mexico Energy, Minerals and Natural Resources Department Form C-105

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

Revised 1-1-89

DISTRICT I P O Box 1980, Hobbs,	NM 88240	OIL	CONS	SERVA			VIS	ION	I	ell api no -015-35814	1		
DISTRICT II			Canta I	2040 South Fe, New I			505		_	Indicate Typ			
811 South First, Artesia	a, NM 88210		Sama	re, new i	viexic	20 67	303					ATE X	FEE
<u>DISTRICT III</u> 1000 R ₁₀ Brazos Rd , A	ztec, NM 87410									State Oil & Ga 9391	is Lease No		
WELL C	OMPLETION	OR RE	COMPL	ETION RE	PORT	AND	LOG					**************************************	
1 Type of Well OIL WELL			DRY	OTHER					7	Lease Name	or Unit Agi	reement N	lame .
b Type of Completion		_							_				
NEW WORK WELL OVER	Deepen	PLUG BACK		RESVR O	THER				Sta	ite H			
2 Name of Operator						B 26	3 200	18	- 1	Well No			
Mack Energy Corpor	ration				<u> tt</u>	D-A	OTE	SIA	2	Pool name o	r Wildcat		
P.O. Box 960, Artesia	a, NM 88211-0	960			OC	D-A			1	ed Lake; G		so NE	<u> </u>
4. Well Location	H : 2063	F	F Th.	No	4 15				441	P . P		10.	ast Line
Omi Letter	11 . 2003	Feet	From The	110			ine and		441	reet Fr	om The	E	1St Line
Section	2		nship	18S	Range	e	27.	E	NMI	м	Eddy	,	County
10 Date Spudded 10/31/2007	11 Date TD Reac 11/21/200		12 Date C	ompl <i>(Ready i</i> 1/11/08		1	13 E	levatio		<i>rkb, rt, gf</i> 0' GR	R, etc)	14 Elev	Casınghead
15 Total Depth	16. Plug B		l	17 If Multiple Co Many Zones			1	18 Inte	ervals ,	Rotary Tools	l	Cable	Tools
7545'		5265'						Dril	led By	Y		<u></u>	
19 Producing Interval(s)	of this completion	- Top, B	ottom, Nam	e						2	0 Was Dire		· ·
4118.5-4197' 21 Type Electric and Oth	ner Logs Run									22 Was We	II Cored	Yes	· · · · · · · · · · · · · · · · · · ·
Gamma Ray, Neutron	-	ralog, S ₁	pectral Ga	ımma Ray						ZZ Was We		No	
23		CAS	SING RI	ECORD (Renor	t all o	strin	σε ς ρ	t in w	ell)			
CASING SIZE	WEIGHT L		l .	TH SET		OLE S		53.50		ENTING RI	ECORD	AN	OUNT PULLE
13 3/8	48			201		17 1/2				250 sx			None
8 5/8 5 1/2	32			170 495		12 1/4 7 7/8		_		675 sx 1415 sx			None None
3 1/2	17		,	473		7 770				1415 54			TVOILE
24													
SIZE	ТОР		ER RECC	SACKS CE	MENIT	· c	CREE	NI	25	SIZE TUI	BING RE DEPTH		DACKED SET
				SACKS CE	IVIEIVI	.3	CKLL			2 7/8	424		PACKER SET
26 Perforation recor	,	*											JEEZE, ETC.
	134', .42, 57 CI 7.5', .42, 92 CII					DE	PTHI	NTERV	/AL	See C-103			ERIAL USED
3391-393	4118.5-41			син сар						Sec C-103	101 detail		
							-						
28				PRODU	CTIC) N							
Date First Production		Productio	on Method (Flowing, gas li				type pu	mp)		Well Sta		. or Shut-in)
1/14/2008 Date of Test	Hours Tested		hoke Sıze	2 1/2 Prod'n Fo	x2x20'	Pump			as - MC	E W	/ater- Bbl	Produ	Gas - Oil Ratio
1/30/08	24 hours		noke Size	Test Peri	-	8		1	30	·	30		3750
Flow Tubing Press	Casing Pressure		alculated 24	- Oıl - Bbl			s - MC	CF		er- Bbl.		ivity - AP	I - (Corr.)
				8		30			30				
29 Disposition of Gas (So Sold	old, used for fuel, ve	ented, etc)							Test Wi	tnessed By		
30 List Attachments											Kobe	rt C. Ch	iase
Deviation Survey and	Logs												
31. I hereby certify the		shown o	n both side	es of this forn	n is true	and c	omple	te to ti	he best o	of my knowle	edge and be	elief	
Signature	[1] .	Skon		rinted	Terry	W. Sh	errell		Title	Product	tion Clerk	Dat	e 2/25/08



PO Box 1370 Artesia, NM 88211-1370 (505) 748-1288 FEB 26 2008 OCD-ARTESIA

November 30, 2007

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

RE: State H #2

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

Dear Sir,

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

Very truly yours,

Leroy Curry

Drilling Superintendent

State of New Mexico }
County of Eddy }

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

Notary Public

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	
The state of the s				
11/07/2007	1587.00	7.21	156.40	
11/07/2007	1683.00	8.51	155.20	
11/07/2007	1778.00	9.94	158.10	
11/07/2007	1873.00	9.56	157.60	
11/08/2007	1968.00	10.53	159.60	
11/08/2007	2064.00	9.83	160.00	
11/08/2007	2159.00	9.69	160.50	
11/08/2007	2350.00	10.78	156.20	
11/08/2007	2445.00	10.67	156.40	
11/08/2007	2540.00	10.54	155.40	
11/08/2007	2604.00	10.43	156.30	
11/09/2007	2699.00	8.58	156.50	
		7.39	158.60	
11/09/2007	2794.00			
11/09/2007	298 4 .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	37 4 6.00	0.67	157.20	
11/10/2007	3841.00	0.59	154.20	
11/10/2007	3936.00	0.24	309.30	
11/11/2007	4031.00	0.30	302.30	
11/11/2007	4126.00	0.45	322.60	
11/11/2007	4222.00	1.06	337.40	
11/11/2007	4602.00	1.01	348.10	
• •				
11/12/2007	4666.00	1.10	18.68	
11/12/2007	4729.00	0.53	71.05	
11/12/2007	4824.00	0.27	38.14	
11/12/2007	4920.00	0.71	12.94	
11/12/2007	5015.00	1.19	5.48	
11/12/2007	5110.00	0.82	20.33	
11/12/2007	5206.00	0.28	132.80	
11/13/2007	5301.00	0.54	23.07	
11/13/2007	5396.00	0.34	49.15	
11/13/2007	5491.00	1.12	153.70	
	5586.00		189.30	
11/13/2007		2.14		
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	
,,		5.01		



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

Notorized this date 19th of Lecernber, 2007.

Aldrah Stee Bynus County of Midland

State of Texas

DEBORAH SUE BYNUM Notary Public, State of Texas My Commission Expires 5/9/08



Scientific Drilling International Survey Report

Company: MACK ENERGY
Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: VH - Job #32K11071013

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

Time: 18:34.47 Page: : Site: Eddy County, NM, Grid North SITE 0.0

Section (VS) Reference: Survey Calculation Method:

Well (0.00N,0.00E,156.92Azi)
Minimum Curvature Db: Sybase

Survey:

11/06/07 KSRG 0'-1143' Scientific Drilling Internatio Keeper;Keeper Gyro Company: Tool:

Start Date:

11/06/2007

Engineer: Tied-to: Madrid w/P&M From Surface

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	77.4
200.00	0.42	110.33	199.99	0 45	0.11	1.40	0.35	1.40	85.6
300.00	0.37	96.72	299.99	0.86	-0.06	2.06	0.11	2.07	91.5
400.00	0.38	143.78	399.99	1.35	-0.36	2.58	0.30	2.61	98.0
500.00	0.26	212.14	499.99	1.80	-0.82	2.66	0.37	2.78	107.2
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	103.7
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



Company: MACK ENERGY Field: Chalk Bluff Site: Eddy County, NM

State H #2

Wellpath: DH - Job #32D11071006

Scientific Drilling International Survey Report

Start Date:

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

Time: 19:33:59 Page: :: Site: Eddy County, NM, Grid North SITE 0.0

Well (0.00N,0.00E,156.92Azi)
Minimum Curvature

Db: Sybase

Section (VS) Reference: Minimum Curvature **Survey Calculation Method:**

Survey:

Field: Site:

Well:

11/05/07-11/14/07 MWD 1206'-7367' Scientific Drilling Internatio Company: MWD;MWD

Engineer: Tied-to:

11/05/2007

Hernandez/Biggs/Elger From: Definitive Path

Tool:

5586.00

2.14

189.33

5565.94

Survey									
MD	Incl	Azim	TVD	vs	N/S	E/W	DLS	ClsD	ClsA
ft ft	deg	deg	ft	ft	, ft	ft	deg/100ft	, ft ·	deg
1143.00	0.26	86.43	1142.95	3.24	-0.90	6.16	0.00	6.23	98.28
1206.00	0.17	46.81	1205.95	3.26	-0.82	6.37	0.27	6.43	97.37
1301.00	1.66	164.91	1300.94	4.57	-2.06	6.83	1.84	7.14	106.75
1396.00	3.41	161.92	1395.84	8.75	-6.07	8.07	1.85	10.10	126.96
1492.00	5.19	159.14	1491.57	15.93	-12.84	10 50	1.87	16.59	140.73
1587.00	7.21	156.46	1586.01	26.19	-22.32	14.41	2.15	26.57	147.15
1682.00	8.51	155.25	1680.11	39.18	-34.17	19.74	1.38	39.46	149.99
1778.00	9 94	158.14	1774.87	54.56	-48.32	25 80	1.57	54.77	151.90
1873.00	9 56	157.67	1868.50	70.65	-63.22	31.85	0.41	70.79	153.26
1968.00	10.53	159.64	1962.04	87.21	-78.66	37.86	1.08	87.30	154.30
2064.00	9 83	160.07	2056.53	104.15	-94.59	43.71	0.73	104.20	155.20
2159.00	9.69	160.58	2150.15	120.23	-109.75	49.13	0.17	120.25	155.88
2255.00	10 79	160.25	2244.62	137.26	-125.83	54.86	1.15	137.27	156.45
								155.02	156.65
2350.00	10.78	156.23	2337.95	155.02	-142.33	61.44	0.79		
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	24143	-221.00	93.00	1.51	241.43	150.05
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
		170.00	0.1.0.10	050 70				050.00	457.40
3460.00	0.48	176.03	3440.12	259.79	-239.90	99.71	1.10	259 80	157.43
3556.00	0.51	181.08	3536.11	260 56	-240.73	99.73	0.06	260.57	157.50
3651.00	0.65	173.19	3631.11	261.46	-241.69	99.79	0.17	261.48	157.57
3746.00	0.67	157.21	3726.10	262.54	-242.74	100.07	0.19	262.55	157.60
3841.00	0.59	154.21	3821.10	263.58	-243.69	100.50	0.09	263.60	157 59
3936.00	0.24	309.36	3916.09	263.89	-244.00	100.55	0.86	263 91	157.60
4031.00	0.24	302.31	4011 09	263.51	-244.00	100.55	0.07	263.53	157.66
4126.00	0.30	322.60	4106.09	262.95	-243.74 -243.32	99.75	0.07	262.97	157.71
4222.00	1.06	337.45	4202.08	262.95 261.69	-243.32 -242.20	99.75	0.21	261.72	157.73
	0.86	37.45 37.93						260.49	157.73
4317.00	0.00	37.93	4297.07	260.47	-240.82	99.29	1.03	∠00.49	157.59
4412.00	0.59	7.90	4392.06	259.70	-239.78	99.79	0.48	259.71	157.40
4507.00	1.14	0.19	4487.05	258.42	-238.35	99.86	0.59	258.42	157.27
4602.00	1 01	346 16	4582.04	256.72	-236.59	99.66	0.31	256.72	157.16
4667.00	1.10	18.68	4647.03	255.69	-235.44	99.73	0.92	255.69	157.04
4729.00	0.53	71.05	4709.02	255.27	-234.78	100.19	1.42	255.27	156.89
4824.00	0.28	38.14	4804.02	255.19	-234 46	100.75	0.35	255.19	156.75
4920.00	0.71	12.94	4900.01	254.59	-233.69	101.03	0.49	254.60	156.62
5015.00	1.19	5.48	4995.00	253.25	-232.14	101.25	0.52	253.26	156.43
5110.00	0.82	20.33	5089.99	251.89	-230.52	101.58	0.47	251.91	156.22
5206.00	0.28	132.80	5185.98	251.60	-230.03	101.99	1.00	251.63	156.09
E201.00	0.54	22.07	E200 00	251 54	220.70	100.04	0.70	254.54	155.00
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

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 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:

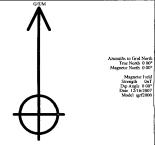
Survey

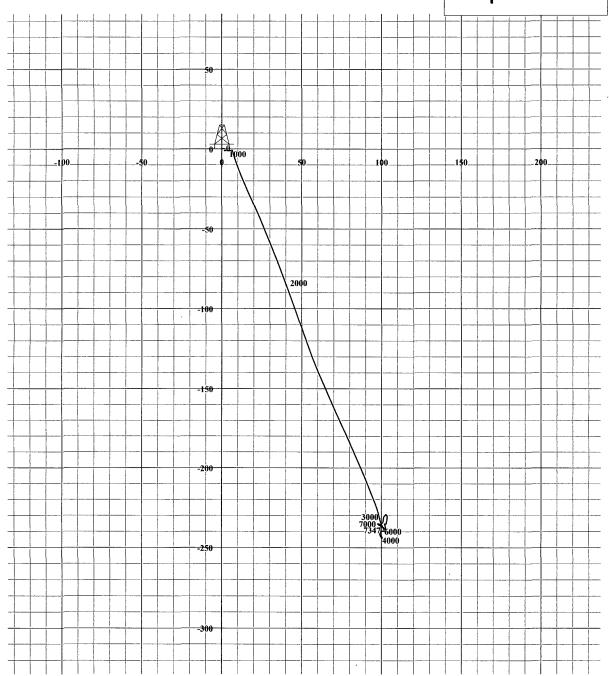
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft,	ClsD ft	ClsA deg
5681.00	1.09	194.79	5660.90	256.59	-235.04	102.96	1.12	256.60	156.34
5745.00	0.67	318.43	5724.89	256.71	-235.35	102.55	2.44	256.72	156.45
5839.00	0.24	221.30	5818.89	256.28	-235.08	102.06	0.79	256.28	156.53
5935.00	1.41	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





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

Wilson, Kimberly M, EMNRD

From:

Jerry Sherrell [jerrys@mackenergycorp.com]

Sent:

Wednesday, March 05, 2008 3:37 PM

To:

Wilson, Kimberly M, EMNRD

Subject:

FW: Financial Assurance/Rule 40- Mack

Importance: High

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

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

To: Mull, Donna, EMNRD

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

Subject: Financial Assurance/Rule 40- Mack

Importance: High

Donna -

I have received a pdf version of what appears to be a properly and fully executed single well bond for the state h no. 001, 03-015-00745, which Mack has assured me that they are 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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3/5/2008

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This inbound email has been scanned by the MessageLabs Email Security System.

Submit 3 Copies To Appropriate District Office	State of New M Energy, Minerals and Na			Form C-103 June 19, 2008
District I 1625 N French Dr., Hobbs, NM 88240			WELL API NO. 30-015-35814	
District II 1301 W Grand Ave , Artesia, NM 8821 0	OIL CONSERVATIO		5. Indicate Type of	Lease
<u>District III</u> I 000 Rio Brazos Rd , Aztec, NM 8741 0	1220 South St. Fr. Santa Fe, NM		STATE 🛛	FEE 🗆
District IV 1220 S. St. Francis Dr , Santa Fc, NM	Salla re, NWI	07303 O	6. State Oil & Gas I	Lease No.
87505 SUNDRY NOTIC	Y CO CA CULTURE ON WELL	<u> </u>	B-9391	Init Agreement Name
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR, USE "APPLICA PROPOSALS)	ALS TO DRILL OR TO DEEPEN OR F		State H	The Agreement Name
1. Type of Well: Oil Well 🛛 🔻 🔾	as Well 🔲 Other		8. Well Number	2
2. Name of Operator Mack E	nergy Corporation		9. OGRID Number	3837
3 Address of Operator			10. Pool Name or W	
	Artesia, NM 88210		Red Lake; Glorieta-	Yeso NE
4. Well Location Unit Letter H	2063 feet from the No	orth line and	441 feet from	the East line
Section 2	Township 18S	Range 27E	NMPM	County Eddy
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	11. Elevation (Show whether a			
注:公司高益等 例的300 多位对应点表。		00' GR	8.57	The said of the state of the st
12. Check Ap	propriate Box to Indicate	Nature of Notice,	Report or Other D	ata
NOTICE OF INT	ENTION TO:	l SUB	SEQUENT REP	ORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIALWOR	K 🗍 A	LTERING CASING 🔲
TEMPORARILY ABANDON L	CHANGE PLANS MULTIPLE COMPL	COMMENCE DRI		AND A
DOWNHOLE COMMINGLE	MOLTIFLE COMPL	CASING/CEMEN		
OTHER: 13. Describe proposed or comple	tad aparations (Clearly state al	OTHER:	Workover	including actimated data
	k). SEE RULE 1103. For Multi			
2/12/2008 Perforated 3790.5-4025.5	•			
2/13/2008 Acidized w/ 2,500 gals 1 2/20/2008 Frac w/ 20,156# White S		16/30 36 414 gale	40# gel	
2/21/2008 Perforated 3364-3677', 73		5 10/50, 50,414 gais	TOW get.	
2/22/2008 Acidized w/ 2,500 gals 1	5% NEFE Acid.	1.16/20 15.200// 02		00 1 10"11 0 1
2/25/2008 Frac w/ 8,000# LiteProp 2/27/2008 RIH w/ 134jts 2 7/8" J-55			iber Prop 16/30, 85,0	00 gais 40# Linear Gel.
				RECEIVED
				SEP 2 0 2012
Spud Date:	Rig Release	Date: .	1/00/00/0	NMOCD ARTESIA
10/31/2007		1	1/22/2007	_
I hereby certify that the information al	oove is true slid complete to the	best of my knowledg	e and belief.	
Ž 1		, ,	,	1,0,0
SIGNATURE DUM W	TITLE Prod	uction Clerk	DAT	E4.18.12
Type or print name Deana Weaver	E-mail addre	ess: dweaver@mec.	com PHO	NE: (575)748-1288
For State Use Only	√. ∧	AS O	0	dy (1-
APPROVED BY: /// Conditions of Approval (if any):	M TITLE DA	15TUDY	MOS DATI	7/06/12



NAVAJO REFINING COMPANY Map ID No. づ4 Artificial Penetration Review

OPERATOR Mewbourne Oil Co. LEASE Chalk Bluff Fed WELL NUMBER Com 003 DRILLED 11-24-92 PLUGGED NA	STATUS ACTIVE GOS LOCATION Sec. 1 -T18S-R27E MUD FILLED BOREHOLE NA TOP OF INJECTION ZONE 7345' API NO
REMARKS: Calc. Top of Cement	behind 7"@ 910?
	~95/8"@ 2600' ω Z50 sx
	710 QQ r 01 11700 00
	∠ 7"@ 8968' ω/1200 sx
	Perfs: 9950'-9954' Perfs: 9957'-9972'
Z Z	78" +bg@ 9972' pkr@ 9797'
	41/2" @ 8600'-10,150' W/200 sx
TD 10150'	



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

LEASE CM	alk Bluff Federal
WELL NUME	BER 3
DRILLED	1 16 93
PLUGGED	NA

STATUS ACTIVE

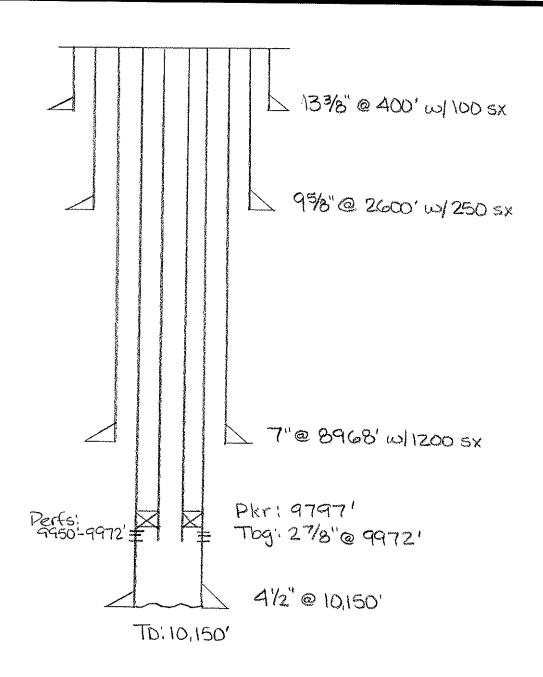
LOCATION Sec. 1 -T | 8 s-R27E

MUD FILLED BOREHOLE NA

TOP INJECTION ZONE -3702'

API NO. 30-015- 27163

REMARKS:



MAP ID NO. 99

MEWBOURNE OIL CO. CHALK BLUFF FEDERAL COM NO. 003

API NO. 30-015-27163

APD ATTATCHMENT

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

- 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.

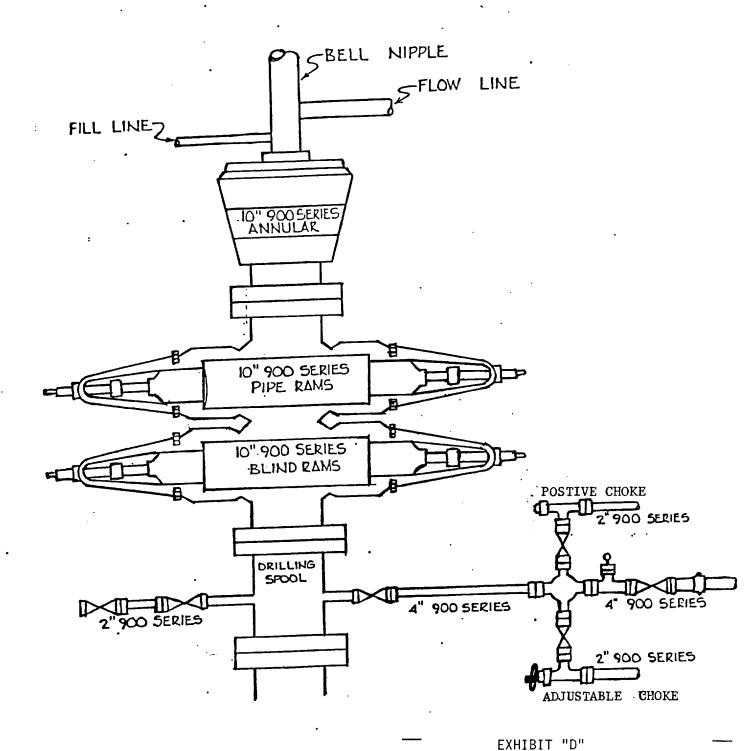
2nd Stage:

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.

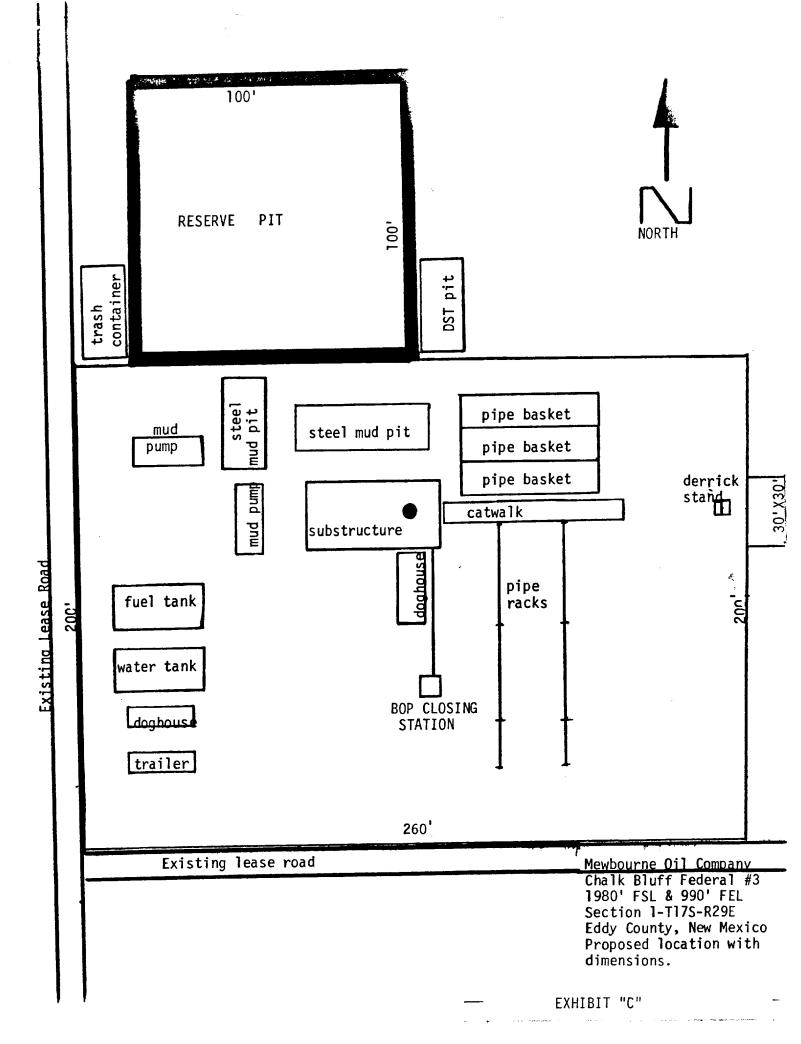
- 3.) Drilling time will require approximately 35 40 days and drilling operations should begin approximately November 1, 1992.
- The possibility of encountering H2S gas in this area remote. Mewbourne Oil Company has drilled offset wells to this proposed location and none of these wells have encountered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

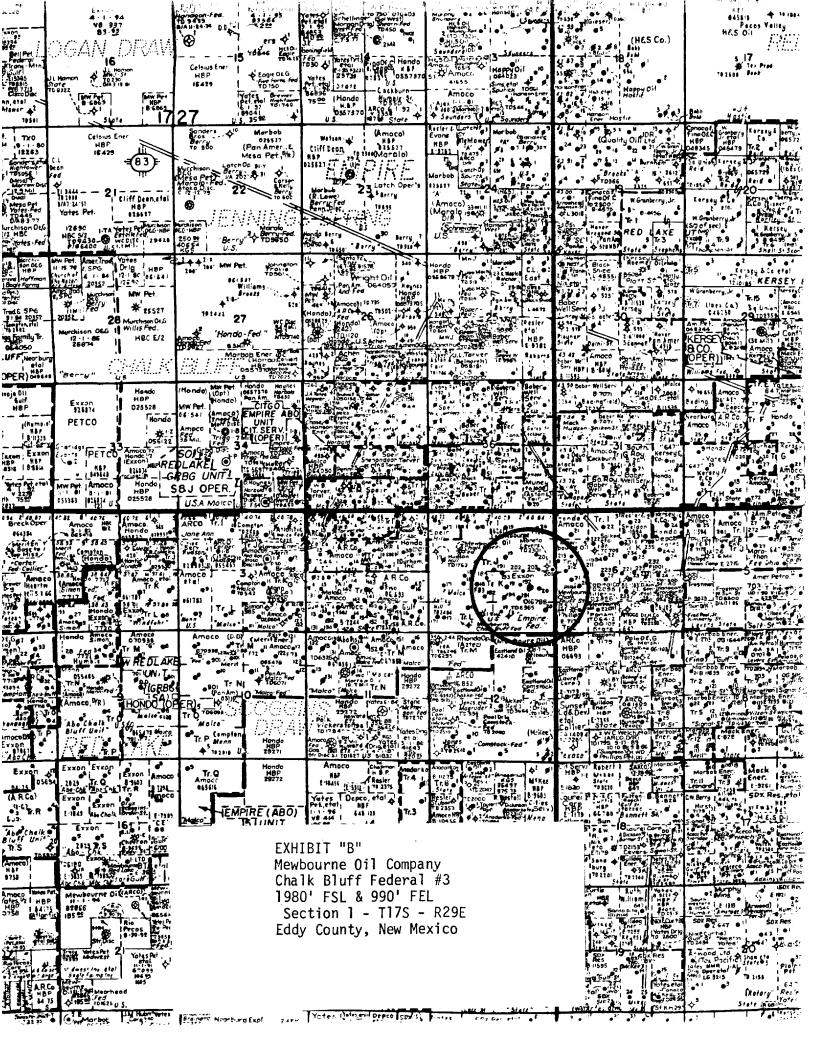
- 6.) This location is a non-standard location. A hearing is scheduled for October 15, 1992 in Santa Fe, New Mexico before the New Mexico Oil Conservation Division for an unorthodox location exception.
- 7.) The pressure rating on the BOP STACK (see exhibit "D" of the APD) is 3,000# psi. The correct pressure rating of ANSI 900 series is noted in the APD. The API standard for pressure ratings for flanged equipment is in ANSI series. ANSI 600 series is 2,000# psi working pressure test, ANSI 900 series is 3,000# psi working pressure, ANSI 1500 series is 5,000# psi work-pressure.

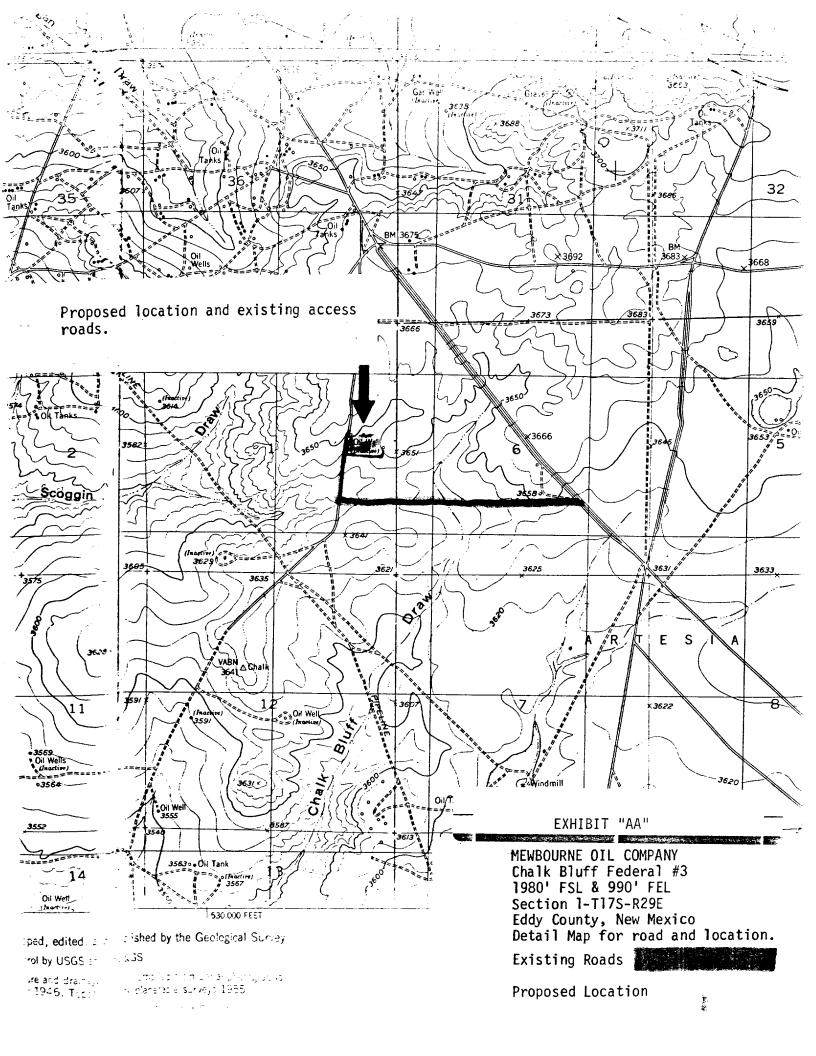
LEASE NAME:	CHALK I	Luff f ei	DERAL #3	TYPE OF CSG	etring:	PRODUCTION
LEGALS:	SEC 1-1	85-27E		DEPTH OF CS	3:	10,300
CASING MINIMUM PERFOR	MANCE P	ROPERTIE	\$			
CSG TYPE			K-FACTOR	COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&	C		991,000	8830	9190	428000
2 5 1/2" 17# N-80 LT&	C		844,000	6380	7740	348000
3 5 1/2" 20# N-80 LT&			991,000	8830	9190	428000
4			•			
5						
GRADE OF CASING:	85	% OF NE	W	the second secon		
CSG TYPE				COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&	С			7506	7812	363800
2 5 1/2" 17# N-80 LT&	C			5423	6579	295800
3 5 1/2" 20# N-80 LT&	С			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:	9.6	PPG				
BOUYANCY FACTOR		(AIR =	1)			
DISPLACEMENT FLUID WT	8.5	PPG	ANNULAR	COLLAPSE	HOLE	
			HYDROSTATIC	W/AXIAL	HYDROSTATIC	
DEPTH	_		PRESSURE	LOADING	PRESSURE	TENSION
0			0		0	154,478
1 1000			499	5982	442	137,418
2 9300			4643	5290	4111	17,060
3 10300			5142	7506	4553	0
4 0	1		0	ERR	0	0
5			0	ERR	0	0
FINIAL CASING DESIGN				SAFTEY FACT		mento Ton
			T 1111 AMIT	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	•	1000	1.460	1.716	21.325
5 1/2" 17# N-80 LT&C	9,300	•	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

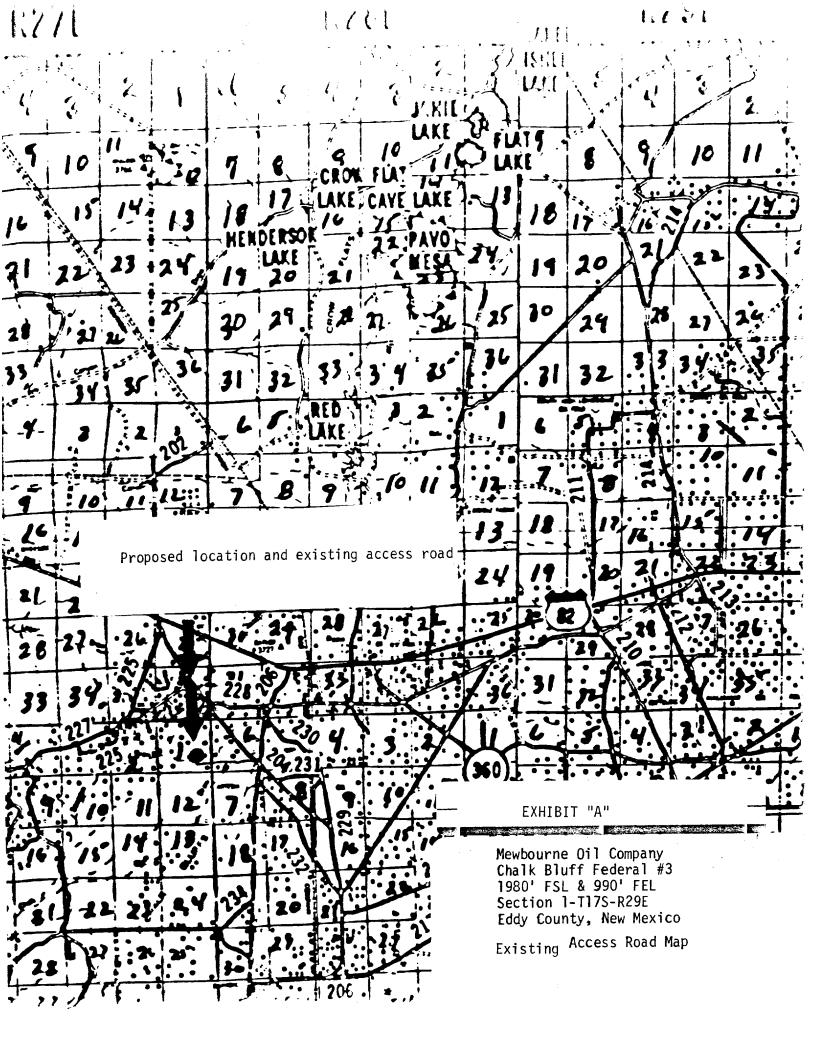


Mewbourne Oil Company Chalk Bluff Federal #3 1980' FSL & 990' FEL Section 1-T17S-R29E Eddy County, New Mexico









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

State of New Mexico

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

0						.02.00					Well No.	
Operator					1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					"	
MEWBOLIRNE		COMPANY			 ,		RLUFF	FEDER	AT.	Country	1 3	
Unit Letter	Section		Township	001		Cange 0.7	TO A COMP			County	אחע	
I	<u> </u>	<u> </u>	18	SOUTH		27	EAST	N	MPM	l El	DY	
Actual Footage Loca	ation of W					000				EACO		
1980	feet from	a min	UTH	line	and	990	<u> </u>	feet	from	the EAST	line	
Ground level Elev.		Producing	Formation		1	Pool					Dedicated Acr	age:
3628		Morro	ow.			North I	llinois	Camp M	orro	OW	320	Acres
2. If more 3. If more unitizat XX	e than one than one tion, force Yes	ge dedicated lease is dedi lease of diff- pooling, etc.	to the subject cated to the we erent ownership.?	ell, outline es p is dedicated answer is "	ch and ic d to the v	or hachure a dentify the own well, have the of consolidat	naries on the mership there interest of all ion.	plat below. of (both as to owners been	worki conso za t	ng interest and lidated by comm		
this form	if neccess	ary.		-								
No allows	able will b	e assigned to						nitization, unit	izatio	n, forced-poolin	g, or otherwise)	
			ninating such is					•				
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		! {					<u> </u>		.][Date Surveyed 8/26/9		
		- Company of the Comp	••							Signature & Signat		
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0 330 560	290 13	20 1650	1380 2310	2540	2000	1500	1000	500	6	Name	العسلمين والماموي	

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. No
 cores are planned
 at this time.
- I. Logging: Gamma Ray Spectral Density Dual Spaced Neutron Log from T.D. to surface. Gamma Ray - Dual LaterLog - Micro Guard Log from T. D. to Intermediate casing.
- J. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to accommodate 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 NHED STATESION DEPARTMENT NOF THE INTERIOR

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

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

6021()	THE PERIOD AND
BUREAU OF LAND MANAGEMENT	NM-0 16788 05

APPLICATION	N FOR PERMIT	ro drill, e	DEEPE	N, OR PLU	JG B	ACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
	ILL XXX	DEEPEN [PLUG	BAG	CK 🗆	7. UNIT AGREEMENT	NAME
	AS YELL X OTHER				MULTIP	re []	8. FARM OR LEASE N	AME
WELL W 2. NAME OF OPERATOR	ELL X OTHER		ZON	``	Zone `Est <i>i</i> e		Chalk Bluff	_
Mewbourne Oi	1 Company			VEC	EIVE	Ď	9. WELL NO.	
3. ADDRESS OF OPERATOR	1. Company			Con.	1 0 71	000	3	
Box 5270	Hobbs, New Mo	exico 8824	1			392	10. FIELD AND POOL,	OR WILDCAT
LOCATION OF WELL (R. At surface	eport location clearly and	in accordance wit	h any St	te requirements	C. D.		North Illinoi	is Camp Morro
1980' FSL at		_	_	APTEC	755	ICE	11. SEC., T., R., M., OI AND SURVEY OR	R BLK.
At proposed prod. son		J.					185 2	ĪĒ
Same							1-T17S-R25	
	AND DIRECTION FROM NEA			•			12. COUNTY OR PARIS	H 18. STATE
12 miles so	utheast of Arte	sia, New Me				<u>_</u> i	Eddy	NM
15. DISTANCE FROM PROPO LOCATION TO NEARES!	T		16. NO.	OF ACRES IN LE	181		F ACRES ASSIGNED	
PROPERTY OR LEASE I (Also to nearest drig	.INE, FT. g. unit line, if any)	990'		320			320	
18. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION*		19. PRO	POSED DEPTH		20. ROTAL	RY OR CABLE TOOLS	
OR APPLIED FOR, ON TH	IS LEASE, FT.	2040'] [0,300'		Ro	tary	
21. BLEVATIONS (Show who							22. APPROX. DATE W	_
3628	' GR					· ·- · ·	Upon BLM app	proval
23.		PROPOSED CASI	NG AND	CEMENTING PR	OGRA	M N	o Water Basir	1
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER FO	оот	SETTING DEPT	гн	1	QUANTITY OF CEM	
17 1/2"	13 3/8"	61#	-	400' +		450 s	ks. Class C d	irculated
12 1/4"	9 5/8"	36#		2,600' ±		800 sk	s. Tie back	into surface.
8 3/4"	5 1/2"	17 & 20#		10,300'	+	600 sk	s. of Class '	"H" SEE STIPS.
•	1 - 1, -		l			1	Part	-16-92
Mud Program:)0.	-16-72 -16-72
0-400' Spud	mud with fresh	water gel a	nd li	ne. LCM a	s ne	eded.	Mew L	De YAPI
400' - 2600'	Fresh water gel	and lime.	LCM a	as needed.	_		-	
2,600' - 8500'	Cut brine wit	h lime for	pH co	ntrol. Wt	. 9.	2 - 9.6	o# ppg, WL - I	NC. LCM as
	needed.							14 0 0
8,500 - 10.300	' Cut brine wi	th Drispac,	salt	gel, lime	, 50	da ash,	, and starch.	Wt. 9.2 -
			ess.	Raise wei	gnt	accorai	ingly if abnor	rma i pressure
	are encounte	rea.						
DOD DDOCDAM.								
BOP PROGRAM:			_	_				
900 series BOP	and Hydrill on	13 3/8" su	ırface	casing an	id on	9 5/8'	'intermediate	e casing.
Gas is not ded	licated.							
IN ABOVE SPACE DESCRIBE	E PROPOSED PROGRAM: If drill or deepen directions	proposal is to deep	en or plu	ig back, give dat	a on pr	resent produ d messured	active sone and propos land true vertical dep	sed new productive ths. Give blowout
preventer program, if an		my, give pertinent	. wata on	Buoballa of Island				
24.								
SIGNED Zell	a Bran	TIT	ue Dis	trict Supe	rint	endent	DATE _09/0	9/1992
SIGNED								•
(This space for Pede	eral or State office use)							
PERMIT NO.				PPROVAL DATE			 	-11.00
 				-			File	WEAU UF LAND
APPROVED BY			LE	· · ·	1,957		DATE	7-4/77
CONDITIONS OF APPROVAL S	AL IFANY TO						/	16/1/1
	QUIREMENTS AND						1	SEN
GENERAL RE	MOUTHING VILLA							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

SPECIAL STIPULATIONS

*See Instructions On Reverse Side

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

INSTRUCTIONS

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

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

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

or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the mad or lease description. A plat, or plats, separate or on this reverse side, showing the land or lease description. A plat, or plats, separate or on this reverse side, showing the land or lease description.

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 some

subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, con-

GENERAL SEPTEMBERS OF THE PROPOSAL DEFORE OPERATIONS SIE STRUCTURE, CONTENTAL OF THE PROPOSAL
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 equipproposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate

Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

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

1

RECEIVED

JAN 0 4 1993

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

O. C. D.

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

SUNDRY NOTICES Do not use this form for proposals to dr Use "APPLICATION FO	AND REPORTS ON WELLS rill or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals T IN TRIPLICATE	5. Lease Designation and Serial No. NM-0557377 6. If Indian, Allottee or Tribe Name 7. If Unit or CA, Agreement Designation 8. Well Name and No. Chalk Bluff Federal 9. API Well No. Comm. #3
3. Address and Telephone No. P.O. Box 5270 Hobbs, New M 4. Location of Well (Footage, Sec., T., R., M., or Survey D 1980' FSL & 990' FEL Sec. 1-T18S-R27E 12. CHECK APPROPRIATE BOX	lexico 88241 (505) 393-5905 Description) (s) TO INDICATE NATURE OF NOTICE, REPORT	3001527163 10. Field and Pool, or Exploratory Area North Illinois Camp 11. County or Parish, State Morrow Eddy Co., N.M. RT. 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 Spud well & cemented 13-3/8" surf. csg. Il pertinent details, and give pertinent dates, including estimated date of starting	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
Ran 10 joints of 13-3/8", 5 cemented w/100 sks. Class " 265 sks. of Class "C" conta gilsonite followed by 150 s	To 11/24/92. Drilled 17-1/2" surface 54.50#, New LS, ST&C casing and set 0 th" cement containing 12% Thixad + 3% tining 6% Gel + 3% CaCl2 + 1/4 pps cel sks. of Class "C" neet containing 3% Cat. Job complete 0 5:30 a.m. 11/25/92	400' KB. Western CaCl2 followed by loseal + 5 pps aCl2. Circulated
14. I hereby certify that the foregoing is true and correct Signed (This space for Federal or State office use) Approved by Conditions of approval, if any:	Title Drilling Supt.	Date 12/02/92

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.

1992

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; 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 of well; and the depth to top of any left in the hole; method of closing to of well; 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.

ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

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

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

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

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

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

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

BURDEN HOURS STATEMENT

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

eu.s. GPO: 1990-773-016/26019

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.

BUREAU OF	LAND MANAGEMENT O. C. D.	5. Lease Designation and Serial No.
SUNDRY NOTICES	AND REPORTS ON WELLS	NM-0557371 6. If Indian, Allottee or Tribe Name
Do not use this form for proposals to di	ill or to deepen or reentry to a different reservoir.	
Use "APPLICATION FO	R PERMIT—" for such proposals	
		7. If Unit or CA, Agreement Designation
SUBMI	IN TRIPLICATE	
1. Type of Well		
Oil Gas Other		8. Well Name and No.
2. Name of Operator	Chalk Bluff Federal	
Mewbourne Oil Company		9. API Well No. COMM. #3
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	escription)	N. Illinois Camp Morro
1980' FSL & 1980' FEL		11. County or Parish, State
Sec. 1-T18S-R27E		-11 0 H M 2
		Eddy Co., New Mexico
2. CHECK APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE, REPO	DRI, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	N
Notice of Intent	Abandonment	Change of Plans
I Notice of Intell	Recompletion	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 Cement 9-5/8" Inter. Casing	Dispose Water (Note: Report results of multiple completion on Well
	1	Completion or Recompletion Report and Log form.)
3. Describe Proposed or Completed Operations (Clearly state a	Ill pertinent details, and give pertinent dates, including estimated date of start cal depths for all markers and zones pertinent to this work.)*	ting any proposed work. If well is directionally drilled,
give substitute locations and incustrod and the vote		
Duillad 12 1/4" Intermediate	hole to 2600' KB. Ran 59 joints of	9-5/8", 36#, New LS.
ST&C casing and set @ 2600'	KB. Western cemented with 590 sacks	of Class "C" lite
containing 6% gel + 10 pps N	aC1 + 1/4 pps celloseal followed by 2	250 sacks of Class
"C" containing 2% CaCl2. Ci	culated 50 sacks of cement to the pi	it. Job complete @
11: 50 p.m. 11/29/92.		
		and the state of t
	production Ex. V	MEAN OF THE
		ATA DE LA CONTRACTION OF THE PARTY OF THE PA
	// /	_ ^44/1/ ₂ %\
	()	
	100.	02 1 S
		<i>₹</i> 0, ₹1
	No.	
		- 1949 J 1949 1949 1949 1949 1949 1949 1949 1949 1949 1949 1949 1949
		CPX-VCO
14. I hereby certify that the foregoing is true and correct	Desilling Cunt	12-02-92
Signed Self Viere	Drilling Supt.	Date
(This space for Federal of State office use)	16-11	
Approved by Mallage	Title	Date
Conditions of approval, if any:		

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 pupproval 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

or prosecutions.

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 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

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

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

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

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

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

BURDEN HOURS STATEMENT

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

4SF

Form 3160-5 (June 1990)

UNITED STATES . DEFARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

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 8. Well Name and No. Gas Well Other Chalk Bluff Fed. Comm. 3 2. Name of Operator 9. API Well No. Mewbourne Oil Company
3. Address and Telephone No. 30-015-27163 10. Field and Pool, or Exploratory Area P.O. Box 5270 Hobbs, New Mexico 88241

4. Location of Well (Footage, Sec., T., R., M., or Survey Description) N. Illinois Camp Morrow 11. County or Parish, State 1980' FSL & 1986'' FEL Sec. 1-T18S-R27E Eddy CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF ACTION TYPE OF SUBMISSION Change of Plans Abandonment Notice of Intent **New Construction** Recompletion Non-Routine Fracturing Plugging Back Subsequent Report Water Shut-Off Casing Repair Conversion to Injection Altering Casing Final Abandonment Notice Other Cement 7" 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.)* Lost complete returns \$\oldsymbol{p}\$ 7683' \setminus 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 \pm .75% CF-14 \pm 5 pps Gilsonite \pm .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 OR G. SGD.) DAVID R. GLASS Title Drilling Superintendent (This space for Federal or State office use) Title

Form	3160-5
(June	199(i)

UNITED STATES . DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

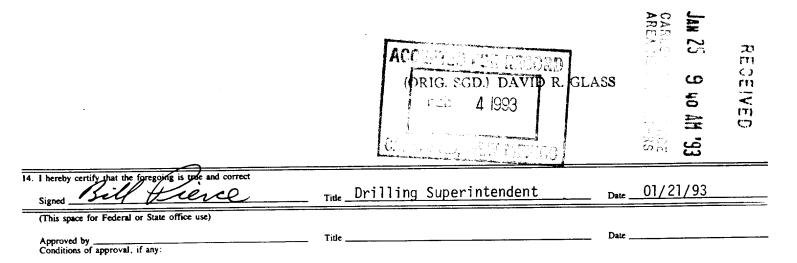
FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1973

5. Lease Designation and Serial No

MIM	.0557371	

SUBMIT	7. If Unit or CA, Agreement Designation	
1. Type of Well Well Well Other 2. Name of Operator Mewbourne Oil Company 3. Address and Telephone No. P.O. Box 5270 Hobbs, New Mex 4. Location of Well (Footage, Sec., T., R., M., or Survey December 1980 FSL & 1960 FEL Sec. 1-T18S-R27E	escription)	8. Well Name and No. Chalk Bluff Fed. Comm. #. 9. API Well No. 30-015-27163 10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow 11. County or Parish, State Eddy
TYPE OF SUBMISSION	s) TO INDICATE NATURE OF NOTICE, REPO	
Notice of Intent Subsequent Report Final Abandonment Notice 13. Describe Proposed or Completed Operations (Clearly state a	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.)

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



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

	sec twn 18 ··· rge	27	API :	30-015-27163
	SEC IMN RE-			•
		•		
	OPERATOR MEWBOHRNE	OIL CO		
	WELL NAME CHALK BLUF	$=$ FEO Com ± 3		
				
	STATE OCD TOPS AS PER	MARK ASHLEY		DATE /-25-93
	STATE OCD TOPS AS PER	700412		
	_	•	N7 .44	western New Mexico
	Southeastern New Mo	22100	North	
. Anhy	Т. Сапуо	1	T. Ojo Alamo	
	T. Strawn	9932	T. Kirdand-Fruitland	
. Sait	T. Atoka-	9490		T. Lezdville
, Yates			T. Cliff House	T. Madison
.7 Rivers_		ian	T. Menefee	T. Elbert
. Queen			T. Point Lookout	T. McCracken
. Grayburg			T. Mancos	T. Ignacio Otzae
'. San Andr			T. Gallup	T. Granite
. Glorietz _	3535 T. McRe	8	Base Greenhorn	
'. Paddock_		ਗ਼ਫੋਫ਼	T. Dakora	<u>T.</u>
. Blinebry_	T. Gr. W	ash dash	T. Morrison	<u>T</u>
Tubb	4760 T. Delay	rare Sand	_ T. Todilto	<u>T</u>
. Drinkard	T Done	Sarings	T. Enrada	<u>T</u> .
l. Abo	5745 T. Mark	lov is 9710	T. Wingate	<u>T</u>
[. Wolfcam	р 6475 т.			<u>T</u>
Г. Репп	7970 T.		T. Pennain	<u>T.</u>
r. Cisco (B	ough C) T.		_ T. Penn "A"	T

OIL OR GAS SANDS OR ZONES

No. 3, from.......

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole. No. 3, from......feet.....

REMARKS:

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-104 Revised 1-1-89 See Instructions

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

OIL CONSERVATION DIVISION P.O. Box 2088

RECEIVED

DISTRICT III		Santa	Fe, New Me	exico 87504	-2088		20 2 - 133	3 3	
1000 Rio Brazos Rd., Aztec, NM 87410	REQU	EST FOR	RALLOWAE	LE AND AL	JTHORI	ZATION	O. C. D.		
I.			SPORT OIL			_	ABTERIA WEL	CL	
Operator						Well	API No.		
Mewbourne Oil Compan	V					3	0-015-2716	3	
Address									
P.O. Box 5270 Hobbs	, New M	exico (38241						
Reason(s) for Filing (Check proper box)	·			Other	(Piease expl	lain)			
New Well		Change in Tr	insporter of:	_					
Recompletion	Oil	□ D	y Gas						
Change in Operator	Casinghead	iGas 🗌 Ca	ondensate 🔲						
If change of operator give name									
and address of previous operator									· · · · · · · · · · · · · · · · · · ·
II. DESCRIPTION OF WELL	AND LEA					1			N-
Lease Name		I	ol Name, Includi			F-V-V	of Lease Federal or Fiex	NM-055	se No. 57271
Chalk Bluff Federal Co	mm.	3 N	<u>orth Illii</u>	nois Camp	Morrow	/ /		1411-05	3/3/1
Location	10	00	c,	outh	. 99	20		East	
Unit Letter	_ :	<u>80 </u>	set From The	Line a	and	F	eet From The	Last	Line
1	n 18S		275		<i>-</i>		Eddy		Causater
Section Townshi	p 103	R	ange Z/E	, NMI	ΥМ,		Ludy		County
III. DESIGNATION OF TRAN	CPADTE	ווח אח פ	AND NATTI	RAT. GAS					
Name of Authorized Transporter of Oil	DE OK I E	or Condensat		Address (Give 4	address to w	hich approve	d copy of this form	n is to be sent	1)
				1			land. Tx.		
Amoco Pipeline IPC Name of Authorized Transporter of Casin	ghead Gas	O	Dry Gas	Address (Give a	address to w	hich approved	d copy of this form	n is to be sent	1)
Transwestern Pipeline			لهب ب	P.O. Box	1188 F	lous ton,	Texas 77	7251	
If well produces oil or liquids,	l Unit	Sec. T	wp. Rge.	Is gas actually o	connected?	When	?		
give location of tanks.	i I i	1 į	18S 27E	Yes		i o	1/15/93		
If this production is commingled with that	from any other	er lease or poo	al, give commingl	ing order number	r:	lone			
IV. COMPLETION DATA									
		Oil Well	Gas Well		Workover	Deepea	Plug Back Sa	ıme Res'v	Diff Res'v
Designate Type of Completion		1	1 X	X		<u> </u>	<u> </u>		<u> </u>
Date Spudded	Date Comp	i. Ready to Pr		Total Depth	10 15	0.1	P.B.T.D.	10 1001	
11/24/92		01/16	<u> </u>	- 01.0	10,150	0'		10,102	
Elevations (DF, RKB, RT, GR, etc.)	. L	oducing Form		Top Oil/Gas Pa	-	0.1	Tubing Depth	00701	
KB 3643' DF 3641' GL 36	18, FO	wer Mor	now	<u> </u>	9950	<u>U'</u>	Depth Casing S	99721	
Perforations	701						1		
9950'-9954' 9957'-99				CTT) CTT	C DECOI	<u> </u>		<u>10,150'</u>	
			ASING AND				7 64	OVO OFME	MT
HOLE SIZE		SING & TUB			EPTH SET			CKS CEME	ID-1
17-1/2"	13-3/8		·.5#			400' - 600'	100 sack 250 sack		
12-1/4"	9-5/8	3	36#			968'	1200 Sack		n + 0/5
8-3/4"	4-1/2	2" Liner	26# · 11.6#	8,600' t			200 sack		7 1 1 1
V. TEST DATA AND REQUE				3/8" & 2-		30	IZUU SACK	· ·	
OIL WELL (Test must be after :	recovery of to	tal volume of	 load oil and must	be equal to or a	zceed top al	lowable for th	is depth or be for	full 24 hour:	r.)
Date First New Oil Run To Tank	Date of Ter			Producing Met	ood (Flow, p	nemp, gas lift,	etc.)		
Length of Test	Tubing Pre	SELITE		Casing Pressure	:		Choke Size		
Actual Prod. During Test	Oil - Bbls.			Water - Bbis.			Gas- MCF		
							1		
GAS WELL									
Actual Prod. Test - MCF/D	Length of	Test		Bbis. Condense	te/MMCF		Gravity of Cor	adensate	
2000 MCF/D		.— 24 Hrs	S .		30 : 1		N/A	1	
Testing Method (pitot, back pr.)	Tubing Pre	esure (Shut-in		Casing Pressur			Choke Size		
Back Pressure		2850			0		10/	64"	
VI. OPERATOR CERTIFIC	'ATE OF		IANCE	1					
I hereby certify that the rules and regu				0	IL CO	NSERV	ATION D	NSIO	N
Division have been complied with and							JAN 2 9	1003	
is true and complete to the best of my				Date	Approv	ed	UNIX & 3	1333	
d ()-	~ P	1		Date	יאטיקרי				
	1-4	<u></u> _		D	_	I CILITA	CICKIPPI BY	2 + 40 1 *	
Signature		Engin	oor	∥ Ву			SIGNED BY		
Robert A Jones			itte			MKE WILL		er få	
Printed Name		-\ '		Title_	5	UPEKVIS	OR, DISTRIC	<u>+ 17</u>	

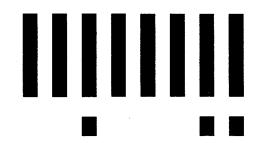
INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

01/19/93 Date

- 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.

(505) 393-5905 Telephone No

- 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

FOR OPPROVED OMPSO. 1004-0137 Form 3160-4. UNITED STATES OF SUBSIT IN BUPLICATE (October 1990) Expires December 31, 1991
5. LEASE INSIGNATION AND RESIDENT DEPARTMENT OF THE INTERIOR structions on BUREAU OF LAND MANAGEMENTIA, HM 88210 Peverse side) NM-05**52**371 WELL COMPLETION OR RECOMPLETION REPORT AND LOGS N ALLOTTE TO 6. IF IND 1a. TYPE OF WELL: WELL X 7. UNIT AGREGMENT NAM Other AFO 8. FARM OR LEAST NAME OF LEVEL NO. RS L TYPE OF COMPLETION: 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) 393-590
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* New Mexico 88241 (505) 393-5905 <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 14. PERMIT NO. DATE ISSUED Eddv N.M. 19. ELEV. CASINGHEAD 17. DATE COMPL. (Ready to prod.) 15. DATE SPUDDED 16. DATE T.D. REACHED 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 11/24/92 01/06/93 01/16/93 KB 3643' DF 3641' 36281 GL IF MULTIPLE COMPL., HOW MANY CABLE TOOLS 20. TOTAL DEPTH. MD 21. PLUG. BACK T.D., MD & TVD DRILLED BY 10, 150' 10, 102'

24. PRODUCING INTERVAL(8), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* WAS DIRECTIONAL 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 DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD CASING SIZE/GRADE WEIGHT, LB./FT. AMOUNT PULLED 400' <u>17-1/2"</u> 13-3/8" 54.5# 100 sx. Class None 9-5/8" 2,600' 12-1/4" 250 sx. 36# None 711 8,968 26 & 29# 1200 sx "C & None LINER RECORD TUBING RECORD PACKER SET (MD) BIZE TOP (MD) BOTTOM (MD) SACKS CEMENTS SCREEN (MD) SIZE DEPTH SET (MD) 4-1/2" 2-7/8" 10.150' 97971 8600' 200 sxs <u>None</u> 2-3/8" 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 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 <u>Flowing</u> PROD'N. FOR TEST PERIOD HOURS TESTED CHOKE BIZE O!L-BBL. GAS-MCF. WATER-BBL. GAS-OIL BATIO

40 MCF/BBI 01/16/93 10/64" 50 2000 CALCULATED 24-HOUR RATE CASING PRESSURE OIL---BBL. WATER--HBL. GAS-MCF. 2000 2720 60 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY <u>Sold</u> Jones 35. LIST OF ATTACHMENTS * Please hold in confidence 36. I hereby certify that the foregoing and attached information is con DATE _01/21/93 Engineer SIGNED . TITLE (See Instructions and Spaces for Additional Data on Reverse Side)

SUMMARY OF PO- frill-stein, tests, i ecoveries):	ROUS ZONES: (Si ncluding depth in	how all important a terval tested, cus	SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all Inil-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and ecoveries):	38. GEOI	GEOLOGIC MARKERS	
FORMATION	TOP	воттом	DESCRIPTION, CONTENTS, ETC.		TOP	ЭP
Morrow	9950'	9972	Sandstone	M N	MEAS. DEPTH	TRUE VERT. DEPTH
	0			Yates	450'	
				7 Rivers	564	
				Queen	1159'	
				Grayburg	1492'	
				San Andres	1985	
				Glorieta	3536'	
				Tubb	4760'	
	n enge			Drinkard	5524	
	. • • • · · · · · · · · · · · · · · · ·			Abo	5744	
				Wolfcamp	6474	
				Cisco	19897	
				Canyon	8440	
				Strawn	8932	
				Atoka	9490	
				Morrow	9594 '	•
	÷			Morrow Clastic	,0086 3	
				L. Morrow	9911	

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Σ.



DRILLING CO., INC. - DIL WELL DRILLING CONTRACTORS

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

505/746-2719 ARTESIA, NM

JAN 27 10 52 AM '93

CARL AREA III

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.

4001		2/10
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°
48461		2 3/4°

5033' 5096' 5158' 5222' 5283' 5346' 5464' 5555'		2 3/4° 3° 3° 3 1/4° 3 3/4° 4° 4 1/4° 4 1/4°
	-	
5587' 5650' 5719'	-	4 1/4° 4 1/4° 4 1/2°
		- · · · -

5813' 5875' 5967' 6094' 6217' 6720' 7213' 7685' 8155' 8654'		4° 4° 3 3/4° 3 3/4° 3 1/4° 3 1/2° 3° 2 1/2° 2 1/4°
	-	
	-	
	-	•
	-	
	-	•
8654'	-	2°
9003'	-	2°
9 509'	-	1/4°
9 837'	-	3/4°
10150'	-	1 3/4° TE

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 PUBLIC

}	COMPANY UNIT:	:MEWBOURNE		LEASE SECTION	:CHALK BLU	JFF FED.COM	MELL NO. TOWNSHIP:		!	Pc = 2273.2	Pc2 =	5167.4 * *
	L:	9961	Н :	9961	L/H	: 1	G/GMIX			Pt2 = 5031.9	PW =	2244.7 * ; ;
	%CO2 :		%N2 :		H2S			DATE	• 1	4810.1		2199.5 *
	ď:	2.278	Fr :	0.012892	GH	: 3456.9		RANGE	: 27			2132.7 *
:::	:::::::::		:::::::::::			:::::::::::	:::::::::::::::	::::::::	:::::::::::::::::::::::::::::::::::::::	4053.0		2055.4 *
								. =	:			*!!
	VOL 1 :			2243.2		!	RESV.TEMP	173.6		Pc2-Pw2= 128.6	Pw2 =	5033.8 *!!
	VOL 2 :			2193.2					i	327.8		4837.6 *!!
	VOL 3 :			2113.2		;	SHUT-IN PR	2273.2	•)	618.9		4548.6 *
	VOL 4 :	3294	PSIA 4 :	2013.2					i	942.6		4224.8 * ; ;
				000	. //0				i	n =	A 204	* 1 1
				PCR TC r					i	1 1	0.884	* 1
				161	. 401					 Pc2/(Pc2-Pw2) =	40 18A	*!!
	LINE :	RATE 1	<u>!</u>	RATE 2	1	RATE 3	I	RATE 4		1	15.666	*! i
	CINC !	ARIE I	i 1) :\n:5	1	; ,,,,,,,,,	1	i vuir a	1 1	1	8.350	*11
		'1ST	'2ND	! '1ST	2ND	! ! 'iSI	2ND	' ' '1ST	'2ND	!	5.482	*!
			!	, 10, !	1	1	•			1	0,,02	× 11
1	9M	0.655	0.655	1.310	1.310	2.283	2.283	3.294	3.294			* {
2		534		•		•	•			[Pc2/Pc2-Pw2]n =	26.181	*!!
3	Ts	633.6	533.6		•					1	11.386	*
4	ī	583.8		•							6.528	*!!
	PR (est)	3.36	! !			3.16		3.01			4.500	x 1
5	Z(est)	0.727	0.738		•					 		x :
6	TZ	424.5	430.8	424.6	429.5	425.2	427.7	426.5	426.0	AOF= Q	17.148	≭ 1 1
7	GH/TZ	19.924	19.629	19.918	19.691	19.391	19.774	19.829	19.852	11	14.915	* [1
8	eS	2.111	2.088	2.110	2.093	2.108	2.099	2.104	2.105	11	14.903	* ! ! ! !
7	l-e-S	0.526	0.521	0.526	0.522	0.526	0.524	0.525	0.525	1 t 1 i	14.823	x : 1
10	Pt	2243.2	-					2013.2	2013.2			*11
	Pt2 /1000											¥ 1 ±
12									0.0128924			* 1 1
	Fc=FrTZ				•				•			* [] * []
14	Foan	3.58						13.11				*
	L/H(FoGm)											* ! !
									171.83059			K ! !
					4837.6							# ! !
- 5					10123.1							x1:
19					3181.7							*!! *!!
20			2743.3			2604.9						# i !
21		4.12		4.03			3.89					* ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
22 23	T	5		1.46		1,46		1,46				
		9.753			0.733			9,730	0.730 	• •		•9
		• • • • • • • • • • •		• • • • • • • • •								

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:

SAMPLE DATA: DATE SAMPLED:

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

03-05-93

530.0

ANALYSIS DATE:

PRESSURE - PSIG

SAMPLE TEMP. °F

ATMOS. TEMP. °F

Mewebourne Oil Co.

LEASE: PLANT:

SAMPLED BY:

LIQUID () R. Jones

ANALYSIS BY:

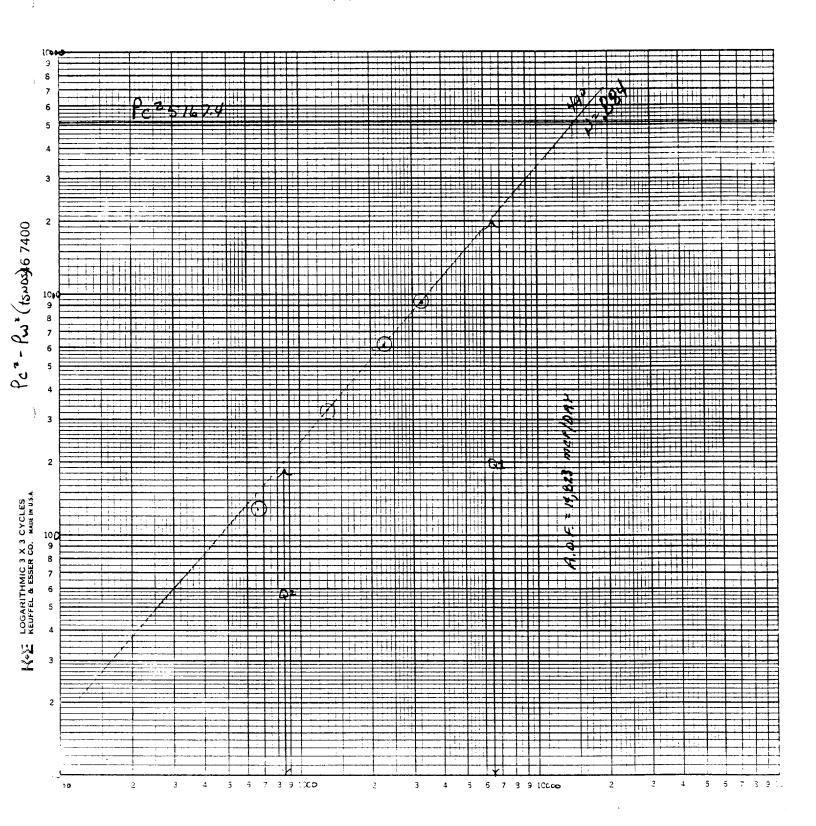
Rolland Perry

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL FERCENT	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	
t-Pentane	(IC5)	0.39	0.140	
N-Pentane	(NC5)	0.41	0.147	
Hexane	(C6)	2.81	1.214	
Heptanes Plus	(C7+)	0.00	0.000	
		100.00	4.927	
BTU/CU.FT DRY	,	1269	MOLECULAR WT.	21.1701
AT 14.650 DRY		1265		
AT 14.650 WET		1239	26# GASOLINE -	1.591
AT 15,025 DRY		1298		
AT 15.025 WET		1304		
SPECIFIC GRAVIT CALCULATE MEASURE	D	0.731		·

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



O MCF/OAT

Lag (200) 2007 = 3.81291 Lag (200) 200 (200) = 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

CIST Le

Form C-122 Revised 4-1-91

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWVOURNE OIL COMPANY Lease or Unit Name CHALK BLUFF FEDERAL COM.									
Type Test Date Well No.									
Completion Date		Annual Depth	Special Plug	Back TD	Eleva		Unit Li	Sec T	WP - Rge.
1/16/93	10	10150		10102		GL 3628'	T	1	18S 27E
Csg. Size	Wt. d	Set At	Perfo	rations:			County		200
41/2	10.5	$0.052 \mid 10$	00 0150 From	: 9950	To:	9954	T T	EDDY .	
	137.	6.4		rations:	10.		Pool		DROLL
2 3/8 &		91 Set Al 441 99	72 From	: 9957	_	0072			ORROW LINOIS
Type Well - Single				Packer Set	To:	9972	Formati		MODSTONITH
sübgke			-		9797			10RROW	
Producing Thru tbg.	Reservoir Temp.	°F Mean Annu		Baro, Press	-P _a 13.2		Conne Tra	ction ensweste	ern
I H	950 Gg	.731 % CO	.42	% N ₂ .33	% H ₂ S	Prover	Meter F	ւտ 068	Taps flg.
<u></u> .	FLOW	DATA		•	TUBIN	IG DATA	CASING		
NO. Line	Orifice	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration of
Line X Size	Size	p.s.i.g.	h _w	at.	p.s.i.g.	sk.	p.s.i.g.	°F	Flow
SI					2260		Pkr.		48 hr.
1. 3 X 1.		530	5	148	2230		17		1 hr.
2. 3 X 1.		530	19	124	2180		11		1 hr.
3. 3 X 1.		535	52	- 88	2100		19		1 hr.
4. 3 X 1.	500	540	102	70	2000		t y		1 hr.
5.		<u> </u>		<u> </u>					
			RAT Pressure	E OF FLOW C			Ta -		
NO. COEFFICTI	R) \	h _w P _m	P _m	Fact	Temp. or Ft.	Gravity Factor Fg.	Super Compres Factor, F pv.		ate of Flow Q, Mcfd
1. 11.13 2 11.13		2.12	543.2			1.170	1.043		55
		01.59 58.84	543.2			1.170	1.049	13:	
3. 11.13 4. 11.13	1	37.54	548.2			1.170	1.066	228	**
5.			553.2	.990	<i></i>	1.170	1.075	329	94
NO. P _r	Temp. º R	T _r	Z	Gas Liquid Hydr	ocarbon Ratio_	23.6			Mcf/bbl.
181	608	1.52	.919	A.P. L Gravity of			57.0		Deg.
281	584	1.46	909	Specific Gravity		.731			XXXXXX
3 82	548	1.37	880	Specific Gravity	- ((0 -		XXXXX		Mix .849
483	530	1.32	X65	Critical Pressure		01	P.S.	70	/ ₁₁
5.	L			Critical Tempera	mre			_R	R R
2273.2	P _c ² 516	57.4		_		001	_		
NO. P _t ²	P _w	P _w ²	$P_c^2 \cdot P_w^2$	$1) \qquad P_c^2$	= 5.4	821	$(2) \Gamma P_c^2$] " =	4.500
1. 5031.9		5038.8	128.6	$P_c^2 - P_c$	2		$\overline{P_c^2 - P_c}$	2	
2. 4810.1		4837.6	329.8	,			L	4	
3. 4465.6		4548.6	618.9	AOF = Q	P 2	$1^{n} = \frac{14}{1}$	4,823		
4. 4053.9		4224.8	942.6		$\frac{1}{p^2}$	2			
5.					L 'c '	<u> </u>			
Absolute Open Flow	14,823	3		Mcfd @ 15.025	Angle of S	lope 0 49		Slope, n_	.884
1.2						<u>r</u> <u></u>			
Remarks: 13.	ال معمد د	MULNSAIL	PKUDUCED	DURING T	E91	,			
tanguat Du Dinini			D		Calculated D		Check	ed Bu	
Approved By Divisi	on	ಿಂnducted T ೧೮೯	ву: VELL TEST	FRS	Calculated By:		KS	си пу.	
		· / · V	·						

THE WESTERN COMPANIE CONNECTION OF THE PICA

WATER ANALYSIS

HOBBE, NEW MEXICO LAB

ANALYSIS #: HE010251

GENERAL INFORMATION

OPERATOR: Mewbourne Oil Company

DEPTH:

WELL:

Chalk Bluff Fed #3

DATE SAMPLED:

FIELD:

DATE RECEIVED:02/24/93

SUBMITTED BY: Leonard Pounds

FORMATION: COUNTY:

Eddy

WORKED BY:

M Keith

STATE:

NM

PHONE #:

505-392-5556

SAMPLE DESCRIPTION: all water

PHYSICAL AND CHEMICAL DETERMINATIONS

1.003 € 70 °F SPECIFIC GRAVITY: OHMS @ O °F PH: 6.75

RESISTIVITY (MEASURED): 3 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) TOT. DISSOLVED SOLIDS: 2624 PPM 3474 PPM

BODIUM+POTASS: KCL

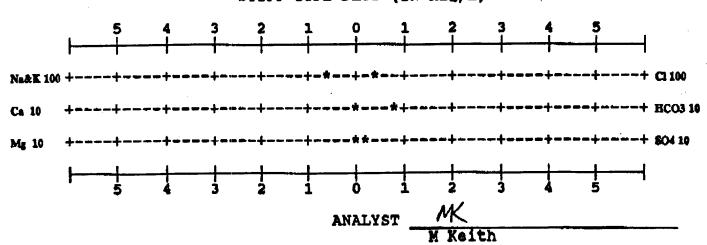
1243 PPM :no trace

OIL

:none

REMARKS:

STIFF TYPE PLOT (IN MEQ/L)



05/

Form 3160.5 (June 1990

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Drawer DD

Artesia IM Secio

FORM APPROVE:
Budget Bureau No. 1064-6131
Expires: March 31, 1993

6. If Indian, Allottee or Tribe Name

5. Lease Designation and Serial No.

NM-0557371

Water Shut-Off

Dispose Water

Conversion to Injection

SUNDRY	NOTICES	AND RE	EFORIS	ON W	FLL2		
					+	different	rocorvo

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

Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT	7. If Unit or CA, Agreement Designation	
1. Type of Well Oil Well X Well Other		8. Well Name and No.
2. Name of Operator Mewbourne Oil Company	MELEIVEÜ	Chalk Bluff Fed. Com. # 9. API Well No.
3. Address and Telephone No. P.O. Box 5270 Hobbs, New Mex	rico 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 Des 90' 1980' FSL & 1980' FEL		N. Illinois Camp Morrow 11. County or Parish, State
Sec. 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 ACT	ION
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction Non-Routine Fracturing
X Subsequent Report	Plugging Back	14001-Routine 1 factoring

(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,

Other

Casing Repair

Altering Casing

1) Formation: Morrow

2) Amount of water produced 10 BW/mo.

3) Water analysis attached

Final Abandonment Notice

4) Water is stored on lease in fiberglass tank

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

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

4. I hereby certify that the foregoing is true and correct Signed That Thereby	Title _	Production Engineer	Date	March 4, 1993
(This space for Federal or State office use) Approved by (ORIG. SGD.) DAVID R. GLASS	Title _	PETROLEUM ENGINEE R	Date	4/22/93
Conditions of approval, if any: SEE ATTACHED				

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

0	COMPANY UNIT:	:MEWBOURNE		LEASE SECTION		JFF FEO.CO	MWELL NS. TOWNSHIP			Pc = 2273.2	Pc2 =	5167.4 *
	UNII:		н :		. I/H	: 1	G/GMIX			Pt2 = 5031.9	ρ _{₩ =}	2244.7 *;;
	%CO2 :		%N2 :		H2S		•,	DATE		4810.1		2199.5 *
	d :			:0.012892		: 845ć.9		RANGE				2132.7 *
::::		:::::::::::	::::::::::		::::::::					4053.0		2055.4 *
										11		*11
	VOL 1 :	655	PSIA 1	: 2243.2			RESV.TEMP	173.6		Pc2-Pw2= 128.6	Pw2 =	5038.8 * ; ;
	VOL 2			: 2193.2						11 329.8		4837.6 *
	VOL 3:		PSIA 3	: 2113.2		!	SHUT-IN PR	2273.2		618.9		4548.6 *
	VOL 4 :			: 2013.2						1 942.6		4224.8 * ; ;
	,,,,									! ! ! !		*!!
				PCR	: 668					n =	0.884	*!!
				TCR						1 1 1 1		*!!
										Pc2/(Pc2-Pw2) =	40.184	*
	LINE	RATE 1	1	RATE 2	t •	RATE 3	1	RATE 4	1		15.666	* 1 1
		! !	!	! !	!	t !	† †	! !	!	1	8.350	*11
		'1ST	'2ND	'1ST	1 '2ND	'ist	'2ND	'1ST	1 '2ND	• •	5.482	*!!
	·	! !	 	 	! !	i !	 	1	. i	1 1		*!!
1	MQ	0.655	0.655	1.310	1.310							* 1 1
2	TW	534	534	534	534					[Pc2/Pc2-Pw2]n =		*!!
3	Ts	633.6	633.6									**1
4	T	583.8	583.8								6.528	* [i
!	PR (est)	3.36	1	1				3.01		ł	4.500	*11
5	I(est)	0.727	0.738	0.727		•						*!!
6	TZ	424.5	430.8			•		•				*11
7	GH/T <i>I</i>	19.924	19.629			•	-				14.915	*!!
8	eS	2.111	2.088	•			•	•			14.903	*11
9	l-e-S	0.526	0.521				•				14.823	* ! !
10	Pt	2243.2	•									*[]
11	Pt2 /1000	5031.9	5031.9	4810.1	4810.1							*11
12					0.012892	0.012892			0.0128924	1 t		*!!
	Fo=FrTZ	,	•	•								*!!
14	FcQm	3.58										*!!
15	L/H(FcQm)	12.8							•			*!!
16	FW	6.761363	6.896568	27.05758	27.47157	82.32401	82.97298	172.0865	171.83059	11		***
17	₽w2	5038.7	5038.8	4837.2	4837.6	4547.9	4548.6	4225.1	4224.8	11		*!!
18	Ps2		10519.8									*!!
19	Ps	3261.4	•	•								*!!
20	P	2752.3			*	•		*				*!! *!!
21	Pr -	4.12	-			-						*!! *!!
22	Tr	1.46									מפא מפחי	*!! !!*
23	I	0.738	0.738	0.736	0.735	0.733	0.732	0.730	0.730		ORM C122-	
:::	:::::::::	========		::::::::::						::-:::::::::::::::::::::::::::::::::		:::::::::::::::::::::::::::::::::::::::

Laboratory Services

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

REMARKS:

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:

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

530.0

03-05-93

SAMPLED BY: R. Jones ANALYSIS BY: Rolland Perry

LIQUID ()

ANALYSIS DATE: PRESSURE - PSIG

SAMPLE TEMP. °F

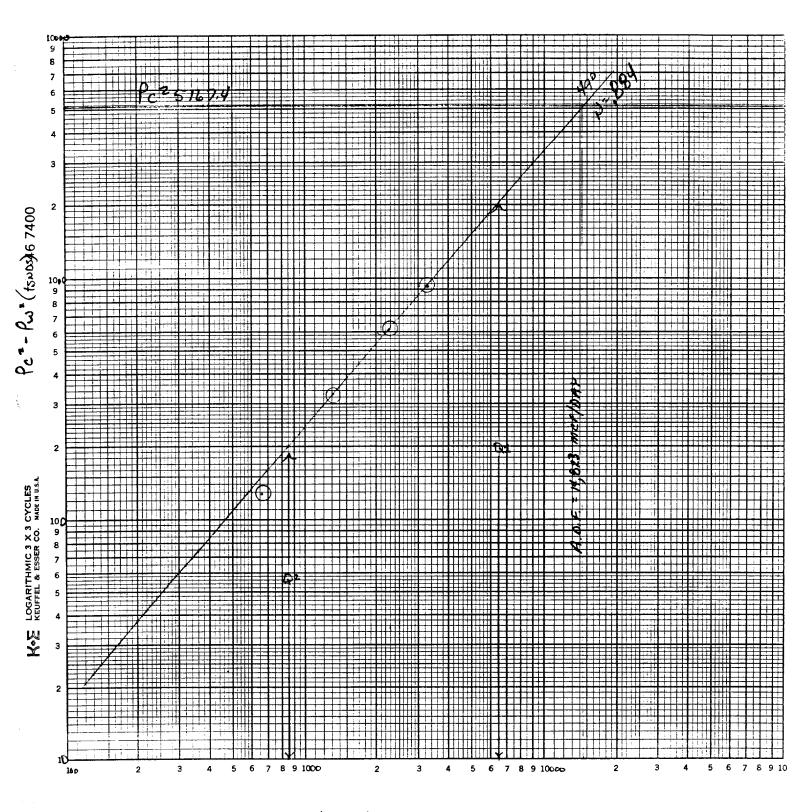
ATMOS. TEMP. °F

COMPONENT ANALYSIS

MA

		MOL		
COMPONENT		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 DRY	,	1269	MOLECULAR WT.	21.1701
AT 14.650 DRY		1265		
AT 14.650 WET		1239	26# GASOLINE -	1.591
AT 15.025 DRY		1298		
AT 15.025 WET		1304		
SPECIFIC GRAVIT	Y –			
CALCULATED		0.731		
MEASURE				

MEWBOURNE OIL COMPANT
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

5lope N=,88349 = .884

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

State of New Mexico Energy, Minerals and Natural Resources Depc

RECEIVED

Form C-122 Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

4 PR (1 6 1993

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Opera	Operator MEWOURNE OIL COMPANY									or Unit Name CHALK BL	UFF FI	EDERAL	COM.		
Type	Test X Initial		Ar	nual		Special				Test Da	1te /4/93		Well No	3	
Comp	letion Date		Total De		1	Ple	ıg Back			Elevation			Unit Ltr.	- Sec 1	TWP - Rge.
Csg. S	/16/93 Size	Wt.	d	<u>.0150</u>	Set At		101 rforation			<u> </u>	L_3628'		County		18S 27E
4½		10.	5 4	052	36 10	00 150 Fr	om:	9950		То:	9954		H.	DDY	
	^{2ze} 718	¥ ¹ .7			Set At		rforation			10.	777 4		Pool		ADDOLI
2 3	/8 &	6.5	& 1.9 2.4		99	72		9957		To:	9972		N _I		ORROW LLINOIS Cap
Type	Well - Single	- Braden	head - G.G	6. or G.C). Multi	ple	om:	Packer Set	At		7712		Formatio	on	LETNOTS CAP
sub	Well - Single gke			5 1 5 4		175 05		D D	979	7			Connec	ORROW	
Produ	cing Thru	Reservoi 13	Temp. *1	Mea	50 a	al Temp. ºF		Baro, Pres		3.2			Tra	nswest	
995	О Н	950	Gg .	731	% CO.	.42	% N	² .33	% H	₂ S	Prover		Meter Ri 3.0	^{un} 68	Taps flg.
			FLOW D						T	UBING	DATA	C	ASING I	DATA	Duration
NO.	Prover Line X	Orif	ice	Pres	- 1	Diff.		Temp.	Pres	1	Temp.	Pres	i i	Temp.	of
	Size	Siz	e	p.s.i	.g.	h _w		e.E	p.s.i.		•F	p.s.i		°F	Flow
SI	3 X 1.	500		530		5	+	148	226 223			Pkr	-		48 hr. 1 hr.
1. 2.	$\frac{3 \times 1}{3 \times 1}$			530		19		124	218			11	-		1 hr.
3.	3 X 1			535		52	1	88	210			11			1 hr.
4.	3 X 1			540	$\overline{}$	102		70	200			11			1 hr.
5.									1						
						Pressi		F FLOW C	CALCUL. Temp.	1	S ravity Factor	T 6	C	В	ate of Flow
NO.	COEFFICE (24 HOU			h _w P _m	-	P _m		Fac	tor Ft.		Fg.	Fact	Compress. or, F pv.		Q, Mcfd
1.	$\frac{11.13}{11.13}$.12	-	543.		.92		-	$\frac{1.170}{1.170}$)43	65	
2. 3.	11.13			3.84		543. 548.		.94		+	1.170	_)49)66	131	
4.	11.13			•54		553.		.99	·····		1.170)75	329	
5.		-													
NO.	P _r	Tem	p. º R	T _r		Z	- 1	Liquid Hydi			23.	63 57 . 0			Mcf/bbl.
1.	.81	60		1.5		.919	. !	L Gravity o ific Gravity	•	-	.731	57.0	-	T X X X	Deg.
2.	.81	58		1.4		.909	· -	ific Gravity	-			XXXX	X		Mix .849
3.	.82	54		1.3		.880		cal Pressure	- /	68			P.S.I.	A. 66	64 P.S.I.A.
<u>4.</u> 5.	.83	53	<u> </u>	1.3	2	.865	Criti	cal Tempera	ture	401	<u> </u>			R 42	+1
P _c 2	273.2	P _c ²	5167	7.4						E 1.01	21		- 2		<i>l.</i> 500
NO.	P _t ²		P _w	P _w 2	2	$P_c^2 - P_w^2$	1)			5.482	<u> </u>	⁽²⁾ [_	P _c ²	_】	4.500
1.	5031.9	4	44.7	5038		128.6		$\overline{P_c^2 - P_c}$	2 w			L	$P_c^2 - P_w^2$		
2.	4810.	21	99.5	4837	'.6	329.8]			- 1	1,	4 823 -		-	
3.	4465.0			4548		618.9	- A(OF = Q	[]	P _c *	-] = <u>1</u>	4,023			
4.	4053.9	9 20	55.4	4224	1.8	942.6	\dashv		P _c ²	- P _w ²	J				
5.	ute Open Flov	. 1	4,823		<u></u> I		Mefd	@ 15.025	Angle	e of Slon	× θ 49		S	Slope, n	.884
Absol				IDEMC	ATTE	DDODITO									
Rema	rks:13	.5 BB	LO CON	NDENS	ALL	PRODUCE	<u>חת</u> היי	KTMG I	<u> </u>						
									· · · · · · · · · · · · · · · · · · ·						
Appro	oved By Divis	ion			ducted :		י מינויףי	,	Calculate VC	d By:			Checked KS	Ву:	
•				1	KU W	ELL TES	TEKS)	KS				1/2		

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
834	Designation and Serial No.
	NM 0557371

SUNDRY NOTICES AND REPORTS ON WELLS
 for proposals to drill or to deepen or reently to a different reservoil

6. If Indian, Allottee or Tribe Name

Dispose Water

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

Do not use this form for proposals to drill on the second	PERMIT-" for such proposals		
SUBMIT IN	7. If Unit or CA, Agreement Designation		
1. Type of Well Oil Gas Well Well Other 2. Name of Operator	8. Well Name and No. Chalk Bluff Fed. Comm. #3		
Mewbourne Oil Company 3. Address and Telephone No.	9. API Well No. 30-015-27163		
P. O. Box 5270, Hobbs, NM 88241 505-393-4. Location of Well (Footage, Sec., T., R., M., or Survey Description	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow		
1980' FSL & 990' FEL of Section 1, T18S, R27	11. County or Parish, State		
		Eddy	
12. CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPORT, C	OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION		
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction	
Subsequent Report	Plugging Back Casing Repair	Non-Routine FracturingWater Shut-Off	
Final Ahandanment Notice	Altering Casing	Conversion to Injection	

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

Altering Casing

Add Morrow perforations 9860' to 9870'.

Final Abandonment Notice



at the foregoing is true and correct 14. I hereby certify 04/15/99 District Manager Signed (This space

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

30-015-27163

Oxford®

⊗ ESSELTE

MADE IN U.S.A.

NO. R753 1/3

1-21-93

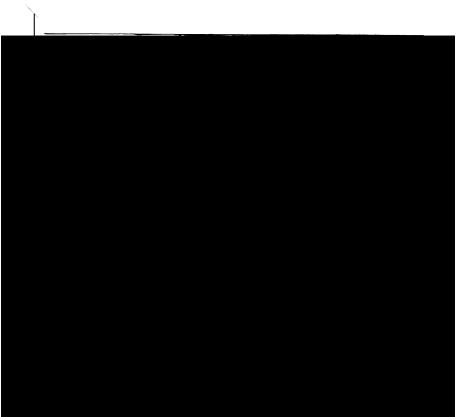
Sactral Dimoity Dual Spaced Tentron

6365'-8467' 400'-10:100' Comp. Sonic Log. 6365'-8467'

Dual renduction Lateralay

Dual fat.
1351-81671
8958: 10,143'
MSH Hamma Collar
Col foo.
1340'-10069'
NSL-R-9760

R-9760 SD + NSL 11-4-92





NAVAJO REFINING COMPANY Map ID No. ろう Artificial Penetration Review

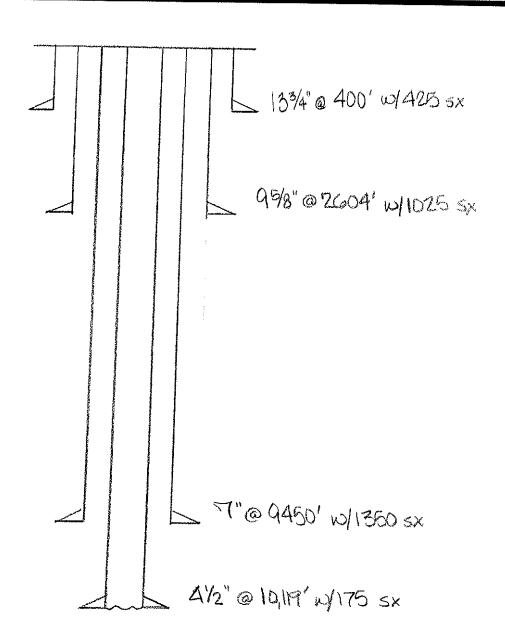
OPERATOR Navajo Refi LEASE WDW WELL NUMBER 3 DRILLED 12-22-90 PLUGGED NA	LOCATION Sec. 6 -T18S-R27E MUD FILLED BOREHOLE NA TOP OF INJECTION ZONE 7319' API NO. 30-015- 26575
REMARKS: Calc. Top of C	ement benind 7"@ 384' 133/4"@ 400' w/425 sx 95/8"@ 2604' w/1025 sx
	- 7"@9450' ω/1350 sx - 41/2"@ 10,119'ω/175 sx



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

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

REMARKS:



MAP ID NO. 96

NAVAJO REFINING COMPANY WASTE DISPOSAL WELL NO. 3

API NO. 30-015-26575

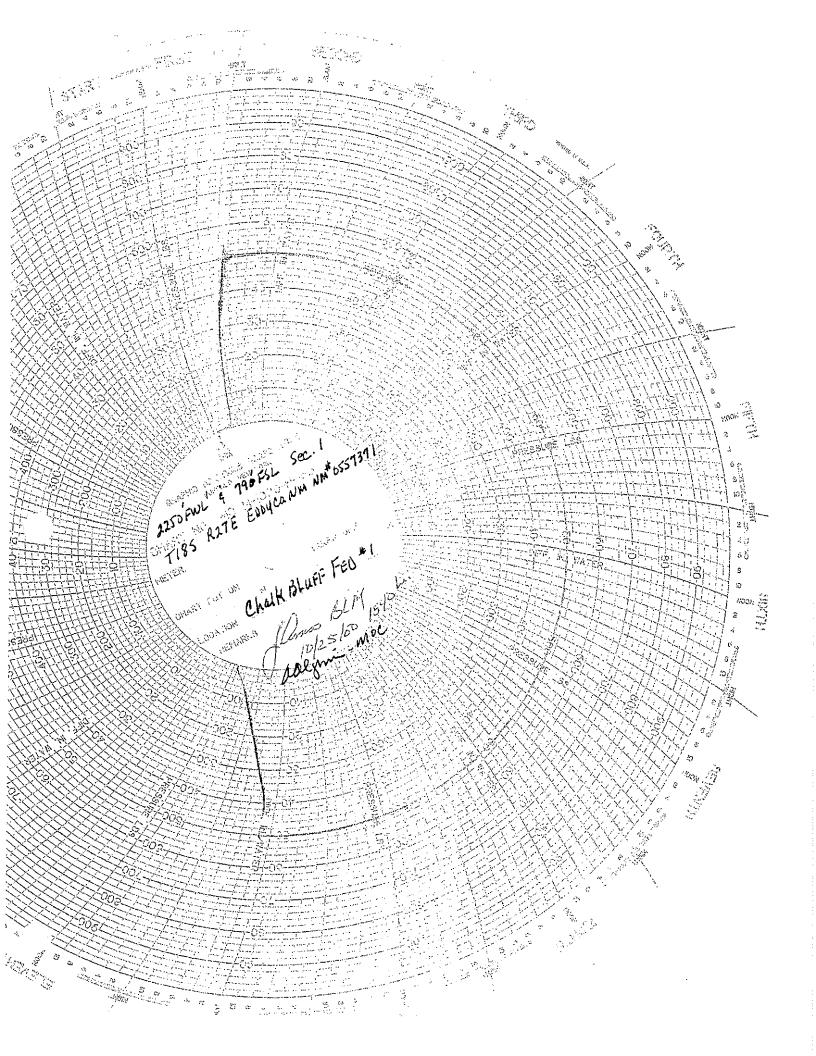
Form 3160-5 (June 1990)

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

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

Artesia, NM 88210-2834tion and Serial No.

SUMPRY NOTICE	CEC AND DEDODES ON MELLO	NM-0557371
Do not use this form for proposals to	CES AND REPORTS ON WELLS o drill or to deepen or reentry to a different r N FOR PERMIT-" for such proposals	6. If Indian, Allottee or Tribe Name
	MIT IN TRIPLICATE	7. If Unit or CA, Agreement Designatio
I. Type of Well		
Oil Gas Well Well X Other		8. Well Name and No.
Name of Operator		Chalk Bluff Federal Comm #1
Mewbourne Oil Com(any Address and Telephone No.		9, API Well No.
PO Box 5270, Hobbs, NM 505-393-590:	5	30-015-26575
Location of Well (Footage, Sec., T., R., M., or Surve		10. Field and Pool, or Exploratory Area
790' FSL & 2250' FWL, Sec.1 T-18S R-2		N. Illinois Camp Morrow 11. County or Parish, State
		Eddy, NM
CHECK APPROPRIATE BO	X(s) TO INDICATE NATURE OF NOTICE, RE	
TYPE OF SUBMISSION	TYPE OF	ACTION
Notice of Intent	Abandonment	Change of Plans
r,	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
F-3	Casing Repair	☐ Water Shut-Off
	Altering Casing	Conversion to Injection
Final Abandonment Notice		_
E_J Pinal Abandonment Notice	X Other MIT	Dispose Water
Describe Proposed or Completed Operations (Clear directionally drilled, give subsurface locations and rather above caption well was successfully in the above caption well was successfully in the successfully in the successfully in the successfully in the successfully in the successful in the su	X Other MIT arily state all pertinet details, and give pertinent dates, including estime assured and true vertical depths for all markders and zones pertinent dates. MIT'ed on 10/25/2000. (500 psi for 30 min.)	(hole: Report results of multiple completion on West Completion or Recompletion Report and Log form.)
i. Describe Proposed or Completed Operations (Clea directionally drilled, give subsurface locations and r	ariy state all pertinet details, and give pertinent dates, including estineasured and true vertical depths for all markders and zones pertiment on 10/25/2000. (500 psi for 30 min.)	(Note: Report results of multiple completion on West Completion or Recompletion Report and Log form.) Imated date of starting any proposed work. If well is nent to this work.)*
Describe Proposed or Completed Operations (Clear directionally drilled, give subsurface locations and r The above caption well was successfully in The pressure chart is enclosed.	ariy state all pertinet details, and give pertinent dates, including esti measured and true vertical depths for all markders and zones perti	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) Imated date of starting any proposed work. If well is nent to this work.)*
I. Describe Proposed or Completed Operations (Clear directionally drilled, give subsurface locations and rough the above caption well was successfully in the pressure chart is enclosed. If any question, please call. I hereby certify that the foregoing is true and correct great the property of the pressure of the pre	ariy state all pertinet details, and give pertinent dates, including estimeasured and true vertical depths for all markders and zones pertinent dates. MIT'ed on 10/25/2000. (500 psi for 30 min.) ACCEPTED FOR RECONSTITUTE SUMMERS AND ALL STATES	(Note: Report results of multiple completion on West Completion or Recompletion Report and Log form.) Imated date of starting any proposed work. If well is nent to this work.)* RD OCD - ARTESIA Date 11/01/00
Describe Proposed or Completed Operations (Clear directionally drilled, give subsurface locations and rather above caption well was successfully if the pressure chart is enclosed. If any question, please call. I hereby certify that the foregoing is true and correct gred	arily state all perfinet details, and give perfinent dates, including estimeasured and true vertical depths for all markders and zones perfil MIT'ed on 10/25/2000. (500 psi for 30 min.) ACCEPTED FOR RECO NOV 1 5 2000 3 BLM	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) mated date of starting any proposed work. If well is nent to this work.)* RD OCD - ARTESIA Date 11/01/00



RECEIVED

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

1991 US NUL;

FORM APPROVED Budget Bureau No. 1004-0135

BUREAU OF	LAND MANAGEMENT	Expires: March 31, 1993
	U. C. U.	5. Lease Designation and Serial No. NM=0557371
SUNDRY NOTICES	AND REPORTS ON WELLS ARTESIA, OFFICE	6. If Indian, Allottee or Tribe Name
Uo not use this form for proposals to divide "APPLICATION FO	rill or to deepen or reentry to a different reservoir OR PERMIT—" for such proposals	- The Paint
SUBMIT	TIN TRIPLICATE / "LGC///A"	7. If Unit or CA, Agreement Designation
1. Type of Weil	MAY 24 1997	\
Other Other Name of Operator		8. Well Name and No.
Mewbourne Oil Company	CONST 6 N	CHALK BLUFF FED. COM #1
3. Address and Telephone No.	1.0.	9. API Well No. 30-015-26575
P. O. Box 7698, Tyler, Te	xas 75711	10. Field and Pool, or Exploratory Area
4. Lucation of Well (Footage, Sec., T., R., M., or Survey D		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, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonnient	
[Recompletion	Change of Plans New Construction
X Subsequent Report	Plugging Back	Non-Routine Practuring
Final Abandonment Notice	Cosing Repair	Water Shut-Off
	Altering Costing X Other Fracture Treat	Conversion to Injection
_		L. Dispose Water (Note: Report results of multiple completion on Well)
13. Describe Proposed or Completed Operations (Clearly state algive subsurface locations and measured and true months.)	l Il pertinent details, and give pertinent dates, including estimated date of starti cal depths for all markers and zones pertinent to this work.)*	Completion or Recompletion Report and Log form) ing any proposed work, If well is directionally drilled
STORY OF THE STORY	at depins for all markers and zones pertinent to this work.)*	annou,
4/24/91 - Western fracture	e treated Morrow Sand perfs 993	36-461, 99641671
down tubing with	n 10.000 gals 73 downhole slurr	'v quality Ringry '
westtoam carryii	ng 16,000# 20/40 mesh ACFRAC R1	ack Westman-3
10 100% with 120	th 545 gals CO ₂ /N ₂ 2% KCL water	Screened out at
in tubing. Pum	00 gals of 3# stage in formation ped 116 sxs Proppant into formation	on and 545 gals flush
Sacks th Castill	and ly sacks in funing (SDD)	8300# E mima 7600#
±0 m±us /200#	15 mins 6800#. Avg 10.0 BPM at	8200#. Job complete
10:20 AM.		
		ACCEPTED TO
		ACCEPTED FOR RECORD
	•	JUN 1 4 1991
		% ्डच्ड
- $($ $)$ $)$		CARLSBAD, NEW MEXICO
4. I hereby certify that the foregoing is arth and correct		, out many
Signed Melylone Many	Title Engr. Oprns. Secretary	5/21/91
(This space for Federal or State office use)		
Approved by Conditions of approvat, 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.

NM OIL CONS COMMISSION Drawer DD Artesia, NM APROVED UNITED STATES Form 3160-5 Budget Bureau No. 1004-0135 (June 1990) DEPARTMENT OF THE INTERIOR Expires: March 31, 1993 BUREAU OF LAND MANAGEMENT 5. Lease Designation and Serial No. NM-0557371 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE FER 2 1 1994 1. Type of Well Oil Gas Well Well 8. Well Name and No. Chalk Bluff Fed. Com. #1 2. Name of Operator 9. API Well No. Mewbourne Oil Company 30-015-26575 3. Address and Telephone No. 10. Field and Pool, or Exploratory Area (505) 393-5905 P.O. Box 5270 Hobbs, New Mexico 88241 N. Illinois Camp 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State 2250' FWL & 790' FSL Sec. 1-T18S-R27E Eddy Co., N.M. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF ACTION TYPE OF SUBMISSION Notice of Intent Ahandonment Change of Plans Recompletion **New Construction** Subsequent Report Plugging Back Non-Routine Practuring Casing Repair Water Shit-Off Final Abandonment Notice Altering Cosing Other Shut-In-Status Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) . Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Mewbourne Oil Company here by requests temporarily abandon status pending further evaluation of the lease for the above well. The well was spudded 12/22/90. APPROVED FOR <u>12</u> MONTH PERIOD ENDING _ Tide Petroleum Engineer

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

PETROLEUM ENGINEE

(This space for Federal or State office

Approved b(ORIG SCD.) JOE Q. LAN

14. I hereby certify that the foregoing is true and correct Signed	troleum Engineer	Date 10/05/93
(This space for Federal or State office(use) Approved by Title Conditions of approval, if any:	ACCEPTED FOR RECORD	Date
	10V 5 1993	
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to or representations as to any matter within its jurisdiction.	nake to any department or agency of the United States an	y false, fictitious or fraudulent statements

п 3160-5 : 1990)

onditions of approval, if any:

UNITED STATES

FORM APPROVED Budget Bureau No. 1004-0135

; 1990)		NT OF THE INTERIOR	Expires: March 31, 1993
	BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No.
	SUNDRY NOTICES	AND REPORTS ON WELLS	NM-0557371
Do not use this		rill or to deepen or reentry to a different reservoir.	6. If Indian, Allottee or Tribe Name
		R PERMIT—" for such proposals	
		- HOLEWED	7. If Unit or CA, Agreement Designation
	SUBMI	IN TRIPLICATE	7. It out of the reposition business
i. Type of Well		007 L 9 1993	-
Oil X G	as Other	C. C. D	8. Well Name and No.
2. Name of Operator	/		Chalk Bluff Fed. Com. #
Mewbourne	Oil Company		9. API Well No.
3. Address and Telephor	ne No.		30-015-26575
P.O. Box	<u>5270 Hobbs, New Me</u>	exico 88241 (505) 393-5905	10. Field and Pool, or Exploratory Area
4. Location of Well (Fo	otage, Sec., T., R., M., or Survey L	escription)	N. Illinois Camp
00501 500	4 7001 FOL 6 6	1 7100 0075	11. County or Parish, State
2250' FWL	& 790* FSL of Sec.	1-118S-RZ/E	511. C- N.M
0150	V 400000014TE DOV	\ 70 \\0\0\175 \\175 \\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\	Eddy Co., N.M.
12. CHECI	K APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE, REPO	RI, OR OTHER DATA
TYPE O	F SUBMISSION	TYPE OF ACTION	
X Notic	e of Intent	Abandonment	Change of Plans
		X Recompletion	New Construction
Subse	equent Report	Plugging Back	Non-Routine Fracturing
_		Casing Repair	Water Shut-Off
☐ Final	Abandonment Notice	Altering Casing	Conversion to Injection
		Other	Dispose Water
			(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
 Describe Proposed or 0 give subsurface to 	Completed Operations (Clearly state all ocations and measured and true vertice	l perfinent details, and give pertinent dates, including estimated date of starting and depths for all markers and zones pertinent to this work.)*	3 any proposed work. If well is directionally drilled,
J		,	
09/08/93	Abandon Morrow Pe	rfs 9861' - 9967'	
	- Set CIBP @ 9800)' - cover w/35' cement.	
	- Recomplete in (isco Formation - Test & evaluate.	
	If unacomomical	recomplete in Wolfcamp - Test & eval	ua to
	- It unecomonited	recomplete in worldamp - lest a eval	Aco Co
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			ECEIVED OF COLUMN SHIPS
•			8 2 26
			** &
A I hambu carife the	e foregoing in true and correct?		
4. I hereby certify that the	true and correct	Petroleum Engineer	09/07/93
Signed		Title	Date
(This space for Federal	l or Sighte diffice use) NG. SGD.) JOE G. L.	• 10 8	1 6 -
pproved by (C)N	ag. 2007 ine a f	Tide PETROLEUM ENGINEEN	Date 10/15/93

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

Title _

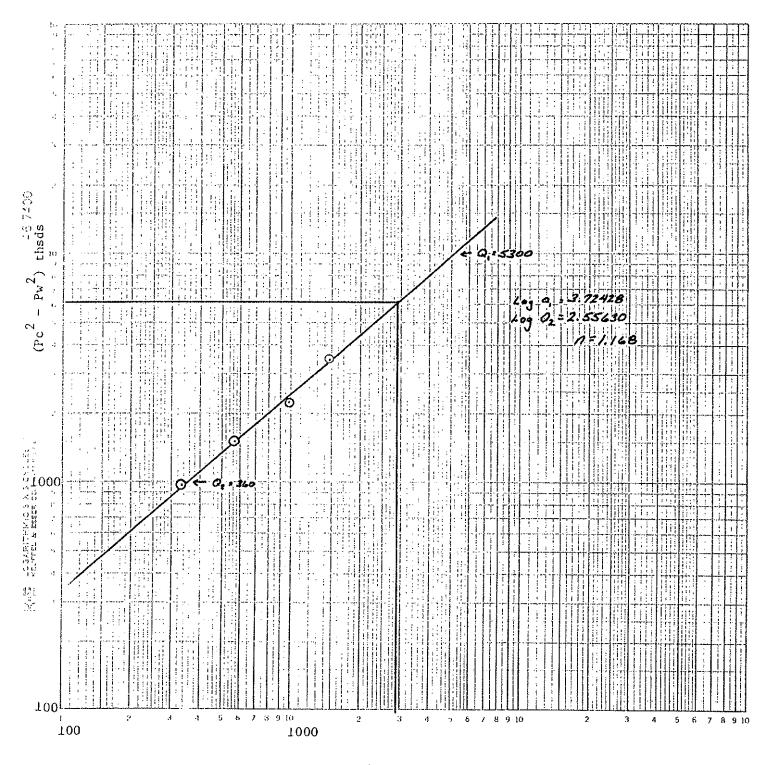
経じとNVED Corn: 3160-5 UNITED STATES FORM APPROVED inc 1990) Budget Bureau No. 1004-0135 SEP 2 8 1992 DEPARTMENT OF THE INTERIOR Expires: March 31, 1993 BUREAU OF LAND MANAGEMENT 5. Lesse Designation and Serial No. NM-0557371 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allonce or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well Oil Well Other 8. Well Name and No. 2. Name of Operator Chalk Bluff Fed.Com.#1 Mewbourne Oil Company 9. API Well No. 3. Address and Telephone No. 30-015-26575 P. O. Box 7698, Tyler, Texas 75711 (903) 561-2900 10. Field and Pool, or Exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) N.Illinois Camp-Mor.-Gas 11. County or Parish, State 2250' FWL & 790' FSL Sec. 1, T18S-R27E Eddy CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion New Construction Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection Other . Additional perfs Dispose Water acidize & frac (Note: Report results of multiple completion on Well 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled. give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* 8/13/92 - Perf Middle Morrow 9861-9882', 2 SPF, 10' Net, 22 holes. 8/14/92 - Acidized w/3500 gals 7½% HCL + additives + 1000 SCF/bbl nitrogen carrying 80 ball sealers. Flushed w/2% KCL wtr + 1000 SCF/bbl nitrogen. ISDP 4300#, 5 mins 3800#, 10 mins 3400#, 15 mins 2800#. Avg rate 3.7 BPM, AP 5000#, MP 5600#. Blew well down to pit 8/15 - 8/18/92. 8/19/92 - MI swab unit. Pressure tested the to 2000 . Held OK. Removed tree. RU BOP. RU swab. Swabbed well down to 5300'. 8/20/92 - Swabbed down to 6500'. POOH w/tbg & pkr. TIH w/new pkr assembly & 200 jts tbg. Tested the to 8000#. 8/21/92 - Continued testing the Set pkr @ 9740.68 w/15 pts compression. Press annulus to 2000f. Held OK. Started swabbing. Had light blow of gas. 8/22/92 - RU Western Co. Acidized perfs w/1500 gals 7½% HCL acid + additives + 1000 scf/bbl nitrogen + 35 ball sealers. Flushed w/2% KCL wtr. ISDP 400#. 5 min 3700#, 10 min 3700#, 15 min 3600#. ATP 5100#, MTP 5400#. RD Western. Opened well to pit on 12/64" choke. No show of gas or oil. Recovering load.

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

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

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

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Q MCF/D

AOF = 2.9 MMCF/D

Laboratory Services

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Mewbourne Oil Co.

Attention: Mr, Greg Milner

P. O. Box 5270

Hobbs, New Mexico 88241

SAMPLE

Chalk Bluff

IDENTIFICATION: Federal #1

COMPANY:

Mewbourne Oil Co.

LEASE: PLANT:

SAMPLE DATA: DATE SAMPLED:

ANALYSIS DATE: 03-18-91

PRESSURE - PSIG SAMPLE TEMP. °F

460.00 51.00

03-15-91

GAS (XX) SAMPLED BY: LIQUID ()

ANALYSIS BY:

Gregory Milner Rolland Perry

ATMOS. TEMP. °F

REMARKS:

COMPONENT ANALYSIS

		MOL		
COMPONENT		PERCENT	GPM	
Oxygen	(02)			
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.42		
Carbon Dioxide	(CO2)	0.43		
Methane	(C1)	87.54		
Ethane	(C2)	7.07	1.886	
Propane	(C3)	2.38	0.654	
I-Butane	(IC4)	0.31	0.100	
N-Butane	(NC4)	0.54	0.169	
I-Pentane	(IC5)	0.20	0.071	
N-Pentane	(NC5)	0.14	0.052	
Hexane	(C6)	0.97	0.399	
Heptanes Plus	(C7+)	0.00	0.000	
		100.00	3.331	
BTU/CU.FT DRY	,	1156	MOLECULAR WT	10 8086
AT 14,650 DRY		1153	MOLECULAR WI	19.0972
AT 14.650 WET		1133	26# GASOLINE -	
AT 15,025 DRY		1182	20# GASOLINE -	0.578
AT 15.025 WET		1162		
717 10.000		1102		
SPECIFIC GRAVITY	<i>'</i> _			
CALCULATED)	0.660		
MEASURED)	0.000		

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

Form C-122F Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (Pf or TE)

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

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

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

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

Form C-1228 Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE 🐚 or Ps)

8-81-5 % H₂S. 42 Range % N2-·660 % CO2 ·43 8 - WELL NO. -Township LEASE Chelk Bluth 1.00 G LCH Section 61.56 COMPANY . Mew bearne I LOCATION: Unit 6466

GH 6566 Par 673 Ter 374

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

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

COMPANY:

PRO WIRELINE

CLIENT:

MEWBOURNE DIL

GAUGE NUMBER:

12235

WELL NAME:

CHALK BLUFF

WELL NUMBER:

1

TEST NUMBER:

1

LOCATION:

TEST OPERATOR:

BURRELL

COMMENTS:

4 POINT FLOW TEST RAN AFTER 72 HOUR BUILD UP

FOSITION

GAUGE SERIAL NUMBER

1

2

3

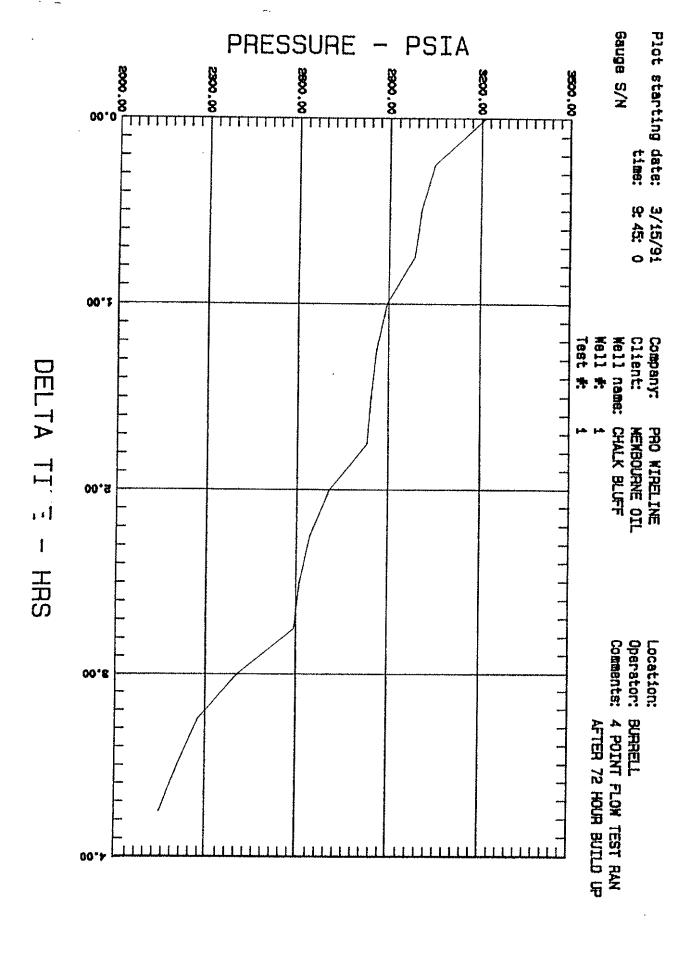
4

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
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11:30: 0	1.7500	2831.00	CT.	007 DATE -
11:45: 0	2.0000	2707.00	516	ART RATE 3
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: 0	2.7500	2593.00	/m mm /	15.00 m
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13:15: 0	3.5000	2210.00		
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Form 3160-4 (November 1983) (formarly 9-330)

UNITED STATES COMMESSION IN DUPLICATE.

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

	DE			MD GRANAGEI MD GRANAGEI	MENINERIOR		ietions a erse side		GNATION AND SERIAL NO.
WELL C	OMPLE	TION	OR RECO	MPLETION	REPORT A	ND LC	G *	G. IV INDIAN,	ALLOTTER OR TRUB NAME
1a. TYPE OF W	ELL:	OH. WELL	GAS WELL	X DHY	Other			7. UNIT AGREE	MENT HAME
b. TYPE OF C		-			_	Tre	Hr.		
WELL X		DEED EN	- П РЕГЕ ВЛОК	DIFF. E	Other	John Street	FD	S. PARM OR LE	
2. NAME OF OPE		_			121	120		ł	Bluff Federal Com
Mewbour		Comp	any V		-6H/	JUL 2 3	1992	0. well No.	
P. O. B	ox 769	8, Ty	ler, Te	xas 75711	L V	O. C.	D.	10. FIELD AND	POOL, OR WILDCAT
					any State requirem	idite)eta e	بالإدات	N. Illi	nois Camp Morrow
At surface	2250'	FWL	& 790' I	FSL				11. HEC., T., H., OR AREA	M., OR BLOCK AND BURYEY
At top prod.		orted belo	W					Sec. 1-	-T18SR27
At total depti	• Sam	e		4 44	Va.			_	
				14. PERMIT	80-015-2 65	TE ISSUED		12. COUNTY OR PARISH	13. STATE
15. DATE SPUNE	1 1ft DAT	g To ata	CHED 17 DAS	AFI #5	y to prod.) 18. E	/3		Eddy	N.M.
12/22/9	0 1/	29/91	3/0	07/91	1			F	19. ELEY, CASINGHEAD
20. TOTAL DEPTH. N					I KES CLITTER COMPL., MANY*	3625,	GM 3	ILOTARY TOOS,N	CABLE TOOLS
10,120'		10	,079	now	*YMAK	1916.1	HARD BY	X	1
24. PRODUCING INT. 9936-46					(MD AND TVD)*			F	25. WAS DIRECTIONAL SURVEY MADE
26. TYPE ELECTRIC)W					Yes
SDL-DSN								21	7. WAS WELL CORED
28.	, , ,	301 117		INC OPCOUNTE	tepart all strings se	A. C			No
CASING SIZE	WZIGI	17, 18./FT			Hole Size	~~~	MENTING	RECORD	
13-3/8"	54	.50#	4	100' 17	-1/2"	425			AMOUNT PULLED
9-5/8"	36	‡	26	04 12	-1/4"	1025			None None
7"	26	& 2	9# 94		-3/4"	1350			None None

29.	7		NER RECORD	· · · · · · · · · · · · · · · · · · ·		30.		TUBING RECOR	l)
512E	40T (M		OTTOM (MD)	SACKS CEMENTS	SCREEN (MD)	8121		DEPTH BET (MD)	PACKER SET (MD)
4-1/2"	905]	<u> </u>	10119'	175		2_3	/8"	9805	9805
31. PERFORATION R	Ecogy (Inte	rval. sizc	and number)	!	1	<u> </u>			
9936-46			,				4	TURE, CEMENT S	
13', 2 S	PF To	tal 2	28		9936-67			TOURT AND KIND	
	•				3330-07	<u></u>	3000 hh1	M2 + 50 b=	101 acid + 1000 S
							17/35	hhle 28 18	ll sealers. Flush Lwater + 1000
							SCF/	bbl N2.	TI- Marcel A TOOO
R3.* PATE FIRST PRODUC				PRO	ODUCTION				
AIR FIRST PRODUC	TION .	PRODUCT	ION METHOD (F		pumping—size and	type of pun	πp)	WELL ST	TUR (Producing del)
ATE OF TEST	HOURS T	CATED	CHOKE BIZE	Flowing			····		Producing
3/11/91	24 hrs		8/64"	TEST PERIOD	01L	94831	CF,	WATER—BEL,	CEDIF BYEIG
LOW, TUBING PRESS.	CANING P		CALCULATED	011,881,,	GAS-MCF	886	WATER~	0	L GRAVITY-API (COCK.)
1600#		i	24-HOUR RATE	i l	886	1		· ·	58 6 5
4. DISPOSITION OF	OAS (Sold, u	eed for fue	l, vented, etc.)		1 000	<u>L</u>	······	O PERT WITHBARE	
'Sold								W. Har Clay	
S. LIST OF ATTACE	EMENTS.						******	ALLEP	ED FOR RECORD
Logs 6. I bereby teruit	that the	ng galong A	ng attached in	formation is com	plete and correct a	s determin	d from	All as tight	\$DS
(X/re	do	Hh	me					all available recor	PR 1991
SIGNED LUC	guns	1/11	rymu	TITLE _	Engr. Oprns	 Secre 	tary	DATE_	3/18/91

90	ciuaing depth in	iterval tested, cu	including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and	38.	GEOLOGIC MARKERS	•
FORKATION	TOP	Воттом	DESCRIPTION, CONTENTS, ETC.			
Lower Mor	\$936	12966	Sandstone	NAME	MEAS, DEPTH	TRUE
Middle Morbow	1986	* L'886	Sandstone	Yates	424"	
-				Queen	1138	
				Grayburg	1484	
				San Andres	19761	
			·	Glorietta	34581	
-				Tubb	4451	
				Drinkard	53761	
				Abo	5794	
`.				Wolfcamp		:· ,
				Cisco	19994	
. •				Canyon	8368	1! .
·	-			Strawn	8844	, . f
				Morrow	9454	
				Morrow Clastids	9770	
				Barnett	10016	
		•				
			-			

		····			***************************************	
			•	MII		



DRILLING CO., INC. - DIL WELL DRILLING CONTRACTORS

505/623-5070 ROSWELL, NM

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

February 05, 1991

Mewbourne Oil Company, Inc.

P.O. Box 5270

Hobbs, N.M. 88241

REF: Chalk Bluff Fed Comm #1

Gentlemen:

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

1.671.1 1 1.11.0	44
40/4' - 1 1/4"	6559' - 2 1/2°
5120! - 1 1/2°	6650' - 2 1/4°
5639' - 1 1/4°	7146' - 1 3/4°
6077' - 3 1/2°	7672' - 3/4°
6126! - 3 3/4°	78001 - 3/40
6189' - 3 3/4°	8291' - 10
6250' - 3 3/4°	8815' - 1°
63 12' - 3 1/2°	9313' 3/4°
6374' 3 1/4°	9808' - 1 1/4°
6467' - 2 3/4°	10,120' 3/4° TD
	5639' - 1 1/4° 6077' - 3 1/2° 6126' - 3 3/4° 6189' - 3 3/4° 6250' - 3 3/4° 6312' - 3 1/2° 6374' - 3 1/4°

Sincerely.

Arnold Newkirk Vice-President

STATE OF NEW MEXICO)

COUNTY OF CHAVES

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

MY COMMISSION EXPIRES

October 07,1992

NOTARY PUBLIC

Checked By:

Bill Pierce

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED Text Date Type Test | Special Annual [03/15/91 X Initial 7 45 / 91 Comection IAY 5 ReCentury Company Transwestern Mewbourne Oil Company Unit CA ` :: E Formation MAY - 7 1991 Undesignated AREA: 8.3 Morrow North Illinois Camp Morrow OrvauD. Form or Lease Name Plug Bock TD Total Depth Completion Date ARTESIA, OFFICE Chalk Bluff Federal 10.075 03/05/91 Well No. Performionas Sal At C+4. 5179211 99671 From 10,120' 11.6# R. Int Sec. Twp. Perforationer Set At 27E From **188** 9,805 Open. End 2 7/8" 6.5 Packer Eat At County Type Well - Single - Bradenhead - G.G. or G.O. Multiple Eddy 9805 Single Cas Baro, Pross. - Pa State Mean Annual Temp. *F Reservoir Temp. *F Froducing Thru 13.2 New Mexico 148 10,120 Tbg. Provet Meter Run Tape % H25 % CO 2 % N 2 Ca 1. 3.0689949 9949 .660 CASING DATA TUBING DATA Duration FLOW DATA oí Temp. Temp. Diff. Press. Prass. Temp. Orifica Prover Flow g. s. l.q. NO. Line p.u.l.g. p.s.i.g. h., Sire Size 72 Hr 2380 SI 1 Hr. Pkr 51 2175426.8 ١. 3 X 1.125 4 1_Hr Pkr 11 51 2070 2. x 1.125 446.8 l Hr. Pler 32 1900 446.8 51 3 $\times 1.125$ Pkr 1 Hr 1605426.8 72 45 3×1.125 4. RATE OF FLOW CALCULATIONS Gravity Super Flow Temp. Rate of Flow Preseure Coefficient Compress. Factor Factor ∕հա₽ա Q. McId Factor, Fpv Fq NO. (24 Hour) Ft. 337 1,225 1.048 1.009 41.952 440 6.217 1 71.134 1.009 1.225 1.051574 460 6.217 2. 980 460 1,009 1.051121.326 6,217 3 1446 1.0511.015 440 177,989 6.217 5 Dry Gas Mct/bbi. Gas Liquid Hydrocarbon fimio. Z Temp. *A Ŧŗ NO. n, " Deg. A.P.I. Gravity of Liquid Hydrocorbons 660 ***** Specific Gravity Separator Gas... 1.37 91065 511 ١ XXXXX 1.37 906 Specific Gravity Flowing Fluid_ 511 .68 2. P.S.I.A _ P.S.I.A .68 906 Critical Pressure ... 511 1.37 3. 374 Critical Temperature 4. 5051.35 905 65 5 6110.72472 P.,2 P P. 2 NO 5125 985.72264 1501.7 2147 4609 2 1966 3865 2245.7 3 2686 3424.7 1639 4 5 41° Slopa, n. 1.168 2.844 Angle of Slope & McId # 15,025 Absolute Open Flow Well made O bbl fluid during test

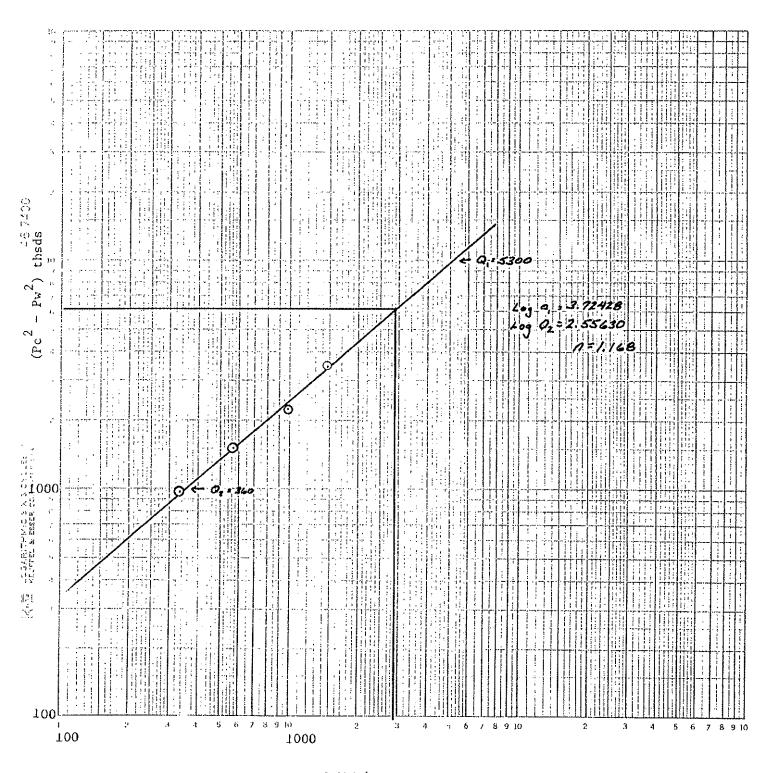
Culculated By:

Greg Milner...

Conducted By:

Greg Milner

Approved by Distaton



Laboratory Services

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Mewbourne Oil Co.

Attention: Mr, Greg Milner

P. O. Box 5270

Hobbs, New Mexico 88241

SAMPLE

Chalk Bluff

IDENTIFICATION: Federal #1

COMPANY:

Mewbourne Oil Co.

LEASE: PLANT:

SAMPLE DATA: DATE SAMPLED:

ANALYSIS DATE:

03-15-91 03-18-91

PRESSURE - PSIG 460.00

SAMPLE TEMP. °F ATMOS. TEMP. °F

51.00

GAS (XX)

LIQUID ()

SAMPLED BY:

Gregory Milner

ANALYSIS BY:

Rolland Perry

REMARKS:

COMPONENT ANALYSIS

UO.

		MOL		
COMPONENT		PERCENT	GPM	
Oxygen	(02)			
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.42		
Carbon Dioxide	(CO2)	0.43		
Methane	(C1)	87.54		
Ethane	(C2)	7.07	1.885	
Propane	(C3)	2,38	0.654	
I-Butane	(IC4)	0.31	0.100	
N-Butane	(NC4)	0.54	0.169	
i-Pentane	(IC5)	0.20	0.071	
N-Pentane	(NC5)	0.14	0.052	
Hexane	(C6)	0.97	0.399	
Heptanes Plus	(C7+)	0.00	0.000	
		100.00	3,331	
BTU/CU.FT DRY	•	1156	MOLEOU AD ME	
AT 14.650 DRY		1156	MOLECULAR WT	19.0972
		1153	20 5 5	
		1133	26# GASOLINE -	0.578
		1182		
AT 15.025 WET		1162		
SPECIFIC GRAVITY	<i>,</i>			
CALCULATED		0.650		
MEASURED		0.000		

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

Form C-122F Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (Pf or五)

E 3-18-91		% H ₂ S	
DATE	27.E	- 1	
	Range	% N2	1
WELL NO	185	00 G 1660 % CO2 143 % N2 142	CT 374
	Township	660	or 673 Tor
LEASE Chalk Bluff Ford	/	1.000 G	<u>ط</u>
- LEASE	_ Section	L/H 1.00	9959 HD
Mewdowns Dil	Unit	6766 H 6465	
⊼ Yn A G Y	CATION: Unit	65	

三. 三.		•	2	61	4	5	ဖ	7	89
-	Tw(W.H. •R)	255	532						
23	T _S (B.H. °H)	209	809						
e	$T=(\frac{T_W+T_S}{2})$	570	570						
4	Z (Est.)	008'	062.						
٠	7.2	0.75%	450.4						
9	GH/TZ	14.399	14.578						
7	e ^S (Table XIV)	1.716	1.727						
83	Pfor霉	3249	3249						
6	P _t ² or 愛	10556	10556						
10	$P_c^2 = P_t^2/e^{s}$ or $+\frac{1}{2}$	6151.7	6151.7 6110.6						
=	Pcor要	2480.3	2472.0	رم				·	
12	$P_{\text{H}}(\frac{P_{\text{W}} + P_{\text{S}}}{2}) \text{ or } (\frac{P_{\text{C}} + P_{\text{I}}}{2})$	2864.6	2860.5						
55	$P_{\rm r} = (P/P_{ct})$	4.26	4.25						
4	$T_{\Gamma} = (T/T_{CI})$	1,52	1,52						
5	Z (Table XI)	062.	.790						

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

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

Form C-122! Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE 👣 or Ps.)

-DATE 3-18-91 - % H₂S -% N2 · 32 -Range 8 1.00 G 1660 %CO2 143 - WELL NO. -__ Township ___ PCT 673 - LEASE CHOIN BLUTH. Section | L'H | 64.66 COMPANY . Mew bourne] = LOCATION: Unit _ 6466

L N H			2	m	4	5	9	7	8
_	Tw(W.H. •R)	5.32	532	532	532	532	532	532	532
2	T _s (B.H. •R)	209	809	209	809	608	809	603	809
е	$T=(\frac{Tw+Ts}{2})$	570	270	220	570	220	220	570	570
4	Z (Est.)	,835	, 783	. 783	186.	.781	. 780	082.	.792
s	1.2	476.0	446.5	146.5	445.1	445.2	444.8	444.6	451.7
9	GH/TZ	13.7%	H01.H1	14.712	14.753	14.749	14.761	14.768	14.537
7	e ^S (Table XIV)	867:1	1.736	1.736	1.739	1.739	1.739	0461	1.725
8	城 or P _S	2983	2983	2831	283)	2593	2593	2152	2752
on.	ESOV PS2	88983	8898.3	8014.6	80146	6723.6	6723.6	4631.1	4631.1
ဋ	$R_{\phi} = P_{1}^{2}/e^{s} \text{ or } P_{w}^{2} = P_{s}^{2}/e^{s}$	5304.3	5/26.6	4616.2	4609.0	3867.2	3885.5	2661.7	2684.9
=	数 ot P _w	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
E2	$P_{\rm r} = (P/P_{\rm Cr})$	3.93	3.90	3.70	3.70	3.39	5.39	2.81	2.82
4.	$\Upsilon_r = (T/T_{cr})$	1.52	1.52	1.52	1.52	75"	1.52	1.52	1,52
15	Z (Table XI)	. 783	.783	181	182'	082.	.780	.792	.792

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

COMPANY:

PRO WIRELINE

CLIENT:

MEWBOURNE OIL

GAUGE NUMBER:

12235

WELL NAME:

CHALK BLUFF

WELL NUMBER:

-1

TEST NUMBER:

1

LOCATION:

TEST OPERATOR:

BURRELL

COMMENTS:

4 POINT FLOW TEST RAN AFTER 72 HOUR BUILD UP

FOSITION

GAUGE SERIAL NUMBER

1

2

3

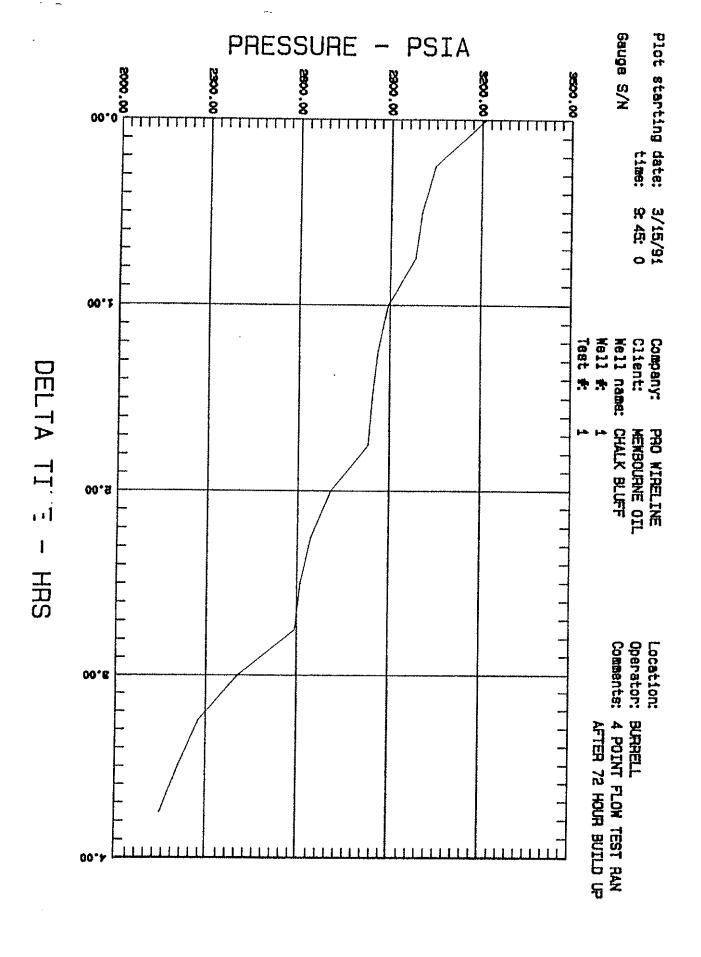
4

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
9:45: 0	0.0000	3213.00		TART RATE 1
10: O: O	0.2500	3046.00	a l	(HIK) KHIC I
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00	c n	FART RATE 2
10:45: 0	1.0000	2894.00		IDEL RAIL Z
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00	CT	ART RATE 3
11:45: 0	2.0000	2707.00	51	OKT KHIE 3
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: 0	2.7500	2593.00	QT	ART RATE 4
12:45: 0	3.0000	2405.00	a i	HKI KHIE 4
13: 0: 0	3.2500	2276.00		
13:15: O	3.5000	2210.00		
13:30: 0	3.7500	2152.00	EN	D OF TEST



RECEIVED

Corm 3160-5

UNITED STATES

FORM APPROVED

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

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

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

UNITED STATES COMMESSION IN DUPLICATE.

DEPARTMENT OF WITHE INTERIOR

(Sec other instructions on reverse side)

Porm ap	proved.	
Budget	Bureau No.	10040137
	August 31,	

٠.	LEARE	DESIGNATION		
	3.73.6	AEE7271		

	BU	JREAU OF LA	AND SKAPAC	PEMENT2]	10	rever	'se side)	NM-05		71	٠.
WELL CO	OMPLETION	OR RECO	OMPLETIC	ON REPO	ORT AI	ND LO	G*	Ğ. 1F INDIAN	, ALLOTY	THE OR TRESS NAM	ř.
b. TYPE OF CO	WE MPLETION:	H.L GAS		Other		1111	\	7. I'NIT AGRI	EKNENT	MAND	
WEST,	WORK DE	EP- PLUG BACK	DIFF.	. 🔲 Other			h	S. FARM OR	S.EASE N	AMB	
2. NAME OF OPER	ATOR		·	~ - · ····	115	Afresse	u	Chalk	Bluf	f Federal (iom)
	ne Oil Com	npany 🗸			all	111 9.3	1992	O. WELL NO.			-
3. ADDRESS OF O		_			$''D_{\mu \cdot \gamma}$	OL 13 O	1006	1			
P. O. Bo	ox 7698, T	'yler, Te	xas /5/	11	·	<u>0, C, [</u>		10. PIELD AN			
At Burface	2250' FWI			atu unh stati	e requirema	iragas Ai	· ·			S Camp Morn	
At top prod. 1	nterval reported be	_						OH AREA			•
At total depth	Same							Sec. 1	LT188	S-R27	
			14. PERM			ISSUED		12. COUNTY	л	13. STATE	
				#30-01		'5	,	Eddv		N.M.	
5. DATE SPUBDED	h h	REACHED 17, DA		eady to prod.) 18. EL	CVATRONS (U	F, RKB, HT,	GB, RTC.)*	19. 21.	EV. CASINGHEAD	~
12/22/90			07/91		KB :	3625',	GM 360	91			_
0. TOTAL DEPTH, MI 10,120		0, back t.d., md .0,079*	A TVD 22. 1	TOW MANA.	COMPL.,	ן 23. ואדו	ERVALS LED BY	HOTARY TODI	1.35	CABLE TOOLS	-
	ERVAL(B), OF THIS		DP, BOTTOM, NA	ME (MD AND	TVD)*		- >-		25.	WAS DIRECTIONAL	-
9936-46	, 9964-67	' - Morr	OW							Yes	
. TYPE ELECTRIC	AND OTHER LOGH	MI [†] N		······································				1	27. WAS	WELL CORRD	-
SDL-DSN,	DLL-MSFL	, DILL								No	,
·		CA:	SING RECORF	(Report all	atringe set	in well)		<u> </u>	······		4
CABING BIZE	WEIGHT, LB./		ET (MD)	HOLE SIZE		CEM	ENTING RE	CORD	I	AMOUNT PULLED	
13-3/8"	54.50#			17-1/2			· Circ			None	-
9-5/8"	36#			12-1/4'		1025 -				None	
	26# &	29# 9	450'	8-3/4'	<u>'</u>	1350 -	· Circ	!		None	-
).	1 ,	LINER RECORI)			30.	re:	BING RECO	RD.	<u></u>	•
8172	TOP (MD)	BOTTOM (MD)	SACKS CEME	NT SCRE	EN (MD)	SIZK	DE	TH BET (MI	3) P	ACKER AST (MD)	•
4-1/2"	9051'	10119'	175			_2=3/	<u>'8"</u>	98051		9805	-
. PERFORATION RE	CORD (Interval, si	ze and number)	· }	32.	A	CID. SHOT.	FRACTUR	E, CEMENT	COLLER	WAY WAS	-
	, 9964-67			DEP	TH INTERVA			NT AND KINE			-
13', 2 S	PF, Total	28		993	6-67'					acid + 100	^ c
							bbl N2	+ 50 b	all s	ealers. Flu	y s nek
							w/35 b	bls 2%	KĈL, W	ater + 100) D
					<u> </u>		SCF/bb		11.	<i>N</i> .	-
TE FIRST PRODUCT	rion PRODE	CTION METHOD (PRODUCTIO			-1		. '	C3 (3)	
•	-		Flow		*****	gpt of pain	ν,	werr	-á#1)	Producing or	
TE OF TRST	HOURS TESTED	CHOKE BIZE	PROD'N. F	GR UIL	-BBL.	GAS-MC	<u>. </u>	VATER—BBL.		oducingri	
3/11/91	24 hrs	8/64"	TEST PER		l	886	- 1	0 "	· ·	86:1 m	
W. TUBING PRESS.	CABING PRESSUR	CALCULATED 24-HOUR BAT	OU88L.	· · · · · · · · · · · · · · · · · · ·	GASMCF.	•	WATER			TTY-API (COSE.)	
1600#		_	1 1		886		0	[5]	58 2	<u>a</u>	
o diaposition of o Sold	AB (Sold, used for	fuel, vented, etc.)					EST WITHBAS	IED BY		
LIST OF ATTACH	MENTA	······································					W	110	17/247	CAR DECAR	7
Logs /		/ 3						ACCE	ricu	FOR RECOR	
SIGNED LO	that the foregoing	mm attached i	CTITLE					1 1	APR 1	1991	
-/-//	+/0	Januaria						DATE		8/91	اي
U	(266	Instructions a	na spaces h	er Additio	nai Vata	on Keven	ie Side)	ICARLS	SRAD,	NEW MEXIC	U

ower Morita 9936 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9967 ¹				
IT BOOK	9967	DESCRIPTION, CONTENTS, ETC.			
33 NOT NOT NOT NOT NOT NOT NOT NOT NOT NOT	1 [886]	Sandstone	NAME	MEAS, DEPTH	TRUE VERT. DEPTH
		Sandstone	Yates	424"	
- · · · ·		· ·	Queen	1138	
			Grayburg	1484	
			San Andres	19261	
-			Glorietta	34581	
-			Tubb	4451	
			Drinkard	.5376"	
			Abo		
			Wolfcamp	6420	÷1.
		***************************************	Cisco	. 7666	,
•			Canyon	8368	ij.
-			Strawn	8844*	. 6
-			Morrow	94541	
· .			Morrow Clastids	97701	
			Barnett	100161	
		-			
					
		-		Htm-tn-sa-v	
					
				-	
		-			
		•			

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

State of New Mexico Energy, Minerals and Natural Resources Department

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

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

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



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Form 3160-5

	CONS COMMISSION FORMATPROVED
d	Burleet Michie No. 1004-0135
Arte	1.2. Expires: March 31, 1993
W. A.	I & Face Distinguish and Cont. Ma

UNITED STATES PARTMENT OF THE INTERIOR	Drawer DD FORVAMONED Drawer Rightenside No. 1004-0135 Expire: March 31, 1993
EAU OF LAND MANAGEMENT	Arts 12. Ease Designation and Serial No.
	NM-0557371
OTICES AND REPORTS ON WELLS	6. If Indian, Allome or Tribe Name
sals to drill or to deepen or reentry to a different rese	rvoir.

June 1990)		IT OF THE INTERIOR LAND MANAGEMENT	1	Lease Designation and Serial No.
Do not use	this form for proposals to dr	AND REPORTS ON WELLS ill or to deepen or reentry to a different rese R PERMIT—" for such proposals	6.	VM 055737] If Indian, Allogoe or Tribe Name
	SUBMIT	IN TRIPLICATE	7.	If Unit or CA, Agreement Designation
1. Type of Well Oil Well 2. Name of Open	Gas Other			Well Name and No. Chalk Bluff Fed. Comm. #1
Mewbour 3. Address and T	ne Oil Company elephone No.	ico 88241 (505) 393-5905		API Well No. 30-015-26575 Field and Pool, or Exploratory Area
4. Location of W 2250 F	x 5270 Hobbs, New Mexell (Footage, Sec., T., R., M., or Survey D WL & 790' FSL T18S-R27E		11.	N. Illinois Camp Morrow County or Parish, State Eddy Co., N.M.
12. CH	HECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, F	REPORT,	OR OTHER DATA
T	PE OF SUBMISSION	TYPE OF AC	CTION	
	Notice of Intent Subsequent Report	Abandonment Recompletion Plugging Back Casing Repair	ָ [Change of Plans New Construction Non-Routine Fracturing Water Shat-Off
E	Final Abandonment Notice	Altering Casing Other	[[Conversion to Injection Dispose Water Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
give subsi	erface locations and measured and true verte	I pertinent details, and give pertinent dates, including estimated date of all markers and zones pertinent to this work.jo	of starting any p	proposed work. If well is directionally drilled,
with p - Spot 1 - Spot 1 - Cut of - Spot 8	3 sx. (50') cement plug plug mud. 17 sx. (100') cement p 17 sx. (100') cement p 15 and remove wellhead 13 sx. (50') surface plus 11 cup and dry hole ma	lug @ 450'. .g. cker.		
- Clean	location.	RECEN	AED	
		AUG 18	1995	7 F. W. W. W. W. W. W. W. W. W. W. W. W. W.
		OIL CON DIST	1. DIV . 2	7. WE WED
<i>/.</i>	that the terpsoined time and correct	Engineer		Detr 5/25/95
Acoms of the	r Federal or State office use) Chit Signed by Shannon J. Shaw approval, if any	PETROLEUM ENGINEER Tide		Date 8/14/95

Fig. 18 U.S.C. Section 1915, miles it a stormer many person for a high and willfully in mile to any impartment on aparts of the United States any falls, fictificula on fraudulent statements. The person for an 19 and the military willing to the United States any falls, fictificula on fraudulent statements.

OCD - Artesin

Form 3160-5 (June 1990)

3305

Signed

(This space for Fe

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

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

eral or State office use)

. FED STATES DEPARTMENT OF THE INTERIOR FORM APPROVED

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

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

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

N.M. Young

Title

District Manager

Company Company

10/06/00

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

N.M. C., Cons. Division

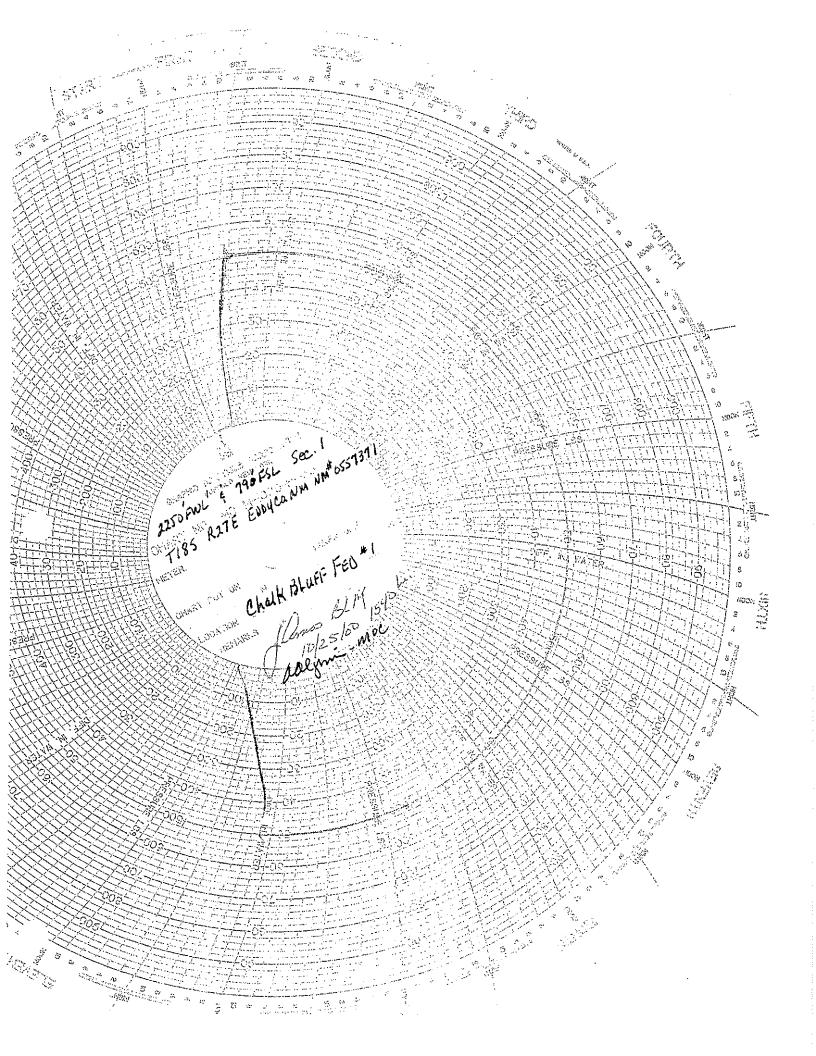
811 S. 1st Street

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

Artesia, NM 88210-2834(ion and Serial No.

	SUMPRY NOTICES A	MD DEDORTO ON MELLO	NM-0557371
Do not	t use this form for proposals to drill	AND REPORTS ON WELLS or to deepen or reentry to a different reserve R PERMIT-" for such proposals	6. If Indian, Allottee or Tribe Name DÍF.
4 **		N TRIPLICATE	7. If Unit or CA, Agreement Designation
	on well Oil Gas Well ☑ Well ※ Other		8. Well Name and No.
2. Name	of Operator		Chalk Bluff Federal Comm #1
3. Addres	ooume Oil Com[any as and Telephone No.		9. API Well No. 30-015-26575
	ox 5270, Hobbs, NM 505-393-5905		10. Field and Pool, or Exploratory Area
4. Locatio	on of Well (Footage, Sec., T., R., M., or Survey Descr	iption)	N. Illinois Camp Morrow
790' F	FSL & 2250' FWL, Sec.1 T-18S R-27E		11. County or Parish, State
12.	CHECK APPROPRIATE ROY(s)	TO INDICATE NATURE OF NOTICE, REPORT	Eddy, NM
	TYPE OF SUBMISSION	TYPE OF ACTIO	
den delener i con mar in mercaria		—	
	Notice of Intent	Abandonment	Change of Plans
	Subsequent Report :	Recompletion	New Construction
	Se adpardent trabat	Plugging Back	Non-Routine Fracturing
	Final Abandonment Notice	Casing Repeir	Water Shut-Off
	(22) Chiarrasandoninone Honos	Aftering Casing	Conversion to Injection
		✓ out MIT	
diecu	containy of the supsurface locations and measure	e all pertinet details, and give pertinent dates, including estimated details and true vertical depths for all markders and zones pertinent to the	Dispose Water (Note: Report results of multiple completion on West Completion or Recompletion Report and Log form.) ate of starting any proposed work, if well is his work.)*
The a	ibe Proposed or Completed Operations (Clearly state tonally drilled, give subsurface locations and measure above caption well was successfully MIT'ed pressure chart is enclosed. question, please call.	e all pertinet details, and give pertinent dates, including estimated ded and true vertical depths for all markders and zones pertinent to t	(Note: Report results of multiple completion on West Completion or Recompletion Report and Log form.) ate of starting any proposed work, if well is nis work.)*
The a	above caption well was successfully MiT'ed pressure chart is enclosed.	e all pertinet details, and give pertinent dates, including estimated ded and true vertical depths for all markders and zones pertinent to t	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
The a The p If any If any 4. I hereb Signed (This space	above caption well was successfully MiT'ed pressure chart is enclosed.	e all pertinet details, and give pertinent dates, including estimated data and true vertical depths for all markders and zones pertinent to the second of th	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) ate of starting any proposed work. If well is his work.)* RECEIVED OCD - ARTISIA

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



UNITED STATES

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

NM OIL CONS COMMISSION

Drawer DD

Form 3100-5 (June 1990)		IT OF THE INTERIOR	Budget Bureau No. 1004-0135 Expires: March 31, 1993	
	BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No.	
Do not use	this form for proposals to dr	AND REPORTS ON WELLS ill or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	NM-0557371 6. If Indian, Allottee or Tribe Name	
	SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation	
I. Type of Well Oil Well	Gas Other	FER 2 1 1994	8. Well Name and No.	
2. Name of Opera			Chalk Bluff Fed. Com.	#1
	rne Oil Company		9. API Well No. 30-015-26575	
3. Address and Te P.O. Bo 4. Location of We	OX 5270 Hobbs, New Me off (Footage, Sec., T., R., M., or Survey D	exico 88241 (505) 393-5905	10. Field and Pool, or Exploratory Area N. Illinois Camp	
	FWL & 790' FSL -T18S-R27E		11. County or Parish, State Eddy Co., N.M.	
12. CH	IECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TY	PE OF SUBMISSION	TYPE OF ACTION		
	Notice of Intent	Abandonment Recompletion	Change of Plans New Construction	
	Subsequent Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off	
	Final Abandonment Notice	Altering Casing Other Shut-In-Status	Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
Describe Propo- give subsu	sed or Completed Operations (Clearly state a urface locations and measured and true vertice	ll pertinent details, and give pertinent dates, including estimated date of starting sal depths for all markers and zones pertinent to this work.)*		
Mewbo	urne Oil Company here	by requests temporarily abandon statu	s pending further	
evalu	ation of the lease for	the above well. The well was spudde	d 12/22/90.	
··			200 Single 1970 Si	
	•	APPROVED FOR 12 MONTH PER	C". ⊌∭	
•		ENDING 1/25/95		

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

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

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

درني ساکس

Formals03 ENED UNITED STATES	4:74 ULL ():	-23. COMMISSION AS
	Drawer Di	σ
Formal BOS UNITED STATES	Artosia	NE 28 TPAM APPROVED
June 1990) DEPARTMENT OF THE INTERIOR		Budget Bureau No. 1004-0135 Expires: March 31, 1993
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WEL		5. Lease Designation and Serial No.
12 11 22 211		NM-0557371
		6. If Indian, Allottee or Tribe Name
Do not use this form for proposals to drill or to deepen or reentry to Use "APPLICATION FOR PERMIT—" for such prop	o a different reservoir. Josals	
SUBMIT IN TRIPLICATE	MEXELLE	7. If Unit or CA, Agreement Designation
1. Type of Well	NOV 1 7 1953	
Oil Gas Well Other		8. Well Name and No.
2. Name of Operator	O. C. D.	Chalk Bluff Fed. Comm. #
Mewbourne Oil Company /		
 Address and Telephone No. P.O. Box 5270 Hobbs, New Mexico 88241 (505) 39 	13_5005	30-015-26575 10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	3-3300	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	E OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent Abandonment	**************************************	Change of Plans
X Recompletion		New Construction
X Subsequent Report Plugging Back		Non-Routine Fracturing
Casing Repair		Water Shut-Off
Final Abandonment Notice Aftering Casing	g	Conversion to Injection
Other		Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates give subsurface locations and measured and true vertical depths for all markers and zones pertinent.)	 including estimated date of starting a nent to this work.)* 	any proposed work. If well is directionally drilled,
* Verbal from Adam Salameh		•
9/10/93 Abandon Morrow formation. Set CIBP @ 9800'	& cover w/351 cem	ent.
9/11/93 Perforate Cisco from 7826'-7830'. Test & e	valuate.	
9/12/93 Squeeze Cisco from 7826'-7830' w/600 sx. Cl	ass "C".	
9/15/93 Drill out squeeze perfs. to 7792'. Squeeze		
9/16/93 Perforate Cisco from 7676'-7678'. Test and	evaluate.	
9/17/93 Abandon Cisco formation, set CIBP @ 7600' &	cover w/35' cemen	t.
9/18/93 Perforate Wolfcamp 7304'-7314'. Test & eva		
9/19/93 Acidize Wolfcamp w/1500 gal. 15% NE-FE from	:/304'-/314'.	03 4
9/21/93 Set CIBP @ 7294' & perforate Wolfcamp from		& evaluate.
9/22/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from 9/23/93 Set CIBP @ 7208' & perforate Wolfcamp from	7050'-7102' Test	& evaluate.
9/24/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from	7050'-7102'.	a cyandate.
9/25/93 Set CIBP @ 7010'.		
3) 20) 20 Car saar 1		
14. I hereby certify that the foregoing is true and correct Potroloum	Fnginess	10/05/02
Signed Noutle for Tide Petroleum	Engineer	Date 10/05/93
Signed Nount Petroleum (This space for Federal or State office(ptc)		Date 10/05/93
Signed No Letter Title Petroleum (This space for Federal or State office(pte) Acces	PTED FOR RECORD	Date 10/05/93
Signed Nouth Title Petroleum (This space for Federal or State office(use)		

*See Instruction(全国企業的主任)

Mewbourne Oil Company Chulk Bluff Faloral #1 2250 FWL1740' FSL Sec. 1-1186-R27E 7050 EJBPQ 7008' CIBPQ 7394' 2 730 Y CIBPR 7600 W/35 coment 7676 2 7648' 7 830' Squeeze w/600 Sx. Test to 2000" CIBPR 9800' W/35' Cement 9861 4" @ 10119'

C. 14, 75 July 1, 140.

3160-5

UNITED STATES

FORM APPROVED Budget Bureau No. 1004-0135

	PARTMENT OF THE INTERIOR EAU OF LAND MANAGEMENT	Expires: March 31, 1993 5. Lease Designation and Serial No.
SUNDRY N Do not use this form for propos	NOTICES AND REPORTS ON WELLS usals to drill or to deepen or reentry to a different rese	NM-0557371 6. If Indian, Allottee or Tribe Name
Use "APPLICA	SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Gas Gas Other 2. Name of Operator Mewbourne 0il Company Mewbourne No. P. 0. Box 5270 Hobbs, 4. Location of Well (Footage, Sec., T., R., M., COECAL Fills & 7004 FCL	New Mexico 88241 (505) 393-5905 , or Survey Description)	8. Well Name and No. Chalk Bluff Fed. Com. # 9. API Well No. 30-015-26575 10. Field and Pool, or Exploratory Area N. Illinois Camp 11. County or Parish, State
2250' FWL & 790' FSL		Eddy Co., N.M.
TYPE OF SUBMISSION	TYPE OF A	
Notice of Intent Subsequent Report Final Abandonment Notice 13. Describe Proposed or Completed Operations (Cartesian Subsurface locations and measured as	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Clearly state all pertinent details, and give pertinent dates, including estimated date and true vertical depths for all markers and zones pertinent to this work.)*	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.)
- Set CIBP - Recomple	0 0 9800' - cover w/35' cement. ete in Cisco Formation - Test & evaluate	
- If uneco	omomical recomplete in Wolfcamp - Test &	SEP 22 10 WS AN 193
14. I hereby certify the the foregoing true and Signed	1 correct Petroleum Engineer	09/07/93
(This space for Federal or State office use) \pproved by (ORIG. SGD.) 10 \text{londitions of approval, if any:}		

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

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

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

3-19-91

DUAL LAT.

2575- 9446

9350 5PACED

HEUTRON

Luf- 9417

8500-15161

NC TOPS	DEM	5/14/91
Queen		1140
Grayburg		1430
San Andres		1975
Glorieta		3546
Abo		?
wolfcamp		6860
Penn		
Strown		
Atoka		9435
Morrow		9703

)

•



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Betty Rivera

Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

31 January 2003

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

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

API 30-015-26575

Violation of Rule 201:

Idle Well

Dear Sirs:

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

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

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

201 WELLS TO BE PROPERLY ABANDONED

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

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

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

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

эшо	arcıy,	
	Van Barton	
	Field Rep. II	

Shirley Jones - CRUDE OIL SUPPLY CLERK LEASE RECORDS

> Navajo Refining Company P.O. Box 159

Artesia, NM 88211-0159 phone (505) 746-5325

fax (505) 746-5283

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

TO:

District II

COMPANY:

Oil Conservation Division

FAX:

505-748-9720

PHONE:

505-748-1283

RE:

Chalk Bluff Federal Com #1

API No. 30-015-26575

MESSAGE:

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

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

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

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

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

Thank you.

Thurley fores

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

District I

1625 N. French Dr., Hobbs, NM 88240

ict II

South First. Artesia. NM 88210

Lastrict III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A August (1, 2000

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Substitution of the final affected wells had beg with 2 copies of this form per number of wells on that list to appropriate District Office

Change of Operator

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

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

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Form 3160-5 (September 2001)	UNITED STATE	E INTERIOR 1301	Oil Cons. .M. DIV-Dist. W. Grand Av	Expires: January 31, 2004
6(IND	BUREAU OF LAND MA RY NOTICES AND REF lbls form for proposals	NAGEMENT AL	esia, NM 882	Solease Serial No.
Do not use to abandoned v	ky notices and Ref this form for proposals well. Use Form 3160-3 (A	to drill or to re-enter PD) for such proposa	an is.	6. If Indian, Allottee or Tribe Name
1. Type of Well				7. If Unit or CA/Agreement, Name and/or No.
	Other TEMPORARILY	ABANDONED	2345878	8. Well Name and No.
2. Name of Operator		/8	<u> </u>	WDW-3 #3 23592
NAVAJO REFINING COMPA	NY 15694		P (2)	9. API Well No.
3a. Address	•	3b. Phone Non linclud	le area polite)	30-015-26575
PO BOX 159, ARTESIA, NM		505-748-3159	CENCESIA	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec	., T, R, M., or Survey Descripti	on)	OCO. ARIV	NAVAJO INJECTION; PERMO-PENN 11. County or Parish, State
790 FSL, 2250 FWL, 1-18S-2	27E		000	EDDY
12. CHECK AF	PROPRIATE BOX(ES)	TO INDICATE NATU	RE OF NOTICE, RI	PORT, OR OTHER DATA
TYPE OF SUBMISSION	·	TY	PE OF ACTION	
·	Acidize	Deepen .	Production (Start)	Resume) Water Shut-Off
Notice of latent	Alter Casing	Fracture Treat	Reclamation	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete	Other RECOMPLETE AS
The second secon	Change Plans	Plug and Abandon	Temporarily Aba	ndon CLASS I INJECTION
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal	WELL
3. Describe Proposed or Complete If the proposal is to deepen dire	d Operation (clearly state all per extionally or recomplete horizont he work will be performed or pr volved operations. If the operation all Abandonment Notices shall	rtinent details, including est ally, give subsurface location ovide the Bond No. on file on results in a multiple comp be filed only after all requir	imated starting date of an ns and measured and true with BLM/BIA. Require eletion or recompletion in ements, including reclam	y proposed work and approximate duration thereovertical 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
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Name Approved by (Signature) Title (Printed/Typed) ons of approval, if any, are attached. Approval of this notice does not warrant or that the applicant holds legal or equitable title to those rights in the subject lease would entitle the applicant to conduct operations thereon. Office Date

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

District I

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

301 W. Grand Avenue, Artesia, NM 88210

...00 Rio Brazos Rd., Astec, 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 30 - 015 -26575	² Pool Code	' Pool Name Navajo Injection; Permo-Penn			
Property Code	⁵ Property N WDW				
10GRID No.	Operator N Navajo Refining	Z.m. valous			

Surface Location UL or let so. Section Township Range Lot Ida Feet from the North/South line Feet from the East/West line N 1 **18S** 27E 790 South 2250 West Eddy 11 Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot Ida Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres Joint or Infill Consolidation Code 13 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

Charles and the same of the sa		NDARD ONLI HAS BE		
16			345679	17 OPERATOR CERTIFICATION I hereby centify that the information contained herein is true and complete to the best of my knowledge and belief.
			3456 789 15 III	Signature Downell Mobile Printed Name Dorrell Moore Title and E-mail Address Env. Mar. For water a waste Date clarrell@navajo-ratining.
			oio di di	Jarrell@navajo-retining -
				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	→			Date of Survey Signature and Seal of Professional Surveyor:
	T 790 ₩			Certificate Number

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

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

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

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

San Andres	1976 feet	Lower Wolfcamp	7303 feet
Yeso	4030 feet	Cisco	7.650 feet
Abo	5380 feet	Canyon	8390 feet
Wolfcamp	6745 feet	Strawn	8894 feet

Depth of Plugs

7010 feet in 7-inch casing above perforations 7050 feet to 7102 feet

7208 feet in 7-inch casing above perforations 7262 feet to 7278 feet

7294 feet in 7-inch casing above perforations 7304 feet to 7314 feet

7600 feet in 7-inch casing above perforations 7676 feet to 7678 and 7826 feet to 7830 feet

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

Anticipated Formation Pressure

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

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

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

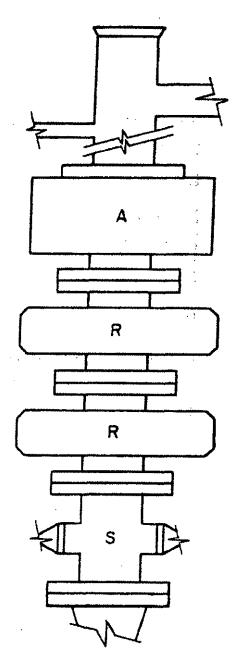
= 3448 psia

Reentry Procedure

- 1. Level location to accommodate a workover rig, pump, tanks, and ancillary equipment. Build a small working pit approximately 30 feet square and 3 feet deep with a plastic lining. Move in the rig, tank, shale shaker, and work string.
- 2. Install a 7-1/16-inch, 3000-psi double hydraulic blowout preventer (BOP) and a 7-1/16-inch, 3000-psi annular BOP (see Exhibit A for schematic). Pressure test the BOP stack and casing to 1500 psi for 30 minutes. Pick up a 6-1/8-inch bit, and sufficient 4-3/4-inch drill collars to drill out the cement plugs, on a 2-7/8-inch work string. Mix a tank of 8.5-ppg sodium chloride brine water for circulating fluid.
- 3. Run the bit to 7000 feet and circulate the wellbore fluid out of the casing into a frac tank for disposal. Drill out the cast iron bridge plug (CIBP), cement at 7010 feet, and clean out to the CIBP at 7208 feet. Circulate the hole clean and pump into the perforations from 7050 feet to 7102 feet to establish a rate and pressure for a pending squeeze cement job.
- 4. Drill out the CIBP at 7208 feet and clean out past the perforations from 7262 feet to 7278 feet and drill out the third CIBP at 7294 feet. Clean out below the perforations from 7304 feet to 7314 feet. Run a second injection test for injection rate and pressure comparison.

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

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



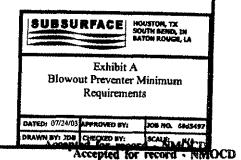
A = ANNULAR BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

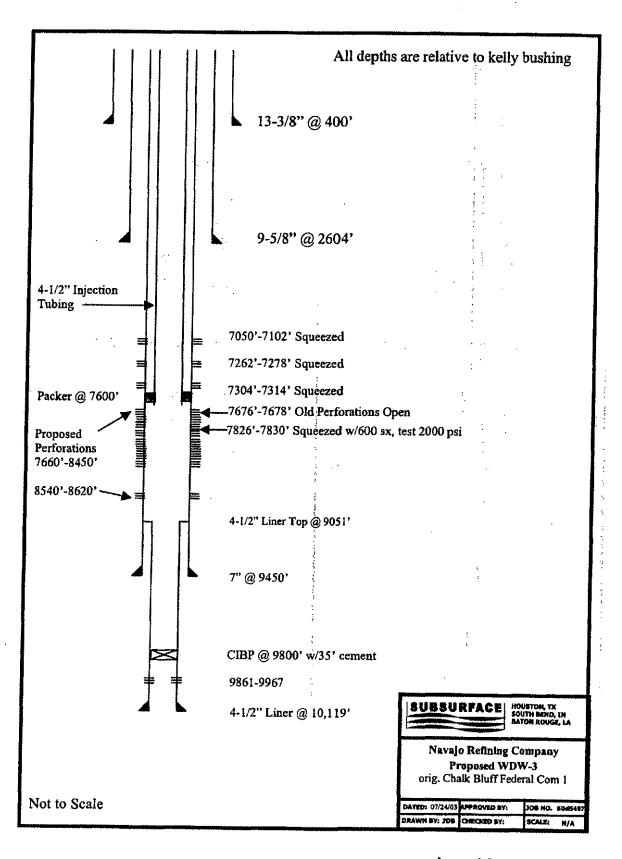
R = RAM TYPE BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

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

Manual Choke Manifold 2", 3000 psi working pressure

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





SURFACE USE PLAN

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

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

8. Ancillary Facilities: None anticipated.

9. Wellsite Layout:

- A. The existing well pad will be leveled to accommodate a workover rig, pump, tanks, and ancillary equipment.
- B. Existing topsoil to a depth of 6 inches will be lifted and stockpiled at the uphill end of the well pad. The stockpiled topsoil will be located uphill to avoid mixing with subsurface materials.
- C. The well pad will be surfaced with material found in place.
- D. A small working pit will be constructed to hold drilling fluids and cuttings. The approximate dimensions of the pit will be 30 feet x 30 feet x 3 feet.
- E. The working pit for drilling fluids and cuttings will be lined with 6-mil plastic.

10. Plans for Restoration of Surface:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, all equipment, trash, and junk; will be removed and the location cleaned.
- D. The stockpiled topsoil will be spread over the surface of the location.
- 11. Surface Ownership: U.S. Department of Interior, Bureau of Land Management.
- 12. <u>Archaeological Survey</u>: Navajo Refining Company is conducting an archeological survey. The report of the survey will be submitted by Navajo under separate cover.
- 13. Operator's Representatives: Representatives responsible for assuring compliance with the approved Surface Use Plan:

Mr. Darrell Moore Navajo Refining Company Post Office Box 159 Artesia, New Mexico 88211 505/748-3311 Mr. Jim Bundy Subsurface Technology, Inc. 7020 Portwest Drive, Suite 100 Houston, Texas 77024 713/880-4640

Exhibits

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

14. Certification:

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

Date

Date

Darrell Moore

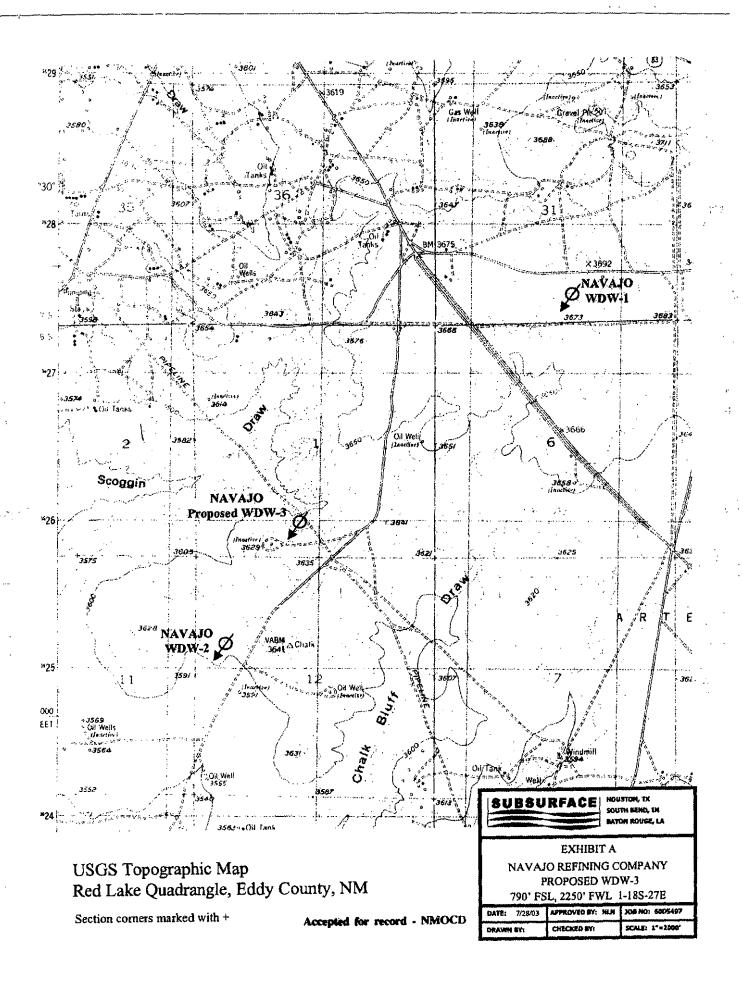
Name

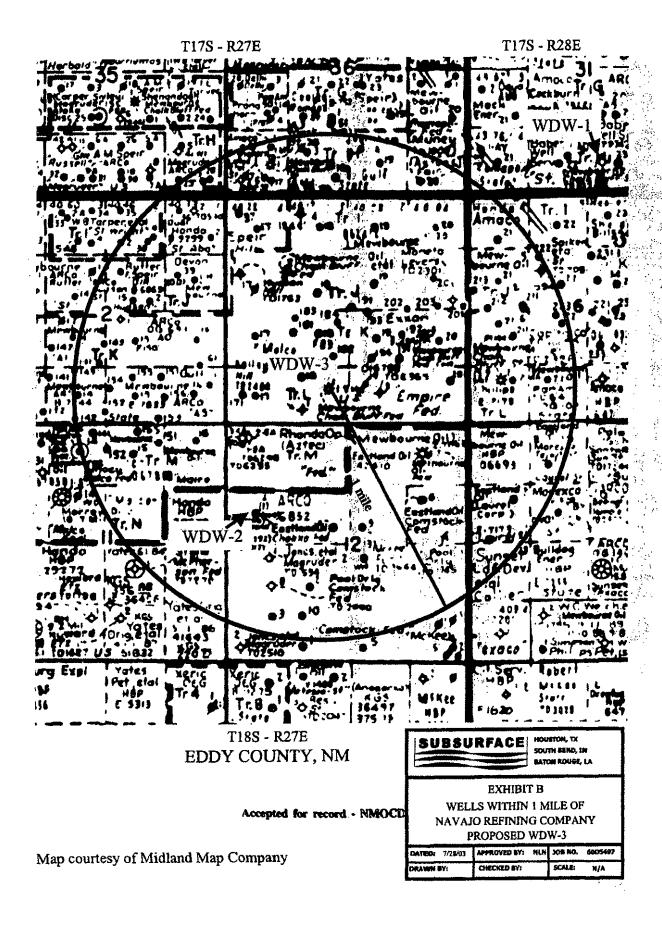
Eau. Mar. for Water- Waite

Title

Navajo Refining Company

Company





Form 3160-5 (February 2005) OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.				NM-055 6. If Indian	57371 , Allouce or Tribe Name			
SUBMIT IN TR	IPLICATE- Other instr				, 	7. If Unit or	r CA/Agreement, Name and/or No.	
1. Type of Well Gas Well Other				0 31/-1131-				
2. Name of Operator NAVAJO RE			·	····		8. Well Na WDW-	3	
3a Address	a Address 3b. Phone No. (include processes)					9. API We 30-015-		
					10. Field and Pool, or Exploratory Area			
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)			JUL 1	7 2006		NAVAJO INJECTION; PERMO-PEN 11. County or Parish, State		
790' FSL, 2250' FWL, 1-18S -	27E	9	OD:A	HTILOU	^	EDDY,	•	
12. CHECK AI	PPROPRIATE BOX(ES) TO	INDICATE	NATUR	E OF NO	TICE, RE	PORT, OR	OTHER DATA	
TYPE OF SUBMISSION			TY	PE OF ACT	ION			
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture T New Cone Plug and A Plug Back	struction Abandon	Recor	nction (Star mation nplete orarily Aba Disposal	ŕ	Water Shut-Off Well Integrity Other RECOMPLETE AS CLASS 1 INJECTION WELL	
WELL WILL BE PLUGG DRILL OUT BRIDGE PL INJECTION-TEST PERF DRILL OUT BRIDGE PL SQUEEZE-CEMENT PEF DRILL OUT BRIDGE PL RUN CBL/VDL AND CAI PERFORATE 8540'-8620' RUN INJECTION/FALLO RUN DIFFERENTIAL TE	Γ, AND ACIDIZE IF NECESS DFF TEST; EMPERATURE SURVEY;	DAS A CLA UT TO 7208 7262'-7278' 1 LEAN OUT ',7262'-7278' UT TO TOP 'ACE;	ASS I INJ '; 'O PLAN HOLE TI , AND 73	SQUEEZE HROUGH I 04'-7314':	CEMEN' PERFS AT	T JOB; 「7304'-7314	CEPTED FOR RECORD	
INSTALL WELL ANNUL	JBING AND PACKER TO AF US MONITORING EQUIPM	PROX. 7600 ENT, AND I)'; AND REPAR	E FOR WE	LL INJEC	TION	JUL 1 2 2006	
14. I hereby certify that the foreg Name (Printed/Typed)							PETROLEUM ENGINEER	
DARRELL MOO		-	Title ENVIRONMENTAL MANAGER FOR WATER & WASTE			FOR WATER & WASTE		
Signature David			Date	6/21	/			
	THIS SPACE FOR F	EDERAL	OR S	TATE O				
Approved by Conditions of approval, if any, are at certify that the applicant holds legal which would entitle the applicant to. Title 18 U.S.C. Section 1001 and Title	or equitable title to those rights in conduct operations thereon.	the subject lea	nt or use O	île Tice			Frecord	

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

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

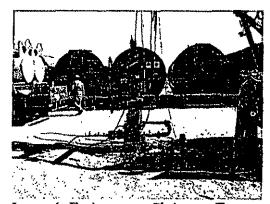
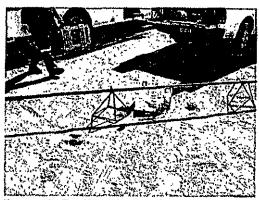


Image 1: Facing west. Christmas Tree with 500-barrel tanks in background. Far left tank was the only tank providing salt water. Truck on left is the pump truck pumping brine water only. Right truck is the rig truck (Wood Group Logging Service).



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



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

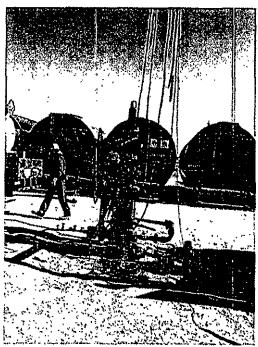


Image 4: Petroplex workers prepping wellhead for wire line tool entry.



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

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

November 15, 2006

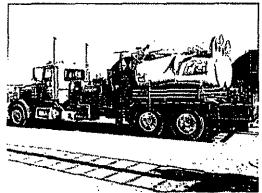
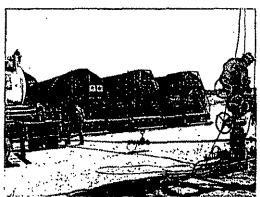


Image 6: Pump truck, Petroplex, for Brine water pumping only. No HCL used throughout process.



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

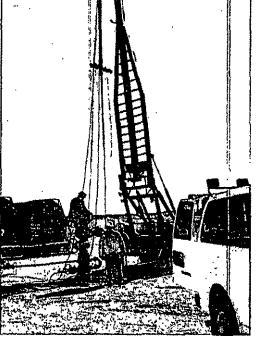
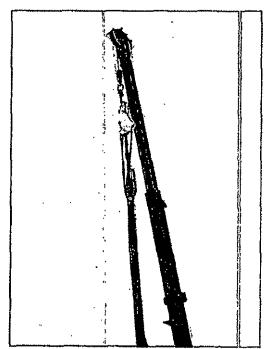


Image 8: Wood Group employee securing wellhead for tool entry.

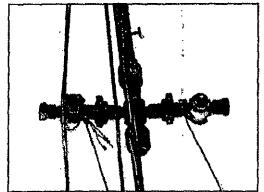


<u>Image 9</u>: Configuration at the top end of the boom.

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

November 15, 2006

Image 12:



<u>Image 10</u>:

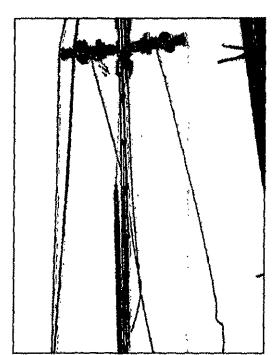
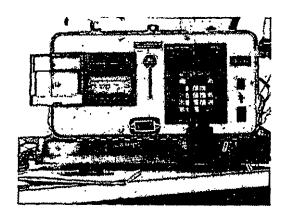
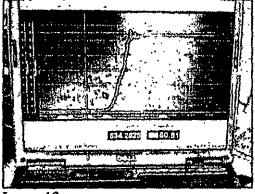
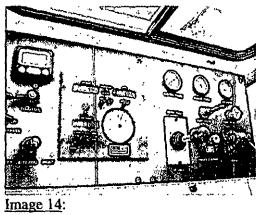


Image 11:







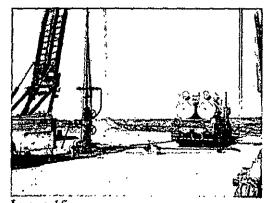
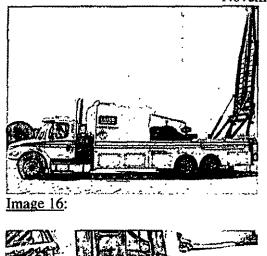
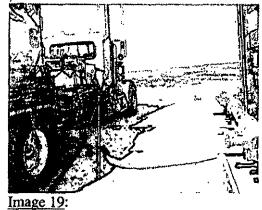


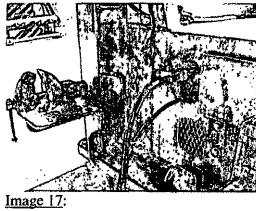
Image 15:

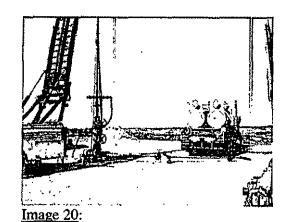
Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575] (Carl Chavez & Leonard Lowe- OCD)

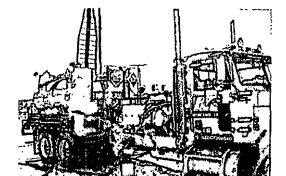
November 15, 2006











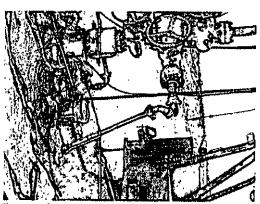
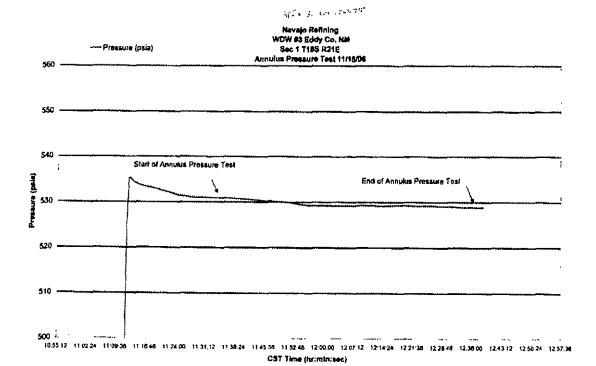
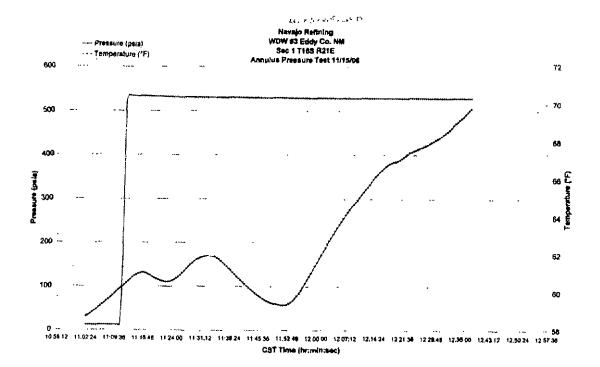


Image 18:

Image 21:

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





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

State of New Mexico Energy Minerals and Natural Resources

May 27, 2004
Submit to appropriate District Office

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

AMENDED REPORT

Form C-101

1220 S. St. F	rancis Dr.,	Santa Pe, NI	M 87505		Sa	ınta Fe, 1	VM 87:	505		,			
APPI	ICATI	ION FO	R PERMIT	TO D	RILL, R	E-ENT	ER. D	EEPE	N. PLUGBA	CK, OR	ADD A ZONE		
<u> </u>			Operator Nam				<u></u>			OGRID No			
NAVAJO RENING COMPANY							API Number						
Prope				Propr	rty Name	30 - 015-26575 Name Well No.							
, , , , , ,	, v										3		
		1	Proposed Pool 1			VDW	Γ		Prope	used Pool 2			
			UECTION; PER	MO-PENN			<u> </u>						
		*			Surfa	ce Locat	e Location						
UL or lot no.	UL or lot no. Section Township Range		Lot !	da Po	et from the	rom the North/South line		Feet from the	liast/West li	ne County			
	1 18S 27E 2250 FWL				VL 750 FSt. E								
			⁸ Propo	sed Botto	om Hole L	ocation If	Differe	nt From	Surface				
UL or lot no.	Section	Township	Range	Lot	das Fr	eri from the	North/South line		Feet Bom the	Enst/West lis	ne County		
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			15.		ditional		ormati						
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	10	1	9051			CANYON			COMMITTEE STATE		Optio Date		
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Pit: Liner:	Synthetic	NKNOWN	ils thick Clay	☐ Pit Vo	olume:	1.25 ML	TO 1828 Di	rilling Met	hod:		IOMILES		
	d-Loop Sys	tem 🗍	•		***************************************	•		•	Drine X Dies	ol/Oil.beed	Contain C		
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Hole Si			ng Size	Casing	weight/foot		Setting Depth Sacks of Cement Estin				Estimated TOC		
17-1/			3/8"		1.50#		400		425 - CI				
12-1/-			5/8"		36#		2604		1025 - C				
8-3/4			7"		and 29#		9450		1350 - C				
22 Describe th	e proposed	program. If	this application	is to DEEP	EN or PLUC	BACK, giv	the date	on the pr	resent productive 20	one and propo	sed now productive zone.		
			gam, if any. Use LK BLUFF FED			ecssary.							
			ND COMPLETE			TION WEL	LASFO	LLOWS:					
			' AND CLEAN (AT 7050-7102; 1			OT IEEZE CI	MENT!	OB:					
DRILLOUTB	RIDGE PL	UGS AT 720	8' AND 7294'. C	LEAN OUT	THOLETH	OUGH PER			·,				
SQUEEZE-CE	MENT PE	REGRATION	IS AT 7050-710	2',7262'-727	8', AND 730	4-7314;							
			'AND CLEAN C M 9051'TO SUR		POF LINER	AT 90515]		
PERFORATE	8540'-8620'	'AND 7660'-	8450';	·									
			DIZE IF NECESS	ARY;									
RUN INJECTA RUN DIFFERE			RESURVEY:										
RUN RADIOA	CTIVE TR	ACBR SURV	/BY;								}		
INSTALL INJE	CTION TU	BING AND	PACKER TO ALDRING EQUIPM	PROX. 760	DD; AND	on nært k	. constant						
13 I hereby certi	ify that the	information	given above is tr	ne any com	ricerace r	CMC AIRITY			\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		70.00		
best of my kno	wiedge and	belief. I fur	ther certify that	the drillin	g pit will be	,	OIL CONSERVATION DIVISION						
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E-mail Address	date	<u>ell. Maa</u>	LOW HEAR	o-rey	ining.c	ool _				····			
Date: 6/29	1/06		Phone: 505	744-5	52 4 1	Condition	ons of Ap	proval Attu	ached 🗗 Dr.	STRICTO	HICE MUST		

APPROVE CASING PROGRAM.

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

irict III

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

District IV	ld., Aziec, l	NM 87410		12.	Fee	Fee Lease - 3 Copies				
1220 S. St. Pranck	s Dr., Swta	Fo, NM 8750	5		☐ AME	AMENDED REPORT				
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OGRID	Vo.	***************************************		···		* Blayntion				
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					3	3625' KB				
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			11 Bot	tom Hole	Location If	Different Fron	1 Surface			
UL or lot no.	Section	Township	Range Lot lun		Feet from the	North/South line	Feet from the	East/West fine	County	
Dedicated Acres	" Joint us	FaGID MC	onsolidation C	Code ' Ord	ér 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 11. . 5 **OPERATOR CERTIFICATION** I hereby certify that the information contained herein is true and complete to the best of my knowledge and betief. Stanoger Doubl Moore THE MAE BOOM AND THE ENV. MAF. For Water waste darrell@navejo-retining.com 9/17/03 "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was piotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my bellef. Date of Survey Signature and Seal of Professional Surveyor: 2250 Certificate Number

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

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

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

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

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

Depth of Plugs

7010 feet in 7-inch casing above perforations 7050 feet to 7102 feet

7208 feet in 7-inch casing above perforations 7262 feet to 7278 feet

7294 feet in 7-inch casing above perforations 7304 feet to 7314 feet

7600 feet in 7-inch casing above perforations 7676 feet to 7678 and 7826 feet to 7830 feet

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

Anticipated Formation Pressure

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



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

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

= 3448 psia

Reentry Procedure

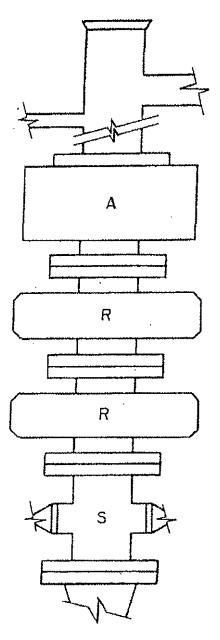
- 1. Level location to accommodate a workover rig, pump, tanks, and ancillary equipment. Build a small working pit approximately 30 feet square and 3 feet deep with a plastic lining. Move in the rig, tank, shale shaker, and work string.
- 2. Install a 7-1/16-inch, 3000-psi double hydraulic blowout preventer (BOP) and a 7-1/16-inch, 3000-psi annular BOP (see Exhibit A for schematic). Pressure test the BOP stack and casing to 1500 psi for 30 minutes. Pick up a 6-1/8-inch bit, and sufficient 4-3/4-inch drill collars to drill out the cement plugs, on a 2-7/8-inch work string. Mix a tank of 8.5-ppg sodium chloride brine water for circulating fluid.
- 3. Run the bit to 7000 feet and circulate the wellbore fluid out of the casing into a frac tank for disposal. Drill out the cast iron bridge plug (CIBP), cement at 7010 feet, and clean out to the CIBP at 7208 feet. Circulate the hole clean and pump into the perforations from 7050 feet to 7102 feet to establish a rate and pressure for a pending squeeze cement job.
- 4. Drill out the CIBP at 7208 feet and clean out past the perforations from 7262 feet to 7278 feet and drill out the third CIBP at 7294 feet. Clean out below the perforations from 7304 feet to 7314 feet. Run a second injection test for injection rate and pressure comparison.



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



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



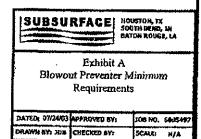
A = ANNULAR BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

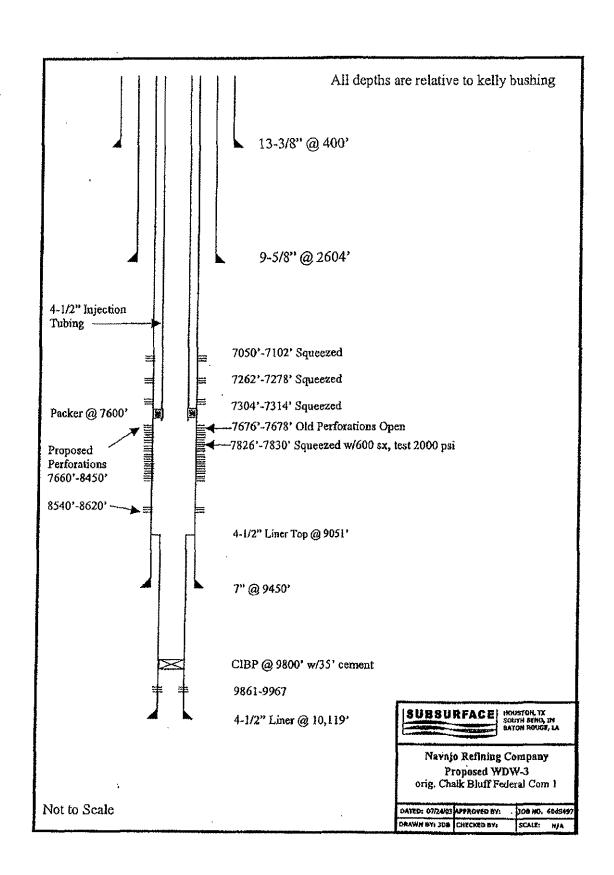
R = RAM TYPE BLOWOUT PREVENTER 7-1/16", 3000 psi working pressure

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

Manual Choke Manifold 2", 3000 psi working pressure

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







SURFACE USE PLAN

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

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

8. Ancillary Facilities: None anticipated.

9. Wellsite Layout:

- A. The existing well pad will be leveled to accommodate a workover rig, pump, tanks, and ancillary equipment.
- B. Existing topsoil to a depth of 6 inches will be lifted and stockpiled at the uphill end of the well pad. The stockpiled topsoil will be located uphill to avoid mixing with subsurface materials.
- C. The well pad will be surfaced with material found in place.
- D. A small working pit will be constructed to hold drilling fluids and cuttings. The approximate dimensions of the pit will be 30 feet x 30 feet x 3 feet.
- E. The working pit for drilling fluids and cuttings will be lined with 6-mil plastic.

10. Plans for Restoration of Surface:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, all equipment, trash, and junk will be removed and the location cleaned.
- D. The stockpiled topsoil will be spread over the surface of the location.
- 11. Surface Ownership: U.S. Department of Interior, Bureau of Land Management.
- 12. Archaeological Survey: Navajo Refining Company is conducting an archeological survey. The report of the survey will be submitted by Navajo under separate cover.
- 13. Operator's Representatives: Representatives responsible for assuring compliance with the approved Surface Use Plan:

Mr. Darrell Moore Navajo Refining Company Post Office Box 159 Artesia, New Mexico 88211 505/748-3311 Mr. Jim Bundy Subsurface Technology, Inc. 7020 Portwest Drive, Suite 100 Houston, Texas 77024 713/880-4640

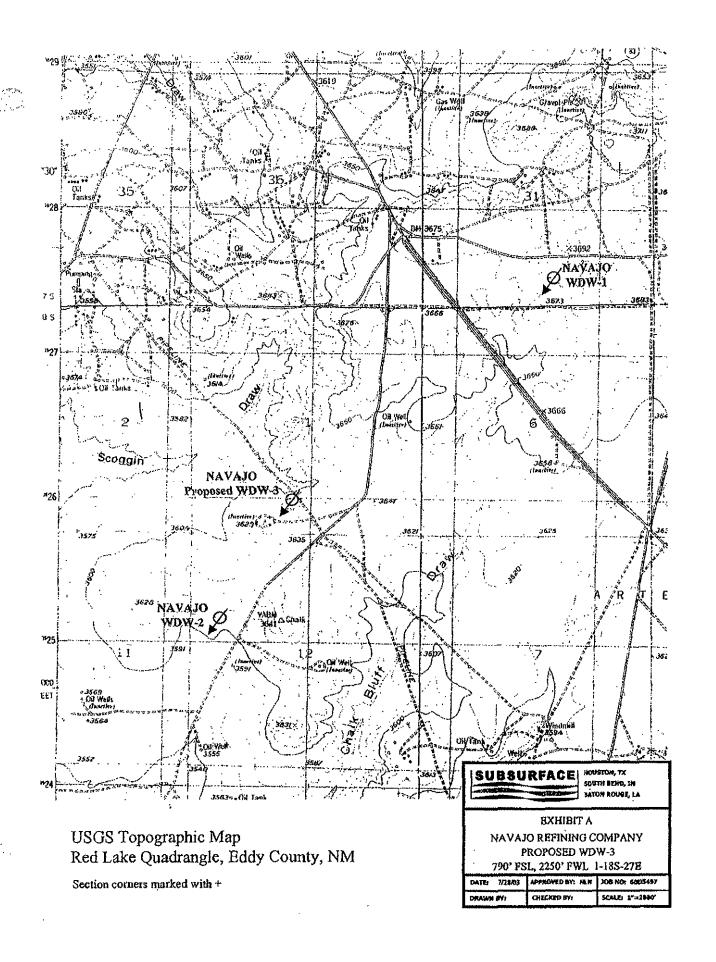
Exhibits

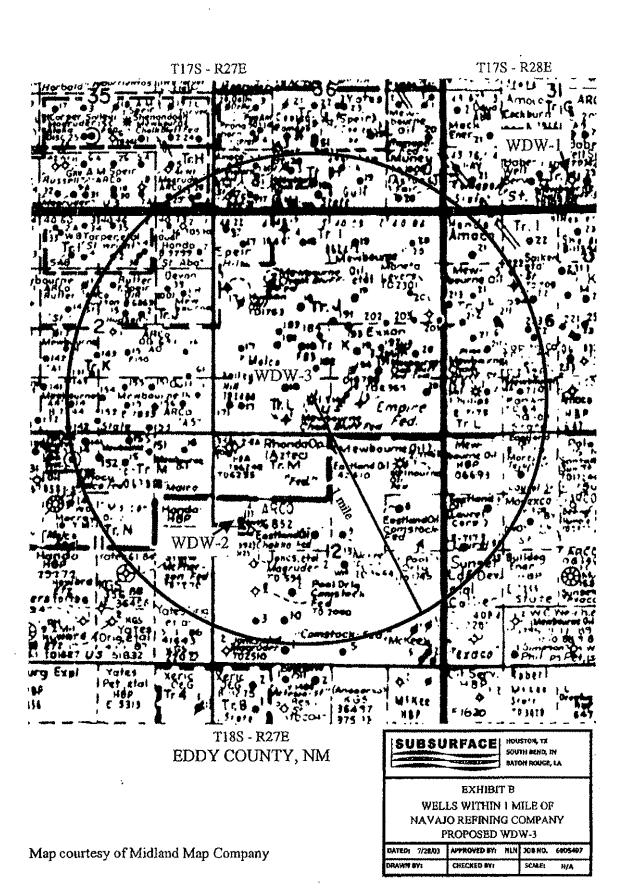
- A. Topographic Map
- B. Oil and Gas Map

14. Certification:

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

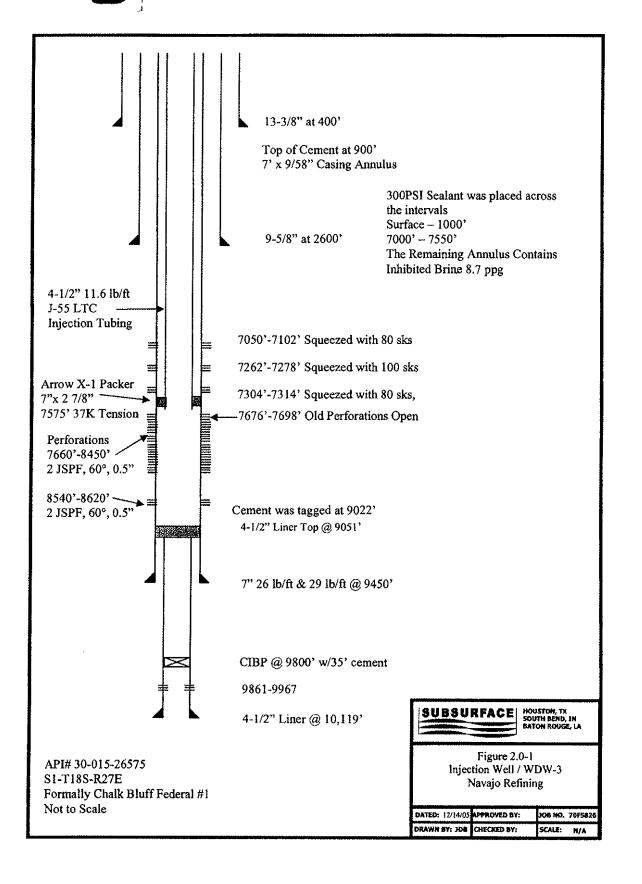
9/17/03	Davill More
Date	Darrell Moore
	Env. Mar. for Water Waite
	Navajo Refining Company
	Company





Submit 3 Copies To Appropriate District	State of	New Mex	Form C-103				
District I	Energy, Minerals	and Natur	May 27, 2004				
1625 N. French Dr., Hobbs, NM 88240	- -		WELL API NO.				
District II	OIL CONSERV	VATION	30 – 015 - 26575				
1301 W. Grand Ave., Artesia, NM 88210 District III	1000 0	CA Dunn	5. Indicate Type of Lease				
1000 Rio Brazos Rd., Aztec, NM 87410	1220 Souti	- NB 6 070	STATE X FEE				
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa F	e, NM 874	6. State Oil & Gas Lease No.				
97505		23	1773	NM-0557371			
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2. Name of Operator		/ ^2	9.174	9. OGRID Number			
NAVAJO REFINING COMPANY	<u> </u>	12	10/2 0	. Octob Humbol			
3. Address of Operator P.O. BOX 159, ARTESIA, NM 88	3211	55.85 M	ES 22 12 22 23	10. Pool name or Wildcat			
4. Well Location							
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	18 south Range 27 Ea			ty Eddy			
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	nil Below-Grade Tank: '			struction Material N/A			
			4				
12. Check A	Appropriate Box to In	dicate Na	ture of Notice, I	Report or Other Data			
NOTICE OF IN	ITENTION TO:	1	SHRS	SEQUENT REPORT OF:			
PERFORM REMEDIAL WORK □	PLUG AND ABANDON	\neg \Box	REMEDIAL WORK				
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PULL OR ALTER CASING	MULTIPLE COMPL	'	CASING/CEMENT				
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OTHER: To complete a Class 1 no	n-hazardous waste well		DTHER: Well com	pletion report to follow X			
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a							
See attached well summary document	it and well schematic.						
Mit Witnessed by C. No Chart Submit	arl chavez						
110 Clart Submit	[24]						
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	/ -						
I hereby certify that the information a grade tank has been/will be constructed or	bove is true and complete losed according to NMOCD g	to the best uidelines □,	of my knowledge general permit 🗌 o	and belief. I further certify that any pit or below- r an (attached) alternative OCD-approved plan			
SIGNATURE Taull W	losce T	TILE E	u. Mgr. Er 1	Notora Wash DATE 1/8/07			
Type or print name	i bioner en	E-mail addro	ess:	Telephone No.			
r State Use Only	pted for record			a otophono 110.			
	MINOCO						
APPROVED BY: Conditions of Approval (if any):	T	TTLE		DATE			

Submit To Appropr State Lease - 6 copi	es	rici Office		State of New Mexico					Form C-105				
Fee Lease - 5 copies District I					Energy, Minerals and Natural Resources					Revised June 10, 2003 WELL API NO.			
1625 N. French Dr., District II	, Hobbs, i	NM 88240		0.7.0					30 - 015 - 26575				
1301 W. Grand Ave	mue, Arte	esia, NM 88210		Oil Conservation Division					5. Indicate Type of Lease				
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1220 S. St. Francis	Dr., Santa	a Fe, NM 87505		Santa Fe, NM 87505					State Oil &	Gas Lease	e No.		
			~~~~	OMPI	LETION REPO								
la. Type of Well:		C L C LVE	· 🗆	DRY OTHER Non-hazardous Waster Disposal Well						7. Lease Name or Unit Agreement Name			
				DRY LI OTHER Non-nazardous Waste Disposal Well						Waste Disposal Well / WDW - 3			
b. Type of Comp	pletion: WORK	X DEEPE	N □ PLUC	PLUG DEP. BACK RESVROUS CONTRACTOR 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 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 ST							,, ,		
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2. Name of Operat	tor				AP	50	6	Ì	8. Well No. 3				
NAVAJO REFIN		MPANY		<del></del>	1/3	S/4	<u> </u>						
3. Address of Ope	rator				1.03	 	87		9. Pool name or	Wildcat			
P.O. BOX 159, AI	RTESIA	, NM 88211			3545623	7160	.′						
4. Well Location Unit Letter		: <u>790</u> Fo	et From The	SOUTE	Line and 2250 Feet	From The	WEST Lin	e					
									E *				
10. Date Spudded	11. D	ip 18 South Reac			ompl. (Ready to Prod.)	l 13.			Eddy, NM RKB, RT, GR,	etc.)	14 Elev	. Casinghead	
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8540' TO 8620' / 0	.5" / 2 J	SPF / 60°					O 7102' O 7278'						
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28					PRO	DUCT	·····				1001		
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Date of Test	Hours	Tested	Choke Size		Prod'n For Test Period	Oil - Bbl		Gas -	MCF	Water - Bb		Gas - Oil Ratio	
10/19/06	4 HOU	JRS	INJECT TE		N/A	N/	A		N/A	N/A	1	N/A	
Flow Tubing	Casing	Pressure	Calculated 2	4-	Oil - Bbl.	Gas -	MCF	W	ater - Bbl.	Oil Gr	avity - A	P1 - (Corr.)	
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#### Well Summary

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

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

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

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

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

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

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

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

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

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