UIC - I - 8-1, 2 & 3

WDWs-1, 2 & 3
PERMITS,
RENEWALS,
& MODS (4 of 18)

2017

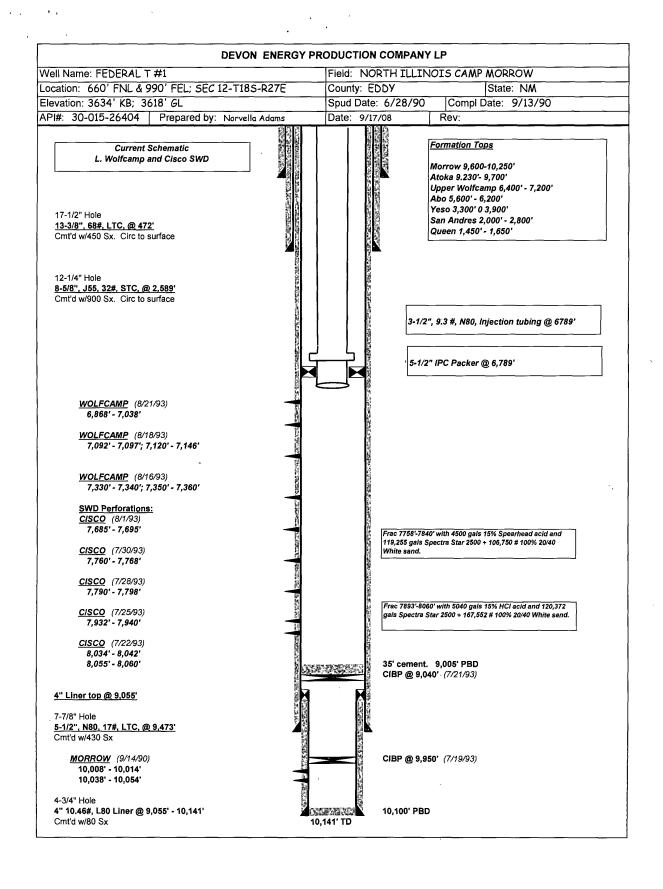
Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APROVED ⊶OMB NO⊶1004-0135 ≳IRES:-NOVEMBER 30, 2000

SUNDRY NOT	ICES AND REPORTS ON WELL	s OCD-A	KILDM.	5. Lease Serial N	0.	
Do not use this form		NM-42410				
abandoned well. Us		6. If Indian, Allotte	e or Tribe Name			
. St	JBMIT IN TRIPLICATE			7 Unit or CA Agn	eement Name and No.	
1a Type of Well Oil Well Ga	s Well Other	.!!! 2 1 200	18			
				8 Well Name and	No.	
2. Name of Operator	TION COMPANY I B	ocharie	311/A	9. API Well No	Federal T 1	
DEVON ENERGY PRODUCT	ION COMPANY, LP			9. API VVeli No	20.045.20404	
Address and Telephone No.	City OK 72402	405 550 0400		10. Field and Dec	30-015-26404	
20 North Broadway, Oklaho	 	405-552-8198		10. Field and Poo		
 Location of Well (Report location clear 660' FNL & 990' FEL 	ny and in accordance with Federa	ii requirements)"		12. County or Par	Wolfcamp rish 13. State	
Section 12 T18S R27E,	Unit A			Eddy	NM	
	APPROPRIATE BOX(s) TO INDI			, OR OTHER DAT	A	
TYPE OS SUBMISSION			OF ACTION			
✓ Notice of Intent	Acidize	Deepen		n (Start/Resume)	Water Shut-Off	-
Subsequent Report	☐ Alter Casing☐ Casıng Repair	Fracture Treat New Construction	Reclamati		Well Integrity □ Other	i
_	Change Plans	Plug and Abandon		ily Abandòn		
Final Abandonment Notice	✓ Convert to Injection	Plug Back	Water Dis	•		
the Bond No on file with BLM/BIA Required subsequinterval, a Form 3160-4 shall be filed once testing has determined that the site is ready for final inspection)						n a new
Devon Energy Production Cor	mnany I.P is nrenaring I	Form C108 Applic	aton for A	uthorization t	to Inject that will b	e l
filed with the Oil Conservation						
well to SWD in the Lower Wo	•	from 7400' to 820	o'. The B	LM has been s	sent a copy of C10	8
application filed with the OCI).					
1. RIH and drill out CIBP's at 6,						İ
2. Perform injection step rate tes	•					
 Drill out CIBP at 7,560' and c Perforate / Reperforate Cisco 	with casing gun, 0.42" EH	D, 2 spf from 7,893'	7,899'; 7,9		10'-7,916'; 7,919'-7,	927';
7,932'-7,959'; 7,965'-7,967'; 7,97	1'-7,972'; 7,976'-7,978'; 8,9	034'-8,042'; 8,055'-8,	060'; 8160	'-8164'.		1
5. Frac as recommended.						
6. RIH with RBP and set at +/- 7	7,865'.					
7. Perforate / Reperforate Cisco	with casing gun, 0.42" EH	D. 2 spf at 7.758'-7.3	768': 7.790	'-7.798': 7.800'-	-7818': 7.832'-7.840	
8. Frac as per recommended.			, . ,	.,,.,	, .,	
Practic per recommended:POOH with RBP and RIH with RBP an	th tuhing and nacker Set	nacker at 7 600' Per	form inject	tion sten rate to	est in Cisco	
10. Tie in disposal line routed fr				non stop rate te	ot ill Cioco.	
		•	•		t	4
* Either, return	the well to a	etive status	p y	11-16-08	or subm	7:
plans for ab.	andonnen's.					
14. I hereby centity that the foregoing is t	rue and correct					
	Name	Norvella Adan			2020//50	 j
Signed	Title	Sr. Staff Engineering T	echnician	Date A	PPROVED	
(This space for Federal or State Office us		*				7
Approved by	Salt : 13 th Title	ct.		□ate	1 . 2000	
Conditions of approval, if any:		. ,	. \ ' '	:] 0 🕇	JUL 16 2008	i
	DEOCHATO	. ,		- Y		
Title 15 0 5 C Section 1001, makes it a crime for any	person knowingly and william to make any o	separtment or agency or the onite	o States any laise	nemous or readulents	JAMES A. AMOS	iny matter with
its jurisdiction				1 0	UPERVISOR EPS	
	*See Ir	istruction on Reverse Si	de	The health		

Submit 3 Copies To Appropriate District	State of New Me	exico	Form C-103				
Office <u>District I</u>	Energy, Minerals and Natu	ıral Resources	May 27, 2004				
1625 N. French Dr , Hobbs, NM 88240 District II			WELL API NO. 30-015-26404				
1301 W Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of Lease				
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fran		STATE FEE				
<u>District IV</u> 1220 S St Francis Dr., Santa Fe, NM	Santa Fe, NM 87	/505	6. State Oil & Gas Lease No.				
87505							
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR USE "APPLI PROPOSALS)	7. Lease Name or Unit Agreement Name Federal T						
1. Type of Well: Oil Well	Gas Well Other -Convert to S	SWD	8. Well Number				
2. Name of Operator	GY PRODUCTION COMPANY, I	D	9. OGRID Number 6137				
3. Address of Operator	TRODUCTION COMPANT,		10. Pool name or Wildcat				
20 North Broadway, Oklahoma	City, OK 73102 405-552-	-8198	L. Wolfcamp and Cisco 96136				
4. Well Location							
Unit Letter_A	:660'feet from the _NORTH	I line and _99 0' _	4				
Section 12		Range 27E	NMPM County Eddy				
STATE OF THE SALE	11. Elevation (Show whether DR) 3709' KB; 3697' GL	, RKB, RT, GR, etc.)	in the same of the same of				
Pit or Below-grade Tank Application							
Pit typeDepth to Groundy	vaterDistance from nearest fresh w	vater well Dist	ance from nearest surface water				
Pit Liner Thickness: mil	Below-Grade Tank: Volume	bbls; Co	nstruction Material				
12. Check	Appropriate Box to Indicate N	ature of Notice,	Report or Other Data				
NOTICE OF IN	NTENTION TO:	SUB:	SEQUENT REPORT OF:				
PERFORM REMEDIAL WORK		REMEDIAL WORL					
TEMPORARILY ABANDON		COMMENCE DRI					
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	TJOB [
OTHER:	•		ert to SWD, Admin. Order SWD-1135				
			d give pertinent dates, including estimated date tach wellbore diagram of proposed completion				
	I NU BOP. TIH with bit and drill co	ollars.					
8/06/08 Drilled through cement at '	7525', CIBP at 7300' and cement at						
			min -20# psi, pumped 50 bbls at 2 bbls/min -				
8/08/08 Trucked in and established	nin – 170# psi, pumped 50 bbls at 4 l injection in the Wolfcamp at 150 E	0015/min – 250 psi. BWPD at 170 psi.					
8/11/08 Drilled cement retainers at		, , , , , , , , , , , , , , , , , , ,					
	7820' and 8000'. Circulate hole and						
8/13/08 Perforate Cisco from 7893 Spectra Star 2500 + 167,552 # 20/4		set packer at 7688'.	Frac with 5,040 gals 15% HCl + 120,372 gals				
		cer and TOOH with	packer and tubing. RU wireline and perforate				
Cisco from 7758'-7840'; 228 total l							
8/15/08 TIH with packer and set at		55 gals Spectra 2500) + 106,750 # 20/40 100% White sand. RD.				
8/18/08 Release packer. TOOH wi		os gais specifa 2500	7 100,730 # 20/40 100/6 White Saild. RD.				
			OP and NU flange. Waiting on tubing.				
			T test to 500,# for 30 minutes – ok, notified				
Wike Bratcher with OCD. TOOH V	viui tuoing. RIH with 3 1/2 TPC tuoi	ing and set at 6769.	Injection line installation in progress.				
I hereby certify that the information grade tank has been/will be constructed or	above is true and complete to the be	est of my knowledge], a general permit []	e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .				
SIGNATURE	TITLE	Sr. Staff Enginee	ering Technician DATE 9/17/08				
Type or print name Norvella Ad							
For State Use Only APPROVED BY:	TITLF		DATE				
Conditions of Approval (if any):		opted for record NMOCD					
'		1.91AIOCD					



Bill Richardson Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

OCT 072000 OCD-ARTESIA OCT 082008

Mark Fesmire
Division Director
Oil Conservation Division



Administrative Order SWD-1135 July 16, 2008

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

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

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

THE DIVISION DIRECTOR FINDS THAT:

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

IT IS THEREFORE ORDERED THAT:

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

IT IS FURTHER ORDERED THAT:



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

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

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

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

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

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

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

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

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

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

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

Administrative Order SWD-1135 Devon Energy Production Company, L.P. July 16, 2008 Page 3 of 3

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

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

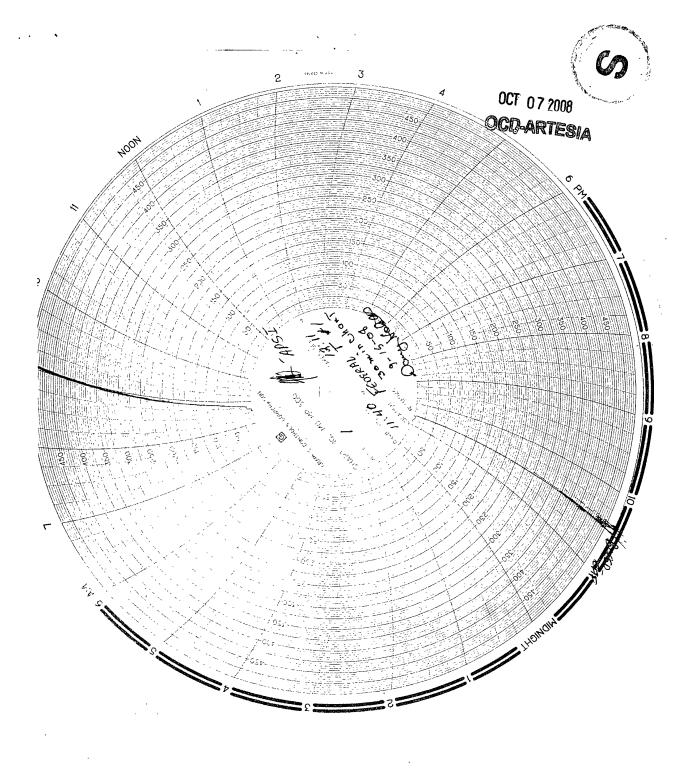
MARK E. FESMIRE, P.E.

Director

MEF/wvjj

cc: Oil Conservation Division - Artesia

Bureau of Land Management - Carlsbad



SFP 19 2008

Submit to Appropriate District	Office				02.	· ma. // res			Form C-	-105	:
State Lease - 6 copies Fee Lease - 5 copies		Sta	te of New Mexic	ю	OC	D-Ar	RES	A Revise	-Form C d June 10, 20	003	
District 1	-		ergy, Minerals ar				Well API N				•
1625 N French Dr., Hobbs, NN District II	1 88240		37.					30-0	15-26404		
1301 W Grand Avenue, Artes	a, NM 88210	Oil	Conservation Di	ivision			5. Indicate	Type of Lea	ise		•
District III 1000 Rio Brazos Rd, Aztec, N	A 87410	87410 1220 South St. Francis Dr.						STATE	FEE		_
District IV 1220 S St Francis Dr., Santa		Sar	nta Fe, NM 8750	05			State Oil 8	gas Lease N	No		
							28 Martida - National	N-Jackson California Calaba	89V2G48889056,4546251	LASANIBAS MF NARPOR	
1a Type of Well	ON OR RECO	MPLETION	REPORT AND	LOG			1 2 100-91 0 0			Person	3
1	I		Convert to	SMD. V4	min Order SWD-11	35	Lease	Name and Or	nit Agreemen	t Name	
Dil Well b Type of Completion	_		Other Convert to	_		<u> </u>					
New Well	Work Over	□ Deepen	✓ Plug Back _	_ Diff. Res	svr., Other				leral T 1		
2 Name of Operator	DEVONI	ENERGY PRO	DUCTION COMPA	NVID			8. Well No	0.			•
3 Address of Operator			, DOG 1.0.11 GOIIII 7.	,			9 Pool na	me or Wildca	at	Q/	136
	20 North	Broadway, O	klahoma City, OK	73102				L. Wolfca	mp and Cisc	· 96	104
4 Well Location											
Unit Letter	A 660	0' feet from	the NORTH	line and	990'feet fr	om the	EAST	_ line			
Section	12	Townshi			27E NMPM			ounty Ede			_
10. Date Spudded	11. Date T D		12 Date Completed		evations (DR, RKB,	RT, GL)	14 EI	ev Casinghe	ad		
			Orig 9/13/90 SV	VD							
6/28/1990	8/25/1		9/15/08		3634' KB; 3618					·	
15. Total Depth MD	16 Plug Back		17 If Multiple Compl i		18. Intervals	I KO	tary Tools	Çal I	ble Tools		
10,141 19 Producing Intervals	900		Zones No	0	Drilled BY		X	Was Direct	ional Survey	Made	
L. Wolfcamp; 6,868' - 7				osal Only)	ı		120	TTUO DIICOI	No	Made	
21. Type Electric and C		1					22	Was Well (Cored		
DLL-MGRD, SDL-DSN	(original logs)								No		
23			CASING RECORD			1)					
Casing Size		t LB /FT.	Depth S	set	Hole Size		Cementing		Amou	nt Pulled	
13-3/8"		32#	472'		17-1/2"		450		ļ <u></u>		l
8-5/8" 5-1/2"		7#	2589 9473		7-7/8"		900 sx 430 sx				
5-1/2		1#	9473		1-116	<u> </u>	430	5x			1
	 								ļ		١
24			Liner Record			25		Tubing Re	cord		į
Size	top	Bottom	Sacks Ceme	ent	Screen	Size		Depth Set	Pac	ker Set	
4"	9055'	10141'	80 sx	<u> </u>		3-1	/2" (IPC)	6789	9'	6789'	l
		<u> </u>				ــــــــــــــــــــــــــــــــــــــ					j.
26 Perforation record (inte	rval, size, and numb	er)			27. Acid, Shot, F Depth Interval	racture,			Material Use	nd	ı
Wolfcamp; 6868'-7038	' (8/21/93)				Deptimitervar	+					1
Wolfcamp; 7092'-7097		(18/93)								gals Spectra	i
Wolfcamp; 7330'-7340					7893'-8060'	Star 28	500 + 167,5	52 # 100% W	hite 20/40 Sa	and.	
Cisco; 7893'-8060'; (1		,									
Cisco; 7758'-7840'; (2						F	1500!- 4	F9/ Casa-ba		140 355	1
Morrow; 10008'-10054		3P)			7758'-7840'					119,255 gals 20/40 Sand.	
					1738-7040	Орсон	u 0441 2000	100,100 #	700 /6 1111110	20/40 Gana.	ĺ
											ĺ
		,			1	1					
28			PRODUCTION								,
Date First Production	Production Me	thod (Flowing,	Gas lift, pumping -	Size and ty	ype pump)		Well Statu	s (Prod Or S			1
NA Date of Test Hours Te	sted Choke S	2000	Prod'n For Test	Oil - BbL	Gas - MCF		Motes Dh	9/16/08-Co	Gas - Oil Ratio		l
				OII - BDL	Gas - MCF		Water - Bbl				İ
Flowing Tubing Press	Casing Pressu		Period Oil - Bbi		Gas - MCF	Water -	Bbl	TOIl Gravity - A		DIV/0!	1
r revining raping r rass	Odding (10000	ı			Gus - Mioi	7,4,0,	001	Join Gravity 17	11 1 (0011)		1
29. Disposition of Gas (Sold, used for fue	Hour Rate (vented, etc)	1		1	1	Test V	Itnessed By			1
NAConverted to SWD		, ,						····,			l
30. List Attachments											i
Wellbore schematic											i
31 hereby certify that	the information sh	own on both s	ides of this form as	true and c	omplete to the best	of my kn	owledge an	d belief			j
	C 2		Printed			•	.				
SIGNATURE		\nearrow	Name No	rvella Ada	ms Title	Sr Sta	ff Engineeni	ng Techniciar	DATE	9/17/2008	
γ γ			·				v				
E-mail Address.	norvella.a	dams@dvn	n.com								

Accepted for record NMOCD

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

| INDICATE FORMATIONS TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE
| Northwestern New Mexico | 1. Penn "B" | 7. Canyon | 7. Ojo Alamo | 7. Penn "B" | 7. Kirtland-Fruitland | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | 7. Penn "C" | rn New Mexico Yates Queen 1218' 1572' 2072' T Penn "D" T. Leadville Grayburg San Andres T Atoka T Miss T. Pictured Cliffs T Cliff House Tubb 4824 Devonian T. Menefee T. Point Lookout Γ. Madison 6016 Abo Silunan Γ Elbert Montoya Simpson T Mancos T. Gallup . McCracken Wolfcamp 7682 Cisco Ignacio Otzte Strawn 9513 McKee Base Greenhorn Granite Atoka 9628 Ellenburger T. Dakota Gr Wash Delaware Sand Morrow 9828 T. Morrison Morrow Clastics T. Todilto Lower Morrow 10104 Bone Springs Entrada Wingate T. Wolfcamp T Penn Chinle Permian T Cisco (Bough C) T. Penn "A' OIL OR GAS SANDS OR ZONES IMPORTANT WATER SANDS Include data on rate of water inflow and elevation to which water rose in hole No 2, from . feet No. 3, from .. . to.... feet LITHOLOGY RECORD (Attach additional sheet if necessary)

From	То	Thicknes In Feet	Lithology	From	То	Thickness in Feet	Lithology
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Form 3160-4 (February 2005)

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مناسمتن		UNITED STATES
	- 4	DEPARTMENT OF THE INTERIOR
		BUREAU OF LAND MANAGEMENT

OCD-ARTERIA	_ FORM APROVED
OCD ARTERIA	EXPIRES. March 31, 200

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	· · ·	Non.		RECOMPLET		RIANDL	_06				\perp			NM-42410		
1a. Type of Well Oil Well Gas Well Dry Other SWD- Order 1135 b Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.,								6 1	f Indian	, Allottee	or Tribe Na	me				
Other								7	Unit or	CA Agre	ement Name	and No				
DEVON ENERGY PRODUCTION COMPANY, LP								8 L	ease N	lame an	d Well No					
3 Address		orth Broadw	/av		3a P		(includ i-552-8		ode)		9	API We	II No.	Federal T 1		
D. Tarakan	Oklahoma (City, OK 731	02-8260								- 1			30-015-2640	4009	2
At Surfa		rt location cie	ang in ad	cordance with	-ederai red	quirement	S)"				10.	rieia a		, or Explorate Ifcamp and		9613
At top r	rod Interval re	ported balavi		0 FNL 990 FEL	-						11.		, R, M	, on Block ar	nd	
]		boyten pelow									[•	12 18S 27E		
At total	Depth										12.		y or Pari ddy	sh 13. Sta	ate NM	
								9/15/08			f					
14 Date S	pudded		15 Date T I) Reached	16. D	ate Comp		9/13/90	-		17	Elevat	ions (DF	R, RKB, RT, (GL)*	
	6/28/1990			25/1990	_ _		J D & A	A ☑ Rea	dy to Pr					34' KB; 3618		
18. Total D	epth: MD TVE		7600'	19. Plug Ba	ack T.D.	MD TVI		6142'		20	Depth	Bridge	Plug Se	et: MD		177
21 Type E			.ogs Run (Su	omit copy of ea	ch)				22 W				✓ N		Submit a	nalysis)
DI 1 1105-	ani na										ST run'		✓ N		Submit r Submit c	
23. Casing	, SDL_DSN (o and Liner Rec	riginal logs) ord (Report a	ll strings set i	n well)					Dir	ectio	nal Su	rvey?	∠_N	o Li Yes (JUDINIL C	ohy)
		1				Cementer							ry Vol			
Hole Size 17-1/2"	Size/Grade 13-3/8"/LT&C	Wt (#/ft)	Top (MD)	Bottom (MD)) <u> </u>	epth	No	of Sks &	S Type (Cem	ent	(B	BL)	Cement To Surf	p* Amo	ount Pulled
12 1/4"	8-5/8"/J55	32		2589'					0 Sx					Surf	_	
7-7/8"	5-1/2"/LT&C	17		9473'					0 Sx					Surf		
4 3/4"	4" / L80	10.46	 	10,141'	_			8	0 Sx					9055'		
24. Tubing	Record	1				1								L		
											T					
3 1/2" IF		n Set (MD) 6789'	Packer Dept 6789	h (MD) Size	Dep	th Set (MD	D) -	Packer [Depth (N	AD)	+	Size	Depti	Set (MD)	Packer I	Depth (MD)
25 Produc	ing Intervals	0103	L			erforation										
	Formation		Тор	Bottom		Perforate	d Interv	/al	Si	ze	+-	lo. Hole	es	Per	Status	
Wolfcamp			6868'	7360'	6868′-	7360'					1	140 Open for SWD				
Cisco			7893'	7840'	7893-	7840'						228 Open for SWD				
Morrow			10,008'	10,054	10.005	3-10,054'							Δh	andoned		
MOTOW		 -	10,000	10,034	10,000	3-10,034					+		- 	andoned		
													[
D. 27 Acid, F	racture, Treatm	ent Cement	Squeeze Etc													
7,0,0,	Depth Interva						Amo	unt and	Type of	Mate	erial					
	7893-8060'		Frac - 5040	gals 15% HCl a	icid and 12	20,372 ga	ls Spe	ctra Star	2500 +	167	,552 #	100% V	Vhite 20	/40 sand.		
				7												
	7758-7840'		Frac - 4500	gals 15% Spea	rhead acid	d and 119	,255 ga	als Speci	tra Star	250	0 + 10	6,750 #	100% V	/hite 20/40 s	and.	
]													
28 Produc	tion - Interval A															
Date First		Hours	Test					Oil Gi	ravity							
Produced	Test Date	Tested	Production	Oil BBL	Gas MCF	Water	BBL	Corr.	API	<u> </u>	Sas Gr		PPT I	Production		
NA		24								Ļ	AU	UEP	EU	FOR RE	COKL	1
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water	BBL	Gas · O	ıl Ratıo	Wel	Satu	DA	VII) H. (JUE-	CCA
		1		1				#DI\				S	FP 2	9 2008		
28a. Produ Date First	ction - Interval	B Hours	Test					Oil Gi	ravity							+
Produced	Test Date	Tested	Production	Oil BBL	Gas MCF	Water	BBL	Corr.			as Gr			Productio		
														R. GLASS M ENGIN		

Choke Size	Tbg. Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BI	BI G	es : Oil Ratio	Well Status			
- 0.20	11119 01	039 11033	24111 1000	Oli BBC	Cas Wici	vvater bi	100	as On Italio	VVeil Status			
(See instru	ctions and space	es for addition	nal data on reve	rse side)					<u> </u>			
	iction - Interval (
Date First Produced	Test Date	Hours Tested	l est Production	Oil BBL	Gas MCF	Water Bi		Oil Gravity Corr. API	Gas Gravity]	Production Method	
		100104		OII DDL	Odd Mior	viater bi		0011.741	ous oravity		Troduction Michied	
Choke Size	Tbg. Press. Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BI	al Ga	e : Oil Ratio	Well Status			
			24711 Kate	OHIDDE	Cas MCI	VValci Di	JE GE	3 . Oil Italio	VVCII Otatus			
28c Produ Date First	iction - Interval D	Hours	Test					Oil Gravity				
Produced	Test Date	Tested	Production	Oil BBL	Gas MCF	Water Bf		Corr. API	Gas Gravity		Production Method	
Choke	Tbg Press.											
Size	Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water Bi	BL Ga	s : Oil Ratio	Well Status			
/C												
			nal data on reve lel, vented, etc)	rse side)				,				
L i .		·									·	
30 Summa	ry of Porous Zor	nes (Include	Aquiters).				31 Fo	rmation (Log	i) Markers			
			d contents there									
	including depth ind recoveries.	interval teste	ed, cushion used	, time tool o	pen, flowing	and shut-in						
L Source C	and recoveries.											
Fo	rmation	Тор	Bottom	Descrin	tions, Conte	nts etc			Name		Top Meas Depth	
-	dioii	100	Dottom	Везопр	tions, oone	ina, cto	Yates		Ttallio		476'	
ĺ			[Queen Graybu	ıra.			1218' 1572'	
1			}				San An				2072	
							Tubb				4824' 6016'	
		1	`				Abo Wolfcar	mp			7682'	
			1				Cisco	•			8912'	
							Strawn Atoka				9513' 9628'	
							Morrow				9828'	
}							Morrow Lower N	Clastics			9965' 10104'	
							LOWEI	VIOITOVV			10104	
l							1					
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32 Addition	nal remarks (incl	ude plugging	n procedure)				L				<u> </u>	
July 1	iai remants (mon	ado piagging	g procedure).									
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20 100/2010	which items have	o boon atta	obad by alasias	abaal in th		in hav			. <u> </u>			
133 maicale	which items hav	re been allac	ched by placing a	a check in ti	е арргорпа	le box						
Electri	cal/Mechanical (.ogs (1 full s	et req'd)		Geologic Re	port	DST R	Report	Directional Surve	у		
Sund	ry Notice for plue	going and ce	ement verification		Core Analys	ıs 🔽	Other	Wellbor	e Schematic			
									ailable records (see	attached i	instructions)*	
·												
Name (Plea	se print)		Norvella	Adams		Title	Э	5	Gr. Staff Engineering	g Technicia	an	
**	1		1	16	$\overline{\downarrow}$							
Signature	Section 100 and	Title 29-LIX	C. Section 1212 W	lake it a crime	for any neren	Date on knowlingly		9/17/2		ency of the	United States any false,	
			tations as to any m							,, 5, 6,6		
								-				

Form 3160-5 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR

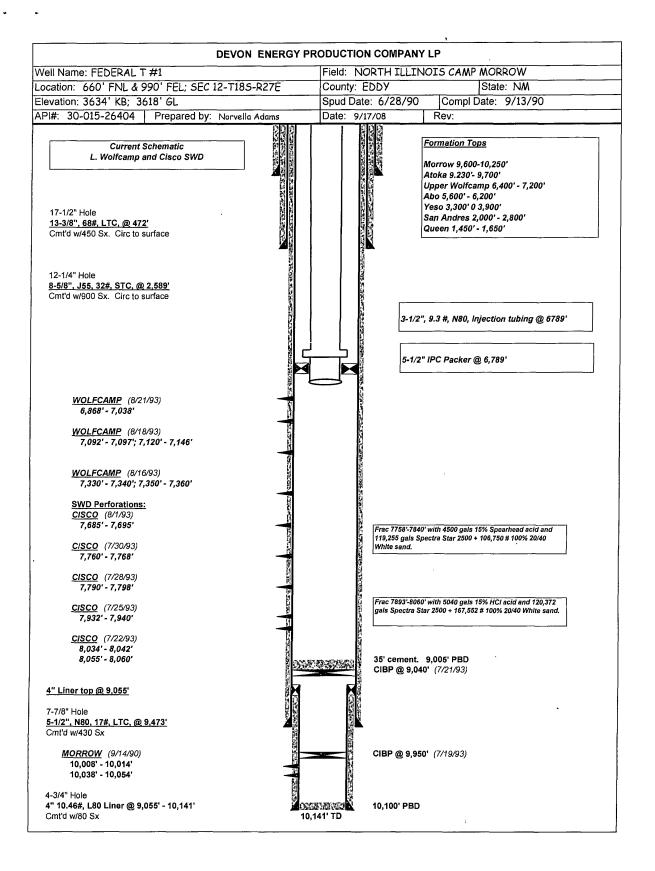
FORM APROVED OMB NO. 1004-0137 EXPIRES: March 31, 2007

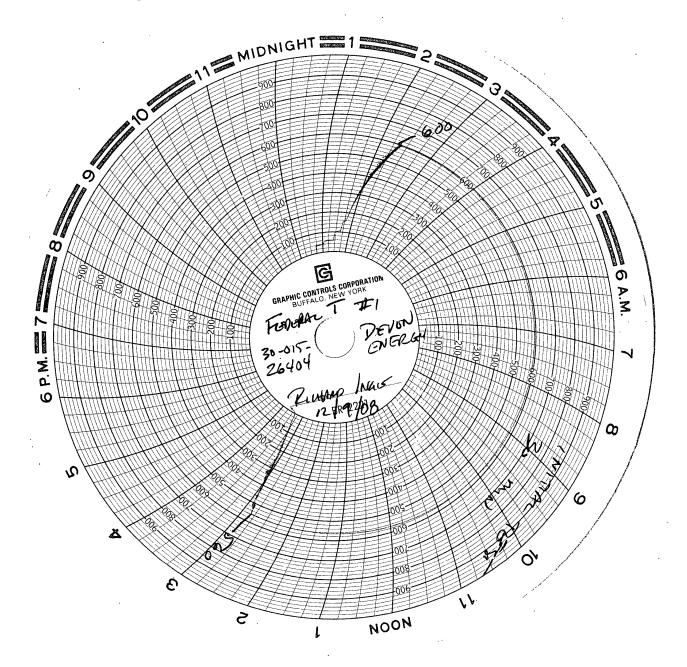
BUREA	EXPIRE	S: March 31, 2007			
SUNDRY NOT	5 Lease Serial No				
Do not use this form abandoned well. Us	6. If Indian, Allottee	NM-42410 or Tribe Name			
SUBMIT IN TRIP	LICATE - Other instructions on	page 2		Ì	
Type of Well				7. Unit or CA Agree	ement Name and No.
Oil Well Gas We	II Other SWD convers	ion. Admin Order SWD-1	135	8 Well Name and N	lo .
2. Name of Operator					Federal T 1
DEVON ENERGY PRODUC	TION COMPANY, LP	T		9 API Well No	
3a, Address		3b. Phone No. (include a	rea code)		0-015-26404
20 North Broadway, Oklahoma City, OK 73102 405-552-8198				10. Field and Pool,	or Exploratory Area
4 Location of Well (Footage, Sec., T., I	R., M, or Survey Description) 2 18S 27E			L.Wol 11. County or Paris	fcamp and Cisco
000 FNE 930 FEE A F	2 103 21 2			,	·
40.0050	ADDDODDIATE DOV() TO	INDICATE MATURE OF M	OTIOS DEDO	Eddy	NM NM
TYPE OS SUBMISSION	APPROPRIATE BOX(es) TO		OTICE, REPO	RI OR OTHER DAT	Α
	Acidize	Deepen	Production	n (Start/Resume)	Water Shut-Off
☐ Notice of Intent	Alter Casing	Fracture Treat	Reclamati		Well Integrity
✓ Subsequent Report	Casing Repair	New Construction	Recomple		Other
Final Abandonment Notice	Change Plans	Plug and Abandon Plug Back	☐ Temporar	ily Abandon	
13 Describe Proposed or Completed Operations (C	Convert to Injection			<u>' </u>	ximate duration thereof If the proposal
despen directionally or recomplete horizontally, give sit the Bond No on file with BLM/BIA Required subsequi interval, a Form 3160-4 shall be filed once testing had determined that the site is ready for final inspection)	ibsurface location and measured and true ent reports shall be filed within 30 days fo	e vertical depths of all pertinent man llowing completion of the involved of	kers and zones. All perations of the op	ltach the Bond under which peration results in a multiple	the work will be performed or provide completion or recompletion in a new
8/04/08 RU unit. ND wellhead and NU 8/05/08 Drill CIBP at 6800' and 7078'. 8/06/08 Drilled through cement at 7525 bbls at 3 bbls/min – 170# psi, pumped 50 bbls at 3 bbls/min – 170# psi, pumped 50 bbls at 3 bbls/min – 170# psi, pumped 50 bbls at 3 bbls/min – 170# psi, pumped 50 bbls at 3 bbls/min – 170# psi, pumped 51 bbls at 3 bbls/min – 170# psi, pumped 51 bbls at 3 bbls/min – 170# psi, pumped 51 bbls at 70 bbls a	c', CIBP at 7300' and cement at bbls at ½ bbl/min – 0# psi, pur 50 bbls at 4 bbls/min – 250 psi. ection in the Wolfcamp at 150 E 5', and 7780'. ' and 8000'. Circulate hole and 060', total 140 holes. TiH and satch onto packer. Release pace 2'. NU frac valve. s 15% Spearhead acid + 119,2 acker and tubing. Bailed sand to 8460'. TOOH at packer at 6789'. ND BOP an ubing and set at 6789'. Injection	7560' and CIBP at 7595'. sped 50 bbls at 1 bbl/min -: BWPD at 170 psi. TOH with tubing and bit. set packer at 7688'. Frac with the packer at 7688' See and TOOH with packer 55 gals Spectra 2500 + 100 with tubing. ND BOP and d NU tree Ran MIT test to	with 5,040 gals and tubing. R 5,750 # 20/40 NU flange. Wi 500 # for 30 r	15% HCl + 120,372 U wireline and perfor 100% White sand. R aiting on tubing.	gals Spectra Star 2500 + ate Cisco from 7758'-7840';
14. I hereby certify that the foregoing is tr	ue and correct				
Name · Norvella Adams	Title	Sr. Staff Engineering	Technician		
Signature	Date	9/17/2008			
LACCEPTED FOR RE	CORHS SPACE FOR F	EDERAL OR STATE	OFFICE U	SE	
Approved by	R. GLASS				
	Title			Date	
SEP 2 9 2008	3	Acc	cepted to	r record	
Conditions of approval, if any are attached	d. Approval of this	710	NMOC	:D	`
notice does not warrant or cortify that the equitable title to those And I in the subject	applicant holds legal or		-		`

equitable title to those notified in the subject lease which would entitle the applicant to conduct or oberations thereon.

Office

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





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

State of New Mexico
Energy, Minerals and Natural
Resources

Form C-145 Permit 124456

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

Change of Operator

	itor Information	New Operator Information			
		Effective Date:	Effective on the date of approval by the OCD		
OGRID:	6137	OGRID:	277558		
Name:	DEVON ENERGY PRODUCTION COMPANY, LP	Name:	LIME ROCK RESOURCES II-A, L.P.		
Address:	20 N Broadway	Address:	1111 Bagby Street		
	25.00		Suite 4600		
City, State, Zip:	Oklahoma City, OK 73102	City, State, Zip	Houston, TX 77002		
		,	L.P. certifies that it has read and understand		
		,			
	nopsis of applicable rules.	,			
	nopsis of applicable ules.	New Ope			
the following sy	nopsis of applicable ules.	New Ope	rator		
Previous Opera	nopsis of applicable ules.	New Ope	rator		
Previous Oper: Signature: Printed Name: Davi	nopsis of applicable rules.	New Ope Signature Printed	c. Tim Miller Chief Occarting Officer		
Previous Oper: Signature: Printed Name: Davi Title: Davie	ator d S. Frank	New Ope Signature Printed Name: Title:	The Miller		
Previous Operations Signature: Printed Name: David	d S. Frank — Attorney-in-Fact	New Ope Signature Printed Name: Title:	c. Tim Miller Chief Occarting Officer		
Previous Operations Signature: Printed Name: David	d S. Frank — Attorney-in-Fact	New Ope Signature Printed Name: Title: Date:	c. Tim Miller Chief Occarting Officer		

C-145 Page 2 of 3

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

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

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

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

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

C-145 Page 3 of 3

19.15.26.11 NMAC. I understand that when there is a continuous one-year period of non-injection into all wells in an injection or storage project or into a saltwater disposal well or special purpose injection well, authority for that injection automatically terminates. See 19.15.26.12 NMAC. I understand that if I transfer operation of an injection well to another operator, the OCD must approve the transfer of authority to inject, and the OCD may require me to demonstrate the well's mechanical integrity prior to approving that transfer. See 19.15.26.15 NMAC.

- 9. I am responsible for providing the OCD with my current address of record and emergency contact information, and I am responsible for updating that information when it changes. See 19.15.9.8.C NMAC. I understand that I can update that information on the OCD's website under "Electronic Permitting."
- 10. If I transfer well operations to another operator, the OCD must approve the change before the new operator can begin operations. See 19.15.9.9.B NMAC. I remain responsible for the wells and related facilities and all related regulatory filings until the OCD approves the operator change. I understand that the transfer will not relieve me of responsibility or liability for any act or omission which occurred while I operated the wells and related facilities.

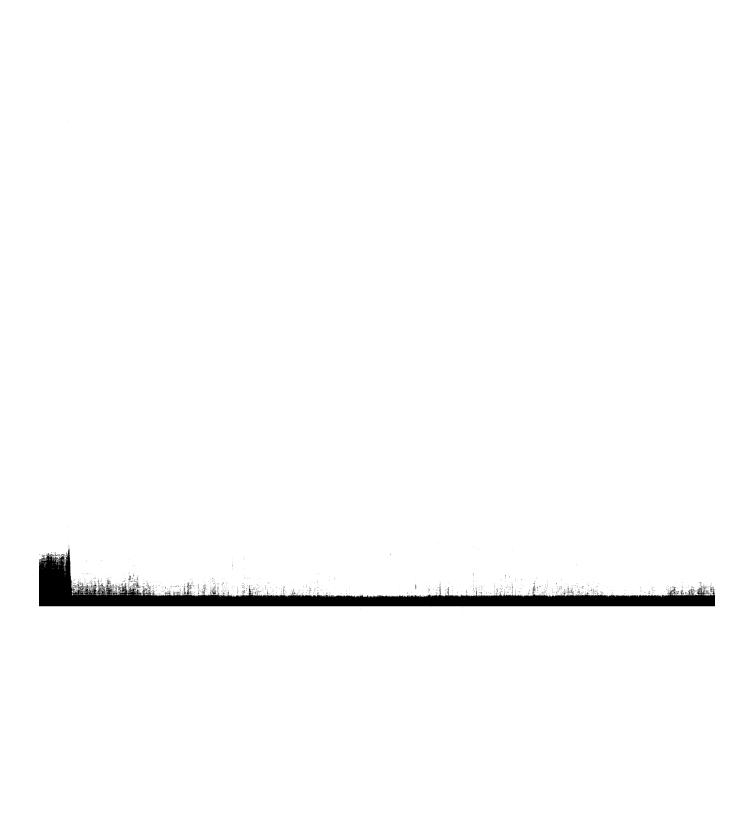


NAVAJO REFINING COMPANY Map ID No. \\ Artificial Penetration Review

- A3	
OPERATOR Navajo Refining Co.	STATUS Active Injection
LEASE WDW	LOCATION Sec. 2 -T18S-R27E
WELL NUMBER 2	
DRILLED 5-05-99	MUD FILLED BOREHOLE NA
PLUGGED NA	TOP OF INJECTION ZONE 7270'
	API NO. <u>30-015- 20894</u>
REMARKS: Top of Cement behind s	5/2" @ surface
	133/8"@ 40' 85/8"@ 1995' W/800 sx
To: 10372'	Tbg @ 7523' Pkr @ 7523'- 7528' Perfs: 7570'-8399' 5'/2" @ 8869' W/1570 sx mt plug: 9675'-9775'

50-015-2089

PROP 23592
pool 969/8
Navajo (Injecting) Permo-Penn





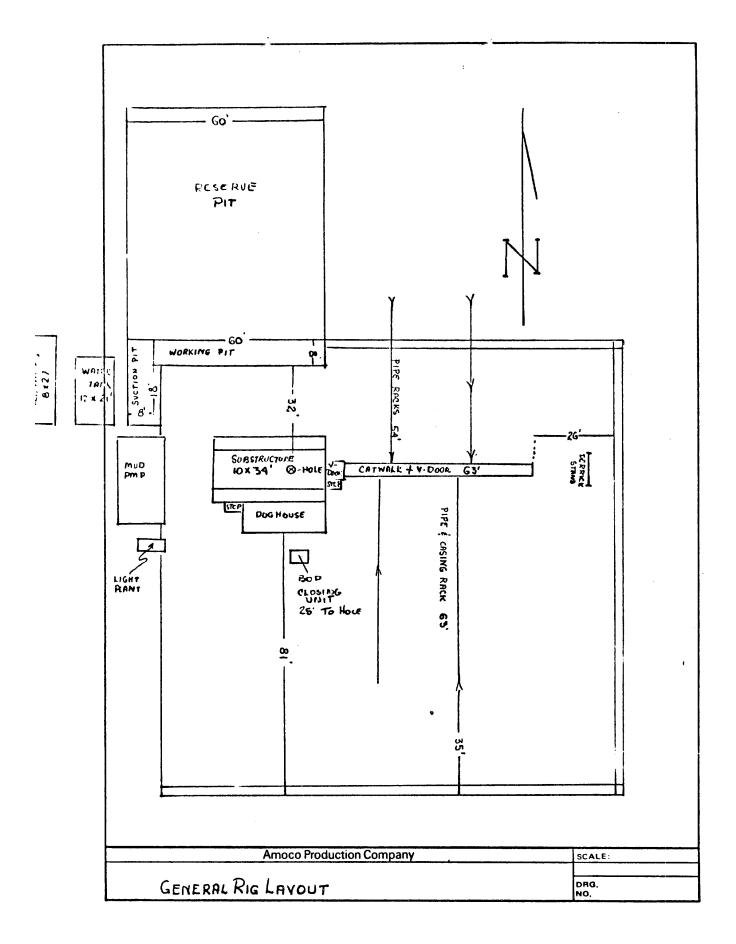
9-26-85 COMPENSATED Heytron

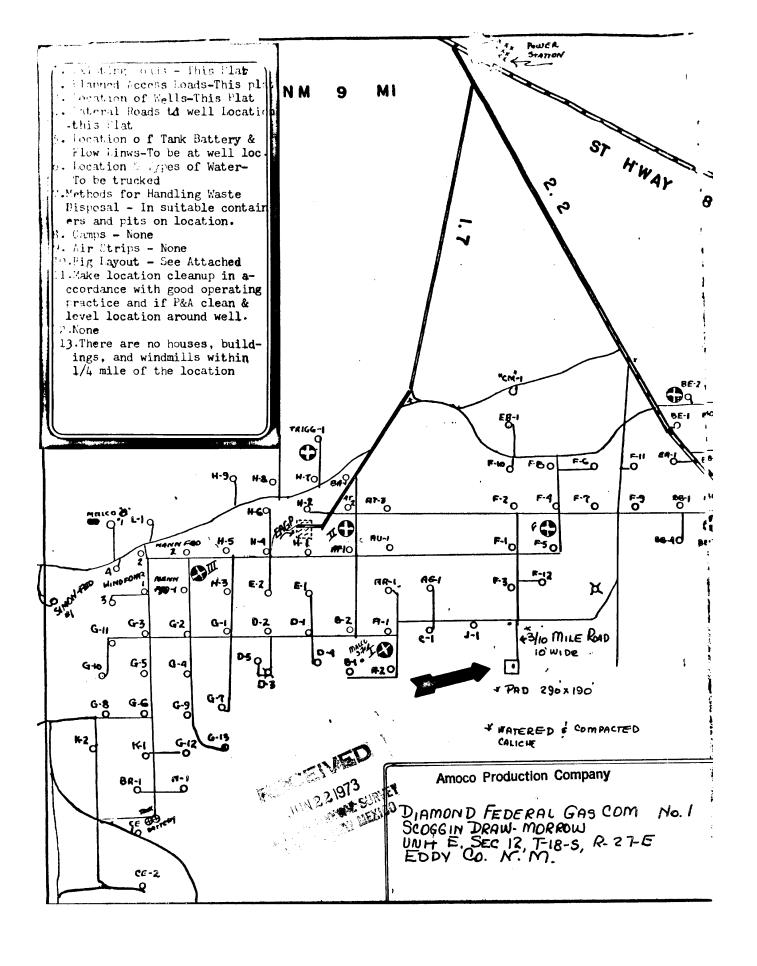
SURF-1768

5-13-99

MSG GAMMA COLLAR COL LOG

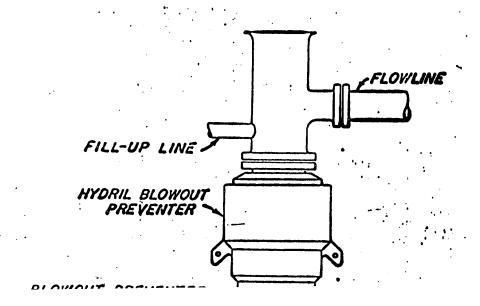
SURF - 1910 1





DIOWOUT PREVENTER HOOK-UP FOR DRILLING BELOW INTERMEDIATE CASING

- 1. BLOWOUT PREVENTERS AND MASTER VALVE TO BE FLUID OPERATED AND ALL PITTINGS MUST BE IN GOOD CONDITION (MINIMUM: WP 3000 PSI, TEST 6000 PSI).
- 2. EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS THE INSIDE DIAMETER OF CASING THAT IS BEING DRILLED THROUGH.
- 3. KELLY COCK REQUIRED (MINIMUM: 3000 PSI WP, 6000 PSI TEST)
- 4. OMSCO OR COMPARABLE SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUB. (MINIMUM: 3000 PSI WP, 6000 PSI TEST)



drilling into the <u>Wolfcamp formation</u>
and used until production casing is run and cemented. Monitoring
equipment shall consist of the following:

- (1) A recording pit level indicator to determine pit volume gains and losses.
- (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
- (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
- 6. When coming out of the hole with drill pipe, the annulus shall be filled with mud before the mud level drops below 150 feet. The volume of mud required to fill the hole shall be watched, and any time there is an indication of swabbing, or influx of formation fluids, proper blowout prevention precautions must be taken. The mud shall not be circulated and conditioned except on or near bottom, unless well conditions prevent running the pipe to bottom.
- 7. A copy of these requirements shall be posted on the rig floor or in the dog house during the drilling of the well.

James A. Knauf District Engineer

 Lease No.
 NM-6852

 Well
 Amoco Production Co.
 1-Diamond Federal Gas Com.

 Drillsite
 1980/N 660/W 12-18S-27E

 Depth
 10,000 Morrow

 Approved
 July 6, 1973



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U Artesia, New Mexico 88210

June 22, 1973

NOTICE

DRILLING WELL CONTROL REQUIREMENTS FOR DEEP WELLS DRILLED ON FEDERAL OIL AND GAS LEASES IN THE ARTESIA DISTRICT

The following requirements are established in accordance with 30 CFR 221.24, 221.36, and 221.37. Blowout preventer equipment, choke equipment, drilling fluid characteristics, drilling fluid monitors, and the conduct of drilling procedures shall be such as are necessary to prevent the blowout of any well. In addition to all other applicable rules, regulations, and accepted good operating practices, drilling shall be in accordance with the following safety requirements:

- 1. After setting the 8-5/8 inch casing string and before drilling into the Wolfcamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report. In addition, the pipe rams and bag-type preventer shall be actuated at least once each 24 hours and the blind rams each time the drill pipe is out of the hole.
- 2. Accumulators shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers.
- 3. A drill string safety valve in the open position shall be maintained on the rig floor at all times while drilling operations are being
- 4. Blowout prevention drills shall be conducted as necessary to insure that each drilling crew is properly trained to carry out emergency duties.
- 5. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before

U...TED STATES

20-0	15-20	874
5. LEASE DE	SIGNATION AN	D SERIAL NO.
1/1	1 /0	_

DEPARTMENT OF THE INTERIOR	5. LEASE DESIGNATION
GEOLOGICAL SURVEY	NM-60
THE PERSON OF THE PERSON OF THE PACK	6. IF INDIAN, ALLOTTE

APPLICATI	ON FOR PERMIT	TO DRILL, DEEPE	N, OR PLUG E	ACK	6. IF INDIAN, ALLOTTER OR TRIBE NAME
a. TYPE OF WORK	DRILL 🛛	DEEPEN	PLUG BA	ск □	7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL WELL	GAS WELL OTHER	RECE Isi	ALE MULTIP	LE [NAMOND TEDERAL GAS UN 8. farm or Lease Name
Amoco Pro	duction Company	JUL9 1	973		9. WRLL NO.
ADDRESS OF OPERA	TOR BS, N. M. 88240			7 /	10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL At surface	(Report location clearly and	ARTESIA, UI	TILE)	SCOGG IN DRAW MORROW 11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod.	LX 660 FAL	Sec. 14 wha	L, OHAMA)	12-18-27 NMPM
4. DISTANCE IN MI	ES AND DIRECTION FROM NEA	REST TOWN OR POST OFFICE			EDDY N.M.
10. DISTANCE FROM I LOCATION TO NEA PROPERTY OR LEA	AREST ASE LINE, FT.	16. NO	OF ACRES IN LEASE		F ACRES ASSIGNED IIS WELL 320
18. DISTANCE FROM TO NEAREST WEI	drlg. unit line, if any) PROPOSED LOCATION* A., DRILLING, COMPLETED,		POSED DEPTH		RY OR CABLE TOOLS
OR APPLIED FOR, OF 21. ELEVATIONS (Show	whether DF, RT, GR, etc.)	1 1	0,000	1 10	22. APPROX. DATE WORK WILL START*
3607	GL				7-1-73
23. 		PROPOSED CASING AND	CEMENTING PROGR	AM	
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	a:	QUANTITY OF CEMENT
7 1/8"	1 1/2	95-116	10000	SUE	FICIENT TO FILL
				500'	ABOUE UPPERMOST
BOP pro Mud Ao O- 100 1000-900 IN ABOVE SPACE DES zone. If proposal is preventer program, 24.	gram attack gram: Gram: O Natikl O Min. gr pration CRIBE PROPOSED PROGRAM: If s to drill or deepen direction	nucle Water unality tou proposal is to deepen or pally, give pertinent data of	lug back, give data on p n subsurface locations a	oresent produind measured	ations made, y in altempting L sales factory uctive zone and proposed new productive is and true vertical depths. Give blowout
PERMIT NO.	<u> </u>		APPROVAL DATE	IUL 6	1973
APPROVED BY	Co Bra	TITLE PIS	TRICT ENGINEER		DATE JUL 6 1973
USGS- ACT DIV SUSP ERY	Subject to at Notice" dute	Washer	On Reverse Side		
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JUL 1 0 1973

P. O. Brawer W Artesia, New Mexico 88210 O. C. C. ARTESIA, OFFICE

July 9, 1973

Mr. Jim York Amoco Production Company Post Office Box 68 Hobbs, New Mexico 88240

Dear Mr. York:

This is to confirm my telephone conversation with you today whereby we requested that the 8-5/8-inch casing string be set in the top of the San Andrea formation (approximately 2,000 feet below the surface) in your No. 1 Diamond Federal Gas Com. well on lease NM-6852 in the SWANWA sec. 12, T. 18 S., R. 27 E., N.M.P.M., Eddy County, New Mexico.

Sincerely yours,

WAY BOLL JAMES A. ANGLEY

James A. Knauf District Engineer

cc: Roswell N.M.O.C.C. (2)

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JUL 1 0 1973

D. C. C.

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3. ADDRESS OF OPERA			JUL 2 5 1973	9, wko.	No.
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See also space 17 At surface		,	O. C. U. ARTESIA, OFFICE	la U	IN DRAW- MORROW
IORN' ENI	v 660 FW	L SEC. 12 (UNI	,	11. SEC.,	T., Ř., M., OR BEK. AND RVEY OR ABKA
				12-	18-27- NMPM
4. PERMIT NO.		361)7 GL	3623 R.D	_	DY N.M.
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TEST WATER SHO	NOTICE OF INTENT	CLL OR ALCER CASING	WATER SHUT-OFF	SUBSEQUENT REPOR	TOF:
FRACTURE TREAT		ULTIPLE COMPLETE	FRACTURE TREATM		ALTERING CASING
SHOOT OR ACIDIZI		BANDON*	SHOOTING OR CID	udding	ABANDONMENT*
(Other)			Completion	ort results of muliplor Recompletion Repo	rt and Log form.)
 DESCRIBE PROPOSE proposed work, nent to this wor 	O OR COMPLETED OPER If well is direction k.) •	ATIONS (Clearly state all perti- ally drilled, give subsurface b	nent details, and give pertin ocations and measured and t	ent dates, including rue vertical depths fo	estimated date of starting any or all markers and zones perti-
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				U.	S 05 2 4 1973
				A	S. GEOLOGICAL SURVEY
·)	٦				GEOLOGICAL SURVEY MEXICO
8. I hereby certify t	hat the foregoing is	true and correct	DMINISTRATIVE ASSIS	N-441-	
SIGNED J	- your	111111	DIMINISTRATIVE ASSIS	DA	TE JUL 2 3 1973
	ederal of State offic	(正) \			
CONDITION OF	APPORT A	NY:	, ,,	DA	TE.
USGS- ABT	1111 24	1973			
SUSP \	BEE	KMAN TENGIN ER See Instructi	ons on Reverse Side		
- ARCO	ACTING DISTRI	OT ENUL			
- mac /\					

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AUG 1 1973

Drawer 1857 Boswell, New Mexico 88201

0.0.0 article ::

July 24, 1973

Assoco Production Company Attention: Mr. Joe W. Burkee P. O. Box 3092 Houston, Texas 77001

Gentlemen:

Enclosed are three approved copies of communitization agreement No. Com. Agr.-SW-760 involving 320 acres of land in Federal leases New Mexico 6852 and 6853, Eddy County, New Mexico.

The agreement communitizes all rights as to dry gas and associated liquid hydrocarbons producible from the Morrow formation in the Wk sec. 12, T. 18 S., R. 27 E., N.M.P.M., and is effective as of June 20, 1973.

You are requested to furnish all interested principals with appropriate evidence of this approval.

Sincerely yours,

CARL C. TRAYWICK
Acting Area 011 and Gas Supervisor

cc:
BLM, Santa Fe (w/cy agr.)
Artesia (w/cy agr.)
Rondeau

JMonro: 15

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JUL 23 1973 U. S. BEOLOGICAL SURVEY ARTIESTE, NEW MEXICO

N. M. O. C. C. CORY

Form 9-330 (Kev. 5-63) SUBMIT IN DUPLICAL & Form approved.
Budget Bureau No. 42-R355.5. UNITED STATES DEPARTMENT OF THE INTERIOR structions on reverse side) 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY NM-6852 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG* WELL WELL 7. UNIT AGREEMENT NAME DRY Other L TYPE OF COMPLETION: DIAMOND FED. GAS COM RESUR. Other ECEIVED WORK DEEP- OVER EN PLUG DACK NEW D 2. NAME OF OPERATOR Amoco Production Company SEP 2 4 1973 9. WELL NO. 3. ADDRESS OF OPERATOR
BOX 68, HOBBS, N. M. 88240 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements ARTESIA, OFFICE 1980 FNL X 660 FWL Sec 12. (UNIT F, SELL NW4) 12-18-27 NMPM At total depth EDDY 14. PERMIT NO. DATE ISSUED N.M. 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 8-27-73 VD | 21. PLUG, BACK CABLE TOOLS P4A O-TD TOP, BOTTOM, NAME (MD AND TVD) WAS DIRECTIONAL SURVEY MADE NONE No WELL CORED DUAL IN CASING RECORD (Report all strings set in well) SIE ONIBA CEMENTING RECORD DEPTH BET (MD) AMOUNT PULLED 878 955 *80*0 5x NONE LINER RECORD 30 TUBING RECORD BIZE TOP (MD) BOTTOM (MD) BACKS CEMENTS SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED PRODUCTION DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL-BBL. GAS-MCF. FLOW. TUBING PRESS. CASING PRESSURE 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) 35. LIST OF ATTACHMENTS 36. I hereby certify that the toyegoing and attached information is complete and correct as determined from all available records TITLE ADMINISTRATIVE ASSISTANT

DI3- USGS-ART 1- W7

SIGNED

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

DATE _

1- DIV I- RRY

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be both, pursuant to applicable Federal and/or State laws, or regional procedures and paretices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on terms 22 and 24, and 33, below regarding separate couptis for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formashound be listed on this form, see item 33.

Hen 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 should be listed on this form, see item 33.

Hens 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 and in item 25 and in item 25 and in item 25 and in item 25 and in item 25 and in item 25 and in item 25 and in item 25 and in item 25 and in item 25 and 24 above,)

Hens 25 "Neacks Center": Attached supplemental records for his vell ata pertinent to such interval.

Hens 25 "Neacks Center": Attached supplemental records for his well should show the details of any multiple stage cementing and the location of the cementing tool.

Hens 35: Submit a separate completion report on this form for each interval to be separately produced. (See Instruction for items 22 and 24 above.)

TRUE VERT. DEPTH TOP MEAS. DEPTH GEOLOGIC MARKERS OLFCAMP TEAUN ABO · · NAME CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING AND SHUT-IN PRESSURES, AND RECOVERIES DESCRIPTION, CONTENTS, ETC. 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTAT ZONES OF PORSEIT AND CONTENTS THERROF:

SPETH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING BOTTOM ğ FORMATION AOMINISTE a choise and became he 871-233

UN ID STATES SUBMIT IN TRIP (Other Instructions of THE INTERIOR verse side)

NM - C COZ

GEOLOGICAL SURVEY

the not use this form for propos.	CES AND REPORTS ON WELLS this to drill or to deepen or plug back to a different reservoir. TION FOR PERMIT- " for such proposals."	6. IF INDIAN, ASSOCIATION SAME
No. 1 WELL OTHER	DRILLING - DRY HOLE	DIAMONO FEUTUROUS
2. Amoco Production Comp	DEDELL	8. FARM ORE NA
BOX 68, HCBBS, N. M. 88240	SEP 1 2 1973	9. WELL NO.
4. SERS OF WELL (Report location of See also space 17 below.) At surface	C. C. ARTESIA, OFFICE	SCOGGIN DICH I MICROW 11. SEC. T. R. M. O'T LIER AND
1980 FNLX 660 FW	L Sec. 12 (Unit E, SE/4 MW/4)	12-18-27 NMPM 12. COUNTY OR PARISH 13. STATE
14. EFEMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 3623 R.D.B.	EDDY N.M.

Amoco Production Company	RECEIVED	8. FARM OR LAE NA IS
3. A. RESS OF OPERATOR	SED 1 0 1070	9. WELL NO.
BOX 68, HCBBS, N. M. 88240	SEP 1 2 1973	10. FIELD AND POOL OF SILDCAT
See also space 17 below.) At surface	_	SCOGGIN DIETH MURROW
	O. C. C. ARTESIA, OFFICE	11. SEC., T., R., M., OR LEEK, AND SURVEY OR ABEA
1980 FNLX 660 FWL Sec. 12	(Unit & SELA NIVIA)	SCAVAL OR ALLIA
	•	12-18-27 NMPM 12. COUNTY OR PARISH 13. STATE
	(Show whether DF, RT, QR, etc.) 3623 R.D.B.	EDDY N.M.
		
	To Indicate Nature of Notice, Report, or	
NOTICE OF INTENTION TO:	#UBS	EQUENT REPORT OF:
PULL OR ALTER CAS	· · ·	REPAIRING WELL ALTERING CASING
FRACTURE TREAT SHOOT OR ACIDIZE ABANDON®	FRACTURE TREATMENT SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL CHANGE PLANS	(Other)	
(Other)	(Note: Report rest Completion or Reco	nits of multiple completion on Well mpletion Report and Log form.)
17. 10.80 RIBE PROPOSED OR COMPLETED OPERATIONS (Clearly 8 proposed work. If well is directionally drilled, give	state all pertinent details, and give pertinent da subsurface locations and measured and true ver	tes, including estimated date of starting any citcal depths for all markers and zones perti-
nent to this work.) *		
Nulled to a TD of 10,3	3/2 WEERRU LNOO	intering or
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* Propose to P+ 11 as for	ollows: ament P	lugg - Class H
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Location to be Clear	red & levelled.	SURFIL
, -		ARTESIA, NEW BEXICO
		ARTESIA, OLD
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1. I hereby certify that the foregoing is true and correct		
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1 NED	TITE AREA LING.	DATE
This space for Federal or State office use)	1	•

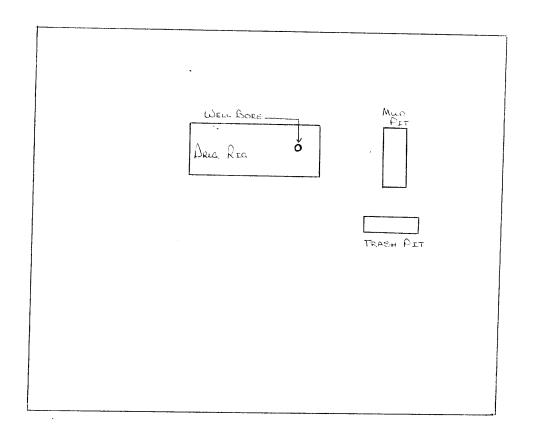
1. I hereby certify that the foregoing is	TITLE AREA ENGINEER	DATE AUG 3 : 1973
This space for Federal or State offi	ce use)	
APPROVED BY	NEVED TITLE	DATE
TADPR	1 1973	•
1- DIV SEP	EKMAN *See Instructions on Reverse Side	
1- RRV ATING DI	BEEKMAN See Instructions on Reverse Side	

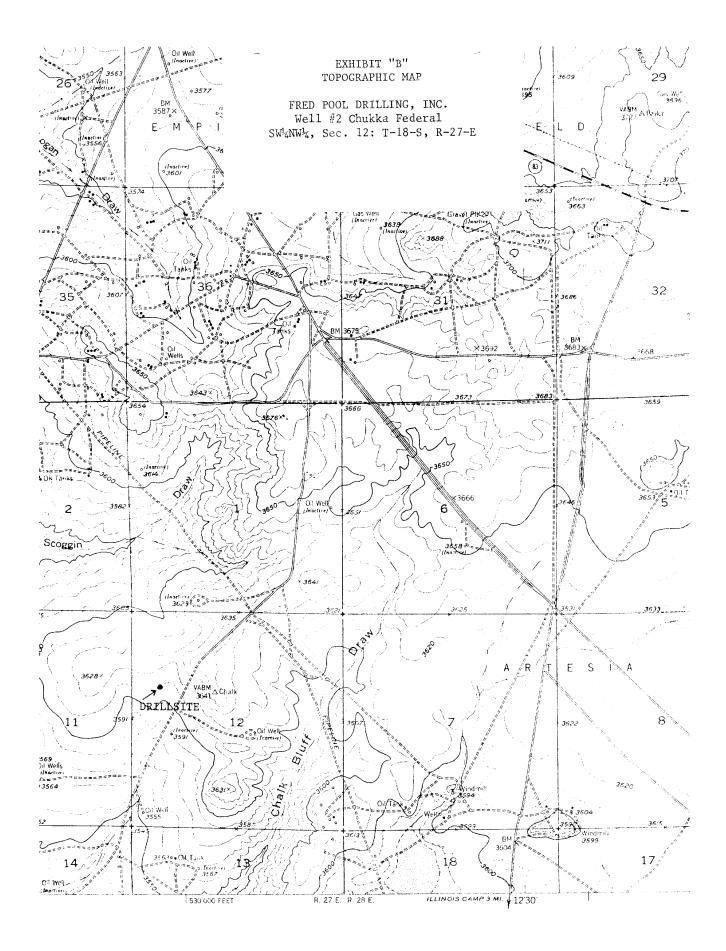
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Form 9-331 (May 1963)	UN DEPARTMEN I	D STATES OF THE INTE	1	SUBMIT IN TRIPI	CIE+ 5. Lea	SE DESIGNATION	
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OIL CAS WELL	OTHER	DOY !	HOIF		Dan	DOND FET	GAS (
2. NAME OF OPERATOR				SEP - 6 1974	(8, ty	M OR LEASE NAM	(I
Amoco Producti	on Company		•	SEF 01374			
3. ADDRESS OF OPERATOR				o. c. c.	9. WE	LL NO.	
BOX 68, HOBBS, 1	1. M. 88240	and in accordance with	any StateA		10. F	ELD AND FOOL, O	R WILDCAT
See also space 17 below At surface	.)				Sec	GGIN DR	AW-MAR
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SHOOT OR ACIDIZE	ABANDO	I 1		(Other)		ABANDONME	
REPAIR WELL (Other)	L CHANGE	B PLANS		(Norz: Report re	sults of mul	tiple completion	on Well
17. DESCRIBE PROPOSED OR proposed work. If	OMPLETED OPERATION	s (Clearly state all per	rtinent deta				
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18. I hereby certify that	le foregoing is true	and correct		-wiwer Accibtak	Mr	5.50 1	
SIGNED	- you	MAN TITLE	ADMINIS	rrative assistan		DATE _SEP_	5 1973
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CONDITIONS OF TE	PROVAL, IF ANY:	TITLE				Date of the control o	1 153
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-DIV \)	Som			_			
- Susp \ (1	A. C. BEEKNIAN	YEER See Instru	ctions on	Reverse Side	•		
- RRY) ACT	ING DISTRICT						
- ARCO /							

EXHIBIT "D" SKETCH OF WELL PAD

FRED POOL DRILLING, INC.
Well #2 Chukka Federal
SW4NW4, Sec. 12: T-18-S, R-27-E







SUPPLEMENTAL DRILLING DATA

FRED POOL DRILLING, INC.
WELL #2 CHUKKA FEDERAL
SW¹4NW¹4, SEC. 12, T-18-S, R-27-E
EDDY COUNTY, NEW MEXICO

- 1. SURFACE FORMATION: Artesia Group of Permian Age. (Elev. 3607')
- 2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Yates 275' Grayberg 1650' Seven Rivers 475' Queen 1225'

3. ANTICIPATED POROSITY ZONES:

Water - Above 300' Oil - 1500-2500'

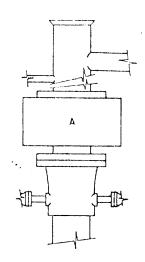
4. CASING DESIGN:

 $\frac{\text{Size}}{85/8"} \qquad \frac{\text{Interval}}{0-2000}, \qquad \frac{\text{Weight}}{32\#} \qquad \frac{\text{Grade}}{}$

- 5. SURFACE CONTROL EQUIPMENT: Control head.
- 6. CIRCULATING MEDIUM: KCL water.
- AUXILIARY EQUIPMENT: None considered necessary on this shallow development well.
- 8. TESTING, LOGGING AND CORING PROGRAM: No coring or DST's are planned.

 Electric logs will include an cement bond log and a Compensated Neutron
 Log with Gamma Ray.
- 9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.
- 10. ANTICIPATED STARTING DATE: It is planned that operations will commence about August 31, 1985. Duration of drilling, completion and testing operations should be one to five days.
- 11. RE-ENTRY DETAILS: Drill out cement plug at top of casing. Clean hole to plug at 1945' with tubing. Pressure test casing to be sure it does not leak. Run cement bond log from 1945' to surface. Perforate the Penrose section from 1450' to 1470' acidize and swab test.

BLOWOUT PREVENTER ARRANGEMENT FRED POOL DRILLING, INC. WELL #2 CHUKKA FEDERAL SW4NW4, Sec. 12, T-18-S, R-27-E EDDY COUNTY, NEW MEXICO



ARRANGEMENT A

OIL CONSERVATION DIVISIC

STATE OF NEW MEXICO

P. O. BOX 2088

Form C-102 Revised 10-1-78

ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 37501

The state of the s

		All distances mui	t be from the outer bour	daries of the Section	m.	×	
Operator			Lease			Well No.	
	Drilling, Inc		Chukka F	ederal	2		
Unit Letter	Section	Township	Range	County			
, E	12	18-S	27-E	Ed	ldy		
Actual Footage La							
1980 Ground Level Elev			and 660	feet from the	West	line	
	. Producing Fo	rmation	Pool		D	edicated Acreage:	
3607		· · · · · · · · · · · · · · · · · · ·	Artesia		l_	40 Acres	
1. Outline t	he acreage dedica	ited to the subject	t well by colored	encil or hachur	e marks on the	plat below.	
2. If more to interest a	than one lease is	dedicated to the	well, outline each	and identify the	ownership ther	eof (both as to working	
3. If more the dated by	communitization, a	initization, force-p	o is dedicated to the pooling. etc?		interests of a	ll owners been consoli-	
this form No allowa	if necessary.) ble will be assign	ed to the well unti	l all interests have	been consolida	ted (by commu	d. (Use reverse side of	
forced-poo	oling, or otherwise)	or until a non-sta	ndard unit, eliminat	ing such interes	ts, has been ap	proved by the Division.	
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9 330 000	80 1320 1650 1940					ļ	

		Drawer DD ED tSTATES	(Other instru	uctions on side)	-	No. 42-R1425
o o o 1005	DEPARTMENT	OF THE INTE	RIOR		5. LEASE DESIGNATION	AND SEBIAL NO.
UG 3 0 1985	GEOLOG	GICAL SURVEY			NM-6852	
&PPŁIGATIO:	n or permit t	O DRILL, DEEI	PEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
ARTESIA, OFFICE	X	DEEPEN 🗍	PLUG BA	ck 🗆	7. UNIT AGREEMENT N.	AME
b. TYPE OF WELL			single 🗀 Multi			
	WELL OTHER Re	entry	ZONE ZONE		8. FARM OR LEASE NAM	_
Fred Pool Dri	lling, Inc.				Chukka Federa 9. WELL NO.	<u>aı</u>
ADDRESS OF OPERATOR	10 D11 N M	00001			2 10. FIELD AND POST, 9	h Witness
. LOCATION OF WELL (I	3, Roswell, N.M. Report location clearly and		State requirements.*)	X	Artesia dil	Pood
At surface 1980' FNL & 6	60' FWT.				11. SEC., T., R., M., OR E	BLK.
At proposed prod. zo	ne		(Unit E)			
4. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST OFF	(SW ¹ 4NW ¹ 4)		Sec. 12, T-18	5-5, R-27- 13. state
	east-southeast o			1.5	Eddy	NM
5. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OR LEASE	RT LINE, FT.	660'	NO. OF ACRES IN LEASE	то т	of acres assigned his well 40	
8. DISTANCE FROM PRO	posed Location*		PROPOSED DEPTH		RY OR CABLE TOOLS	
OR APPLIED FOR, ON TH		1650'	1945'		Rotary	
1. elevations (Show w)	hether DF, RT, GR, etc.)				22. APPROX. DATE WO	BK WILL START*
3.		RÖPOSED CASING A	ND CEMENTING PROGR	RAM	0 31 03	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	TT
444	8 5/8"	32#	2000	Circ		
12/4" 010	· · · //			-		
	an alas					
Cog, _				1		
This is a re-	entry of Diamond	l Fed. Gas Com	#1 plugged and	abando	ned 8-31-73.	
This is a re-	entry of Diamono	l Fed. Gas Com		 abando <i>O_j 372</i>		
This is a re-	entry of Diamond	l Fed. Gas Com				
			<i>8</i> 70: ,	10; 372		
	attached are: 1)	Well locati		/ <i>0_,372</i> dicatio		
	attached are: 1) 2) 3)	Well locati Supplementa Surface use	ØTD: , on & acreage de l drilling data plan	/ <i>0_,372</i> dicatio		
	attached are: 1) 2) 3) 4)	Well locati Supplementa Surface use Designation	OTD: , on & acreage de l drilling data plan of operator	/ <i>D,372</i> dicatio	n plat	on Co
	attached are: 1) 2) 3)	Well locati Supplementa Surface use Designation Original ap	ØTD: , on & acreage de l drilling data plan	/ <i>O_, 3 7 2</i> , dicatio	n plat	on Co.
	attached are: 1) 2) 3) 4)	Well locati Supplementa Surface use Designation Original ap	OTD: , on & acreage de l drilling data plan of operator proved applicat	/ <i>O_, 3 7 2</i> , dicatio	n plat	on Co.
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A N ABOVE SPACE DESCRIB	attached are: 1) 2) 3) 4) 5)	Well locati Supplementa Surface use Designation Original appropriation	OTD: on & acreage del drilling data plan of operator proved applicat d Federal Gas Co	dicatio	n plat Amoco Productio	Post HV,
A ABOVE SPACE DESCRIB one. If proposal to to reventer program if a	attached are: 1) 2) 3) 4) 5)	Well locati Supplementa Surface use Designation Original appropriation	OTD: on & acreage del drilling data plan of operator proved applicat d Federal Gas Co	dicatio	n plat Amoco Productio	Post HV,
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A ABOVE SPACE DESCRIB one. If proposal to to reventer program if a	attached are: 1) 2) 3) 4) 5) BE PROPOSED PROGRAM: If p	Well locati Supplementa Surface use Designation Original app for Diamono	OTD: on & acreage del drilling data plan of operator proved applicat d Federal Gas Co	dicatio	n plat Amoco Productio	d new productive
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N ABOVE SPACE DESCRIB- ione. If proposal is to reventer program if an	attached are: 1) 2) 3) 4) 5) BE PROPOSED PROGRAM: If podrill or deepen directional my.	Well locati Supplementa Surface use Designation Original app for Diamono	on & acreage del drilling data plan of operator proved applicat defended Federal Gas Complug back, give data on on subsurface locations a	dicatio	n plat Amoco Production ductive zone and proposed d and true vertical depth	d new productive

*See Instructions On Reverse Side

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

Form 9-331 (May 1963)	DEPARTMENT O	STATES F THE INTERIG		Form approved. Budget Bureau No. 42-R14 5. LEASE DESIGNATION AND SERIAL NO. NM 6852
(Do not use t	JNDRY NOTICES AI	ND REPORTS O or to deepen or plug ba PERMIT—" for such pro		6. IF INDIAN, ALLOTTEE OR TRIBE NAM
OIL XX GAS WELL			SEP 11 1985	7. UNIT AGREEMENT NAME
FRED POOl 3. Address of operation	OL DRILLING, INC.		O. C. D. ARTESIA, OFFICE	8. FARM OR LEASE NAME Chukka Federal 9. WELL NO.
P.O.Box 4. Location of Well See also space 17 At surface 1980 ØN Unit E	, (Report location clearly and i below.)	11, N.M. 8820 n accordance with any S) 1 tate requirements.*	2 10. FIELD AND POOK OR WHLDCAT A Artesia 011 Pool 11. SEC., T., R., M., OR BLE. AND SUBVEY OR AREA C. T. J. C. D. O. T.
14. PERMIT NO.		TIONS (Show whether DF, F	T, GR, etc.)	Sec. 12-T 18S- R 27 12. COUNTY OR PARISH 13. STATE Eddy NM
16.			ture of Notice, Report,	
TEST WATER SHU FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PROPOSE	MULTIPLE CO ABANDON* CHANGE PLAN	OMPLETE	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) (NOTE: Report re Completion or Re	REPAIRING WELL ALTERING CASING
9-	Stringers Tagged No back to I water.	s of cement of the contract of	f surface from to 50 ft. 1912 ft. Púl rculated hole perforate wel	led tubing with fresh
				St. P. O. J. P. C. S. S. S. S. S. S. S. S. S. S. S. S. S.
18. I hereby certify th	at the foregoing is true and co	orrect		The state of the s
SIGNED	enta Goal	TITLE C	erk	DATE 9-6-85
APPROVED BY _	APPROVAL, IF ANY	TITLE		DATE
	SEP 10 1985			

*See Instructions on Reverse Side

CAPITRAD, NELL WILKICO

roim 3-551 (May 1963)	DEPART	U ED ST MENT OF T GEOLOGICAL	HE INVERS	OIL COMEMIT COMPRES DOTHER Instruction. OF Verse side) S12, MM 88210	CATE*	5. LEASE DESIGN). 42-R1424 SERIAL NO.
	SUNDRY NOT	ICES AND	REPORTS N	ON WELLS back tREGENEENTroposals.)		NM 68		TRIBE NAME
	GAS OTHER	re-ent	ху	SEP 18 1985		7. UNIT AGREEM	ENT NAME	
Fred Po	ol Drilling.	Inc.		O. C. D.		8. FARM OR LEAS		1
	1393 Rosy FLL (Report location cl 17 below.) FNL 660 FWI	early and in acco				9. WELL NO. 2 10. FIELD AND P Artes 11. SEC., T., R., & SURVEY OF		
14. PERMIT NO. 30015	20894	15. ELEVATIONS	(Show whether DF	, RT, GR, etc.)		Sec, 12-		STATE
16.	·			lature of Notice, Repor	, or Ot	Eddy her Data		NM,
	EAT M DIZE A		TE	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZE (Other)	results of	ALTER ABAND multiple compl	RING WELL, ING CASING DONMENT* etion on We og form.) d date of si arkers and a	ll arting any cones perti-
	Perforations Acidized wit gallons Vers 12,000 # 10/	14 sho h 1000 g agel; 30	ots. allons N	nd 1459-62 E 15%; and30,0 /40 sand and	00			
	Pumping well	back to	test.			SE, 7, 3 703	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
18. I hereby certify	that the foregoing is that the foregoing is the second of	rue and correct	TITLE Vic	ce - president		DATE9	-11-85	<u></u>
	Federal or State office	*		_				
APPROVED BY CONDITIONS (ACCEPTED FOR APPROVAL, OF AN	RECORD	TITLE			DATE		
	SEP 16	1985						

*See Instructions on Reverse Side

CARISBAD, NEW MINICO

				IJ.v.	awer	To in		1.100				<i>U16</i>
RECEIVED B	Y	۔ اب	- JITED	Ar STA	tesia TES	· NM sub	1219,	N DU	ATE*	1	Form	approved. et Bureau No. 42-R855.5
	DEPAR							stru	ctions on			ATION AND SERIAL NO
SEP 23 198	5	GEO	LOGIC	AL SU	RVEY	/		reve	rse side)	NM 68		ALION AND BEALED NO
	MPLETION	LOB	DECO	AADI ET	ION	DEDODT	• 4 6	10.10	C *			OTTEE OR TRIBE NAME
12 RTESTA O DIME			GAS	MIFLEI	ION				G	-		
b. TYPE OF COI	W	L X	WELL	r	ORY L	Other RE	-en	try		7. UNIT AGE	REEME	NT NAME
NEW WELL		EP-	PLUG BACK	DIF	F. SVR.	Other				S. FARM OR	LEAS	E NAME
2. NAME OF OPERA	ATOR				· · · · · · · · · · · · · · · · · · ·	Other				-		
	Pool Dri	11ir	ıg, Inc				ġ.,			9. WELL NO		Federal
3. ADDRESS OF OP		_	1	1 17	W 00	0.01	1. ye	4.7		-	2	
4. LOCATION OF W	Box 1393	ion clea	(OSWel	1, N.	M. 88	201	uiram as	1 to \ 8	·			OR WILDOAT
	980 FNL66					it E	an emer		4.			OIL POOL
	terval reported b		111 01	1.4 1111.7	, 011	TU D				OR AREA	۱,	,
1446- f	•						. 45	., • =		Sec. 1	2 - T	18S-R27E
At total depth				1 14 10	RMIT NO.		D. 177	ISSUED		12. COUNTY		110
1912 ft	•				15208			30-85		PARISH Eddy	OR	13. STATE
5. DATE SPUDDED	16. DATE T.D.	REACHE	D 17. DAT	TE COMPL.	(Ready t		·		DF, RKB,	RT, GR, ETC.)*	19.	NM ELEV. CASINGHEAD
-30-85	9-6-85		9-	10-85				07 GR	,	,,	,	3607 GR
0. TOTAL DEPTH, MO			T.D., MD &	TVD 22	HOW M	TIPLE COMP	L.,	23. INT	ERVALS LLED BY	ROTARY TO		CABLE TOOLS
1912 ft 4. PRODUCING INTE		912.			N			l	→	х		
1446-14		COMPL	ETION-TO	P, BOTTOM,	NAME (MD AND TVD	,-					25. WAS DIRECTIONAL SURVEY MADE
Penrose												No
6. TYPE ELECTRIC		RUN									27.	WAS WELL CORED
Compensa	ated Neut	ron										no
S. CASING SIZE	WEIGHT, LB.	/nm 1	CAS DEPTH SI			oort all strin	gs set i					
		/ 1.		er (MD)	·	1 "	-		IENTING			AMOUNT PULLED
8 5/8	32#_		2000		· 	1	-	circu	late	а		0
							-		······································			
9.		,	RECORD	 				30.		TUBING REC		
SIZE	TOP (MD)	BOTTO	M (MD)	SACKS CI	EMENT*	SCREEN (MD)	SIZE	_	DEPTH SET (M		PACKER SET (MD)
				ļ				2 3	/8	1804 ft		
1. PERFORATION RE	COBD (Interval, s	ize and	number)			32.	AC	ID, SHOT	FRACT	URE, CEMEN	T SOL	IEEZE, ETC.
1//6-50	C 5					DEPTH I		r (MD).				MATERIAL USED
1446-56 1459-62	ft. 14	hol	es			1446	-56		100		NE	15%, 30,00
1439 02	10.		CD			1459	-62		gal	. Versa		
									20/		<u>;1</u> 2	2,000# 10/2
3.*					PROI	OUCTION			san	.d.		
ATE : IRST PRODUCT	TION PROD	UCTION	METHOD (Flowing, g		umping—size	e and t	ppe of pun	np)	WELL	STATE	's (Producing or
9-12-8	5 Pı	ımpi	ng							shu	t- $in)$	cing
ATE OF TEST	HOURS TESTED	CI	ng ioke size	FROD'I	N. FOR PERIOD	OIL-BBL.		GAS-MC	CF.	WATER—BBL	. Jul	GAS-OIL RATIO
9-12-85	24		DOC		>	31		TST		C		
40#	40#	24	LCULATED -HOUR RAT	e ont-i		GAS-	-MCEO	TED FF	W.KE	CRO D		GRAVITY-API (CORR.)
4 U i. 34. disposition of (fuel, v	ented, etc.)		31	1	STM	9	$\frac{0}{100}$	TEST WITNES		5 5 TV
			, ,					3441	777	THE MITTING	الاستدر	, .

TITLE Vice President

DATE 9-13-85

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

Compensated Neutron log, mailed 9-10-85

vented 35. LIST OF ATTACHMENTS

SIGNED Senta

NSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be ant/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not field prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formability and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations.

If not field prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formability and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations.

If not are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State farm 15 forms and state are not otherwise shown) for depth measurements given in other spaces on this form and name(s) (if any) for only the interval reported in item 22, and in item 24 show the producting for each additional interval. (page) on this form, adequately produced, showing the additional data pertinent to such interval.

If no 25 and 24 above.)

If no 25 and 24 above.)

	đ	TRUE VERT, DEPTH					<u>.</u>	
GEOLOGIC MARKERS	TOP	MEAS. DEPTH						
os. GEOLU		NAME			•			
DELTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.		Caliche and red bed Salt, red bed and anhydrite. Dolomite and anhydrite Sand dolomite	dolomite				
UNED, TIME TOOL	ROTTOM		65 1100 1365 1570	1912				
The second secon	TOP	•	0 65 1100 1365	1570				
	FORMATION		Queen &	TD	<u> </u>			

GPO 680-147

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683-636

NERGY AND MINERALS DEPARTMENT		ATION DIVIS JN	Form C-104 Revised 10-1-7 8
TANTA PE	SEP 18 1985		
TO AMEPORTER OIL V	O. C. D.	OR ALLOWABLE AND ISPORT OIL AND NATURAL G	AS
T. PRONATION OFFICE Cyefalat			
Fred Pool Drill	ling, Inc.		
P.O. Box 1393 Reason(s) for liling (Check proper bo	Roswell, N.M. 8820	Other (Please explain	n.)
Re-ent			VIGHEAD GAS MUST NOT BE
Recompletion Change in Ownership	OII Dry (Casinghead Gas Cond	== 1	ED AFTER : 10-24-85
If change of ownership give name and address of previous owner		UNLE	SS AN EXCEPTION FROM L. M. IS OBTAINED
I. DESCRIPTION OF WELL AND	1 CACC		T. TIL. 10 ODIAINED
Chukka Federal	well No. Pool Name, Including 2 Artesia 011	Formation Kind of State, I	f Lease Lease Federal 6852
Location Unit Letter E : 19	80 Feet From The North L	100 00 00 00	- m []
		27E , NAIPM,	From The West Eddy Co.
. DESIGNATION OF TRANSPOR	TER OF OIL AND NATURAL G	AS_	
Navajo Crude Oi	or Condensate	Box 159 Artesia,	approved copy of this form is to be sent) N. M. 88210
hane of Authorized Transporter of Co	stinghead Gas () of Dry Gas [Address (Give address to which	approved copy of this form is to be sent)
Phillips Petrol	Unit Sec. Twp. Rge.	Bartlesville, Ok	la.
If well produces oil or liquids, give location of tanks.	E 12 18S 27E	no	1
!! this production is commingled w. COMPLETION DATA	ith that from any other lease or pool,	, give commingling order number	
Designate Type of Completi	on - (X) Oil Well Gas Well	New Well Warkover Deeps	en Plug Back Same Hesty, Diff. R
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
8-30-85 Lievations (DF, REB, RT, GR, etc.)	9-10-85 Name of Producing Formation	1912 ft.	1912 ft. Tubing Depth
GR 3607	Penrose	1446 ft.	1804
Ferta 1446-56 1459-62	••		Depth Casing Shoe
100 5 50 5		D CEMENTING RECORD	
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
			0.1
	1375	1864	10-2 9-27-85
. TEST DATA AND REQUEST F	OR ALLOWABLE (Test must be a		d oil and must be equal to or A. E. R. 109 c
Cate First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump,	cas lift, etc.)
9-12-85	9-12-95 Tubing Pressure	Dumping Casing Pressure	Choke Size
24 hrs.	40#	40#	none
31 bbls	31	0	TSTM
CAR WELL			
GAS WELL Actual Prod. Teet-MCF/D	Length of Test	Bble. Condensate/MMCF	Gravity of Condensate
TSTM	24hrs.	TSTM	_
Testing Hethod (pilot, back pr.)	Tubing Pressure (Shut-in)	Cosing Pressure (Shut-in)	Choke Size none
CERTIFICATE OF COMPLIANCE	CE .	OIL CONSER	vation division 24 1985
I hereby certify that the rules and r Division have been complied with		AFFROVED	Original Signed By
shove is true and complete to the		-BY	Les A. Clements
		II	to a parameter 11

DIMIC OF MEAN MICHIGO

Senta Joal
(Signature)
Vice President
(Title)
9-16-85
(Da(*)

TITLE _____Supervisor District Li

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

If this is a request for allowable for a newly drilled or deep-well, this form must be accompanied by a inhulation of the devia tests taken on the well in accordance with MULE 111.

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

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

Separate Forms C-104 must be filed for each pool in mult nompleted wells.

RECEIVED BY

OCT 3 - 1985

O. C. D.

FRED POOL, JR.

September 25,1985

P. O. Box 1393 Roswell, NM 88201

New Mexico Energy and Resources Board P.O.Box 2088 Santa Fe, N.M. 87501

RE: Chukka Federal No. 2° Lease No. 6852 SW/4 NW/4 Sec. 12-18S-27E Eddy County, N.M.

Gentlemen,

Please be advised that the above well was spudded on 8-3-85 and completed as a producing well on September 10,1985. This well was potentialed at 31 barrels per day of oil and gas was TSTM.

All necessary records and logs have been filed with the appropriate offices.

Sincerely,

Penta Pool

OIL CONSERVATION DIVISION

Drawer DD

Artesia, NM.

DISTRICT OFFICE #2

Sept. thru Dec. 1985 NO. 2058 N

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE September 24, 1985

PURPOSE _____

ALLOWABLE ASSIGNMENT - NEW OIL

Effective September 12, 1985 an allowable of 31 barrels of oil per day is hereby assigned to Fred Pool Drilling, Incorporated, Chukka Federal #2-E-12-18-27 in the Artesia Queen Grayburg San Andres Pool.

L - F

MP - P

Sept. Total - 589 bbls. Oct. Total - 961 bbls. Nov. Total - 930 bbls. Dec. Total - 961 bbls.

> Form. - Penrose Perfs. - 1446' - 1462' Comp. - 9-10-85 TD - 1912'

LAC:fc

Fred Pool Drlg., Inc.

nrc Pp

OIL CONSERVATION DIVISION

DISTRICT SUPERVISOR

The state of the s

BUREAU OF LAN	THE INTERIOR (Other lastract. on red) D MANAGEMENT	Budget Bureau No. 1004-0135 Expires August 31, 1985 5. LEASE DESIGNATION AND BERIAL NO NM 6852 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	D REPORTS ON WELLS r to deepen or plug back to a different reservoir. ERMIT—" for such proposals.)	
1.	RECEIVED	7. UNIT AGREEMENT NAME
WELL X GAS WELL OTHER 2. NAME OF OPERATOR		8. FARM OR LEASE NAME
THE EASTLAND OIL COMPANY	OCT 19 '90	CHUKKA FEDERAL
3. ADDRESS OF OPERATOR		9. WELL NO.
P. O. DRAWER 3488, MIDLAND, TX 1. LOCATION OF WELL (Report location clearly and in See also space 17 below.)	79702 O. C. D. accordance with any State requirements. ARTESIA, OFFICE	2 10. FIELD AND POOL, OR WILDCAT
At surface UNIT LETTER E, 1980 FT. FNL ANI RG. 27E, EDDY CO., NM	D 660 FWL, SECTION 12, TS 18S,	ARTESIA Q-G-SA 11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
RG. 27L, EDDI CO., NM		SEC. 12, TWP 18S, RGE. 27E
)	ONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
30-015-20894		EDDY NM
16. Check Appropriate B	ox To Indicate Nature of Notice, Report, or C	Other Data
NOTICE OF INTENTION TO:		UENT REPORT OF:
proposed work. If well is directionally drilled, nent to this work.)*	PLETE FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) CHANGE OF OI (NOTE: Report results	of multiple completion on Well letion Report and Log form.)
		RECEIV OCI 17 11 09 CARI AREA
		EIVED 190

*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.

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

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

OCT 18'90 OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

RECEIVED

ن, ت, ۵. REQUEST FOR ALLOWABLE AND AUTHORIZATION OFFICE DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 TO TRANSPORT OIL AND NATURAL GAS Well API No. Operator 30-015-20894 THE EASTLAND OIL COMPANY Address O. DRAWER 3488, MIDLAND, TEXAS 79702 Other (Please explain) Reason(s) for Filing (Check proper box) Change in Transporter of: New Well Dry Gas Oil Recompletion EFFECTIVE 09/01/90 Casinghead Gas Condensate XChange in Operator FRED POOL DRILLING, INC., P. O. DRAWER 1393, ROSWELL, NM 88201 If change of operator give name and address of previous operator II. DESCRIPTION OF WELL AND LEASE Lease No. 6852 Well No. | Pool Name, Including Formation Kind of Lease MINE, Federal MANDEX Lease Name ARTESIA Q-G-SA 2 CHUKKA FEDERAL Location West 660 North -1980Feet From The Feet From The Line and Unit Letter. **EDDY** 27E **18S** County NMPM 12 Township Section III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS Address (Give address to which approved copy of this form is to be sent) Name of Authorized Transporter of Oil or Condensate BOX 159, ARTESIA, NM 88210 NAVAJO CRUDE OIL PURCHASING Address (Give address to which approved copy of this form is to be sent)
BARTLESVILLE, OK Name of Authorized Transporter of Casinghead Gas or Dry Gas $\left(\times \right)$ PHILLIPS PETROLEUM ls gas actually connected? When? Twp. Unit Sec. If well produces oil or liquids, 18S 27E NO 12 give location of tanks. Ε If this production is commingled with that from any other lease or pool, give commingling order number: IV. COMPLETION DATA Plug Back Same Res'v Diff Res'v Deepen New Well | Workover Gas Well Oil Well Designate Type of Completion - (X) Total Depth P.B.T.D. Date Compl. Ready to Prod. Date Spudded Top Oil/Gas Pay Tubing Depth Name of Producing Formation Elevations (DF, RKB, RT, GR, etc.) Depth Casing Shoe Perforations TUBING, CASING AND CEMENTING RECORD SACKS CEMENT DEPTH SET CASING & TUBING SIZE HOLE SIZE

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 ho

OIL WELL Producing Method (Flow, pump, gas lift, etc.) Date First New Oil Run To Tank Date of Test posted ID-3 10-26-90 Casing Pressure Tubing Pressure Length of Test Water - Bbls. Oil - Bbls. Actual Prod. During Test

GAS WELL Gravity of Condensate Bbis, Condensate/MMCF Length of Test Actual Prod. Test - MCF/D Choke Size Casing Pressure (Shut-in) Tubing Pressure (Shut-in) Testing Method (pitot, back pr.)

VI. OPERATOR CERTIFICATE OF COMPLIANCE

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

911111S Signature REED PRODUCTION SUPERINTENDENT OIL CONSERVATION DIVISION

OCT 2 3 1990 Date Approved

By_ **ORIGINAL SIGNED BY** MIKE WHITAMS

INVATO MPPD	. 1.0000-1-11	II processor or commercial services
Printed Name	Title	Title SUPERVISOR DISTRICT II
10/08/90	915/683-6293	,
Date	Telephone No.	

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

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

State of New Mexico Energy, Minerals & Natural Resources

Revised March 12, 1999

Appropriate District Office
State Lease - 6 Copies

Fig. Lease - 6 Copies

District II

CONSERVATION DIVISION

Submit to Appropriate District Office

6 Rd., Azicc, N	IM 87410		20 Sa	040 South Panta Fe. NM	acheco (19 ²⁰ 87505(8	²¹²² 23≥	\$25°			e Lease - 6 Copies c Lease - 5 Copies
heco, Santu Fe	, NM 87505				1 1 1	-	120			NDED REPORT
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District L

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources Department

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Form C-102 Revised March 17, 1999

District II

811 South First, Artesia, NM 88210

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

Property Code

OGRID No.

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505 Submit to Appropriate District Office

State Lease - 4 Copies

AMENDED REPORT

3607' GR

Fee Lease - 3 Copies

District IV 2040 South Pacheco, Sunta Fe, NM 87505

API Number

30-015-20894

WELL LOCATION AND ACREAGE DEDICATION PLAT

Lower Wolfcamp-Cisco-Canyon Injection Zone

'Property Name

WDW-2

'Operator Name

'Elevation

10 Surface Location

Navajo Refining Company

						Datings i	DO04-10-1			
T		Section	Township	Kunge	Lot Idu	Feet from the	North/South line	Feet from the	Fast/West line	County
UL or lo	t no.	Section						660	West	Eddy
	E	12	18S	27E		1980	North	000	West	Dady

11 Bottom Hole Location If Different From Surface

			200	COLLE LIVE	o Detaile II I				6 1
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
			1					•]	. •
" Dedicated Acres	13 Joint of	Infill "C	onsolidation (ode 15 Or	der No.				4

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

	NON-STANDA	ard unit has been	APPROVED BY TH	E DIVISION
\bigcap				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
1980'				
				Signature David Mose Printed Name Darrell Mose e
← 660' → •			·	Tille Env Mgy. For Water + Waster Date 4/21/99
				INSURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plouted from field notes of actual surveys mude by me or under my supervision, and that the same is true and correct to
		·	# 11 m	the best of my belief. Date of Survey
			; ;	Signature and Seal of Professional Surveyor: Well is active. Location was not re-surveyed by Navajo.
				Certificate Number

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505 (505) 827-7133 Fax: (505) 827-8177



(PLEASE DELIVER THIS FAX)

To: TIM GUMM - ARTESIA OCO JAX 748-9720
From: WAYNE PRICE - OCD SE
Date: 4/30/99
Number of Pages (Includes Cover Sheet)
Message: APPRIVED BOND FOR NAVATO WOW #2
CLASS I INSECTION WELL (COPY)
If you have any trouble receiving this, please call: (505) 827-7133

OIL CONSERVATION DIVISION 2640 South Pacheco Street Santa Fe, New Mexico 87605 (505) 827-7131

April 19, 1999

CERTIFIED MAIL RETURN RECEIPT NO. Z 559 573 590

J.S. Ward & Son, Inc. 104 South Fourth Street Artesia, New Mexico 88210-2195

Attention:

Mr. Gary Sims

Re:

Navajo Refining Company Discharge Plan UIC-CLI-008-2

Bond No. 58 96 12

\$ 95,000.00 One-Well Plugging Bond

to the State of New Mexico for Class I Injection Well WDW#2 1980' FNL and 660' FWL - Sec 12-Ts18s-R27e N.M.P.M.

Eddy, County, New Mexico J.S. Ward & Son, Inc., Principal

Gulf Insurance Company, Surety Bond 58 96 12

The New Mexico Oil Conservation Division hereby approves the above-captioned One-Well Plugging Bond.

Legal Counsel

RC/wp

OCD Artesia Office

Gulf Insurance Company



J. S. Ward & Son, Inc.

101 South Fourth Street (505) 746-2796 FAX (505) 746-4244 Artesia, New Mexico 88210-2195

Insurance Bonds

April 22, 1999

26

State of New Mexico
Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505-5472

Attention: Mr. Roger Anderson

Re: Navajo Refining Company Bond No. 58 96 12 \$95,000 One-Well Plugging Bond to the State of New Mexico for Class I Injection Well Chukka Federal #2

Dear Mr. Anderson:

Enclosed please find the captioned bond through Gulf Insurance Company which we trust you find in order and acceptable for filing.

Very truly yours,

J. S. WARD & SON, INC.

By S. Dary Simpa

SGS:emb

Enclosure

cc: Navajo Refining Company Post Office Box 159

Artesia, New Mexico 88211-0159

Attention: Mr. Joe Akins - Copy of Bond & Invoice

OVER 50 YEARS

Navajo Relading Company	
PRINCIPAL	Gulf Insurance Company
Post Office Box 159	101 South Fourth Street
Arresia, New Mexico 88211-	-0159 Artesia. New Mexico 88210-2195
Address	MAGGEOR A .
orV CAIR	Atruy/hm,
Signature	Aptorney-In-Fact
President	
Note: Principal, if corporation, affix corporate seal here.)	(Note: Corporate surety affix corporate seal here.)
	2.78
ACKNOCH PROPRING	IT FORM FOR NATURAL PERSONS
ANALYSTIC ASSESSED.	TOWN FOR RALUMAL PERSONS
TATE OF)	
OUNTY OF	
On this day of	
··· ··· ··· ··· ··· ··· ··· ··· ··· ··	, 19 , before me personally appeared
xecuted the foregoing instrument and as	se known to be the person (persons) described in and who cknowledged that he (they) executed the same as his (their)
tee act and deed.	
IN WITHESS WHEREOF, I have hereunte	set my hand and seal on the day and year in this certificate
irst above written.	
	Manage Bully I
	Notary Public
y Commission Expires	
	ENT PORM FOR CORPORATION
	ENT PORH FOR CORPORATION
	ERT PORH FUR CORPORATION
	ENT PORM FOR CORPORATION
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APPROVED BY:
OTL COMPERVATION DEVISION OF ACTUEXICO
By: HAMM CALLED

6-30-97 30th

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That GULF INSURANCE COMPANY, a corporation of the State of Missouri, hereinalter called "Company," does hereby appoint

CHARLENE M. WARD or S. GARY SIMS or JOHN C. KNIGHT

ARTESIA, NEW MEXICO

its true and lawful Allomey-in-fact to make, execute, seal and deliver on its behalf, as surely, any and all bonds and undertakings of surelyship. , not exceed \$250,000.00 or any bond where the penalty is not stated in the bond form. No authority is granted where the attorney in fact is a party at interest in the bond.

The execution of such bonds or undertakings in pursuance of these presents shall be as binding upon the Company as if they had been executed and acknowledged by the regularly elected officers of the Company.

This Power of Attorney is issued pursuant to and by authority of the following resolution of the Board of Directors of the Company, adopted affective July 1, 1983, and now in full fonce and effect:

Thesohed that the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary may appoint Aborrarys-in-bot in any state, teniory or Indens district to represent the Company and to acc on as behalf within the scope at the authority granted to them, in writing, which authority may include the power to make, execute, seal and deliver on behalf of this Company, and as its act and developed, any and all bends and understaining of autorythip and other documents that the ordinary course of streety business arely require, including sutherny to appoint agents for the services in any jurisdiction, state or federal, and authority to attest to the signature of the President, or any Serior Vice President, or any Serior Vice President, or any resolutions adopted by its Board of Directors; and any court Attempts in-fact may be removed and the subtainty granted him sended by the President, or any Serior Vice President, or the Secretary, or any Assistant Secretary, or by the Board of Directors; and any secondary, or any Assistant Secretary, or by the Board of Directors; and any secondary, or any Assistant Secretary, or by the Board or Directors.

This Power of Altorney and Certificate are signed and sealed by facsimile under and by authority of the following resolution of the Board of Directors of the Company, adopted effective July 1, 1983, and now in full force and effect:

"Resolved that his signature of the President, or of any Senior Vice President, or of the Secretary, or of any Assistant Secretary, and the seal of the Company may be efficied by stacking or one of altonomy or to any conflicture requiring Attention-y-in-fact for purposes only of executing and states and outdertakings and other winings colliquatory in the providing any such power of attention, and other winings colliquatory in the state of the service of attention and other winings colliquatory in the state of the depoing adaptive of the service of the service of process in early furnishment and exist of the service of attention, and conflicture winings and existing of existing of existing any such power of attention, appearing a such assistance of attention of existing and existing any such power of attention of existing and existing and existing any such power of attention of existing and existing and existing any such power of attention of existing and existing and existing any such power of attention of the attention of existing and existing any such power of attention of existing and existing any such power of attention of existing any such power of attention of existing and existing any such power of attention of existing any such power of attention of existing and existing any such power of attention of existing any such power of attention of existing any such power of

of, the Company has caused this Power of Attorney to be signed and its corporate seal to be affixed by its authorized officer this April 12 19₁.

Cr Vice President

syd June .19

CERTIFICATE

I, the undersigned, do hereby certify that the original Power of Attorney of which the foregoing is a true and correct copy is in full force and effect, and the precipies resolutions are true and correct transcripts from the records of GULF INSURANCE COMPANY and that the above named officer was on the date precipit of the property of Attorney authorized to execute this Power of Attorney.

reference subscribed my name and affixed the corporate seal of Gull Insurance Company this

22nd day of April

.199.

Les Rodrey Rechel
Vice President

STATE OF NEW MEXICO

OME-WELL PLUGGING BOND

FOR CHAVES, EDDY, LEA, MCKIMLEY, RIO ARRIBA, ROOSEVELT, SANDOVAL, AND SAN JUAN COUNTIES ONLY

BOND NO. 58 96 12
ANOUNT OF BOND \$95,000.00
COUNTY Eddy

NOTE: For wells less than 5,000 feet deep, the minimum bond is \$5,000.00# For wells 5,000 to 10,000 feet deep, the minimum bond is \$7,500.00# For wells more than 10,000 feet deep, the minimum bond is \$10,000.00

HIR 50 05 1R1 12:00 1H

#Under certain conditions, a well being drilled under a 85,000.00 or \$7,500 bond may be permitted to be drilled as much as 500 feet desper than the normal newform doubt.

55,000.00 bond may be permitted to go to 5,500 feet, and a well being drilled under a be parmitted to go to 5,500 feet, and a well being drilled under a 87,500.00 bond may
File with Oil Conservation Division, P. O. Box 2088, Sants Fe 87501
KNOH ALL MEN BY THESE PRESENTS:
That Navajo Refining Company , GHXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
with the principal acceptance of the memory acceptance and the principal a
, State of New Next CO
in the State of New Mexico), as PRINCIPAL, andGulf Insurance Company
a corporation organized and existing under the laws of the State of
Missouri , and authorized to do business in the State of New
and tributy bound unto the State of New Mexico for the use and benefit at a
Conservation Division of New Mexico pursuent to Section 70-2-12, New Hexico Statutes Annotated, 1978 and no/100ths Complistion, as amended, in the sum of Ninety-Five Thousand Dollars lawful money of the United
to the payment or union, well and truly to be made, said PRINCIPAL and SURETY hereby hind
themselves, their successors and assigns, jointly and severally, firmly by these presents.
The conditions of this obligation are such that:
WHEREAS, The above principal has heratofore or may hereafter enter into oil and gas lesse, or carbon dioxide (CO ₂) gas lesses, or halium gas lesses, or brine mineral lesses with the State of New Mexico; and
WHEREAS, The above principal has heretofore or may beteafter enter into oil and gas lesses, or carbon floxide (CO ₂) gas lesses, or helium gas lesses, or brine mineral lesses on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and
MHEREAS, The above principal, individually, or in association with one or more other parties, has consenced or may commence the drilling of one well not to exceed a depth of 9200
hay acquire, own or operate such well, or such well started by others on land embraced in said State oil nate leases, or carbon dioxide (CO ₂) leases, or helium gas leases, or brine minerals, and on land on land the location of the United States of America to private individuals, and on land otherwise owned by private individuals, the identification and location of location of the location of the location of l
(Here state exact legal footage description) (Section 12, Township 18 MERGEX(South) Lange 27 (East) NEWN, N.M.P.M., Eddy County, New Mexico.
NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or regulations, or any of them, shall plug said well when dry or usen abandoned in accordance with the rules, regulations, and orders of the Oil Conservation Division of New Mexico in such way as to confine the Oil, property and the strate in which they are found, and to prevent them from escaping into other threats;
THEM, THEREFORE, This obligation shall be null and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and affect.
Signed and sealed this <u>22nd</u> day of April , 1999.

ATTACHMENT A

Sunday, May 9, 1999

Pressure testing the 8-5/8 inch Surface Casing from 1922 feet (KB) to 30 feet (KB) using a fresh water fluid. Pressure testing was performed after the perforations between 1446 feet and 1462 feet were squeezed with cement.

Pressure Test No. 1

Time	Cumulative Time	Pressure		Delta Pressure
(hrs.)	(minutes)	(psig)	(psi)	
1303	0	660		
1308	5	660		0
1313	10	660		0
1318	15	660		0
1323	20	660		0
1328	25	659		-1
1333	30	659		0

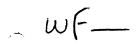
Total =-1 psi per 30 minutes

Pressure Test No. 2

Time	Cumulative Time	Pressure		Delta Pressure
(hrs.)	(minutes)	(psig)	(psi)	
1333	0	659		
1338	5	659		0
1343	10	659		0
1348	15	658		-1
1353	20	658		0
1358	25	657		-1
1303	30	657		0

Total =-2 psi per 30 minutes





TELEPHONE (505) 748-3311

EASYLINK 62905278



REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159 ARTESIA, NEW MEXICO 88211-0159 FAX (505) 746-6410 ACCTG (505) 746-6155 EXEC (505) 748-9077 ENGR (505) 746-4438 P / L

May 10, 1999

Mr. Tim Gumm State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 811 South First Street Artesia, New Mexico 88210



RE: Re-Entry for Navajo Refining Company's Waste Disposal Well No. 2

Dear Mr. Gumm:

Navajo Refining Company (Navajo) has contracted Subsurface Technology, Inc. to re-enter, test and complete Waste Disposal Well No. 2 (WDW-2), formerly the Chukka Federal No. 2 operated by The Eastland Oil Company. The United States Department of the Interior, Bureau of Land Management approved the Application for Permit to Drill or Deepen on April 27, 1999. Subsequent approval from the State of New Mexico Oil Conservation Commission (OCD) was granted on Tuesday, May 4, 1999.

Navajo initiated field operations on Wednesday, May 5, 1999. The existing pumping equipment, rods, and tubing were removed from the wellbore. The perforations from 1446 feet to 1462 feet were squeezed using 100 sacks of Class 'H' cement (approximately 50 sacks of cement were displaced into the perforated interval). The cement was allowed to cure and drilled out to a total depth of 1922 feet (KB)(1911 feet below ground level).

On Sunday, May 9, 1999, the 8-5/8 inch surface casing, set from 1955 feet (KB) to surface, was pressure tested for internal mechanical integrity between 1922 feet (KB) and 30 feet (KB) using a packer set at 30 feet. The 8-5/8 inch surface casing was pressure tested to 660 pounds per square inch and monitored at the surface for one hour (Attachment A). The fluid used for testing was a clean fresh water fluid. A pressure loss of 1 psi (0.15%) was observed during the first 30 minutes of the test. A pressure loss of 2 psi (0.30%) was observed during the last 30 minutes of the test. The results from the pressure test confirmed internal mechanical integrity of the 8-5/8 inch surface casing from 1922 feet (KB) to 30 feet (KB).

The 8-5/8 inch surface casing was originally set in an 11 inch open-hole to a depth of 1955 feet (KB) and cemented to surface using 700 sacks of Class 'H' cement with 2% gel and 100 sacks of Class 'H' neat. A total of 200 sacks of cement was recorded circulated to surface. The calculated volume between an 11 inch hole and 8-5/8 inch casing is (0.2407 cubic feet per foot X 1955 feet) 471 cubic feet. The volume of cement pumped is (1.18 cubic feet per sack X 800 sacks) 944 cubic feet for an excess of 473 cubic feet or 400 sacks circulated to surface. The calculated volume of cement and apparent volume of actual cement pumped indicated excess cement was circulated to surface.

On Sunday, May 9, 1999, Halliburton Logging Services completed a cement bond and microsiesmogram (same as a variable density log) logging survey within the 8-5/8 inch casing from a wireline total depth of 1919 feet (KB) to the surface (Attachment B). The results from the survey indicate a continuous column of cement from 1922 feet to surface with good bonding characteristics. The cement behind the 8-5/8 inch casing will provide an effective hydraulic seal to prevent the movement of groundwater fluids into the underground source of drinking water with a base at 473 feet.

Please review and approve the pressure testing and cement bond log results at your earliest convenience. Navajo will proceed with the mobilization of the drilling rig Wednesday, May 12, 1999 and begin re-entry of the WDW-2 wellbore according to the approved drilling program. Navajo will periodically contact the OCD, Artesia office with a status update of the re-entry operations. The Bureau of Land Management will be notified in sufficient time for a representative to witness the cementing of the 5-1/2 inch protection casing.

Should you have any questions or concerns, please call me at (505) 748-3311.

Sincerely yours,

Darrell Moore

Environmental Manager for Water and Waste

c: Mr. David Glass
Bureau of Land Management
Roswell Field Office
2909 West Second Street
Roswell, New Mexico 88201

mese Mese

Mr. Brian Rogers Subsurface Technology, Inc. 7020 Portwest, Suite 100 Houston, Texas 77024

File: Injection Wells



March 30, 1999

Mr. Barry Hunt Bureau of Land Management Carlsbad Resource Area 620 East Greene Street Carlsbad, New Mexico 88220-6292

RE: Navajo Refining Company Proposed WDW-2, Eddy County, New Mexico Request for On-Site Inspection of Wellsite Subsurface Project No. 60A4937

Dear Mr. Hunt:

Navajo Refining Company (Navajo) is purchasing an existing well in Eddy County, New Mexico for planned use as a Class I nonhazardous effluent disposal well, and plans to reenter and test the well in the next few months. The well is on federal land. Subsurface Technology, Inc. (Subsurface), formerly Envirocorp Services & Technology, Inc., on behalf of Navajo, requests your participation in an on-site inspection of the wellsite as soon as possible.

Pertinent information about the existing well is provided below:

Lease Number:

NM 6852

Current Operator:

The Eastland Oil Company (September 1990 to present)

Lease:

Chukka Federal No. 2

Former Operator:

Fred Pool Drilling Company (August 1985 to September

1990)

Former Operator:

Amoco Production Company (July 1973 to August 1985)

Former Lease:

Diamond Federal Gas Com. No. 1

Location:

1980' FNL, 660' FWL (SW/4 NW/4, Unit Letter E) 12-

T18S-R27E

Topographic Map (Attachment A)

Original Total Depth:

10,372 feet Plugged-Back Total Depth: 1912 feet

Well Schematic (Attachment B)

Status:

The well is producing from the Penrose from perforations

between 1446 feet and 1462 feet. Navajo is chown't

negotiating to purchase the well from Eastland Oil Company. The purchase should be completed by April 1, 1999.

Navajo proposes to reenter the well, squeeze the perforations from 1446 feet to 1462 feet, drill out the plugs and clean out the well to approximately 9200 feet, set 5-1/2 inch casing at 9200 feet and cement it to the surface, and conduct one or more injectivity tests. The proposed injection intervals are porous zones in the lower portion of the Wolfcamp Formation (7270 feet to 7645 feet), the Cisco Formation (7645 feet to 8390 feet), and the Canyon Formation (8390 feet to 8894 feet). Navajo's proposed reentry, testing, and recompletion procedure is included as Attachment C. A schematic of the well after recompletion is included as Attachment D.

Subsurface is currently preparing a discharge plan application for the Class I well for Navajo to submit to the New Mexico Oil Conservation Division and the BLM Roswell office near the end of April 1999. Subsurface is also preparing BLM Form 3160-3 (Application for Permit to Drill) for Navajo to submit to the BLM Roswell office.

Please contact me at (713) 880-4640 to schedule an on-site inspection of the wellsite. Do not hesitate to call me if you need additional information or if you have questions.

Sincerely,

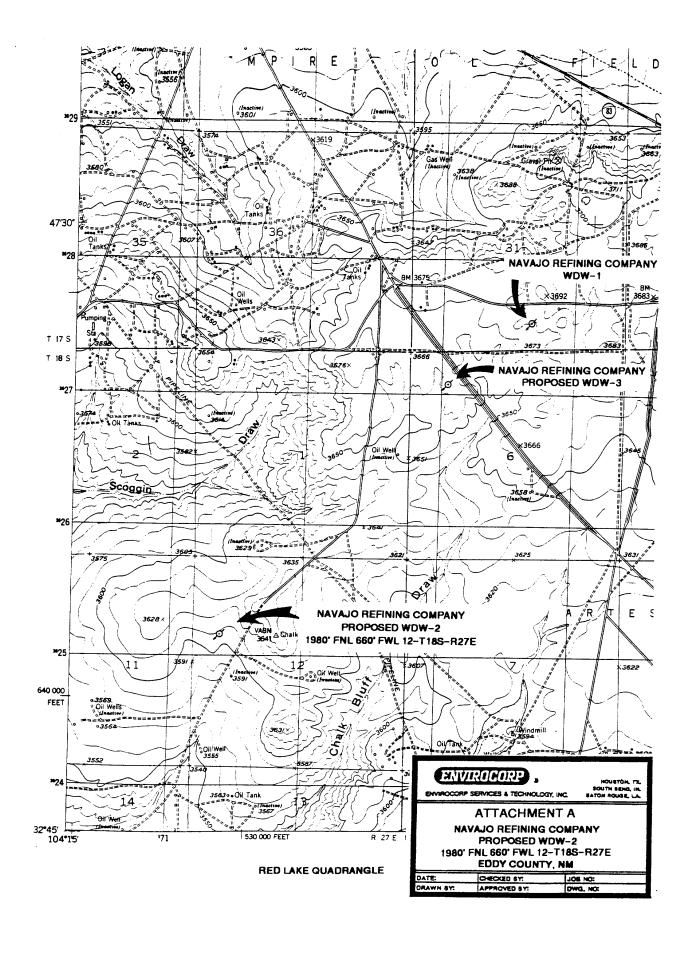
Naucy J. Memann
Nancy L. Niemann
Senior Geologist

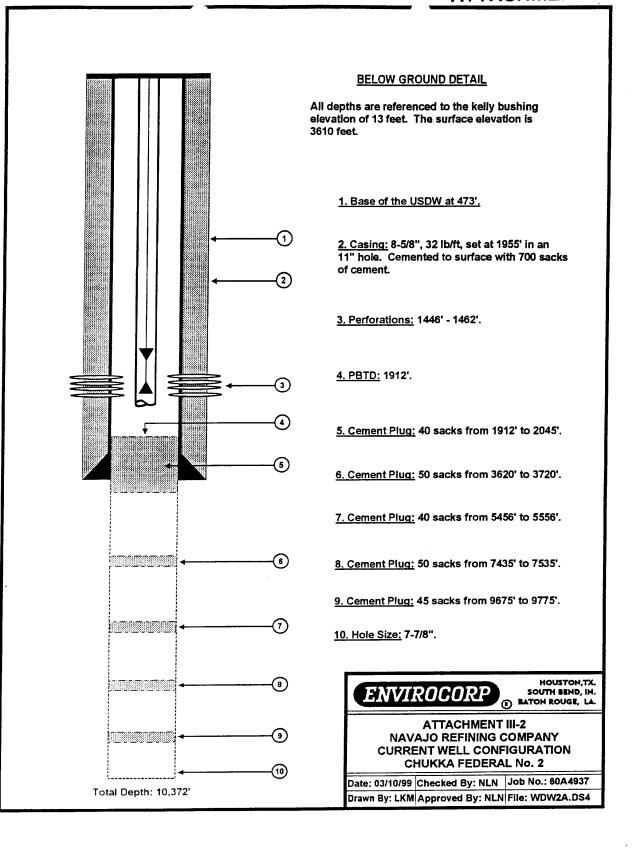
NLN/paf Attachments

c: Joe Lara – BLM, Carlsbad
 David Glass – BLM, Roswell
 Wayne Price – OCD, Santa Fe
 Tim Gum – OCD, Artesia
 Phil Youngblood – Navajo
 Darrell Moore – Navajo
 George Walbert – Holly Petroleum, Inc.

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ATTACHMENT C

DRILLING AND RECOMPLETION PROCEDURE FOR NAVAJO REFINING COMPANY'S PROPOSED WDW-2

- 1. Obtain all permits and approvals for the reentry, testing and completion of a currently existing well.
- 2. Move in and rig up a workover unit. Remove the pumping equipment and pull the tubing out of the well.
- 3. Go in the hole with a squeeze packer and squeeze the perforations from 1446 feet to 1462 feet with 100 sacks of Class "H" cement. Allow the cement to cure.
- 4. Drill out the cement, circulate the well clean and pressure test the squeezed perforations at 500 psig for 30 minutes. Pull the squeeze tools out of the hole.
- 5. Conduct a CBL/VDL survey from 1912 feet to the surface. Submit the results of the pressure test and CBL/VDL survey to the OCD and the BLM for their review and approval prior to mobilizing the drilling rig.
- 6. After receiving approval from the OCD and the BLM to continue the reentry, prepare the location for the selected drilling rig. Construct the lined reserve pits, dig out the cellar, and install a mousehole and rathole.
- 7. Move in and rig up the rotary drilling rig and install the blowout preventers.
- 8. Drill out the following cement plugs and conduct deviation surveys every 1000 feet or on trips:
 - a. 1912 feet to 2045 feet, 40 sacks
 - b. 3620 feet to 3720 feet, 50 sacks
 - c. 5456 feet to 5556 feet, 40 sacks
 - d. 7435 feet to 7535 feet, 50 sacks
- 9. Clean the well out to a depth of 9200 feet and circulate and condition the hole for logging. Make a wiper trip to the base of the 8-5/8 inch surface casing while strapping the drillpipe.
- 10. Conduct a formation microimager (FMI) survey with gamma ray from the well's total depth to 4000 feet. Continue the four-arm caliper survey to the 8-5/8 inch

1

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ATTACHMENT C (Continued)

casing shoe. Process the FMI for fracture identification over the lower 200 feet of the confining zone and zones of interest in the injection zone, if warranted.

- 11. Spot a gelled pill at 9200 feet and lay down the drillpipe.
- 12. Run the 5-1/2 inch casing with a packoff shoe and float collar to 9200 feet. Install a "DV" tool at 5500 feet. Run centralizers at approximately 120-foot intervals.
- 13. Cement the 5-1/2 inch casing in place. Use a minimum of 20% excess cement as calculated from the caliper log. Circulate cement to the surface and allow to cure.
- 14. Clean out the mud pits and release the drilling rig 12 hours after cementing the 5-1/2 inch casing in place.
- 15. Stabilize the 5-1/2 inch casing at the surface using ready-mix cement.
- 16. Move in and rig up the completion rig pump, tank, power swivel, and work string. Install the blowout preventer.
- 17. Run in the well with a 4-3/4 inch bit to the "DV" tool and test the casing to 1500 psig for 30 minutes.
- 18. Drill out the "DV" tool and clean out the wellbore to the float collar. Test the casing to 1500 psig for 30 minutes. Circulate the wellbore with clean brine, preceded by 15% HCL to clean the casing. Trip the work string out of the well.
- 19. Conduct the casing inspection, CBL/VDL, and differential temperature surveys.
- 20. Perforate the selected injection interval as determined from the open hole logs. (Zone 1).
- 21. Run in the well with a packer and tailpipe. Set the packer above the top perforation and swab test the perforated interval. Recover at minimum two tubing volumes of the reservoir fluid for analysis (Note: Set up H₂S monitoring equipment prior to swabbing operations).
- 22. Acidize the zone using diverters. Pull the packer out of the well.
- 23. Perforate the next selected injection interval as determined from the open hole logs (Zone 2).

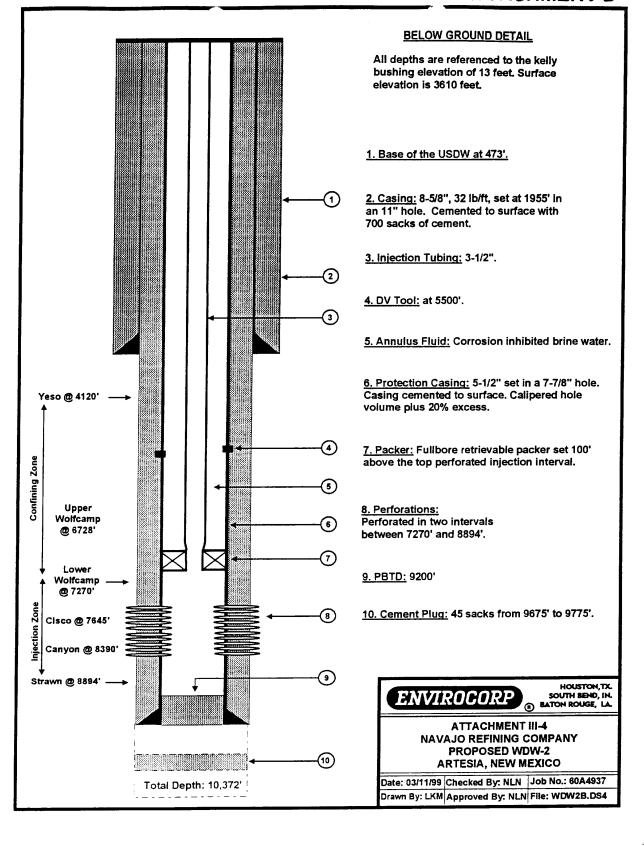
2

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ATTACHMENT C (Continued)

- 24. Run a retrievable bridge plug and packer into the well and isolate Zone 2.
- 25. Acidize Zone 2 using diverters. Pull the retrievable bridge plug and packer out of the well, laying down the work string.
- 26. Conduct an injection test down the 5-1/2 inch casing at 420 gpm for 12 hours followed by a pressure falloff test.
- 27. Conduct a differential temperature survey and radioactive tracer survey to determine the injection profile.
- 28. Run the injection tubing and packer. Fill the annulus with corrosion inhibited brine.
- 29. Wait for the well system to come to thermal stabilization (approximately 24 hours).
- 30. Conduct an annulus pressure test witnessed by the OCD.
- 31. Rig down and move out all equipment and close the reserve pit.
- 32. Install the annulus monitoring system and return the well to the client.



CONDITIONS OF APPROVAL - DRILLING

Operator's Name: <u>Navajo Refining Company</u> Well No. <u>2 - WDW</u>

Location: <u>1980' FNL & 660' FWL</u> sec. <u>12</u>, T. <u>18 S.</u>, R. <u>27 E.</u>

Lease: <u>NM-6852</u>

I. DRILLING OPERATIONS REQUIREMENTS: [Deepening]

- 1. The Bureau of Land Management (BLM) is to be notified at (505) 887-6544 in sufficient time for a representative to witness:
- A. Cementing casing: 5-1/2 inch
- 2. Unless the injection casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

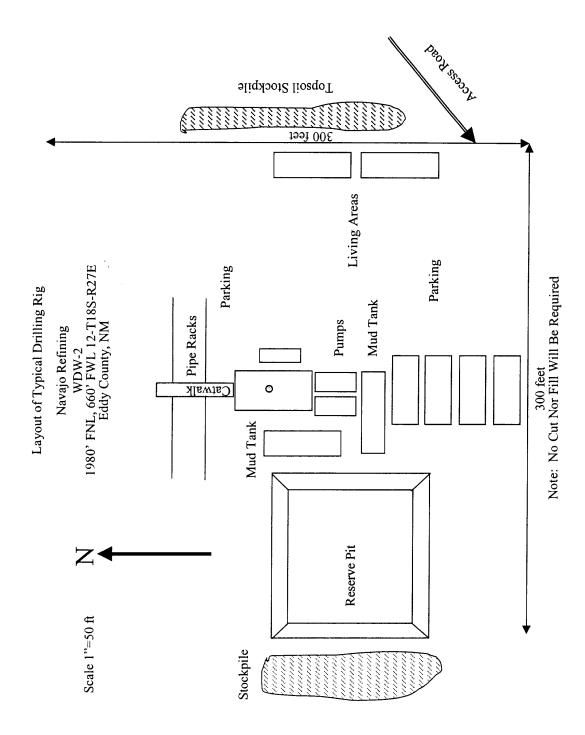
II. CASING:

1. Minimum required fill of cement behind the <u>5-1/2</u> inch injection casing is <u>sufficient to circulate to the surface.</u>

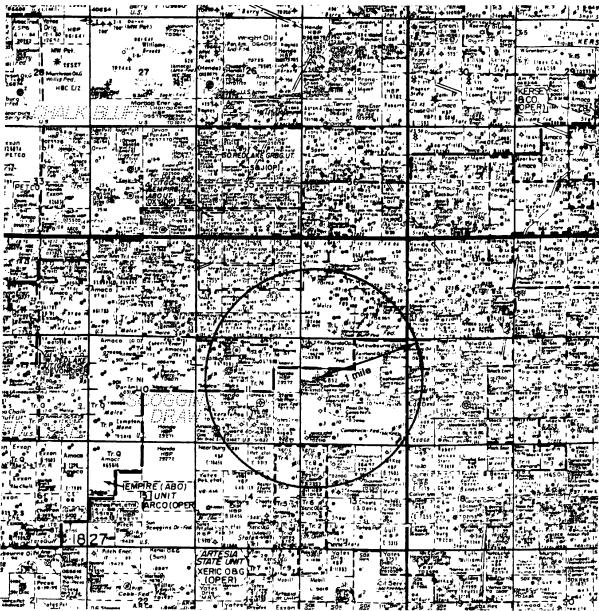
III. PRESSURE CONTROL:

- 1. Before drilling into the 100 foot 8-5/8 inch surface casing shoe cement plug at approximately 1912 feet, the blowout preventer assembly shall consist of a minimum of One Annular Preventer, Two Ram-Type Preventers, and a Kelly Cock/Stabbing Valve
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 3000 psi.
- 3. After drilling into the 100 foot 8-5/8 inch surface casing shoe cement plug at approximately 1912 feet and before drilling into the 100 foot Abo cement plug at approximately 5450 feet, the BOPE shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- A. The results of the test will be reported to the BLM Carlsbad Resource Area office at 620 East Greene Street, Carlsbad, New Mexico 88220-6292.
- B. Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- C. Testing must be done in a safe workman like manner. Hard line connections shall be required.

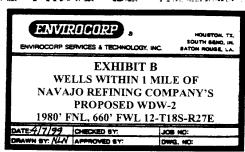
EXHIBIT C

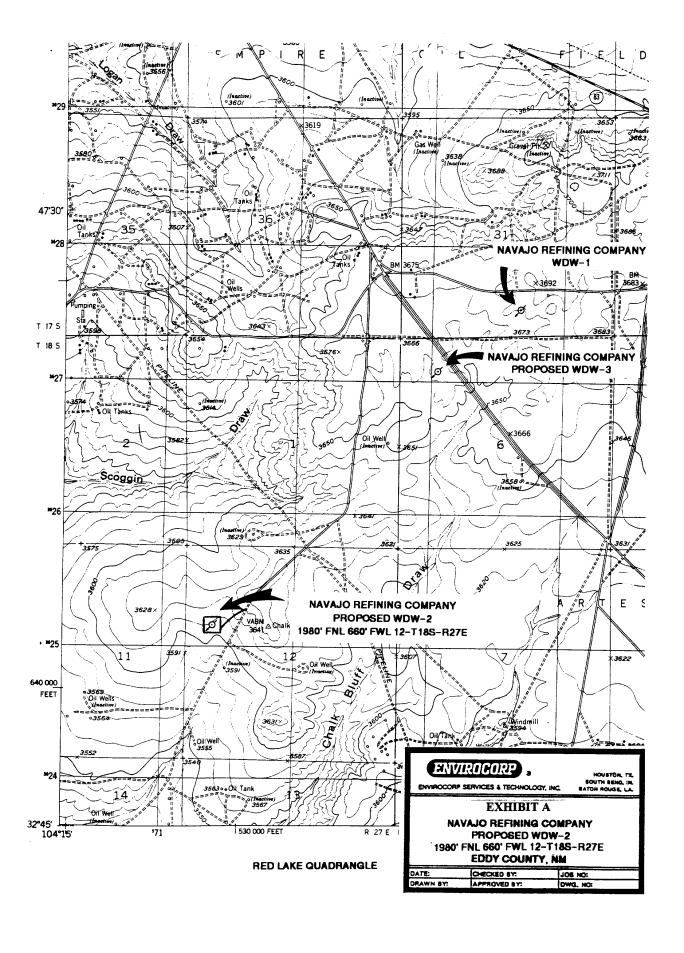


Subsurface Technology, Inc.



Map courtesy of Midland Map Company





SURFACE USE PLAN

NAVAJO REFINING COMPANY PROPOSED WDW-2 1980' FSL, 660' FWL of 12-T18S-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-2 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. <u>Source of Construction Materials</u>: Materials required for construction of the site will be taken from a state-owned pit.
- 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. Location of the trash pit is shown on Exhibit C.

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- E. All trash and debris will be buried or removed form the wellsite after finishing drilling and/or completion operations.
- 8. Ancillary Facilities: None anticipated.

9. Wellsite Layout:

- A. The wellsite will be surveyed, and a 400' x 400' area will be staked and flagged.
- B. The dimensions and relative location of the drill pad, mud pit, and trash pit, with respect to the wellbore, are shown on Exhibit C.
- C. Existing topsoil to a depth of 6 inches will be lifted and stockpiled at the northeastern (uphill) end of the well pad. The stockpiled topsoil will be located uphill to avoid mixing with subsurface materials.
- D. The well pad will be surfaced with material found in place.
- E. The pits for mud 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>: An archaeological survey of the drill pad was submitted to the BLM on July 31, 1985, on behalf of Fred Pool Drilling Company. An archeological survey was conducted by Navajo Refining Company and will be submitted by Navajo under separate cover.
- 13. <u>Operator's Representatives</u>: 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
- C. Sketch of Well Pad



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.

4/15/99	Daul More				
Date	Darrell Moore				
	Env. Mgs. S. Water - Waste				
	Title				
	Navajo Refining Company Company				

BOP Minimum Requirements

- a. 11-inch, 3000-psi working pressure double-hydraulic BOP.
- b. 11-inch, 3000-psi working pressure annular BOP.
- c. 3-inch, 3000-psi working pressure manual choke manifold.

A schematic of the BOP stack is included as Exhibit A.

- 8. Drill out the following cement plugs and conduct deviation surveys every 1000 feet or on trips:
 - a. 1912 feet to 2045 feet, 40 sacks
 - b. 3620 feet to 3720 feet, 50 sacks
 - c. 5456 feet to 5556 feet, 40 sacks
 - d. 7435 feet to 7535 feet, 50 sacks

Estimated Tops of Geologic Formations

San Andres	2005'	Lower Wolfcamp	7270'
Yeso	4210'	Cisco	7645'
Abo	5506'	Canyon	8390'
Wolfcamp	6728'	Strawn	8894'

No fresh water or hydrocarbons are expected to be encountered.

Expected Bottom-Hole Pressure and Hazards

The expected bottom-hole pressure is 3500 psia at the total depth of 9200 feet. The bottom-hole pressure was determined from the pressure measured in Navajo's WDW-1, or 2928 psia, at 7924 feet. Navajo's WDW-1 is completed in the same interval proposed for WDW-2 and is located 11,000 feet northeast of WDW-2 in 31-T17S-R28E. The average specific gravity of the fluid between 7924 feet and 9200 feet is expected to be 1.034, which is the specific gravity of the fluid swabbed from the interval between 8220 feet and 8476 feet in WDW-1. The expected bottom-hole pressure at 9200 feet in proposed WDW-2 is calculated below:

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No abnormal pressures or temperatures or other hazards are expected while drilling or testing the well. Hydrogen sulfide monitoring equipment will be set up prior to swabbing operations.

- 9. Clean the well out to a depth of 9200 feet and circulate and condition the hole for logging. Make a wiper trip to the base of the 8-5/8 inch surface casing while strapping the drillpipe.
- 10. Conduct a formation microimager (FMI) survey with gamma ray from the well's total depth to 4000 feet. Continue the four-arm caliper survey to the 8-5/8 inch casing shoe. Process the FMI for fracture identification over the lower 200 feet of the confining zone and zones of interest in the injection zone, if warranted.
- 11. Spot a gelled pill at 9200 feet and lay down the drillpipe.
- 12. Run the 5-1/2 inch, 17-lb/ft, J-55, LT&C casing with a packoff shoe and float collar to 9200 feet. Install a "DV" tool at approximately 5800 feet. Run centralizers at approximately 120-foot intervals.
- 13. Cement the 5-1/2 inch casing in place. Use a minimum of 20% excess cement as calculated from the caliper log. Circulate cement to the surface and allow to cure.

Cement Program

- a. Stage 1 Cement (total depth to 5800 feet): Lightweight Class H with fly ash, gel, friction reducer, and salt mixed with fresh water.
- b. Stage 2 Lead Cement (5200 feet to the surface): Lightweight Class C with gel and bridging agents mixed with fresh water.
- c. Stage 2 Tail Cement (5800 feet to 5200 feet): Class C mixed with fresh water.
- 14. Clean out the mud pits and release the drilling rig 12 hours after cementing the 5-1/2 inch casing in place.

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15. Stabilize the 5-1/2 inch casing at the surface using ready-mix cement.

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- 16. Move in and rig up the completion rig pump, tank, power swivel, and work string. Install the blowout preventer.
- 17. Run in the well with a 4-3/4 inch bit to the "DV" tool and test the casing to 1500 psig for 30 minutes.
- 18. Drill out the "DV" tool and clean out the wellbore to the float collar. Test the casing to 1500 psig for 30 minutes. Circulate the wellbore with clean brine, preceded by 15% HCL to clean the casing. Trip the work string out of the well.
- 19. Conduct the casing inspection, CBL/VDL, and differential temperature surveys.
- 20. Perforate the selected injection interval as determined from the open hole logs. Depending on the height of the perforated interval, the interval may be perforated in two stages, as Zone Nos. 1 and 2.
- 21. Run in the well with a packer and tailpipe. Set the packer above the top perforation and swab test the perforated interval. Recover at minimum two tubing volumes of the reservoir fluid for analysis (Note: Set up H₂S monitoring equipment prior to swabbing operations).
- 22. Acidize the perforated zone (Zone 1) using diverters. Pull the packer out of the well.
- 23. Perforate the next selected injection interval (Zone 2) as determined from the open hole logs.
- 24. Run a retrievable bridge plug and packer into the well and isolate Zone 2.
 - 25. Acidize Zone 2 using diverters. Pull the retrievable bridge plug and packer out of the well, laying down the work string.
 - 26. Conduct an injection test down the 5-1/2 inch casing at 420 gpm for 12 hours, followed by a pressure falloff test.
 - 27. Conduct a differential temperature survey and radioactive tracer survey to determine the injection profile.

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- 28. Run the injection tubing and packer. Fill the annulus with corrosion inhibited brine.
- 29. Wait for the well system to come to thermal stabilization (approximately 24 hours).
- 30. Conduct an annulus pressure test witnessed by the OCD.
- 31. Rig down and move out all equipment and close the reserve pit.
- 32. Install the annulus monitoring system and return the well to the client.

Logging, Testing, And Coring Program

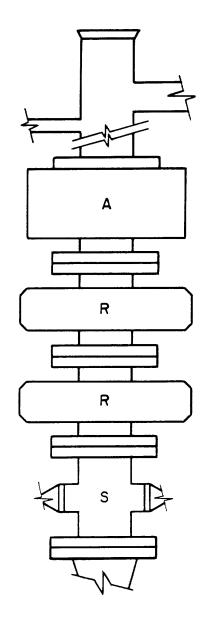
A formation fluid sample will be retrieved from the proposed injection zone in proposed WDW-2. Navajo will conduct injectivity testing in the injection zone of proposed WDW-2.

No coring is planned.

The proposed logging program is described below:

HOLE/CASING	OPEN-HOLE LOGS	CASED-HOLE LOGS
	Proposed WDW-2	
11 inch Surface Borehole (8-5/8 inch Casing) 1995 feet		Logs Run in 1973: Gamma Ray
		Logs Proposed on Reentry: Cement Bond/Variable Density Casing Inspection Log
7-7/8 inch Long-String Borehole (5-1/2 inch Casing) 9200 feet	Logs Run on August 27, 1973: Dual Induction-Laterolog/ Spontaneous Potential Compensated Neutron/ Formation Density Caliper Gamma Ray	Logs Proposed on Reentry: Cement Bond/Variable Density Casing Inspection Log Differential Temperature Log Radioactive Tracer Survey
	Logs Proposed on Reentry: Fracture Identification Log 4-Arm Caliper	

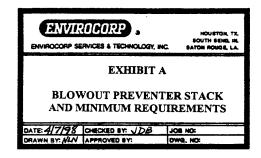
378\drilling program.doc



- A = ANNULAR-TYPE BLOWOUT PREVENTER 11-inch throughbore, 3000-psi working pressure
- R = RAM-TYPE BLOWOUT PREVENTER 11-inch throughbore, 3000-psi working pressure
- S = DRILLING SPOOL WITH SIDE OUTLET CONNECTIONS FOR CHOKE AND KILL LINES

MANUAL CHOKE MANIFOLD
3-inch throughbore, 3000-psi working pressure

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



(Other ructions on UNITED STATES ED STATES r (ide)

FORM APPROVED OF COMB NO. 1604-0136
Expires: Rebrany 28, 1995

				liant cous -	VAISIOH	5. LEASE DESIGNATION	AND SERIAL NO.
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L NAME OF OPERATOR		-1011				9. ATWELING	
Navajo Refini	ng Company	15694		20223242526	>>		0.4
ADDRESS AND TELEPHONE NO.				1222	1823/	30-015-208	
Post Office B	ox 159, Artesia	New Mexic	O 88	tale requirements.*)	- 8\	L. Wolfcamp-C	isco-Canyon
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TO NEAREST WELL, DI	rilling, completed.		92	200 '	Rot	ary	
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3607' GR, 362						May 1, 19	99
3.		PROPOSED CASI	NG AND	CEMENTING PROGR	AM		
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PERMIT ×0			_	APPROVAL DATE			
Application approval does s	not werrant or curtify that the app	licant bolds legal or eq	pitable titi	e to those rights in the subje	ct lesse which w	rould entitle the applicant to o	neduct operations there
CONDITIONS OF APPROVAL				ETROLEUM EN			
APPROVED BY		TITLE				~~~	

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources Depar, at

Form C-102 Revised March 17, 1999

District II

811 South First, Artesia, NM 88210

District III District IV

UL or lot no.

E

1000 Rio Brazos Rd., Aztec, NM 87410

Section Township

12

18S

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

Submit to Appropriate District Office State Lease - 4 Copies

West

Eddy

Fee Lease - 3 Copies

☐ AMENDED REPORT

2040 South Pacheco, Santa Fe, NM 87505

	WE	LL LOC	ATION	AND ACRE	EAGE DEDICA	TION PLAT	· 				
API Num 30-015-20			Pool Code		Lower Wolfcamp-Cisco-Canyon Injection Zone						
⁴ Property Code	Property Code Property Name WDW-2					Code				, 'v	ell Number
OGRID No.		Nav	Operator N ajo Refining			ì	Elevation 507' GR				
				10 Surface I	ocation						
IJL or lot no. Secti	on Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			

660 27E 1980 North 11 Rottom Hole Location If Different From Surface

			DU	ton Hor	Location II	Different 1 for			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹⁷ Dedicated Acres	Joint o	r Infill ¹⁴ C	onsolidation	Code ¹⁵ Ord	ler No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

NO ALLOWADEL WILL	NON-STANDA	ARD UNIT HAS BEEN	APPROVED BY TH	E DIVISION
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				complete to the best of my knowledge and belief
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				Tide Eau. Mgr.
				Date 4/12/49
				18 SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this plat was
				plotted from field notes of actual surveys made by me
				or under my supervision, and that the same is true and correct to
				the best of my belief.
1				
				Date of Survey
				Signature and Seat of Professional Surveyer:
				Well is active. Location was not re-surveyed by
				Navajo.
				<u> </u>
				Certificate Number

378\Form C-102.doc

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.

4/15/99	Daul More
Date	Dassell Moore
	Env. Mar. S. Water - Waste
	Navajo Refining Company Company

TELEPHONE (505) 748-3311

> EASYLINK 62905278



N.M. Oil Cons. Division 811 S. 1st Street AREMINISTRACESOMPANY

501 EAST MAIN STREET • P. O. BOX 159 ARTESIA, NEW MEXICO 88211-0159 C/5/2

FAX (505) 746-6410 ACCTG (505) 746-6155 EXEC (505) 748-9077 ENGR (505) 746-4438 P / L

May 10, 1999

Mr. Tim Gumm
State of New Mexico
Energy, Minerals and Natural
Resources Department
Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210





RE: Re-Entry for Navajo Refining Company's Waste Disposal Well No. 2

Dear Mr. Gumm:

Navajo Refining Company (Navajo) has contracted Subsurface Technology, Inc. to re-enter, test and complete Waste Disposal Well No. 2 (WDW-2), formerly the Chukka Federal No. 2 operated by The Eastland Oil Company. The United States Department of the Interior, Bureau of Land Management approved the Application for Permit to Drill or Deepen on April 27, 1999. Subsequent approval from the State of New Mexico Oil Conservation Commission (OCD) was granted on Tuesday, May 4, 1999.

Navajo initiated field operations on Wednesday, May 5, 1999. The existing pumping equipment, rods, and tubing were removed from the wellbore. The perforations from 1446 feet to 1462 feet were squeezed using 100 sacks of Class 'H' cement (approximately 50 sacks of cement were displaced into the perforated interval). The cement was allowed to cure and drilled out to a total depth of 1922 feet (KB)(1911 feet below ground level).

On Sunday, May 9, 1999, the 8-5/8 inch surface casing, set from 1955 feet (KB) to surface, was pressure tested for internal mechanical integrity between 1922 feet (KB) and 30 feet (KB) using a packer set at 30 feet. The 8-5/8 inch surface casing was pressure tested to 660 pounds per square inch and monitored at the surface for one hour (Attachment A). The fluid used for testing was a clean fresh water fluid. A pressure loss of 1 psi (0.15%) was observed during the first 30 minutes of the test. A pressure loss of 2 psi (0.30%) was observed during the last 30 minutes of the test. The results from the pressure test confirmed internal mechanical integrity of the 8-5/8 inch surface casing from 1922 feet (KB) to 30 feet (KB).

I. A.

An Independent Refinery Serving . . . NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO The 8-5/8 inch surface casing was originally set in an 11 inch open-hole to a depth of 1955 feet (KB) and cemented to surface using 700 sacks of Class 'H' cement with 2% gel and 100 sacks of Class 'H' neat. A total of 200 sacks of cement was recorded circulated to surface. The calculated volume between an 11 inch hole and 8-5/8 inch casing is (0.2407 cubic feet per foot X 1955 feet) 471 cubic feet. The volume of cement pumped is (1.18 cubic feet per sack X 800 sacks) 944 cubic feet for an excess of 473 cubic feet or 400 sacks circulated to surface. The calculated volume of cement and apparent volume of actual cement pumped indicated excess cement was circulated to surface.

On Sunday, May 9, 1999, Halliburton Logging Services completed a cement bond and microsiesmogram (same as a variable density log) logging survey within the 8-5/8 inch casing from a wireline total depth of 1919 feet (KB) to the surface (Attachment B). The results from the survey indicate a continuous column of cement from 1922 feet to surface with good bonding characteristics. The cement behind the 8-5/8 inch casing will provide an effective hydraulic seal to prevent the movement of groundwater fluids into the underground source of drinking water with a base at 473 feet.

Please review and approve the pressure testing and cement bond log results at your earliest convenience. Navajo will proceed with the mobilization of the drilling rig Wednesday, May 12, 1999 and begin re-entry of the WDW-2 wellbore according to the approved drilling program. Navajo will periodically contact the OCD, Artesia office with a status update of the re-entry operations. The Bureau of Land Management will be notified in sufficient time for a representative to witness the cementing of the 5-1/2 inch protection casing.

Should you have any questions or concerns, please call me at (505) 748-3311.

Sincerely yours,

Darrell Moore

Environmental Manager for Water and Waste

c: Mr. David Glass
Bureau of Land Management
Roswell Field Office
2909 West Second Street

Mr. Brian Rogers Subsurface Technology, Inc. 7020 Portwest, Suite 100 Houston, Texas 77024

Roswell, New Mexico 88201

File: Injection Wells

APPROVED

JUN 02 199**9**

(ORIG_SGD) DAVID R. GLASS
AUTHORIZED OFFICER, MINERALS
BUREAU OF LAND MANAGEMENT

SUBJECT TO LIKE APPROVAL BY STATE



Patterson Drilling Company 410 N. Loraine Street - (915) 682-9401

Midland, Texas 79701

RECEIVED

JUN 0 4 1999

June 2, 1999

SUBSURFACE TECHNOLOGY, INC.

Drilling Department Subsurface Construction Corporation 7020 Port West, Ste 100 Houston, TX 77024

RE:

Inclination Report

Navajo WDW-2

Sec 12; T-18-S; R-27-E

Gentlemen:

The following is an inclination survey on the above referenced well located in Eddy County, New Mexico:

2898' - 0.25

3838' - 0.25

4783' - 0.50

6106' - 0.75

6633' - 0.50

Sincerely,

Rebecca Edwards

Rebecca A. Edwards Administrative Assistant

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing was acknowledged before me this 2nd day of June, 1999 by Rebecca A. Edwards.

MY COMMISSION EXPIRES:

NOTARY PUBLIC

TREVA FORRESTER **NOTARY PUBLIC** STATE OF TEXAS My Camm. Exp. 9-2-2000

INSTRUCTIONS

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

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

T. Canyon 8390	m a: .:	Northwestern New Mexico					
	T. Ojo Alamo		T. Penn. "B"				
T. Strawn 8894	T. Kirtland-Frui	tland	T. Penn. "C"				
T. Atoka	T. Pictured Clif	fs	T. Penn. "D"				
T. Miss	T. Cliff House		T. Leadville				
T. Devonian	T. Menefee		T. Madison				
T. Silurian	T. Point Lookou	ıt	T. Elbert				
T. Montoya	T. Mancos		T. McCracken				
T. Simpson	T. Gallup		T. Ignacio Otzte				
T. McKee	Base Greenhorn		T. Granite				
T. Ellenburger	T D 1 .		T				
T. Gr. Wash							
T. Delaware Sand	cm cm 111		T				
			T.				
T.	T. Wingate	1777					
T.	T. Chinle		Т				
Т.	T Permian		Tr.				
T	T Penn "A"		T.				
•			OIL OR GAS SANDS OR ZONES				
to	. No. 3, Irom						
	•		to				
to		feet	•••••				
Lithology	From To	Thickness In Feet	Lithology				
	T. Miss T. Devonian T. Silurian T. Montoya T. Simpson T. McKee T. Ellenburger T. Gr. Wash T. Delaware Sand T. Bone Springs T. T. T. T. T. T. T. T. T. T. T. T. T.	T. Miss T. Cliff House T. Devonian T. Menefee T. Silurian T. Point Lookot T. Montoya T. Mancos T. Simpson T. Gallup T. McKee Base Greenhorn T. Ellenburger T. Dakota T. Gr. Wash T. Morrison T. Delaware Sand T. Todilto T. Bone Springs T. Entrada T. T. Chinle T. T. Permian T. Penn "A" No. 3, from. No. 4, from. IMPORTANT WATER SANI nflow and elevation to which water rose in hole. to. to. THOLOGY RECORD (Attach addition) THOLOGY RECORD (Attach addition)	T. Miss T. Devonian T. Menefee T. Silurian T. Montoya T. Mancos T. Simpson T. Gallup T. McKee Base Greenhorn T. Ellenburger T. Gr. Wash T. Morrison T. Delaware Sand T. Todilto T. Bone Springs T. Entrada T. T. Wingate T. T. T. Chinle T. T. T. Permian T. T. Permian T. T. Penn "A" IMPORTANT WATER SANDS INFORMATION TO SEEL TO SEEL THOLOGY RECORD (Attach additional sheet if ne				

017 Submit To Appropriate District Office State of New Mexico Form C-105 State Lease - 6 copies Fee Lease - 5 copies Revised March 25, 1999 Energy, Minerals and Natural Resources District I WELL API NO. 1625 N. French Dr., Hobbs, NM 87240 District II 811 South First, Artesia, NM 87210 30-015-20894 OIL CONSERVATION DIVISION 5. Indicate Type of Lease 1000 Rio Brazos Rd , Aztec, NM 87410 STATE | FEE Federa 2040 South Pacheco Santa Fe, NM 87505 State Oil & Gas Lease No. NM 6852 WELL COMPLETION OR RECOMPLETION REPORT AND LOG OTHER Class I Waste Disposal Well 7. Lease Name or Unit Agreement Name OIL WELL GAS WELL DRY Navajo Refining Company b. Type of Completion: WORK \mathbf{X} WELL OTHER OVER RESVR. 2. Name of Operator Well No. Navajo Refining Company WDW-2 9. Pool name or Wildcat 3. Address of Operator Post Office Box 159, Artesia, New Mexico 88211 -L Wolfcamp-Cisco-Canyon Injection Zone 4. Well Location Navajo Permo-PERM West Unit Letter 1980 Feet From The North Line and 660 Feet From The Range 27 East Township 18 South Section NMPM Eddy 11. Date T.D. Reached 12. Date Compl. (Ready to Prod.) 13. Elevations (DF& R(B. RT, GR, etc.) 14. Elev. Casinghead 10. Date Spudded July 18, 1973 August 27, 1973 June 8, 1999 3607 feet GL, 3623 feet RKB 3609 feet GL 15. Total Depth 16. Plug Back T.D. 17. If Multiple Compl. How Many 18. Intervals Rotary Tools Cable Tools Zones? Drilled By 10,372 feet 8770 feet N/A ΑII 19. Producing Interval(s), of this completion - Top, Bottom, Name 20. Was Directional Survey Made L. Wolfcamp-Cisco-Canyon Yes 21. Type Electric and Other Logs Run 22. Was Well Cored Fracture Finder and Caliper Logs, Dual Induction Laterolog, No Compensated Neutron Formation Density CASING RECORD (Report all strings set in well) 23. DEPTH SET CASING SIZE WEIGHT LB./FT HOLE SIZE CEMENTING RECORD AMOUNT PULLED 13-3/8" N/A 40' N/A N/A None 1995 11" 800 sacks circulated 8-5/8" 32 None 7-7/8" 1570 sacks circulated 5-1/2" 17 8869 None TUBING RECORD LINER RECORD 25 24 SCREEN DEPTH SET SIZE TOP BOTTOM SACKS CEMENT SIZE PACKER SET 3-1/2" 7528 7528 26. Perforation record (interval, size, and number) DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 7570' to 7620', 7676' to 7736', 7826' to 7834', 7858' to 7880', 10,000 gallons of 15% HCl, plus 4600 pounds 7570' to 8399' 7886' to 7904', 7916' to 7936', 7944' to 7964', 7990' to 8042', of rock salt as diverter 8096' to 8116', 8191' to 8201', 8304' to 8319', 8395' to 8399' (2 jspf for total of 598 holes). 28 PRODUCTION

Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in) N/A Gas - Oil Ratio Prod'n For Oil - Bhl Gas - MCF Water - Bhl Date of Test Hours Tested Choke Size N/A Test Period N/A N/A Flow Tubing Press. Casing Pressure Calculated 24-Oil - Bbl. Gas - MCF Water - Bbl Oil Gravity - API - (Corr.) Hour Rate 29. Disposition of Gas (Sold, used for fuel, vented, etc.) Test Witnessed By N/A 30 List Attachments Deviation Report
31 Thereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Printed rell Morrerille Eau Mar. Name

-		-	N.N	1. Oil	Cons. C	ivision	OMB NO.	PPROVED 1004-0137
3160-4		SUB	HA M TIME	IRSICA S	t Street) 2834 DESIGNATION NM 6852	AND SERIAL N	nuary 28, 1995 D.
1992)	UNITED STAT	LU	018	ee other in	anti-88211)-2634		25 B37 \
DEPART	MENT OF THE	INTERIOR	ATH	991994 4	de) **	NM 6852 6, IF INDIAN, ALLOTTES	OP TRIBE NAME	
BURFALL	OF LAND MANAC	SEMENT				6. IF INDIAN, ACCOTTES	SK TRIBE TO THE	 *
WELL COMPLET	TION OR RECOM	PLETION REPO	RT AND	LOG"				0.80
TYPE OF WELL C	OIL GAS C	DRY X	Other C	Class	I Waste sal Well	7. UNIT AGREEMENT NA	<u> </u>	100 CO 1 CO 1 CO 1 CO 1 CO 1 CO 1 CO 1 C
\sim	<u> </u>	DIFF- X	Other	Reent	ry	8. FARM OR LEASE NAI	NE, WELL NO.	TES/A
11000	N. BACK	GENVR				9. API WELL NO.		7
NAME OF OPERATOR VI	ind Company					30-015-208	394	181718181A
ADDRESS AND TELEPHON	ENO.					10. FIELD AND POOL, O	Permo	5- PENY 919
Post Office	Box 159, Arte	esia, New Me	exico	88211		11. SEC. T.,R.,M., OR E		
LOCKOON OF WELL	₹					OR AREA		
1980	FNL and 660'	FWL Unit Le	etter	E				hip 18 South
At top prod. interval reported	bekw					Range 2/ E	ast, on.	it Letter E
Same		MA PERMIT NO.		DATE ISSU	ED	12 COUNTY OR	13. STATE	<u> </u>
At total depth		WDW-2	1	Anri	1 27, 199	PARISH 9 Eddy	New	Mexico
Same		17. DATE COMP (Ready In	n prod)	APII	18. ELEVATIONS (OF, RKB, RT, GR, ETC.)*		19. ELEV. CASINGHEAD
DATE OF ODDE	IN DATE TO THE	6-8-99	- - -			; 3623' RKB		3609' GL
-18-73 TOTAL DEPTH, MD &	8-27-73 TVD 21, PLUG, BACK		IF MULTIPLE		23. INTERVALS DRILLED BY	ROTARY T	oous	CABLE TOOLS
0, 372' TVD	8770'		HOW MANY		- CRICED OF	▶ All		
PRODUCING INTERVAL (S		OP, BOTTOM NAME (MD.	AND TVD)*			25. WAS DIRECTIONAL	_ SURVE MADE?	7
L. Wolfcamp-C:						Yes 27. WAS WELL CORE	D?	
TYPE ELECTRIC AND OTHER	RLOGS RUN Fractu	re Finder a	nd Cal	iper	Logs, rmation	I .		No
Dual Induction	n Laterlog, C	ompensated CASING RECOR	Neutro	n. FO	(Report all strings			
	WEIGHT, LB./FT.	DEPTH SET		E SIZE	TOP C	F CEMENT, CEMENTING RE	CORD	AMOUNT PULLED
CASING SIZE/GRADE	N/A	40'	N/	Α	Surfa			None
8-5/8"	32	1995'	11			ce. 800 sx Cl		None None
5-1/2"	17	8869'	 7-	7/8"	Surfa	ce. 1570 sx Cl		HONG
	LINER RECORD				30	TUBING RECORD		DIGWED SET (40)
SIZE TOP (MD)		SACKS CEMENT	SCRE	EN (MD)	SIZE	лертн s 7528 '	ET (MD	7528 1
JILL TO A STATE OF THE STATE OF			ļ		3-1/2"	1528		7320
	RD (Interval, size at	nd number)	32			SHOT, FRACTURE, CEM	ENT SQUEEZE	E, ETC.
PERFORATION RECOF					TERVAL (MD)			MATERIAL USED 15% HCl. plus
7858'-7880',	7886'-7904'.	7916'-7936'	·	70 · E	0 8399'	4600 pou	nds of :	rock salt as
7944'-7964'	7990'-8042',	8096'-8116	' 			diverter		
01011-82011	8304'-8319'.	8395'-8399	'					
(2 jspf for t	otal of 598	noies)	P	RODUCTI	ON	numn)	WELL ST	ATUS (Producing or
ATE FIRST PRODUCTION	PRODUCTION			ит, ритрт	g-size and type of	parry		shut-in) N∕A
N/A		CHOKE SIZE	/A	FOR	OIL-BBL.	GAS-MCF.	WATER-6	BL GAS-OIL RATIO
ATE OF TEST	HOURS TESTED	N/A	TEST P	ERIO	EDTEN S	R RECORD		
N/A	N/A	24-HOUR RATE	OIL-BBL		CHO MEF	JA ACCURD	OIL GRAV	VITY-API (CORE)
LOW, TUBING PRESS		CALCULATED				1005		
N/A	N/A	1		7-1	30. 29	14999	TEST WI	TNESSED BY
M. DISPOSITION OF (Said	, used for fuel, vented, etc.)	,	ADIA :	don	ALBUA			
N / A S. LIST OF ATTACHMENT	s	,	ORIG.	1 ′		JURLEY"		
Deviatio	n Report at the foregoing and at	fached information	is complete	e and co	neci as determ	med from all available	records.	
6 Thereby certify th	at the loregolity and at		•	~	Λ1 ~		DAT	= 7/19/99

TITLE

SIGNED

Env. Mar

DATE



Patterson Drilling Company

Midland Texas 79701

France Street — (915) 682-9401

Midland Texas 79701

MGMT. A

RECEIVED

JUN 0 4 1999

June 2, 1999

SUBSURFACE TECHNOLOGY, INC.

Drilling Department Subsurface Construction Corporation 7020 Port West, Ste 100 Houston, TX 77024

RE:

Inclination Report Navajo WDW-2

Sec 12; T-18-S; R-27-E

Gentlemen:

The following is an inclination survey on the above referenced well located in Eddy County, New

2898' - 0.25

3838' - 0.25

4783' - 0.50 6106' - 0.75

6633' - 0.50

Sincerely,

Rebecca Edwards

Rebecca A. Edwards Administrative Assistant

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing was acknowledged before me this 2nd day of June, 1999 by Rebecca A. Edwards.

MY COMMISSION EXPIRES:

TREVA FORRESTER NOTARY PUBLIC STATE OF TEXAS My Comm. Exp. 9-2-2000

TELEPHONE (505) 748-3311

REFINING COMPANY

FAX (505) 746-6410 ACCTG (505) 746-6155 EXEC (505) 748-9077 ENGR (505) 746-4438 P/L

EASYLINK 62905278

501 EAST MAIN STREET • P. O. BOX 159 ARTESIA, NEW MEXICO 88211-0159

July 19, 1999

Mr. James Amos United States Department of the Interior Bureau of Land Management P.O. Box 1778 Roswell, NM 88220

RE: Well Completion Report for Navajo's WDW-2i in E-12-T18S, R27E

Dear Mr. Amos,

Enclosed, please find two (2) copies of form OMB Form 1004-0137 pertaining to our WDW-2 injection well. If there are any questions concerning this submission, please call me at 505-748-3311. Thank you for your time in this matter.

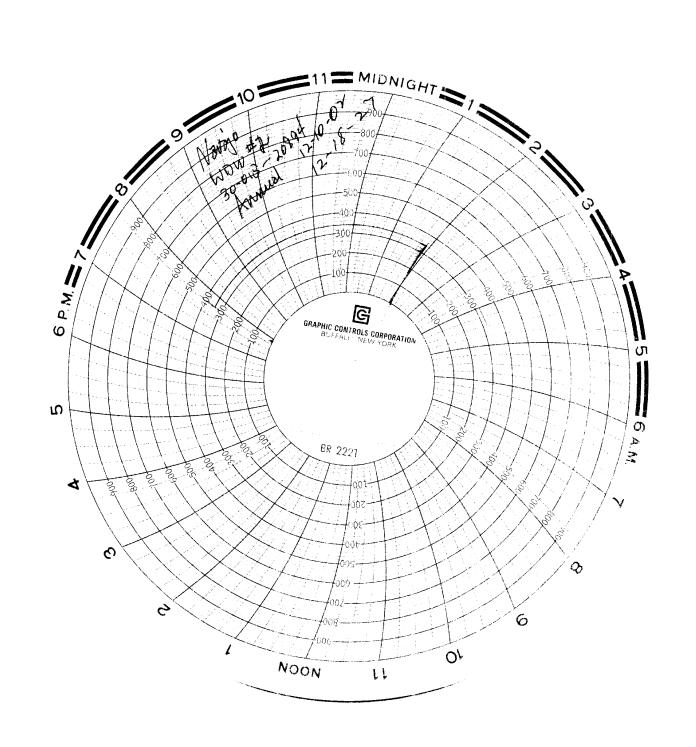
Sincerely,

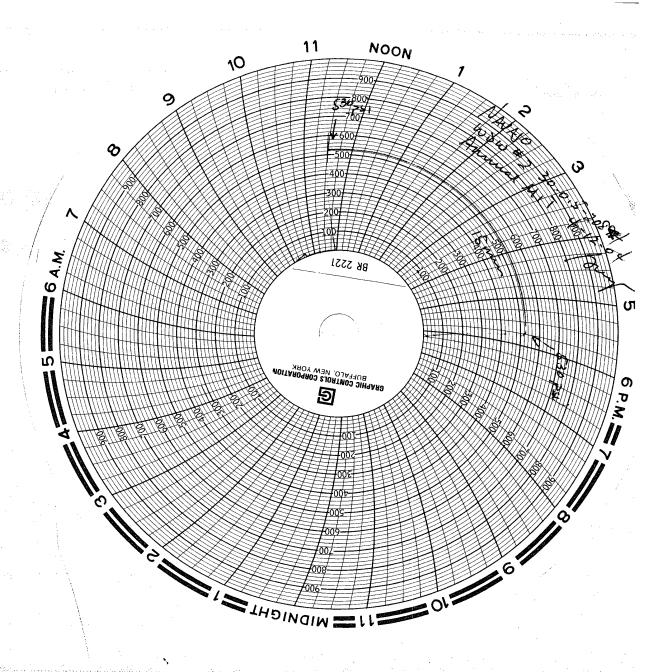
NAVAJO REFINING COMPANY

Darrell Moore

Environmental Mgr. for Water and Waste

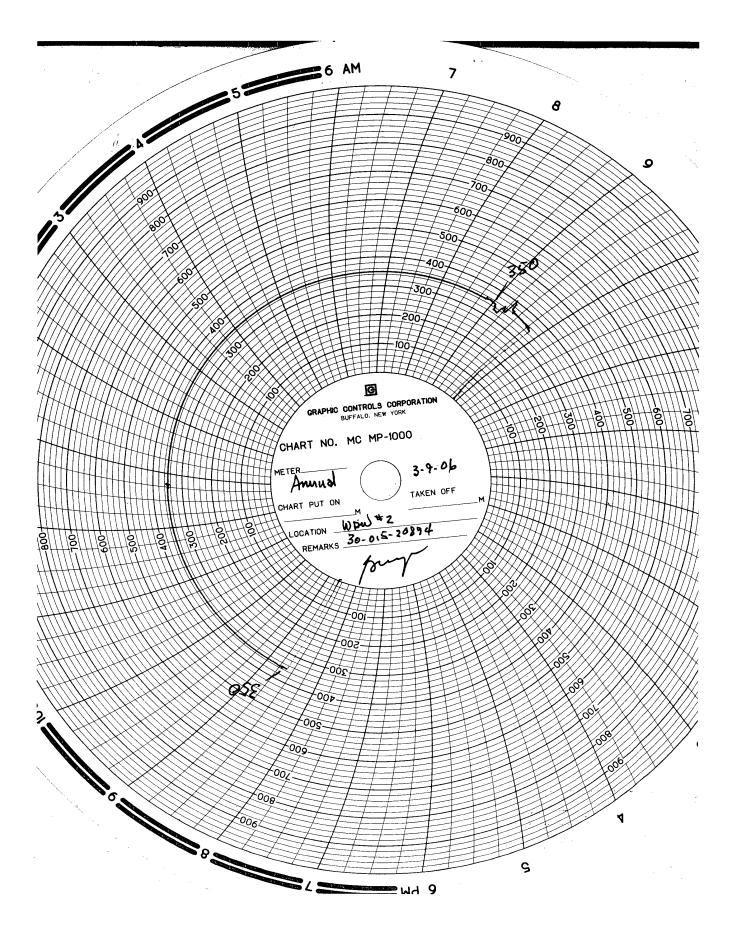
Encl.

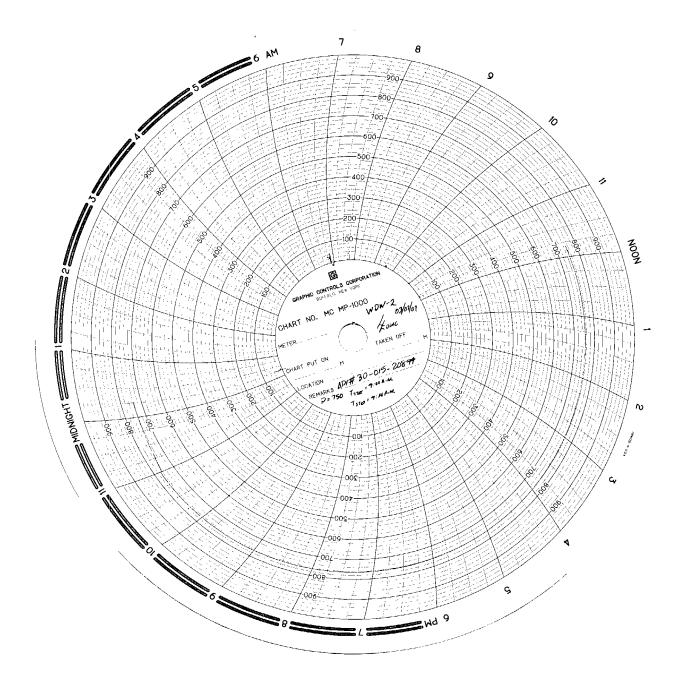


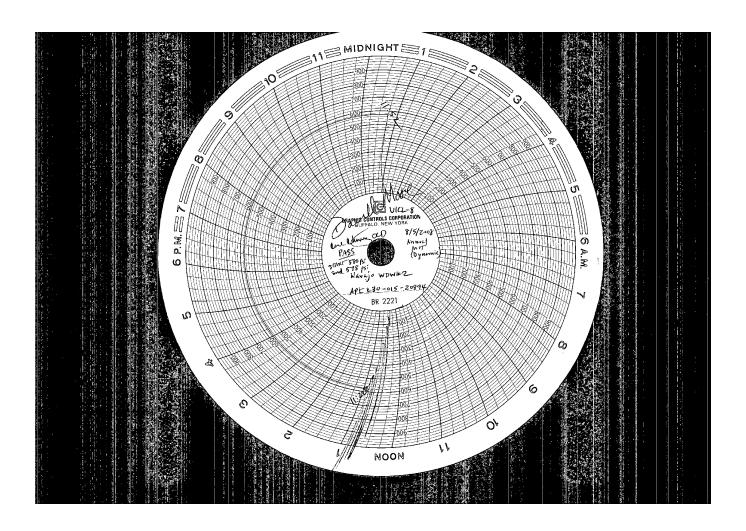


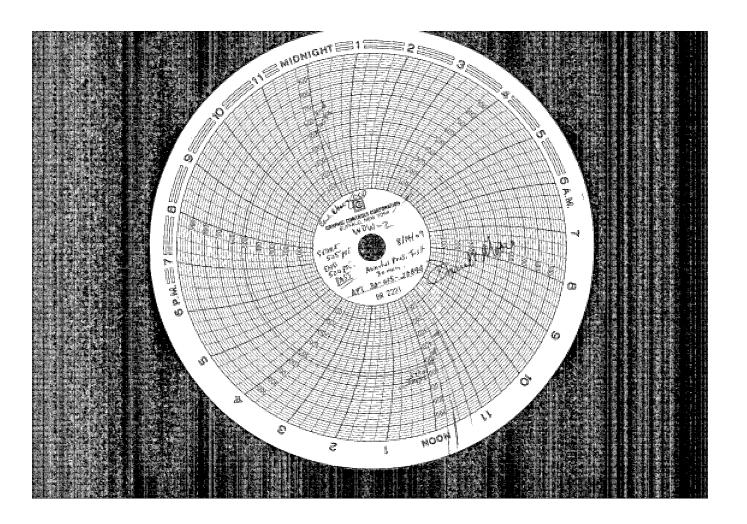
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OCD-ARTESIA









Chavez, Carl J, EMNRD

From:

Chavez, Carl J, EMNRD

Sent:

Thursday, August 12, 2010 1:55 PM 'Moore, Darrell'; Dade, Randy, EMNRD

To: Cc:

Lackey, Johnny

Subject:

RE: Mechanical Integrity Tests

Darrell:

OCD confirms that the annual MITs performed on WDW-1 (UICI-8) and WDW-2 (UICI-8-1) passed.

Thank you.

Carl J. Chavez, CHMM

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

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

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

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

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

Sent: Thursday, August 12, 2010 10:39 AM **To:** Chavez, Carl J, EMNRD; Dade, Randy, EMNRD

Cc: Lackey, Johnny **Subject:** MIT's

Carl

Attached, please find the charts for the MIT's that were performed on our Injection wells WDW-1 and WDW-2 today. Both wells passed the Mechanical Integrity Tests with no drop off in pressure. As you know, the MIT on WDW-3 was performed earlier in the year and was submitted to OCD. In addition, there was no pressure on either of the well's bradenhead. If there are any questions concerning this submission, please call me or email me. Thank you.

Darrell Moore

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

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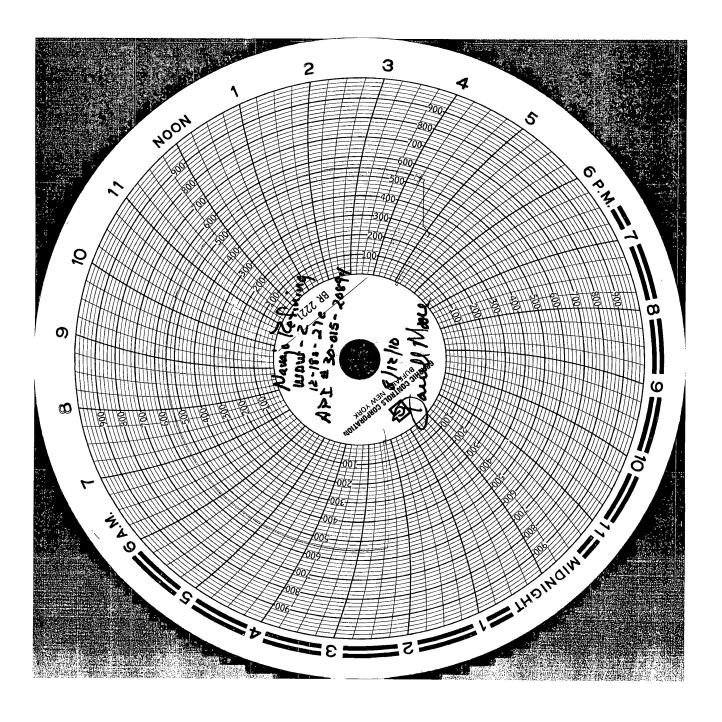


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1



Chavez, Carl J, EMNRD

From:

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Sent: To: Thursday, August 12, 2010 1:55 PM 'Moore, Darrell'; Dade, Randy, EMNRD

Cc:

Lackey, Johnny

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RE: Mechanical Integrity Tests

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Thank you.

Carl J. Chavez, CHMM

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

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

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

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

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Darrell Moore

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

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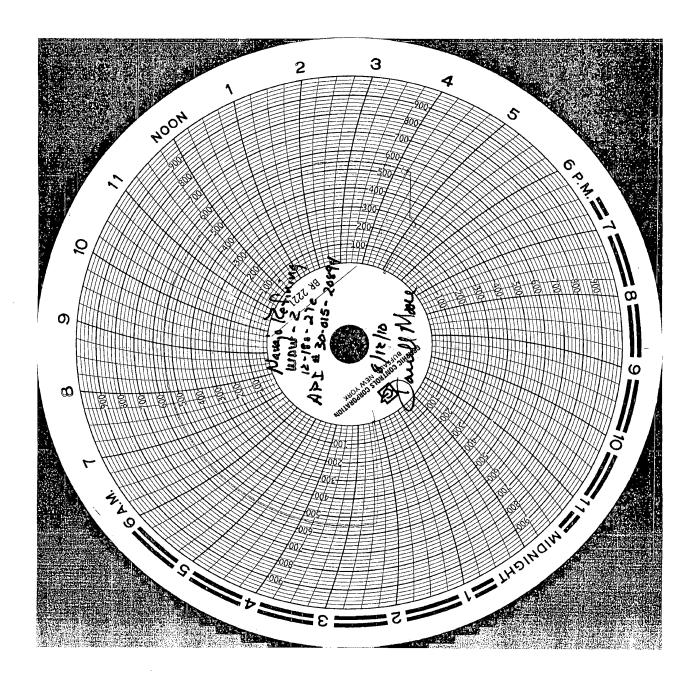
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received this message in error, please advise the sender immediately by reply e-mail and do not retain any paper or electronic copies of this message or any



Submit 1 Copy To Appropriate District	State of New Me	exico		Form C-103
Office <u>District I</u> – (575) 393-6161 1625 N French Dr., Hobbs, NM 88240	Energy, Minerals and Natu	ral Resources	WELL API NO.	sed August 1, 2011
<u>District II</u> - (575) 748-1283	OIL CONSERVATION	DIVISION	30-015-20894	
811 S First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	1220 South St. Fran	ncis Dr.	5. Indicate Type of Lease STATE ☐ F	EE 🗍 '
1000 Rio Brazos Rd , Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 1220 S St Francis Dr , Santa Fe, NM	Santa Fe, NM 8'	7505	6. State Oil & Gas Lease ?	
87505 SLINDRY NOT	ICES AND REPORTS ON WELLS		7. Lease Name or Unit Ag	preement Name
(DO NOT USE THIS FORM FOR PROPODIFFERENT RESERVOIR USE "APPL	OSALS TO DRILL OR TO DEEPEN OR PLICATION FOR PERMIT" (FORM C-101) FOR	UG BACK TO A	Chukka WDW-2	greement ivanie
PROPOSALS) 1. Type of Well: Oil Well	Gas Well Other Injection W	'ell	8. Well Number WDW-2	
2. Name of Operator			9. OGRID Number	
Navajo Refining Company			10 Deel news on Wildret	Ni
3. Address of Operator Post Office Box 159, Artesia, Ne	w Mexico 88211		10. Pool name or Wildcat Penn 96918	Navajo Permo-
4. Well Location				
Unit Letter <u>E</u> :	1980 feet from the North	ı line aı	nd 660 feet from the	e <u>West</u> line
Section 12	Township 18S	Range 27E		County Eddy
	11. Elevation (Show whether DR 3607' GL, 3623' RKB	, RKB, RT, GR, etc.,)	
Brade of Ashard Brade Control of the	2007 32,4000			** THE P. S. S. S. S. S. S. S. S. S. S. S. S. S.
12. Check	Appropriate Box to Indicate N	lature of Notice,	Report or Other Data	
NOTICE OF I	NTENTION TO:	l cup	SEQUENT REPORT	OE:
PERFORM REMEDIAL WORK		REMEDIAL WOR		OF. ING CASING □
TEMPORARILY ABANDON		COMMENCE DR		_
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	T JOB 🔲	
DOWNHOLE COMMINGLE	•			
OTHER: PERFORM PRESSURE PRESSURE TEST	FALLOFF TEST, ANNULUS	OTHER:		
13. Describe proposed or com	pleted operations. (Clearly state all	pertinent details, an	d give pertinent dates, include	ding estimated dat
of starting any proposed w proposed completion or re	ork). SEE RULE 19.15.7.14 NMA	C. For Multiple Co	mpletions: Attach wellbore	diagram of
October 17, 2011 Perfe	rm an annulus pressure test with an	initial pressure of 60	Oncia and run the test for 2	O minutas Install
	DW-1, WDW-2, and WDW-3 by 1			o minutes. Instan
October 18, 2011 – Conti	nue injection into all three wells.			
	:15pm, the offset wells WDW-1 and			
	nd continue for a 30 hour injection p 00pm, WDW-2 will be shut in for a			
October 21,2011 – All the	ree wells will continue to be shut in	while monitoring fa	lloff pressure in all three we	lls.
	00am, acquire downhole pressure ga			
	nute gradient stops while coming ou urface). Run in hole with a tempera			
	ells back to Navajo personnel.	ture toor and condu	et temperature survey from t	ine surface to the
			_	
-P20 1			DECEL	VED
ONChele	/0//// for record ICD		111111111111111111111111111111111111111	2011
NAC	iot lecoloi		OCTO	2011
• NO 00 NO	•		RECEIV OCT 07 NMOCD A	RTESIA
			NMOCE	

Rig Release Date:

Spud Date:

I hereby certify that the information above is true and c	complete to the best of my knowledge and belief.	
SIGNATURE Limithy Jones Type or print name Timothy Jones For State Use Only	_TITLE Project Engineer _ E-mail address: #jones e subsurfacegroup.com	
APPROVED BY: Conditions of Approval (if any):	TITLE	_DATE

Submit 1 Copy To Appropriate District	State of New Me	vico .	Form C-103
Office District I – (575) 393-6161	Energy, Minerals and Natu		Revised August 1, 2011
1625 N. French Dr., Hobbs, NM 88240	3,,		WELL API NO.
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION	DIVISION	30-015-20894
District III - (505) 334-6178	1220 South St. Fran	ncis Dr.	5. Indicate Type of Lease STATE FEE □
1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460	Santa Fe, NM 87	7505	6. State Oil & Gas Lease No. 6852
1220 S. St. Francis Dr., Santa Fe, NM			0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0
87505 SUNDRY NOT	ICES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPODIFFERENT RESERVOIR. USE "APPLI	OSALS TO DRILL OR TO DEEPEN OR PLI CATION FOR PERMIT" (FORM C-101) FO	JG BACK TO A	Chukka WDW-2
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well Other Injection W	ell ·	8. Well Number WDW-2
2. Name of Operator			9. OGRID Number
Navajo Refining Company			
3. Address of Operator	M 00211	•	10. Pool name or Wildcat: Navajo Permo-
Post Office Box 159, Artesia, Ne	w Mexico 88211		Penn 96918
4. Well Location			,
Unit Letter <u>E</u> :	1980 feet from the North		
Section 12	Township 18S	Range 27E	NMPM County Eddy
4.5	11. Elevation (Show whether DR 3607' GL, 3623' RKB	RKB, RT, GR, etc.)	
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12 Check	Appropriate Box to Indicate N	ature of Notice	Report or Other Data
			•
	NTENTION TO:		SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	_
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	I JOB
DOWNHOLE COMMINGLE		· ·	
OTHER: PERFORM PRESSURE	FALLOFF TEST, ANNULUS	OTHER:	
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I hereby certify that the information above is true and co	implete to the best of my knowledge and belief.
Type or print name Timothy Jones For State Use Only	E-mail address: Hones esubsurfacegroup.com PHONE: 713-580-4640
APPROVED BY: Conditions of Approval (if any): See E-mil	TITLE Expressionmental Engine DATE 10/19/2011 Conditions dated 10/19/2011 Attached to WOW-1.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Wednesday, October 19, 2011 4:06 PM

To: 'Moore, Darrell'

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

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

Off Test Plan (August 2011)

Darrell:

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

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

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

Comments:

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

Observations:

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

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

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

Recommendations:

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

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

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM

New Mexico Energy, Minerals & Natural Resources Dept.

Oil Conservation Division, Environmental Bureau

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

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

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

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

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

Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at: http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental)

Office	State of New M		Form C-10			
District I - (575) 393-6161	Energy, Minerals and Nat	tural Resources	Revised August 1, 2011			
1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283			WELL API NO.			
811 S. First St., Artesia, NM 88210	OIL CONSERVATION	N DIVISION	30-015-20894			
District III – (505) 334-6178	1220 South St. Fra		5. Indicate Type of Lease			
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460	Santa Fe, NM 8		STATE FEE			
1220 S. St. Francis Dr., Santa Fe, NM	244410,11110	77505	6. State Oil & Gas Lease No.			
87505						
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Navajo Refining Company L.L.C.	The state of the s		3. GOIGD INGINIOEI			
3. Address of Operator		7/02	10. Pool name or Wildcat			
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4. Well Location	7. 2.20					
Unit Letter: 1980 feet from	the North line and 660 feet from t	the West line				
Section 12	Township 18 S	Range 27 E	E NMPM County Eddy			
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would be added in the existing, approv	ed, injection interval in Chukka V	VDW-2.				
NOTE: Work is proposed to be perform	ned in July 2013.					
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25015						
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I hereby certify that the information about	ove is true and complete to the bes	st of my knowledge	and belief.			
1 - 11						
SIGNATURE / small	TITLE Project	t Engineer	DATE 6 12 2012			
7	IIIEE_IIOJee	t Engineer	DATE 6-13-2013			
Type or print name Timothy Jones	E-mail address:	tiones@subsurfac	cegroup.com			
PHONE: 713-880-4640		The state of the s	Contract of the second			
For State Use Only						
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APPROVED BY: Curl Conditions of Approval (if any):	TITLE Envi	ronmental 6	Engineer DATE 6/18/2013			
Conditions of Approval (II any):/						

Submit I Copy To Appropriate District Office	State of New			Form C-103			
District I – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and N	Natural Resources	WELL API NO	Revised August 1, 2011			
District II - (575) 748-1283	OIL CONSERVATION	ON DIVISION	30-015-20894				
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	1220 South St. F		5. Indicate Ty				
1000 Rio Brazos Rd., Aztec, NM 87410			STATE	Gas Lease No.			
1220 S. St. Francis Dr., Santa Fe, NM							
SUNDRY NOTION (DO NOT USE THIS FORM FOR PROPOS.)	SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH						
1. Type of Well: Oil Well G	as Well Other (Class 1 NI	H Injection Well)	8. Well Numb	er WDW-2			
2. Name of Operator			9. OGRID Nu	mber			
Navajo Refining Company L.L.C. 3. Address of Operator							
501 East Main Street, Artesia, NM			10. Pool name	or Wildcat -Cisco-Canyon Inj. Zone			
4. Well Location			Lwi woncamp	-Cisco-Canyon Inj. Zone			
PENE DUNING CENTRUCK CONTRACTOR	the North line and 660 feet from	m the West line					
Section 12	Township 18		E NMPM	C			
	11. Elevation (Show whether I) NMPM	County Eddy			
	GL: 3,607 feet, RKB: 3,6223		,				
			1,700				
12. Check Ap	propriate Box to Indicate	Nature of Notice,	Report or Othe	er Data			
NOTICE OF INT		The second					
	PLUG AND ABANDON	REMEDIAL WOR	SEQUENT R	ALTERING CASING			
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DR		P AND A			
	MULTIPLE COMPL	CASING/CEMEN		, ratio X			
DOWNHOLE COMMINGLE							
OTHER:	П	OTHER					
13. Describe proposed or complete	ed operations (Clearly state a	OTHER:	d airea mantinant da				
or starting any proposed work). SEE RULE 19.15.7.14 NM/	AC. For Multiple Con	mpletions: Attach	wellhore diagram of			
proposed completion or recon	apletion.	**************************************	•	and angium of			
A caliper survey will be conducted on	the 3-1/2-inch injection tubing.	The caliper survey is	s scheduled to be r	performed on June 10, 2012			
Navajo will conduct an acid stimulation. The stimulation fluid will consist of 20	n of the injection interval in the	WDW-2 to increase	injectivity into the	permitted injection zone.			
The stimulation fluid will consist of 20 acid will be injected into the well using	,244 gailons of 15% Fict acid i	injected into the perfo	rated interval of 7,	270 to 8,894 feet RKB. The			
acid will be injected into the well using	con tubing equipment.						
NOTE: Work is avacated to be a sefermed	-1:-T - 1:-1 - 0010						
NOTE: Work is expected to be perform	ed in June and July 2013.						
	450						
Spud Date:	D' D L F						
Spud Date.	Rig Release D	Date:					
0.550-100.5 Strategy (2)		10	PARTICIA DE LA COMPANION DE LA				
I hereby certify that the information abo	we is true and complete to the 1	l					
2	ve is true and complete to the t	best of my knowledge	and belief.				
1 #							
SIGNATURE fundly for	TITLE Proj	ect Engineer	D	ATE6-13-2013			
Type or print name Timothy Jones	M. marrie Carre	SUBJECTED BY SERVING THE CONTROL OF					
PHONE: 713-880-4640	E-mail add	ress: <u>tjones@subs</u>	surfacegroup.com				
For State Use Only							
APPROVED BY: Could the Conditions of Approval (if and):	TITLE EN	ciron mental En	giner DA	TE 6/18/2013			



NAVAJO REFINING COMPANY Map ID No. ろう Artificial Penetration Review

OPERATOR Yates Petroleum Co. LEASE Violet Blv State Com WELL NUMBER 1 DRILLED NA PLUGGED NA REMARKS: Not yet drilled. Propos	LOCATION Sec. 14 -T18S-R27E MUD FILLED BOREHOLE NA TOP OF INJECTION ZONE NA API NO. 30-015- 40187
Proposed Co	
TD; 10,500'	⟨2" @ 10,500' ω 2350 sx

District I 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax (575) 393-0720 Prince (3/5) 393-6161 Fay (3/5) 393-0720 Obstrict III 811 S First St., Artesia, NM 88210 Phone (3/5) 748-1283 Fax (5/5) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone (305) 334-6178 Fax (505) 334-6170

State of New Mexico

Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-101 Revised December 16, 2011 RECEIVED

FEB 15 2012 NMOCD ARTESIA

AP	PLICA'	TION F	OR PERMI	T TO DRILL	, RE-E	NTER,	DEEPE	N, PLUGB	ACK, O	R ADD A ZONE
V-+	D-+		Operator Name						OGRID N	lumber 5575
			Corporation)11					3 API Nui	
Art	esia,		xico 88210					30-0	3/5-	40187
4 Prop	erty Code 35452	,		Pro Violet I	perty Name BIV State C	e Com		, , ,		^o Well No.
				⁷ Sı	ırface I	Location	1			
UL - Lot A	Section 14	Township 18S	Range 27E	Lot Idn A	Feet from 660		S Line Orth	Feet From 990	E/W Line East	1
	1			8 Pc	ol Info	rmatio	1			
				Wildcat Che						97825
9 11/0-	k Type		10 Well Type	Addition	Cable/Rotar			ease Type		³ Ground Level Elevation
	N Type		G		Rotary	У		State		3540' GL
_	ultiple		15 Proposed Depth	ı	¹⁶ Formation		17 (Contractor .		18 Spud Date
Depth to Gro	und water		10,500	nce from nearest fresl	Chester h water well		Not D	etermined Distance	ASAP rface water	
			19	Proposed Ca	sing an	nd Ceme	ent Progr	am		
Туре	Hol	e Sıze	Casing Size	Casing Weight	t/ft	Setting Depth Sacks of		Cement	Estimated TOC	
New		7.5	13.375	48#		400' 42			0	
New		2.25	9.625	36#		2500' 85		_	0	
New	- 8	75	5.5	15.5#		10500' 235		0	0	
					:					
			Casi	ng/Cement Pr	ogram:	: Additi	onal Con	nments		
				Proposed Blov	wout Pi	reventio	n Progra	ım		·
	Туре		,	Working Pressure		Test Pressure . Mai			Manufacturer	
D	ouble R	.am		5000#			5000#			
										1.
I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to						OIL CONSERVATION DIVISION				
NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan					ve Ap	Approved By.				
Signature. Characteristics						1 C Sylagiora				· · · · · · · · · · · · · · · · · · ·
Printed name					Tıt	tle	(7B)			1.6
Title.		egulatory	, ,		. Ap	proved Dat	4/18/	2012 E	xpiration Da	ite. 4/18/2014
E-mail Addre	ess cy@ya	tespetroleur	n com				17			1. 1
Date 02/14/2012 Phone 575-748-4372						onditions of	Approval Atta	hed		.*

District I 1625 N. French Dr., Hobbs, NM 88240 District H 1301 W. Grand Avenue, Artesia, NM 88210 District 111

State of New Mexico RECEIVED Form C-102
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION FEB 15 Submit to Appropriate District Office State Lease - 4 Copies

1000 Rio Brazos I <u>District IV</u> 1220 S. St. Franci			i			, NM 87505	NMOCE	AR	TESIA		ee Lease - 3 Copies ENDED REPORT
				OCAT	ION AND A	CREAGE DEDI	CATION	PLA	τ] VIA	ENDED KEI OKI
30-015	API Number										
⁴ Property	Code				5 Prope	erty Name	1		1000		Well Number
35452				VI	OLET BIV	STATE COM					1
7 OGRID	No.				-	ator Name					⁹ Elevation
025575			Y	ATES		UM CORPORA	ATION				3540
UL or lot no.	To .:	Im 11	15.	1	Surfa	ce Location					T
UL of lot no.	Section 14	Township 18-S	Range 27-E	Lot Idn	Feet from the	North/South line NORTH	Feet from th		East/West lin		County
AL	1 14	10-0	1		1				EAS	<u> </u>	E IVIV
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	n If Different Fre	Feet from th	ie e	East/West lin	ie	County
		<u> </u>	<u></u>				<u> </u>				
12 Dedicated Acre	e ¹³ Joint o	r Infill	Consolidation	Code	¹⁵ Order No.						
	will be as	signed to the	his comple	tion unt	il all interests ha	ave been consolidate	d or a non-	standa	rd unit has	been a	approved by the
division.								17			
10		İ				O W	[] ine				RTIFICATION ined herein is true and complete
						9	- ■		•		d that this organization either
									-		ing the proposed bottom hole
						2 990			-		this location pursuant to a interest, or to a voluntary
						LAT N32.75 LON W104.2	293 🛭 🕬				ng order heretofore entered by
				_		DOIT WIGH.	1357	F	(M)	or	02/14/12
							Sign	nature	,		Date
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							18	SUR	VEYOR	CER	TIFICATION
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							DA	IN IST	EDDY NW	PERP	8#5412



NAVAJO REFINING COMPANY Map ID No. ♂ Artificial Penetration Review

OPERATOR Yates Petroleum Co.	STATUS Cancelled App
LEASE Violet BIV State Com	LOCATION Sec. A -T18S-R27E
WELL NUMBER	MUD FILLED BOREHOLENA
DRILLED NA	TOP OF INJECTION ZONE NA
PLUGGED NA	API NO. <u>30-015-</u> 36939

REMARKS:

Proposed TD: 10,500'

• • • • • • •

District I

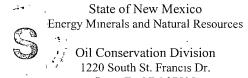
1625 N French Dr , Hobbs, NM 88240

District II

1301 W Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410



FEB 13 2009



Submit to appropriate District Office

☐ AMENDED DEDOD3

District IV 1220 S St Fra				•	1		a Fe, N					□ <i>P</i>	MENDED REPORT
			ERMIT TO	O DRII	LL, R	E-EN'	TER,	DEE	PEN,				
PLUGBA	ACK, O	R ADD	A ZONE	o and Addr	2000						2 ()	CDID Numb	
Operator Name and Address							² OGRID Number 025575				31		
			Yates Petroleu		ion						3	API Number	
			Artesia, N	Street M 88210						> 4	30-0î	5-3/6	739
³ Prop	erty Code					⁵ Property	Name					• We	ell No
	·34452 35	<u> </u>			Vı	olet BIV S	tate Com						1
			Proposed Pool 1 Chester	•							10 Proposed	Pool 2	
⁷ Surface	Location	n											
UL or lot no A	Section 14	Township 18S	Range 27E		t Idn A		on the		South line Iorth	Feet from 990'	the E	ast/West line East	County Eddy
8 Proposed	Bottom H	ole Locat	ion If Differei	nt From S	urface				L.		·		
UL or lot no	Section	Township	Range		t Idn	Feet fi	rom the	North	/South lin	Feet from	the Ea	ast/West line	County
Additiona	ıl Well I	nformat	ion								· · ·		
11 Work	Type Code N		12 Well Type C G \	Code		13 Cab	le/Rotary		14	Lease Type C	ode	15 Gro	ound Level Elevation 3540'
¹⁶ N	Multiple		17 Proposed De	epth		¹⁸ Fo	rmation			19 Contractor	г		²⁰ Spud Date
	N	L	10,500'			Ch	ester			Not Determin	ned		ASAP
²¹ Propose	ed Casir	og and C	ement Prog	ram									
Hole			sing Size		ng wengh	ıt/foot	Setting Depth Sacks of Cement Est			Estimated TOC			
17.1	12		13 375		48#		400'		425 sx		1	0	
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8 7	5		5.5		15 5#			10500 235		350 sx 0		0	
22 25 1 1			a.i							L			
			f this application gram, if any Use					the data	a on the pr	esent product	tive zone an	id proposed r	new productive zone
Vates Petro	leum Con	noration n	ronoses to dr	ill and tes	t the C	hester/ir	ntermed	ate for	rmations	Approvir	nately 400), of surfac	e casing will be set
and cement	circulated	l Interme	ediate casing v	vill be se	t at 250	0°. cem	ent circ	ulated	to surfac	e If comm	nercial, pr	oduction c	asing will be ran
can cemente	ed, perfor	ated and s	tımulated as r	eed to ga	ın proc	luction					, _F -		
			W Gel; 400'-2									Starch/ 4-0	5%KCL
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ionnanon u	ineet me	OCD S II	ııımınımı requ	nements	ioi uie	Submiss	31011 01 2	сопш	igency p	ian per Kui	e 116.		
-	-		given above is	true and co	mplete t	o the bes							
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Februar	y 6, 2009		(5	75) 748-	4372								(EMTE
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1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District [1] os Rd., Aztec, NM 87410 1000 Rio Braz District IV

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

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

O

☐ AMENDED REPORT

1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT 30-<u>015-3693</u> Chester * Property Code Property Name 35459 Violet BIV State Com OGRID No. 3 Operator Name Elevation 025575 Yates Petroleum Corporation 3540' ¹⁰ Surface Location UL or lot no. Range Feet from the North/South line Peet from the County 27E 660' 14 18\$ North 990' Eddy East 11 Bottom Hole Location If Different From Surface UL or lot no. Feet from the North/South line East/West line Feet from the County 12 Dedicated Acres ⁱ³ Joint or Iwfill Order No. 3ao E2

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the

16			17 OPERATOR CERTIFICATION
k 1 1		Q	I hereby certify that the information contained herein is true and complete
		,009	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
ll t	*	0-000	the proposed bottom hole location or has a right to drill this well at this
		990'	location pursuant to a contract with an owner of such a mineral or working
		,	unterest, or to a voluntary pooling agreement or a compulsory pooling
l i i		l d	Dayler heretofore emered by the division
		 	1 90. 8 CO W 1/17/08
	ł.		Walle & willes
			Signature Date
			Oor
			Cy Cowan, Regulatory Agent
			Printed Name
1 1			
			18
			¹⁸ SURVEYOR CERTIFICATION
			I hereby certify that the well location shown on this
1			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.
1 . 1		_	_
<u> </u>			Datt of Survey
	1		
			Signature and Seal of Professional Surveyor
		1	REFER TO ORIGINAL PLAT
1	,		
			,
			Certificate Number
		<u> </u>	

District I
1625 N. French Dr., Hobbs, NM 28249
<u>District II</u>
1301 W. Grand Avenne, Artesia, NM 883
<u>District III</u>
1009 Rio Brazos Rd., Axiec, NM 87410
<u>District IV</u>

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

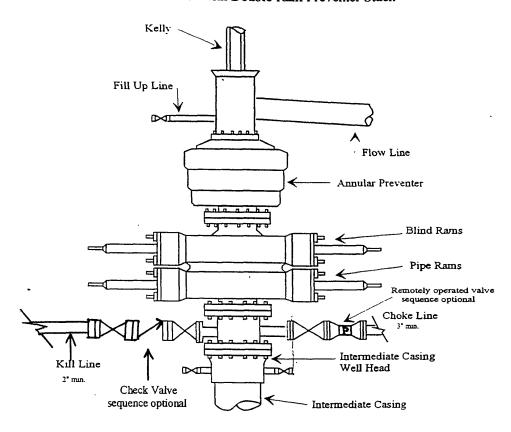
☐ AMENDED REPORT

		1	WELL LO	CAT	TON AND	ACREA	GE DEDI	CATIC)N PL	AT		
	API Numbe			² Pool					³ Pool N			
<u> </u>	-015-					l		-				
⁴ Property	1					operty Name						⁴ Well Number
354	52			V	IOLET BI							1
⁷ OGRID					-	erator Name						⁹ Elevation
2557	rS		YA	ITES	PETROLI			ATION	[3540
······································					10 Sur	face Loc	cation			***************************************		
UL or lot me.	Section	Township	Range	Lot Ida	Feet from th		th/South line	Feet from	n the	East/West lis	ne .	County
A	14	18-5	27-E	•	660)]]	NORTH	9	90	EAS	ST	EDDY
************		<u> </u>	" II B	ottom	Hole Locat	ion If D	ifferent Fr	om Sur	face			
UL or lot no.	Section	Township	Range	Lot Ida			the South line	Feet from		East/West in	BC	County
		1	}					1				
12 Dedicated Acro	e ¹³ Joint e	or Infill 14	Consolidation	Code	15 Order No.						*************	
		1		1	İ							
No allowable	will be as	signed to	his comple	tion un	til all interests	have bee	= consolidate	ed or a no	hete-er	ard unit har	heen	approved by the
division.				,440.1	M. W	100.0 000	M OVERVALUE	A 01 a	788° 479448.2	ma man a		upproves sy a
16									17 (PERATO	R CE	RTIFICATION
		1		١			8	. 1	I hereby cen	elfy that the inform	anion cons	ained herein is eree and complet
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-		L					LON W104.2		the division.	۸. ۵	_	^^ ^
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									Signature,	R. R. E.	DO NO	Surveyor O=O
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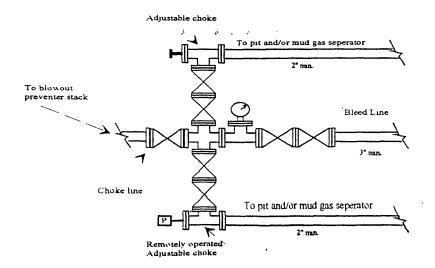


Yates Petroleum Corporation

Typical 5,000 psi Pressure System Schematic Annular with Double Ram Preventer Stack



Typical 5,000 psi choke manifold assembly with at least these minimun features



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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 CLEZ July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application (that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action	Permit 🔲 Closure		
		_	

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144. Please be advised that approval of this request does not relieve the operator of hability should operations result in pollution of surface water, ground water or the

invironment. Nor does approval relieve the operator of its responsibility to comply with any of	ther applicable governmental authority's rules, regulations or ordinances
Operator: Yates Petroleum Comporation	OGRID #:025575
Address: 105 South Fourth Street, Artesia, New Mexico 88210	
Facility or well name: Violet BIV State Com #1 30-015-36939	
API Number: OCD Permit Number:	
U/L or Qtr/Qtr A Section 14 Township 18S Range	27E County: <u>Eddy</u>
Center of Proposed Design: Latitude N32,75293 Longitude W104.24	397NAD: ⊠1927 ☐ 1983
Surface Owner: 🗌 Federal 🛭 State 🛄 Private 🔲 Tribal Trust or Indian Allotment	
2. ⊠ Closed-loop System: Subsection H of 19.15.17.11 NMAC Operation: ⊠ Drilling a new well □ Workover or Drilling (Applies to activities which □ Above Ground Steel Tanks or ☑ Haul-off Bins	require prior approval of a permit or notice of intent) P&A
3. Signs: Subsection C of 19.15 17 11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telep	phone numbers
⊠ Signed in compliance with 19.15.3.103 NMAC	<u></u>
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 Instructions: Each of the following items must be attached to the application. Please attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19. Closure Plan (Please complete Box 5) - based upon the appropriate requirements	indicate, by a check mark in the box, that the documents are
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number:	
Disposal Facility Name: CRI Disp	Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) ing fluids and drill cuttings. Use attachment if more than two losal Facility Permit Number: NM-01-0019 R-9166 posal Facility Permit Number: NM-1-035
Will any of the proposed closed-loop system operations and associated activities occur Yes (IF yes, please provide the information below) \(\otimes \) No	on or in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operations. Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection I of	19.15.17 13 NMAC

0209130

1.59
Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Cy Cowan Title: Regulatory Agent
Signature: Date: 2/6/09
e-mail address: <u>cy/i/yijtespetroleum.com</u> . Telephone: <u>575-748-4372</u>
OCD Approval: X Permit Application (including closure plan) [Closure Plan (only)
12-24-19
OCD Representative Signature: / Acqui Voquex Approval Date: 02-24-09
Title: District 11 Grodogist OCD Permit Number: 0209/36
Subsection K of 19.15.17.13 NMAC Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:
9 ,
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more the two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) \(\begin{align*}\) No
Required for impacted areas which will not be used for future service and operations:
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
10.
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and
belief. I also cerufy that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Tule:
Signature Date:
e-mail address: Telephone

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Yates Petroleum Corporation Closed Loop System

Equipment Design Plan

Closed Loop System will consist of:

- 1 double panel shale shaker
- 1 (minimum) Centrifuge, certain wells and flow rates may require 2 centrifuges On certain wells, the Centrifuge will be replaced by a Clackco Settling Tank System
- 1 minimum centrifugal pump to transfer fluids
- 2-500 bbl. FW Tanks
- 1-500 bbl. BW Tank
- 1 half round frac tank 250 bbl. capacity as necessary to catch cement / excess mud returns generated during a cement job.
- 1 Set of rail cars / catch bins

Certain wells will use an ASC Auger Tank

Operation Plan

All equipment will be inspected at least hourly by rig personnel and daily by contractors personnel.

Any spills / leaks will be reported to YPC, NMOCD, and cleaned up without delay.

Closure Plan

Drilling with Closed Loop System, haul off bins will be taken to Gandy Marley, CRI and Lea Land Farm.

Submit 3 Copies To Appropriate District Office State of New Mexico	Form C-103
<u>District 1</u> Energy, Minerals and Natural Resources	June 16, 2008
1625 N. French Dr., Hobbs, NM 88240 District II	WELL API NO. 30-015-36939
1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION	5. Indicate Type of Lease
District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410	STATE STATE FEE
District IV Santa Fe, NIVI 8/303	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	VA-2131
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	7. Lease Name or Unit Agreement Name Violet BIV State Com
PROPOSALS.) 1. Type of Well: Oil Well ☐ Gas Well ☒ Other	8. Well Number
2. Name of Operator	9. OGRID Number
Yates Petroleum Corporation	25575
3. Address of Operator 105 S. 4 th Street, Artesia, New Mexico 88210	10. Pool name or Wildcat Chester
103 S. 4 Street, Artesia, New Mexico 66210	Chester
4. Well Location	
Unit Letter A 660 feet from the North line and 990 feet from	the <u>East</u> line
Section 14 Township 18S Range 27E NMPM	County Eddy
11. Elevation (Show whether DR, RKB, RT, GR, etc.	
3540° GR	V 800 11 11 11 11 11 11 11 11 11 11 11 11 1
12. Charle Annuagista Day to Indiasta Nations of Nation	Donast on Other Data
12. Check Appropriate Box to Indicate Nature of Notice,	Report of Other Data
	SEQUENT REPORT OF:
	K ALTERING CASING
TEMPORARILY ABANDON	
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMEN	-
OTHER: OTHER:	Extend APD
13. Describe proposed or completed operations. (Clearly state all pertinent details, an	
of starting any proposed work). SEE RULE 1103. For Multiple Completions: A or recompletion.	ttach wellbore diagram of proposed completion
	200
Yates Petroleum Corporation wishes to extend the Application for Permit to Drill for	two years until February 23, 2018.
Thonk you	LDEOEWED
Current NMOCD rules and	RECEIVED
N.A.A. > X + P(1/S(D))	JAN 1 9 2011
regulations must be met at APPROVED FOR 1 YEAR	SAN 10 2011
time of drilling EXPIRES: 2/23/2012	NMOCD ARTESIA
I hereby certify that the information above is true and complete to the best of my knowledge	re and belief
Thereby certify that the information above is that and complete to the best of my knowledge	se and belief.
SIGNATURE	DATE January 14, 2011
	DHONE (575) 749 4044
Type or print name Monti Sanders E-mail address montis@yatesp	etroleum.com PHONE: (575) 748-4244
	and with the state of the state
APPROVED BY David Dow TITLE Field Supervisor	DATE 1-26-11
Conditions of Approval (if any):	

District 1
1625 N French Dr., Hobbs, NM 88240
District II.
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 CLEZ July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of hability should operations result in pollution of surface water, ground water or the

environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable government	ntar authority's rules, regulations of ordinances.
I. OCRID# 0055	75
Operator: Yates Petroleum Corporation OGRID #: 0255 Address: 105 South Fourth Street, Artesia, New Mexico 88210	RECEIVED
Facility or well norm. Violat DIV State Com #1	FEB 1.5 2012
API Number:30 - 015 - 36939 OCD.Permit Number:	FED 13 ZUIZ
U/L or Qtr/Qtr A Section 14 Township 18S Range 27E County:	Eddy NMOCD ARTESIA
Center of Proposed Design: Latitude N32.75293 Longitude W104.24397 NA	D: [A1927
Surface Owner: Federal State Private Tribal Trust or Indian Allotment	
Closed-loop System: Subsection H of 19.15.17.11 NMAC Operation: ☑ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of Above Ground Steel Tanks or ☑ Haul-off Bins	of a permit or notice of intent) P&A
3. Signs: Subsection C of 19.15.17 11 NMAC ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☑ Signed in compliance with 19.15.3.103 NMAC	
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check ma attached. □ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.1	
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number:	
s. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bin Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttin facilities are required.	
Disposal Facility Name: Gandy Marley Disposal Facility Permit Num	
Disposal Facility Name: CRI Disposal Facility Permit Nur Disposal Facility Name: Lea Land Disposal Facility Permit Nur	
	_
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will no Yes (If yes, please provide the information below) No	n or used for future service and operations?
Required for impacted areas which will not be used for future service and operations. Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17 13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	H of 19.15.17.13 NMAC

0209130

6 Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurat	e and complete to the best of my knowledge and belief.
Name (Print): Cy Coyan	Title: Regulatory Agent
Signature: You	Date: <u>2/6/09</u>
e-mail address: <u>cy@vatespetroleum.com</u>	Telephone: <u>575-748-4372</u>
7. OCD Approval: Dermit Application (including closure plan) Closure Pla	n (only)
OCD Representative Signature: Acqui Zoover	Approval Date: 02-24-09
Title: District 11 Gredogst	OCD Permit Number: <u>0209136</u>
8. Closure Report (required within 60 days of closure completion): Subsection K Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of the section of the form until an approved closure plan has been obtained and the closure plan has been obtained and the closure plan has been obtained and the closure plan has been obtained and the closure plan has been obtained and the closure plan has been obtained and the closure plan has been obtained and the closure plan has been obtained and the closure plan has been obtained and the closure plan has been obtained and the closure plan has been obtained and the closure plan plan plan plan plan plan plan plan	implementing any closure activities and submitting the closure report. e completion of the closure activities. Please do not complete this
9. Closure Report Regarding Waste Removal Closure For Closed-loop Systems I Instructions: Please indentify the facility or facilities for where the liquids, drilling two facilities were utilized.	
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Faculity Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in Yes (If yes, please demonstrate compliance to the items below) No	n areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operation Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ns:
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure repelief. I also certify that the closure complies with all applicable closure requirements.	
Name (Print):	Title:
Signature	Date:
e-mail address:	Telephone.

Yates Petroleum Corporation Closed Loop System

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- 1- (minimum) Centrifuge, certain wells and flow rates may require 2 centrifuges On certain wells, the Centrifuge will be replaced by a Clackco Settling Tank System
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- 2-500 bbl. FW Tanks
- $1-500\ bbl.\ BW\ Tank$
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NAVAJO REFINING COMPANY Map ID No. ろう Artificial Penetration Review

OPERATOR Pre-Ongard Well Op. LEASE Pre-Ongard WELL NUMBER 1 DRILLED NA PLUGGED 10-6-73	STATUS Plugged LOCATION Sec. 11 -T18S-R27E MUD FILLED BOREHOLE NA TOP OF INJECTION ZONE ~ 148' API NO. 30-015- 0870
REMARKS: No casing into Injection	720ne. 77 Plug: Surf W/10sx
	Plug: 502-602' ω/60sx 7 133/8" @ 572' ω/700 sx
	Plug: 910'-1010'ω 50sx
	Plug: 1922'-2040' W1405x
77777 C	≥ 95/8'@ 1990' w/ 450s. Cut casing @ 960(pulled.
	Plug! 2900'-3400' W1305x
(1/1/17) PI	ug: 3735'-4119' W/30 sx
	1½"@ 4500', cut@ 2900', Dullad. PBTD: 41500'
TD: 72701	avy mud laden fluid

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(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office
Lease No.
Unit

OTICE OF INTENTIO	N TO DRILL	SUB	SEQUENT REPORT OF WATER SHUT-OFF
	N TO CHANGE PLANS	SUB	SEQUENT REPORT OF SHOOTING OR ACIDIZING
	N TO TEST WATER SHUT-OFF	1 1	SEQUENT REPORT OF ALTERING CASING
	N TO RE-DRILL OR REPAIR WE	1 1	SEQUENT REPORT OF RE-DRILLING OR REPAIR
	N TO SHOOT OR ACIDIZE	1 11	SEQUENT REPORT OF ABANDONMENT
	N TO PULL OR ALTER CASING. N TO ABANDON WELL	SUP	PLEMENTARY WELL HISTORY
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G Sec. and Sec.). No.) (Twp.)	(Range) (County or Subdivisi	•
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U. S. GOVERNMENT PRINTING OFFICE 16-8427-5

U. S. LAND OFFICE LAS Cruces SERIAL NUMBER IC 068051 LEASE OR PERMIT TO PROSPECT UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

TICSSC	or or Trac	t M	rth C.	McPhers	on	Field	Mildeat			Mexico
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so far	r as can b	e dete	ermined	from all a	tvanabie r	ecords.		wen and an	l work_	done thereon
Data	Nove	ther	26 10	. E.L	•	Signed	/ 	1765	·	<u> </u>
							Title_P	roduction	Fore	man
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Form C-103 (Revised 3-55)

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(Submit to appropriate District Office as per Commission Rule 1106)
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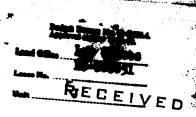
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## DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY



MAR 7 1962

## SUNDRY NOTICES AND REPORTS ON WELLSARTESIA, OFFICE

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(1990)		
(	ABOVE BY CHECK MARK MATURE OF REPORT, MOTICE, OR OTHE	
Ruth C. Warner	OTHER OR OTHER	D CATAL

Ruth C. McPhferson	ONT, NOTICE, OR OTHER DATA)
W.H.Y. 3	December 2, 1059
Well No. 1 is located 1960	, 1959

Well No. 1 is locate	1960	
W/4-SE/4, Sec. 11	1960 ft. from S line and 1960 ft. from E line	se of sec. 11
Wildest (Past)	Bidy (Maridian)	
	(County or Subdivision) New New Year See	VECI

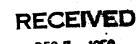
The elevation of the derrick floor above sea level is 3593 ft. RDB

JAN 29 1962

### DETAILS OF WORK

S. GEOLAS AL SURVEY PTES & TILLY MEXICO stive eardes show store, weights, and lengths of p ing points, and all other important proposed w On 11-11-59 P X A eperations were completed. Work done and plugs set as fellows:

- Cut and pulled 9 5/8" casing 0 960'.
- Set 25 ax cement plug @ 9601; 15 ax cement in bettem of 13 3/6" easing @ 572'; 10 ax ement plug at surface. All intervals filled with heavy a 3.
- Set P I A marker; restored ground to natural contour.



DEC 7 1959 U. S. GEOLOGICAL SURVE IESIA NEW MEXICO

Pan American Petroleum Corporation Dox 66

Nobbe, Now Mexico

Form 9-331 C N. M. O. C. SIBNIT IN TRIP CATE Form approved.
Budget Bureau No. 42-R1425.

(May 1963)	U	ED STATES		reverse si		Coxy 651	=
	DEPARTMENT		ITER	IOR		5. LEASE DESIGNATION	
		GICAL SURVE				NM-6850	
A DDL IC A TION	FOR PERMIT	O DBILL D	FFPF	N OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
	FOR PERIOR	O DRILL, D		it, OK I LOO B	- TCK		
1a. TYPE OF WORK  DRII	L	DEEPEN [	]	PLUG BAC	K 🗆	7. UNIT AGREEMENT N	AME
***************************************	s other R	e-Entry	S12 20	NGLE X MULTIP	LE	8. FARM OR LEASE NAME Ruth C. MC	
2. NAME OF OPERATOR Bill J. Sm	nith C					9. WELL NO.	
3. ADDRESS OF OPERATOR						1	
1504 Stag	ecoach Dr.,	Arlington	, Te	exas, 76013		10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (Re	port location clearly and	in accordance with	any S	tate requirements.*)		Artesia	L-
	EL Section 1	1, T-18-S	, R-	·27-E		11. sec., T., R., M., OR I AND SURVEY OR AR Section 1	E FE A
						R-27-E	13. STATE
14. DISTANCE IN MILES A			OFFICE	,		1	New Mexico
	east of Arte	sia	16 NO	. OF ACRES IN LEASE	1 17 NO 6	Eddy OF ACRES ASSIGNED	I New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	660•		40	TO T	HIS METIO	
18. DISTANCE FROM PROPO TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED,	none	19. PR	1800	1 -	er or cable tools otary	
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					22. APPROX. DATE WO	
						September	15, 1970
23.	J	PROPOSED CASIN	G AND	CEMENTING PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH		QUANTITY OF CEMEN	ŇΤ
17"	13 3/8#	N/A*		572 <b>'</b>	.	00 sacks	
11	9 5/8#	N/A*		1990	45	0 sacks	
stub with	clean out p casing bowl ayburg format	and 32.3	#9	5/8" casing	, peri	forate indica	ng ated
							· · · · · · · · · · · · · · · · · · ·
Casing set	t when well of the salled. 9 5/8	originally	dr: cut	illed in 195 at 960' and	6. 13 pulle	3 3/8" casim	, a10

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and propesal new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true variety tracks. Give blowout preventer program, it any. SIGNED / TITLE THIS APPROVAL IS RECUMDED WITHIN THE MONTH HELD WITHIN TO THE NOT COMMENCED OF THE NOT COMMENCED OF THE NOT COMMENCED OF THE NOT COMMENCED OF THE NOT COMMENCED OF THE NOT COMMENCED OF THE NOT COMMENCED OF THE NOT COMMENCED OF THE NOT COMMENCED OF THE NOT COMMENCED OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF THE NOTION OF (This space for Federal or State office use) RECEIVED SEP 9 1970 Die Instructions On Reverse Side C.C.C. EXPIRES

## MEXICO OIL CONSERVATION COMMISS 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. Operator Ruth C. McPherson Bill J. Smith Unit Letter Township Range 27-E Eddy 11 18-S Actual Footage Location of Well: 1980 East 1980 feet from the feet from the line and line Ground Level Elev: Producing Formation Dedicated Acreage: Pool 40 Artesia 3580 Grayburg 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). RECEIVED 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? SEP 9 1970 Yes No If answer is "yes," type of consolidation D. C. C. If answer is "no," list the owners and tract descriptions which have actually beauteseel@fited=(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. Cemp⊄ny I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed . Refer to Original Plat Registered Professional Engineer and/or Land Surveyor

1500

1000

1320 1650 1980 2310

Certificate No.

0 1-8-71 10-26-70 TEMPORARILY ABANDONED DATE CSGA SX. TUBING 13 3/8" at 572' w/700 8x 9 5/8" at 1990' w/450 8x 4 1/2" at 4500' 9-22-70 LOGS EL GR RA IND HC A COUNTY EDDY Re-Cmp 4-19-71 1 McPherson, Ruth C. Sec 11, T-18-S, R-27-E 1980' FSL, 1980' FEL of Sec ID 7270'; PBD 4500'; SI
ID 7270'; PBD 4500'; SI
ID 7270'; PBD 4500'; SI Ran 4 1/2" Casing
Perf (Yeso) 4070-4100'
Acid (4070-4100') 3000 gals
Swbd blk sul wtr (4070-4100') PD 1800' WO (Crayburg)
(Orig. Stanolind Oil & Gas #1 McPherson-Federal,
P&A 11-7-56, OID 7270')
TD 7270'; PBD 4500'; Prep PB to Grayburg Cleaned Out to 4500' F.R. 9-15-70; Opr's Elev. 3580' GL jistribulion limited and publication probibiled by subscriben' agreement.
Reproduction rights reserved by Williams & Les & suting Scribes, Inc.
PROP DEFTH 1800' FIELD (pulled) TD 7270'; PBD 4500' FORMATION DATUM CLASS STATE NM MH 00870 FORMATION Jamos CO.ORD TYPE WU EL 3592 DATUM

Adda 2-22-71 SMITH, BILL J. Artesia NM Solution of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of the NM Column of Sec : 11,T18S,R27E Page #2

4-12-71

TD 7270'; PBD 4500'; SI
TD 7270'; PBD 4500'; SI
TD 7270'; PBD 4500'; TEMPORARILY ABANDONED

4-19-71

4-22-71

COMPLETION: REPORTED

10-26-70 1-8-71 9-22-70 TEMPORARILY ABANDONED 13 3/8" at 572' w/700 8x 9 5/8" at 1990' w/450 8x 4 1/2" at 4500' DATE COUNTY LOGS EL GR RA IND HC A SMITH, BILL J. Re-Cmp 4-19-71 1 McPherson, Ruth C. Sec 11, T-18-S, R-27-E 1980 FSL, 1980 FEL of Sec Ran 4 1/2" Casing

Perf (Yeso) 4070-4100'

Acid (4070-4100') 3000 gals

Swbd blk sul wtr (4070-4100')

TD 7270'; PBD 4500'; SI

TD 7270'; PBD 4500'; SI

TD 7270'; PBD 4500'; SI PD 1800' WO (Grayburg)
(Orig. Stanolind Oil & Gas #1 McPherson-Federal,
P&A 11-7-56, OID 7270')
TD 7270'; PBD 4500'; Prep PB to Grayburg
Cleaned Out to 4500' F.R. 9-15-70; Opr's Elev. 3580' GL Distribution limited and publication prohibited by subscriber agreement.
Reproduction rights reserved by Williams & Lee Scarting Scrying, Inc.
PROP DEPTH 1800 FIELD (Fulled) TD 7270'; PBD 4500' Artesia FORMATION DATUM CLASS OWO HW WI STATE FORMATION Jamos CO.ORD X A TYPE EL 3592 DATUM

1_	
2-22-71	EDDY SMITH, BILL J.
TD	HIL J.
TD 7270'; PBD 4500'; SI	
BD 4500';	Artesia NM Se l McPherson, Ruth C.
SI	NM Ruth
	Sec C.
	Sec 11, T18S, R27E

4-12-71 4-19-71 4-22-71

TD 7270'; PBD 4500'; SI TEMPORARILY ABANDONED

COMPLETION REPORTED

N. W. O. C. C. COPT  From 2-19  UN D STATES SUBMIT IN TRIPL TE	
DEPARTMENT OF THE INTERIOR (Other Instructions verse side)	Form approved. Budget Bureau No. 42-R142  5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY	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.)	G. IF INDIAN, ALBOTTEE OR TRIBE NAME
WELL TO WELL OTHER DRY-HOLE RE-ENTRY	7. UNIT AGREEMENT NAME
Amoco Production Company E C E I V E D	8. FARM OR LEASE NAME SMITH MC PHERSON 9. WELL NO.
BOX 68, HOBBS, N. M. 88240  HOW ATEN OF WELL (Report location clearly and in accordance with any State, while meet a secretic space 17 below.)  1980 FSL x 1980 EEL Sec. II (Unit J, NW/4 SE/4)	1
4. To ATION OF WELL (Report location clearly and in accordance with any State repriremental Section Space 17 below.)	10. FIELD AND POOL, OR WILDCAT
At surface	11. BEC., T., R., M., OR BLK. AND
1000: 501 1000 F 1000 15 14 1 011/1 CE/	SURVEY OR AREA
1980 FSL x 1980 EL Sec. 11 (UNITS, 1984 SEL4)  14. PERMIT NO.   15. ELEVATIONS (Show whether DF, RT, GR, etc.)	11-18-27 NMPM 12. COUNTY OR PARISH   13. STATE
3593 D.F.	EDDY N.M
16. Check Appropriate Box To Indicate Nature of Notice, Report, or NOTICE OF INTENTION TO:  8UBBE	Other Data
DEST WATER SHIT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING	ABANDONMENT*
(Other) (Note: Report result Completion or Record	ts of multiple completion on Well
17. Discribe Proposed work. If well is directionally drilled, give subsurface locations and measured and true vert	pletion Report and Log form.) s, including estimated date of starting a
nept to this work.) *	
Physical abundonment of well con	ncluded 6-6-7.
Frigged and abandoned us follows:	
They to he was much ( DOK 1200)	
-1/1/12 row w//1/www. (POU-4363)	
Fluck hole w/ mud. (PBD-4365)	GRUN PERS JUNO 40
Spatted 30 py cement plug 4119-3735	'(BUN. PERS. 4100'-40
Spotted 30 py elmint plug 4119-3735 Shot i pulled 41/2" (sg. from 2990.	
Spotted 30 py elment plug 4119-3735 Shot i pulled 41/2" esg. from 2990. Spatted 30 5x elment plug 3040-2900 (1	
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Spotted 30 py elment plug 4119-3735  Shot i pulled 41/2" esg. Irom 2990.  Spatted 30 Sx elment plug 3040-2900 (x  10 95/8" Casing found in Hole.  Spatted 50 Sx. elment plug 1010-910.  "" " " " " " " " " " " " " " " " " "	n + Out J 415" Dtub
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Spotted 30 py elment plug 4119-3735  Shot i pulled 4/2 'Cog. Irom 2990.'  Spatted 30 Sx elment plug 3040-2900' (x  10 95/8" Casing found in Hole.  Spatted 50 5x. elment plug 1010-910.'  "" " " " " " " " " " " " " " " " " "	n + Out J 415" Dtub 338" es A 572) ricted Fo A mark L
Spatted 30 py element plug 4119-3735  Shot i pulled 4/2 'Cog. Inom 2990.'  Spatted 30 Sx element plug 3040-2900' (x  10 95/8" Casing found in Hole.  Spatted 50 Sx. element plug 1010-910.  "" " " " " " " " " " " " " " " " " "	n + Out J 415" Dtub 338° C5A 572) rected for A mark L
Spatted 30 py elment plug 4119-3735  Shot i pulled 412 'Cog. Irom 2990.'  Spatted 30 Sx elment plug 3040-2900' (x  10 958 'Caping found in Hole.  Spatted 50 5x. elment plug 1010-910.'  "" " " " " " " " " " " " " " " " " "	n + Out J 415" Dtub 338" es A 572) ricted Fo A mark L
Spatted 30 py elmint plug 4119-3735  Shot i pulled 412 'Cog. Irom 2990.'  Spatted 30 Sx elmint plug 3040-2900' (x  10 958 "Casing found in Hole.  Spatted 50 Sx. elmint plug 1010-910.'  Bocation shall be cleaned! Coulled  Thereby certify that the foregoing is true and correct  SIGNED TITLE AREA ENGINEER  TITLE  APPROVED BY  TITLE  TITLE  AREA ENGINEER	n + Out J 415" Dtub 338° C5A 572) rected for A mark L
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Spatted 30 py cernent plug 4119-3735  Shot i pulled 4/2 Cog. from 2990.  Spatted 30 Sx cernent plug 3040-2900 (x  10 95/8 Casing found in Hola.  Spatted 50 Sx. cernent plug 1010-910.  Socalion Shall be cleaned i Civelled  The space for Federal or State office use)  APPROVED BY CONDITIONS OF APPROVALIF ANY:  See Instructions on Reverse Side	n + Out J 415" Dtub 338° C5A 572) rected for A mark L
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## NAVAJO REFINING COMPANY Map ID No. 40 Artificial Penetration Review

OPERATOR Pre-Ongard Well Op.  LEASE Pre-Ongard  WELL NUMBER 1  DRILLED NA  PLUGGED NA	STATUS Plugged  LOCATION Sec. 1/-T18S-R27E  MUD FILLED BOREHOLE NA  TOP OF INJECTION ZONE 70701  API NO. 30-015- 20610
REMARKS: Calculated Top of Cement be	thind 5/2" liner@ 6277'
	21134"@ 1000' w/ 970 sx Sqz perfs: 1049'-1050' cement retainer@ 950' sqz 350 sx @ Surf. in 113/4"
AZZZZZ PIL	19: 5350' WIZG 5x
2 /// \ 8'	19:6211'-6400' W/405X 5/8" @ 6348 W/3005X
CIBP®  Ferfs: 7	6996' W/15 sx 046'-7388'
ZZZZZZZ Plug; 70	613'-7863' w/26 sx
Perfs: 90	9495' w/5 =x on top 621'-9929' iner @ 6277'-10,138' w/855 sx
TD: 10,138'	

676

80Q

1000

1800

1320 1680

1980 2310 2640

### NE., MEXICO OIL CONSERVATION COMMISSIC. WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Legae Cherator MALCO "A" FEDERAL AMOCO PRODUCTION COMPANY Range County Cast Letter 27 EAST EDDY **18** South 11 Actual Footage Location of Well: line and 1653 WEST feet from the NORTH 1650 feet from the Sedicated Acceage: Producing Formation Pool Ground Level Elev. 40 Wildcat Miss. 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation ___ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (I'se 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the of my knowledge and belief. AREA SUPERINTENDENT 1653' Сотр⊲ту Amoco Production Company SEP 2 7 1971 NOWEER & under my augus plant is being and represent Date Surveyed SEPTEMBER 16, 1971 Registered Professional Engineer and/or Land Surveyo

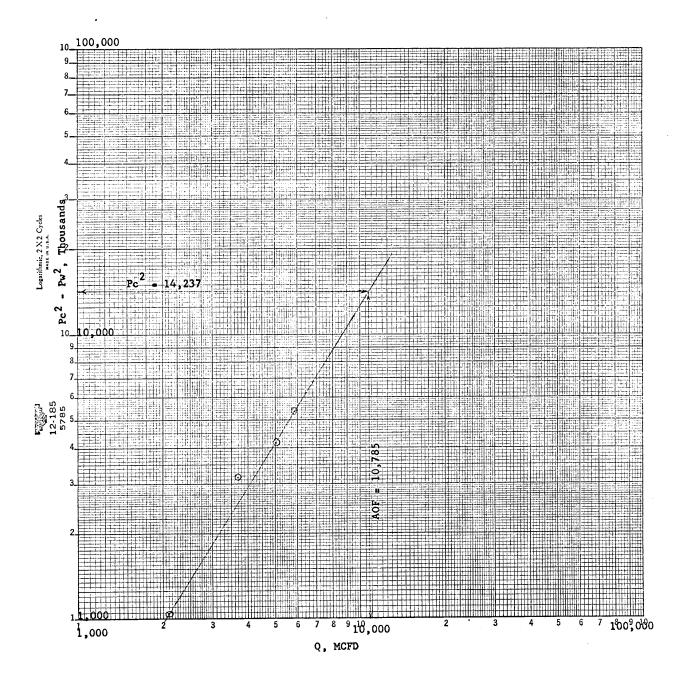
## NL . MEXICO OIL CONSERVATION COMMISS . 4 WELL LOCATION AND ACREAGE DEDICATION PLAT

DEC 2.9.1972 Supercedes C-128

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15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to dearest drig, unit line, if any)		CRES IN LEASE	17. NO. OF TO THI	ACRES ASSIGNED  8 WELL  40	-
18. DISTANCE FROM PROPOSED LOCATION® TO NEAREST WELL, DRILLING, COMPLETED,	19. PROPOSED	,	20. ROTARY	OR CABLE TOOLS	¥
OR APPLIED FOR, ON THIS LEASE, FT.  21. ELEVATIONS (Show whether DF, RT, GR, etc.)	10.	500	1 179	22. APPROX. DATE WORK	WILL STA
21. BESTATIONS (DIOW WICKIES DE, 121, C14, COO)			¥		
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## NEW MEXICO OIL CONSERVATION COMMSSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL DEIVED

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## REQUEST FOR THE EXTENSION OF AN EXISTING POOL

OR

### THE CREATION OF A NEW POOL

TO: The Oil Conservation Commission State of New Mexico		Date	Z- 10- 19.72
Amoco Production Company	58, HOBBS, N. M. 88240	PALCO S	
Name of Operator  Located 1650 feet from	the <b>NOR</b> 741		e and 1653 feet
Well No.	Section	18-5	27-E Range
s outside the boundaries of any pool producing	from the same formation. On	the basis of the in	formation submitted here-
with on form C-105, we hereby request that the			
pool be extended to include the following describe			
	union described area	SEC. //	-18-5 K-21-C
SOOGEN	DEAW-PER	٧ <i>٨</i> /	
or that a new pool be created to include the follows:  Suggested name: SCOGGIN	<u></u>	٧ <i>٨</i> /	-18-5, K-21-E
Suggested name: SCOGGITY  Name of Producing Formation:	Deaw-Per Amoco Producti	Y/	
Suggested name: SCOGGIN  Name of Producing Formation:  MORROW- REWN	DRAW-PER Amoco Producti	Y/	
Suggested name: SCOGGIN  Name of Producing Formation:  MORROW- PENN	DRAW-PER Amoco Producti	Operator	RECEIVED
SOOGEN	DRAW-PER Amoco Producti	Operator	