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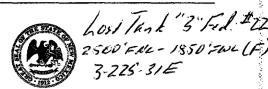
PMESD -APP NO. 407754110

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



		ADMINISTRATIVE APPL	ICATION CHECKLIST	Γ
THI	IS CHECKLIST IS M	IANDATORY FOR ALL ADMINISTRATIVE APPLICAT WHICH REQUIRE PROCESSING AT TI		ES AND REGULATIONS
Applica	DHC-Dow [PC-Po	ndard Location] [NSP-Non-Standard P mhole Commingling] [CTB-Lease Co pol Commingling] [OLS - Off-Lease S	mmingling] [PLC-Pool/Lease Co torage] [OLM-Off-Lease Measu Pressure Maintenance Expansion Injection Pressure Incapase]	ommingling] rement] ,
[1]	[A]	PPLICATION - Check Those Which Ap Location - Spacing Unit - Simultaneous NSL NSP SD One Only for [B] or [C] Commingling - Storage - Measurement	oply for [A] us Dedication Oil Con 1220 s	EVED St. Francis Drive Fe, NM 87505
	[C]	☐ DHC ☐ CTB ☐ PLC ☐ Injection - Disposal - Pressure Increas ☐ WFX ☐ PMX ☐ SWD	TIC DODS DODING	St. Francis Drive Fe, NM 87505
	[D]	Other: Specify	·	
2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Working, Royalty or Overriding	^^-'	ý
	[B]	Offset Operators, Leaseholders of	r Surface Owner	
	[C]	Application is One Which Requir	res Published Legal Notice	
	[D]	Notification and/or Concurrent A U.S. Bureau of Land Management - Commissioner		
	[E]	For all of the above, Proof of Not	ification or Publication is Attached	d, and/or,
	[F]	Waivers are Attached		
		CURATE AND COMPLETE INFOR ATION INDICATED ABOVE.	MATION REQUIRED TO PRO	OCESS THE TYPE
pprova	il is <mark>accurate</mark> a	TION: I hereby certify that the informated of my knowledged quired information and notifications are	e. I also understand that no action	
		Statement must/be completed by an individua	l with managerial and/or supervisory ca	2/1/6/1
	Bruce	Hames Duce	Attorney for Appl	icant 4509
Print or '	Type Name	Signature	Title	Date
			jamesbruc@aol.com e-mailAddress	

JAMES BRUCE ATTORNEY AT LAW

POST OFFICE BOX 1056 SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213 SANTA FE, NEW MEXICO 87501

(505) 982-2043 (PHONE) (505) 660-6612 (CELL) (505) 982-2151 (FAX)

jamesbruc@aol.com

February 19, 2004

Hand Delivered

Michael E. Stogner Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Mr. Stogner:

Pursuant to Division Rule 104.F(2), Pogo Producing Company ("Pogo") applies for administrative approval of unorthodox oil well locations for the following <u>eight</u> wells:

Well: Lost Tank "3" Federal Well No. 14

<u>Location</u>: 1450 feet FSL & 1710 feet FEL

Well Unit: NW\SE\ of Section 3, Township 22 South, Range

31 East, N.M.P.M., Eddy County, New Mexico

Well: Lost Tank "3" Federal Well No. 20

<u>Location</u>: 2500 feet FSL & 2250 feet FEL

Well Unit: NW%SE% of Section 3, Township 22 South, Range

31 East, N.M.P.M., Eddy County, New Mexico

Well: Lost Tank "3" Federal Well No. 21

<u>Location</u>: 2500 feet FNL & 450 feet FWL

Well Unit: SW1/NW1/4 of Section 3, Township 22 South, Range

31 East, N.M.P.M., Eddy County, New Mexico

Well: Lost Tank "3" Federal Well No. 22

Location: 2500 feet FNL & 1850 feet FWL

Well-Unit: SE½NW½ of Section 3, Township 22 South, Range 31 East, N.M.P.M., Eddy County, New Mexico

Well: Lost Tank "4" Federal Well No. 8

<u>Location</u>: 2490 feet FNL & 500 feet FEL

Well Unit: SE½NE¼ of Section 4, Township 22 South, Range

31 East, N.M.P.M., Eddy County, New Mexico

Well: Lost Tank "4" Federal Well No. 9
Location: 2610 feet FNL & 1850 feet FEL

Well Unit: SW%NE% of Section 4, Township 22 South, Range

31 East, N.M.P.M., Eddy County, New Mexico

Well: Lost Tank "4" Federal Well No. 10

Location: 2610 feet FNL & 2310 feet FWL

Well Unit: SE¼NW¼ of Section 4, Township 22 South, Range

31 East, N.M.P.M., Eddy County, New Mexico

Well: Lost Tank "4" Federal Well No. 11

Location: 2410 feet FNL & 990 feet FWL

Well Unit: SW%NW% of Section 4, Township 22 South, Range

31 East, N.M.P.M., Eddy County, New Mexico

The wells will be drilled to test the Delaware formation (Designated and Undesignated West Lost Tank-Delaware Pool), which is developed on statewide rules. Form C-102's for the eight wells are attached as Exhibit A.

In addition, simultaneous dedication approval is requested for the following wells:

Wells: Lost Tank "3" Federal Well Nos. 14 and 20

Well Unit: NW\setminus SE\square of Section 3

Wells: Lost Tank "3" Federal Well Nos. 4 and 21

Well Unit: SW¼NW¼ of Section 3

Wells: Lost Tank "3" Federal Well Nos (3 and 22

Well Unit: SE1/NW1/4 of Section 3

Wells: Lost Tank "4" Federal Well Nos. 7 and 8

Well Unit: SE%NE% of Section 4

Wells: Lost Tank "4" Federal Well Nos. 6 and 9

Well Unit: SWANE% of Section 4

Wells: Lost Tank "4" Federal Well Nos. 5 and 10

Well Unit: SE¼NW¼ of Section 4

The application is based on potash, geologic, and engineering reasons. Sections 3 and 4 are within the oil-potash area of southeastern New Mexico. Most of the existing wells in Sections 3 and 4 were drilled at unorthodox locations because they were the only locations which the Bureau of Land Management ("BLM") would approve at the time.

Pogo has now applied to the BLM for approval to drill the above wells. Due to the locations of the previously approved wells, the proposed locations are needed to place wells approximately equidistant from each other. In addition, the wells are located to

take advantage of favorable geology in the primary Delaware zones. Attached as Exhibit B is a geologic discussion, with appropriate plats, supporting the application. Finally, in the event of potential pressure maintenance operations, the locations will be appropriate to take advantage of injection operations.

Attached as Exhibit C is a land plat, highlighting the well locations. All of Sections 3 and 4 are covered by United States Oil and Gas Lease NM 0417696, which has common royalty, overriding royalty, and working interest ownership. Because all of the locations are interior to the lease, there are no offset operators to notify. As a result, applicant requests that the 20 day notice period be waived.

Please call me if you need any further information on this matter.

Very/truly yours,

James Bruce

Attorney for Pogo Producing Company

TED STATES DEPARTMENT OF THE INTERIOR RECEIVED 5. LEASE DESIGNATION AND SERIAL

SUBMIT IN TRIPLICATE. (Other inst ons on reverse :)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

	BUREAU OF	LAND MANA	JEMEN	Τ				17696	TILL NO.
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or ca	CAS OTHER			NGLE X	MULTIPI ZONE		8. FARM OR LEA		
. NAME OF OPERATOR									FEDERAL #2
POGO PRODUCII		RICHARD WRIG	HT 43	2-685-814	40)		9. AR WELL NO.		
	40 MIDLAND, TEX	XAS 79702-73	40 (432-685-8	3100)	}	10. FIELD AN	D POOL O	R WILDCAT
. LOCATION OF WELL (Report location clearly an						LOST TANK	•	*
2500 FNL & At proposed prod. 20	1850' FWL SEC.	3 T22S-R311	E EDI	OY CO. NM	J		11. SEC. T., I AND SURV SECTION	FI OR AR	
4. DISTANCE IN MILES	AND DIRECTION FROM NE.	ABEST TOWN OR POS	T OFFICE				12. COUNTY O	R PARISH	1 13. STATE
Annrovimatel	y 35 miles East	of Carlshad	New	Merico			EDDY CO.		NEW MEXI
3. DISTANCE FROM PROP LOCATION TO NEARES	0320*	OI Callibrat	16. NO	. OF ACRES IN	LEASE	17. NO. O	F ACRES ASSIG		11.011
		50 '	12	280			113 # 262	40	
3. DISTANCE FROM PRO	POSED LOCATIONS DRILLING, COMPLETED, 10		1	OPOSED DEPTH		1	RY OR CABLE TO	8.100	
OR APPLIED FOR, ON TE	RIS LEASE, FT.		82	250'		ROTAR			
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3.							WHEN A	PPROVE	D
		PROPOSED CAS				v.			
SIZE OF ROLE	CRADE, SIZE OF CASING	WEIGHT PER F	007	SETTING D	EPTH		ent to surface with R		
25" · · · · · · · · · · · · · · · · · · ·	Conductor 20" H-40 13 3/8	NA 48		40' 800'			. Circula		
11"	J-55 8 5/8"	32		4200'		1500 S			ii
7 7/8"	J-55 5½"	17 & 15.5		8250'		1650 S			11.
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(this appre for red	eral or State office use)								
PERMIT NO.	 			APPROVAL DATE				-linner to	educt operations th
Application approval does CONDITIONS OF APPROVA	not warrant or certify that the a	pplicant holds legal or e	chimple at	le to those rights is	n the subject!	lense which w	oniq eunțe the ab	biicaut to co	ener champing a.
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*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001 -- tran to a

DISTRICT I P.O. Box 1980, Hobbs, NM 86341-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

DISTRICT II P.O. Drawer DD, Artonia, NM 88211-0719

OIL CONSERVATION DIVISION

State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT IV P.O. BOX 2088, SANTA PE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name	
	96582	LOST TANK DELAWARE WEST	
Property Code 20943	LOST TAN	roperty Name VK "3" FEDERAL	Well Number
0GRID No. 17891	•	perator Name UCING COMPANY	Elevation 3481

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	3	22-S	31-E		2500'	NORTH	1850'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	Infill Co	nsolidation (Code Ord	der No.				

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

	UR A NON-SIANI	DARD UNIT HAS BEEN	APPROVED BI IE	TE DIVISION
LOT 4	LOT 3	LOT 2	LOT 1	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
1850' —	39.78 AC 3478.9' 78.0'	39.92 AC GEODETIC COORDINATES NAD 27 NME Y = 517269.6 N X = 674512.1 E LAT. 32'25'14.95"N LONG. 103'46'04.03"W	40.05 AC	Signature Joe T. Janica Printed Name Agent Title 10/30/03 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field noise of actual surveys made by me or under my supervison and that the same is true and correct to the best of my better. October 20, 2003 Date Surveyed AW.B Signature & Seast & Surveyor AW.B Certificate No. GARY EDSON 12641

Pogo Producing Company Application for Unorthodox Locations

Lost Tank West Delaware Field Eddy County, New Mexico

Proposed Unorthodox locations in section 3:

```
Lost Tank "3" Federal #14 (1450' fsl, 1710' fel, section 3, T22S, R31E)
Lost Tank "3" Federal #20 (2500' fsl, 2250' fel, section 3, T22S, R31E)
Lost Tank "3" Federal #21 (2500' fnl, 450' fwl, section 3, T22S, R31E)
Lost Tank "3" Federal #22 (2500' fnl, 1850' fwl, section 3, T22S, R31E)
```

Proposed Unorthodox locations in section 4:

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Lost Tank "4" Federal #8 (2490' fnl, 500' fel, section 4, T22S, R31E)
Lost Tank "4" Federal #9 (2610' fnl, 1850' fel, section 4, T22S, R31E)
Lost Tank "4" Federal #10 (2610' fnl, 2310' fwl, section 4, T22S, R31E)
Lost Tank "4" Federal #11 (2410' fnl, 990' fwl, section 4, T22S, R31E)
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Summary

Pogo Producing Company is requesting permission to drill 8 Delaware Formation tests at unorthodox locations in its Lost Tank West Field. Granting of these locations will allow Pogo to develop its remaining acreage in section 3 and section 4 with optimal spacing between the proposed locations and existing locations.

Discussion

The unusual spacing of the existing wells in Pogo's acreage in the north half of section 3 and the north half of section 4 is a result of its proximity to potential potash reserves. Discussions between Pogo Producing Company and the BLM have resulted in Pogo being granted permission to continue developing the south halves of sections 3 and 4. In order to optimize well spacing in the remaining undeveloped portions of these sections, it is necessary to drill 8 of the remaining 21 development wells at unorthodox locations.

The Lost Tank West Delaware Field produces from several of the Delaware Sands. Two of the more prolific sands in this field are the Lower Brushy "A" Sand, and the Middle Brushy "F" Sand. The proposed unorthodox locations will optimize well spacing, thus providing an opportunity for better oil and gas recovery from these two productive sands.

Brushy "A" Geology

Exhibit 1 shows the structural elevation on the top of the Brushy "A" zone (gray contours). Structure dips regionally to the southeast at an average rate of 100' per mile. The colorfilled contours show the net sand thickness of main pay sand within the Brushy "A" zone (BC4 Sand). This Brushy "A" interval is interpreted as a submarine sand channel that trends in a northeast-southwest direction through sections 3 and 4, with net pay thickness ranging from 15' to 85'. The 8 proposed unorthodox locations are highlighted with green arrows.

Brushy "F" Geology

Exhibit 2 shows the structural elevation on the top of the Brushy "F" zone (gray contours). Structure dips regionally to the southeast at an average rate of 80' per mile. The color-filled contours show the net sand thickness of the main pay sand within the Brushy "F" zone. The Brushy "F" sand consists of a series of northeast-southwest-trending over-bank splays that originate from a large channel located 2 ½ miles east of section 3. Pogo expects to encounter up to 30 feet of productive net sand in the eastern locations, with pay thickness diminishing in locations toward the west.



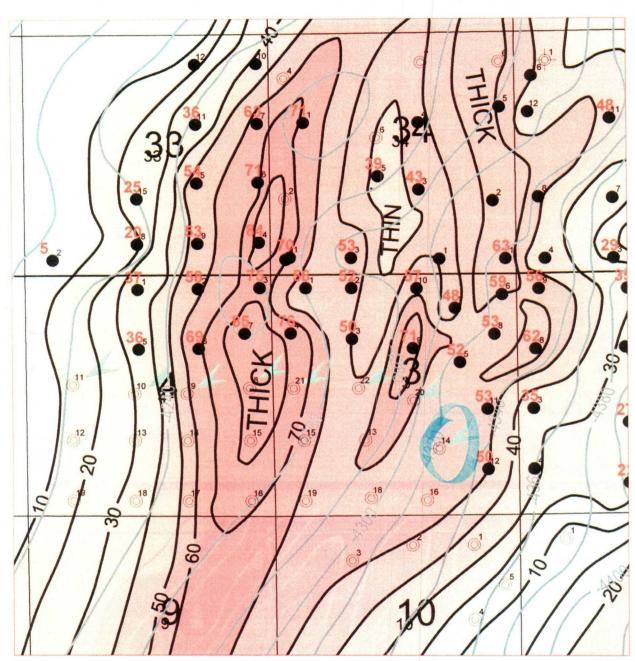


Exhibit 1



Lost Tank West Field

Structure Top Brushy "A" Zone Isopach BC4 Net Porosity Eddy County, New Mexico

WEH		it_bc4_ocd.gmp
1/15/04	Project Livingston Ridge Sand Dunes	1" = 2000"

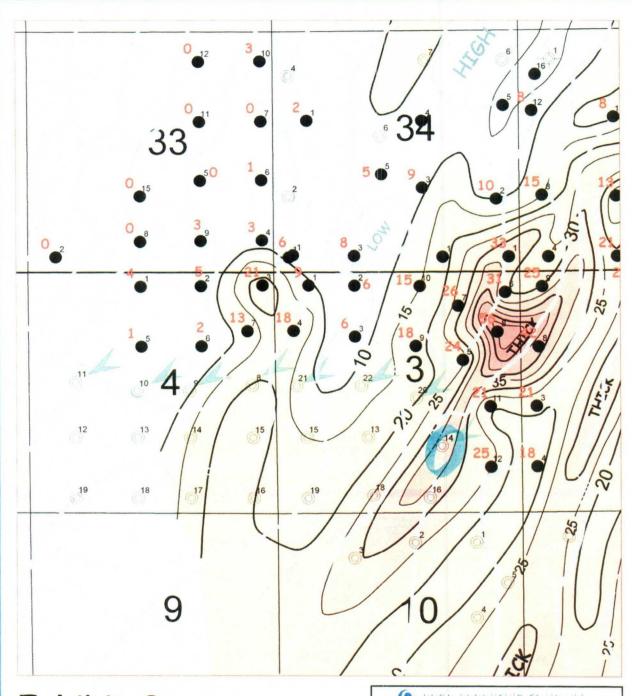


Exhibit 2



Lost Tank West Field

Structure Top Brushy "F" Zone Isopach Brsuhy "F" Net Porosity Eddy County, New Mexico

IAPA.		
WEH		It_bct_ocd.gmp
1/15/04	Project Livingston Ridge Sand Dunes	

