

DATE IN 2-19-04	SUSPENSE 3-10-04	ENGINEER MS	LOGGED IN MS	TYPE NSL	APP NO. 407758222
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



Lost Tank "4" Fed. #10
 2610' ENL-2310' FWL
 F-4-22S-31E

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD
 Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
 [D] Other: Specify _____

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
 [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James Bruce

Print or Type Name

James Bruce
 Signature

Attorney for Applicant

Title

jamesbruc@aol.com
 e-mail Address

2/19/04
 2/18/04
 Date

RECEIVED

FEB 19 2004

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

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 eight wells:

<u>Well:</u>	Lost Tank "3" Federal Well No. 14
<u>Location:</u>	1450 feet FSL & 1710 feet FEL
<u>Well Unit:</u>	NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 3, Township 22 South, Range 31 East, N.M.P.M., Eddy County, New Mexico
<u>Well:</u>	Lost Tank "3" Federal Well No. 20
<u>Location:</u>	2500 feet FSL & 2250 feet FEL
<u>Well Unit:</u>	NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 3, Township 22 South, Range 31 East, N.M.P.M., Eddy County, New Mexico
<u>Well:</u>	Lost Tank "3" Federal Well No. 21
<u>Location:</u>	2500 feet FNL & 450 feet FWL
<u>Well Unit:</u>	SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 3, Township 22 South, Range 31 East, N.M.P.M., Eddy County, New Mexico
<u>Well:</u>	Lost Tank "3" Federal Well No. 22
<u>Location:</u>	2500 feet FNL & 1850 feet FWL
<u>Well Unit:</u>	SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 3, Township 22 South, Range 31 East, N.M.P.M., Eddy County, New Mexico
<u>Well:</u>	Lost Tank "4" Federal Well No. 8
<u>Location:</u>	2490 feet FNL & 500 feet FEL
<u>Well Unit:</u>	SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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 $\frac{1}{4}$ NE $\frac{1}{4}$ 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 (F)
Location: 2610 feet FNL & 2310 feet FWL
Well Unit: SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 $\frac{1}{4}$ NW $\frac{1}{4}$ 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 $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 3

Wells: Lost Tank "3" Federal Well Nos. 4 and 21
Well Unit: SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 3

Wells: Lost Tank "3" Federal Well Nos. 3 and 22
Well Unit: SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 3

Wells: Lost Tank "4" Federal Well Nos. 7 and 8
Well Unit: SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 4

Wells: Lost Tank "4" Federal Well Nos. 6 and 9
Well Unit: SW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 4

Wells: Lost Tank "4" Federal Well Nos. 5 and 10
Well Unit: SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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,

A handwritten signature in cursive script, appearing to read "James Bruce".

James Bruce

Attorney for Pogo Producing Company

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. TYPE OF WORK DRILL ☒ DEEPEN ☐ RECEIVED

B. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIZONE ☐ NOV 18 2003

2. NAME OF OPERATOR POGO PRODUCING COMPANY (RICHARD WRIGHT 432-685-8100) MIDLAND

3. ADDRESS AND TELEPHONE NO. P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 (432-685-8100)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
2610' FNL & 2310' FWL SECTION 4 T22S-R31E EDDY CO. NM
At proposed prod. zone SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
Approximately 35 miles East of Carlsbad New Mexico

13. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drg. unit line, if any) 2310'

16. NO. OF ACRES IN LEASE
640

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

19. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1000'

19. PROPOSED DEPTH
8250'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3437' GR.

22. APPROX. DATE WORK WILL START
WHEN APPROVED

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
25"	Conductor 20"	NA	40'	Cement to surface with Redi-mix
17 1/2"	H-40 13 3/8"	48	800'	950 Sx. circulate to surface
11"	J-55 8 5/8"	32	4200'	1500 Sx. " " "
7 7/8"	J-55 5 1/2"	17 & 15.5	8250'	1650 Sx. 3 Stage TOC surface.

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17 1/2" hole to 800'. Run and set 800' of 13 3/8" 48# H-40 ST&C casing. Cement with 950 Sx. of Class "C" cement + 2% CaCl₂ + 1/2# Flocele/Sx. Circulate cement to surface.
3. Drill 11" hole to 4200'. Run and set 4200' of 8 5/8" 32# J-55 ST&C casing. Cement with 1500 Sx. of Class "C" cement + 2% CaCl₂ + 1/2# Flocele/Sx. Circulate cement to surface.
4. Drill 7 7/8" hole to 8250'. Run and set 8250' of 5 1/2" casing as follows: 2250' of 5 1/2" 17# J-55 LT&C, 5000' of 5 1/2" 15.5# J-55 LT&C, 1000' of 5 1/2" 17# J-55 LT&C. Cement in 3 stages with DV Tools at 6100' & 3700'±. Cement 1st stage with 650 Sx. of Class "H" cement + additives, 2nd stage cement with 600 Sx. of Class "C" cement + additives, cement 3rd stage with 400 Sx. of Class "C" cement + 2% CaCl₂, circulate cement to surface.

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or open directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

SIGNED Joe T. Janice TITLE Agent

DATE 11/17/03

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

Exhibit "A"

APPROVED BY _____ TITLE _____ DATE _____

"See Instructions On Reverse Side"

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.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 96582	Pool Name LOST TANK DELAWARE-WEST
Property Code	Property Name LOST TANK "4" FEDERAL	Well Number 10
OGRID No. 17891	Operator Name POGO PRODUCING COMPANY	Elevation 3437'

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	4	22-S	31-E		2610	NORTH	2310	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 or Infill	Consolidation Code	Order No.
40			

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

<p>LOT 4</p> <p>LOT 3</p> <p>LOT 2</p> <p>LOT 1</p> <p>39.97 AC</p> <p>39.85 AC</p> <p>39.75 AC</p> <p>39.63 AC</p> <p>2610'</p> <p>2310'</p> <p>3433.3'</p> <p>3437.0'</p> <p>3434.6'</p> <p>600'</p> <p>3442.8'</p> <p>GEODETIC COORDINATES NAD 27 NME Y = 517137.9 N X = 669984.2 E LAT. 32°25'13.89"N LONG. 103°47'00.36"W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Joe T. Janica</i> Signature</p> <p>Joe T. Janica Printed Name</p> <p>Agent Title</p> <p>11/17/03 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>October 27, 2003</p> <p>Date Surveyed</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>GARY KIMSON</i> GARY KIMSON Professional Surveyor</p> <p>03.11.1186</p> <p>Certificate No. GARY KIMSON</p> <p>12641</p>
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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' fml, 450' fwl, section 3, T22S, R31E)
Lost Tank "3" Federal #22 (2500' fml, 1850' fwl, section 3, T22S, R31E)

Proposed Unorthodox locations in section 4:

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

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 color-filled 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.



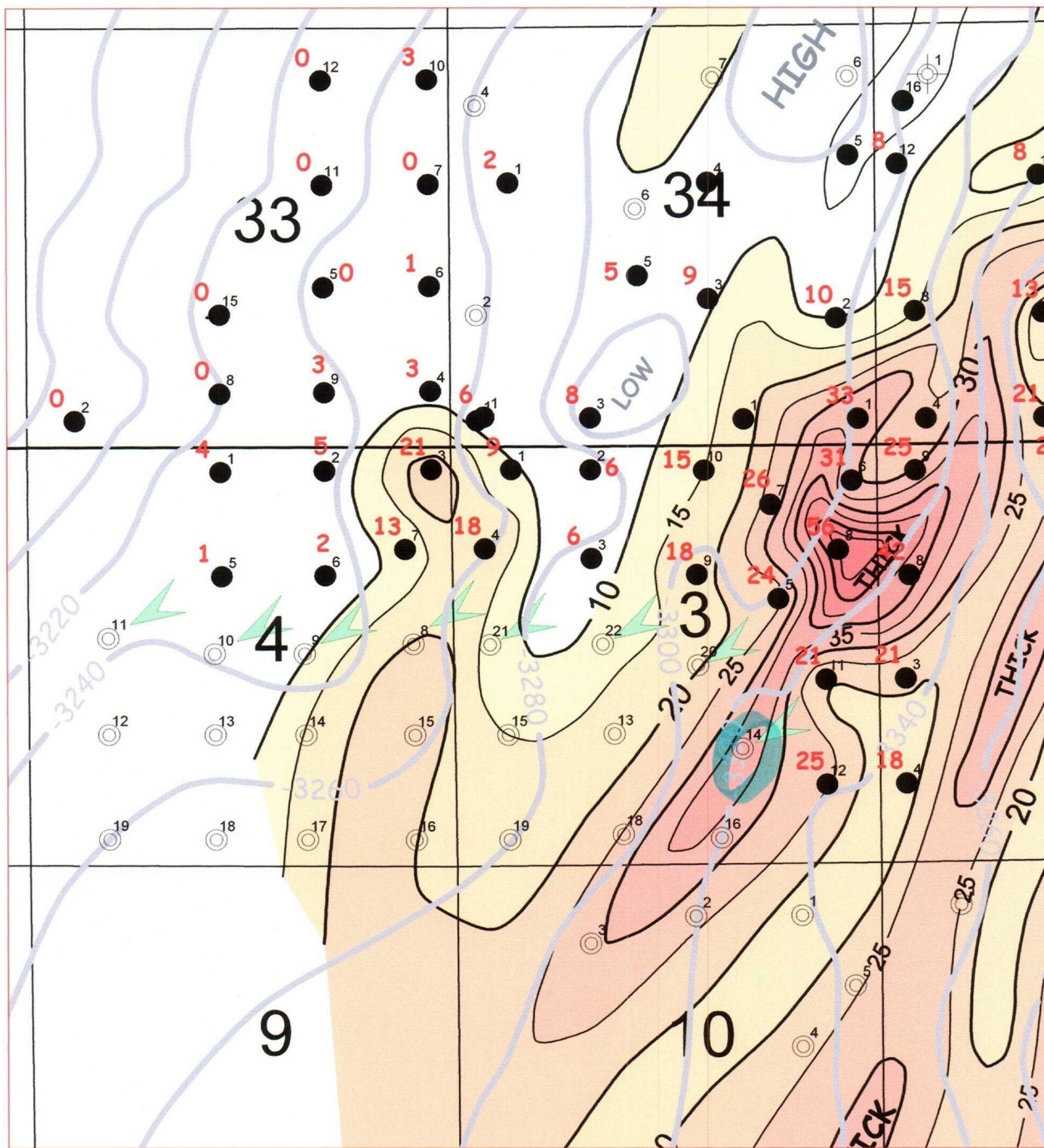


Exhibit 2

POGO PRODUCING COMPANY
Western Division Midland, Texas

Lost Tank West Field

Structure Top Brushy "F" Zone

Isopach Brushy "F" Net Porosity

Eddy County, New Mexico

WEH

lt_bcf_ood.gmp

1/15/04

Project: Livingston Ridge Sand Dunes

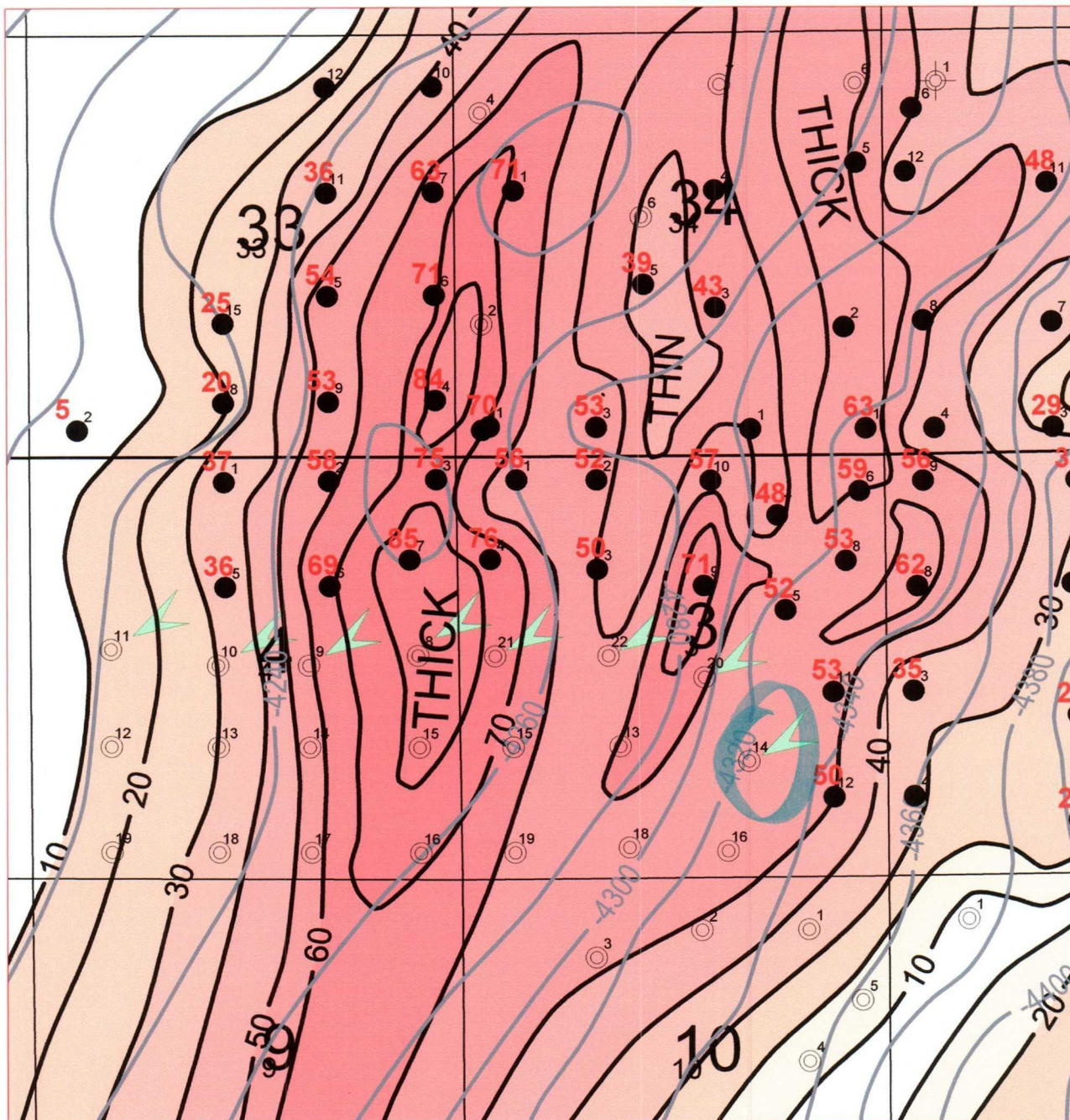


Exhibit 1

POGO PRODUCING COMPANY
Western Division Midland, Texas

Lost Tank West Field

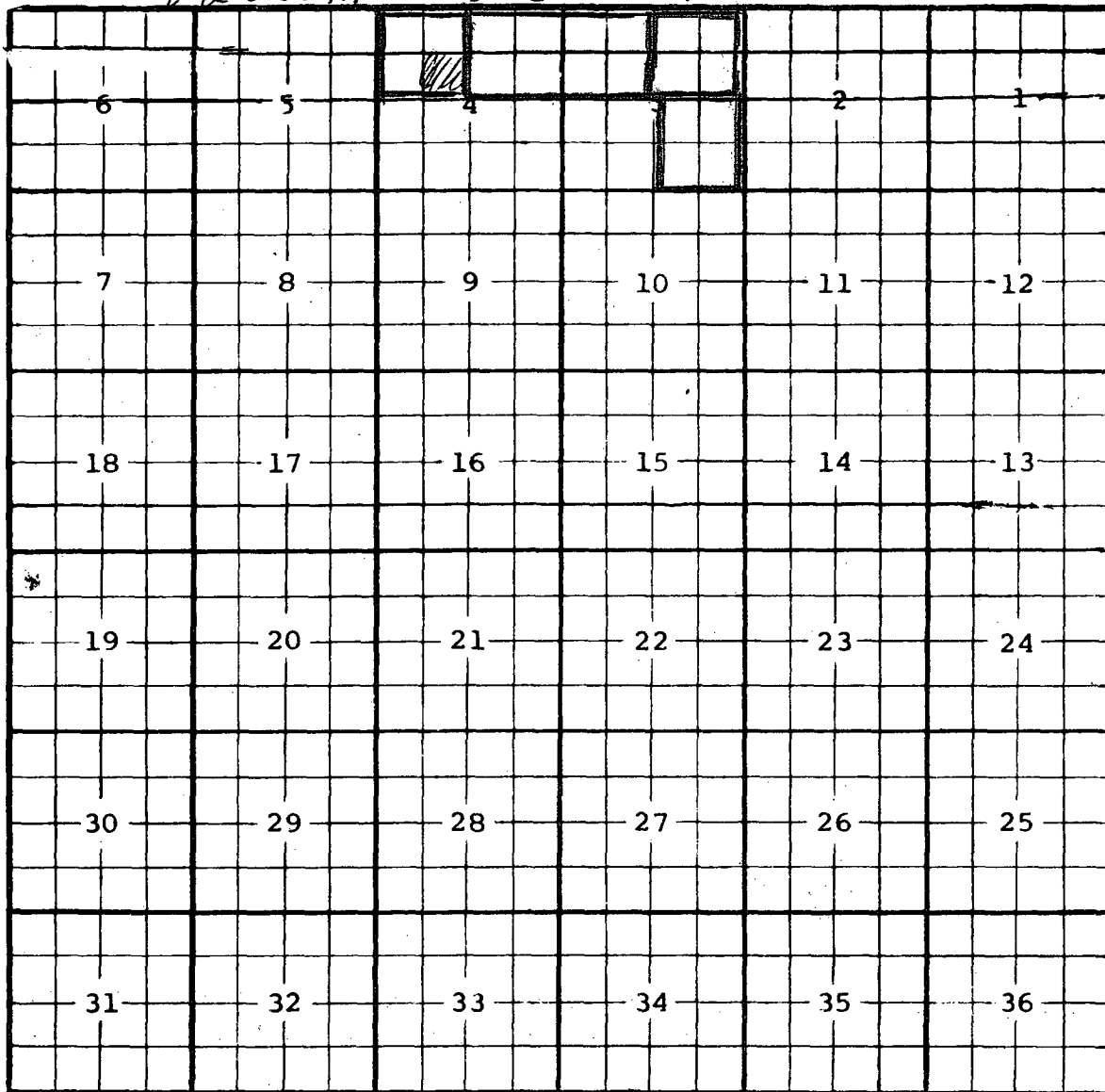
Structure Top Brushy "A" Zone
Isopach BC4 Net Porosity
Eddy County, New Mexico

WBH		lt_bc4_oed.gmp
1/15/04	Project: Livingston Ridge Sand Dunes	1" = 2000'



county Eddy Pool West Lost Tank-Delaware

TOWNSHIP 22 South Range 31 East NMPM



Description: NW 1/4 Sec. 4 (R-10787, 4-9-97)

Ext: NW 1/4 Sec. 3, NE 1/4 Sec. 4 (R-10951, 2-4-98) Ext: NE 1/4 Sec. 3 (A-11384, 5-25-00)

Ext: SE 1/4 Sec. 3 (A-12003, 8-11-03)

CMD : ONGARD 03/23/04 10:30:04
 OG6IWCW INQUIRE WELL COMPLETIONS OGOMES -TPVQ

API Well No : 30 15 29732 Eff Date : 08-01-1997 WC Status : A
 Pool Idn : 96582 LOST TANK; DELAWARE, WEST
 OGRID Idn : 17891 POGO PRODUCING CO
 Prop Idn : 17955 LOST TANK 4 FEDERAL

Well No : 005
 GL Elevation: 3440

U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: F	4	22S	31E	FTG 1650 F N FTG 2310 F W	P
Lot Identifier:						
Dedicated Acre:	40.00					
Lease Type	: F					
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :						

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GOTO	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD :
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL

03/23/04 10:31:14
OGOMES -TPVQ
Page No: 10

OGRID Identifier : 17891 POGO PRODUCING CO
Pool Identifier : 96582 LOST TANK; DELAWARE, WEST
API Well No : 30 15 29732 Report Period - From : 01 1993 To : 01 2004

API Well No	Property Name	Prodn. Days		Production Volumes			Well Stat
		MM/YY	Prod	Gas	Oil	Water	
30 15 29732	LOST TANK 4 FEDERAL	12 02	30	920	452	729	P
30 15 29732	LOST TANK 4 FEDERAL	01 03	31	1048	433	721	P
30 15 29732	LOST TANK 4 FEDERAL	02 03	28	1051	385	587	P
30 15 29732	LOST TANK 4 FEDERAL	03 03	31	1080	417	607	P
30 15 29732	LOST TANK 4 FEDERAL	04 03	30	978	395	608	P
30 15 29732	LOST TANK 4 FEDERAL	06 03	30	804	430	573	P
30 15 29732	LOST TANK 4 FEDERAL	07 03	31	836	411	675	P

Reporting Period Total (Gas, Oil) : -----

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

CMD : ONGARD 03/23/04 10:31:15
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPVQ
 Page No: 11

OGRID Identifier : 17891 POGO PRODUCING CO

Pool Identifier : 96582 LOST TANK; DELAWARE, WEST

API Well No : 30 15 29732 Report Period - From : 01 1993 To : 01 2004

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 15 29732	LOST TANK 4 FEDERAL	08 03 31	770 385 660	P
30 15 29732	LOST TANK 4 FEDERAL	09 03 30	881 396 644	P
30 15 29732	LOST TANK 4 FEDERAL	10 03 31	825 402 683	P
30 15 29732	LOST TANK 4 FEDERAL	11 03 30	756 438 643	P
30 15 29732	LOST TANK 4 FEDERAL	12 03 31	747 407 662	P
30 15 29732	LOST TANK 4 FEDERAL	01 04 20	393 459 1267	P

Reporting Period Total (Gas, Oil) : 106932 53835 68440

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
 PF07 BKWD PF08 FWD PF09 PF10 NXTPPOOL PF11 NXTOGD PF12