

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
March 4, 2004

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

RECEIVED

OCT 12 2004

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies  
OCD-ARTESIA ☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address POGO PRODUCING COMPANY P.O. BOX 10340 MIDLAND, TEXAS 79702-7340		<sup>2</sup> OGRID Number 17891
		<sup>3</sup> API Number 30 - 015-33704
<sup>4</sup> Property Code 26401	<sup>5</sup> Property Name LOST TANK "35" STATE	<sup>6</sup> Well No. 5

<sup>7</sup> Surface Location

UL or lot no. I	Section 35	Township 21S	Range 31E	Lot Idn	Feet from the 1980'	North/South line SOUTH	Feet from the 660'	East/West line EAST	County EDDY
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<sup>8</sup> Proposed 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
<sup>9</sup> Proposed Pool 1 LOST TANK-DELAWARE					<sup>10</sup> Proposed Pool 2				

Drilling Pit Location and Other Information

UL or lot no. I	Section 35	Township 21S	Range 31E	Lot Idn	Feet from the 1980'	North/South line SOUTH	Feet from the 660'	East/West line EAST	County EDDY
Depth to ground water 448'				Distance from nearest fresh water well 3 Mi Southwest.		Distance from nearest surface water NOVA TANK 2.5 MI WEST			
<sup>11</sup> Work Type Code N		<sup>12</sup> Well Type Code O		<sup>13</sup> Cable/Rotary ROTARY		<sup>14</sup> Lease Type Code S		<sup>15</sup> Ground Level Elevation	
<sup>16</sup> Multiple NO		<sup>17</sup> Proposed Depth 8550'		<sup>18</sup> Formation DELAWARE		<sup>19</sup> Contractor CAPSTAR		<sup>20</sup> Spud Date WHEN APPROVED	

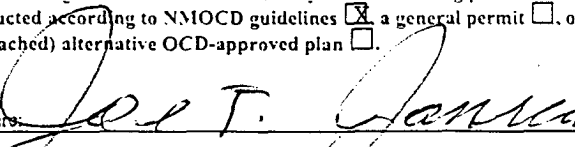
<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
25"	20"	Conductor	40'	Redi-mix	SURFACE
17½"	13 3/8"	48	850'	800 Sx.	SURFACE
11"	8 5/8"	32	4200'	1500 Sx.	SURFACE
7 7/8"	5½"	17 & 15.5	8500'	1650 Sx.	SURFACE.

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHED SHEET.

R-M-P

<sup>23</sup> 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 NMOCDC guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Signature: 		Approved by:	
Printed name: Joe T. Janica		TIM W. GUM	
Title: Agent		DISTRICT II SUPERVISOR	
E-mail Address:		Approval Date: NOV 01 2004	
Date: 10/11/04		Expiration Date: NOV 01 2005	
Phone: 505-391-8503		Conditions of Approval:	
		Attached <input type="checkbox"/>	

NOTIFY OCD TO WITNESS  
ALL CASING STRINGS

POGO PRODUCING COMPANY  
LOST TANK "35" STATE # 5  
UNIT "I" SECTION 35  
T21S-R31E EDDT CO. NM

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 850'. Run and set 850' of 13 3/8" 48# H-40 ST&C casing. Cement with 800 Sx. of Class "C" cement + ¼# Flocele/Sx., + 2% CaCl, 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 + additives, circulate cement to surface.
4. Drill 7 7/8" hole to 8500'. Run and set 8500' of 5½" casing as follows: 2500' of 5½" 17# J-55 LT&C, 5000' of 5½" 15.5# J-55 LT&C, 1000' of 5½" 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, cement 2nd stage with 600 Sx. of Class "C" cement + additives, cement 3rd stage with 400 Sx. of Class "C" cement + additives, circulate cement to surface.

DISTRICT I  
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised JUNE 10, 2003  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 40299	Pool Name LOST TANK-DELAWARE
Property Code 26401	Property Name LOST TANK 35 STATE	Well Number 5
OGRID No. 17891	Operator Name POGO PRODUCING COMPANY	Elevation 3542'

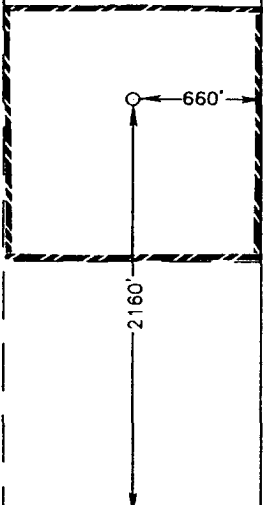
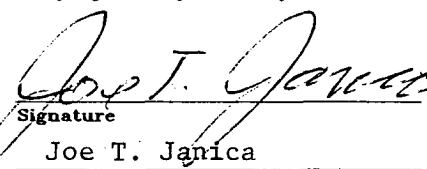
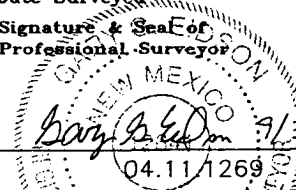
Surface Location

UL or lot No. 1	Section 35	Township 21-S	Range 31-E	Lot Idn	Feet from the 2160	North/South line SOUTH	Feet from the 660	East/West line EAST	County EDDY
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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 40	Joint or Infill	Consolidation Code	Order No.						

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

GEODETC COORDINATES NAD 27 NME  Y=521966.8 N X=682538.5 E  LAT.=32°26'01.00" N LONG.=103°44'30.09" W			
OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature Joe T. Janica Printed Name Agent Title 10/11/04 Date		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.  SEPTEMBER 28, 2004 Date Surveyed JR Signature & Seal of Professional Surveyor  Certificate No. GARY E. EDSON 12641	

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State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-14  
March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Pogo Producing Company Telephone: 432-685-8100 e-mail address: wrightc@pogoproducing.com  
Address: P. O. Box 10340, Midland, TX 79702-7340

Facility or well name: Lost Tank 35 St #5 API #: \_\_\_\_\_ U/L or Qtr/Qtr I Sec 35 T 21 R 31  
County: Eddy Latitude 32:26:01.00N Longitude 103:44:30.09W NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐

**Pit**

Type: Drilling ☒ Production ☐ Disposal ☐  
Workover ☐ Emergency ☐  
Lined ☒ Unlined ☐  
Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume 8400 bbl

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
Construction material: \_\_\_\_\_  
Double-walled, with leak detection? Yes ☐ If not, explain why not. \_\_\_\_\_  
**RECEIVED**  
**OCT 13 2004**  
**ODD-ARTERIA**

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet	(20 points)
50 feet or more, but less than 100 feet	(10 points)
100 feet or more	( 0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes	(20 points)
No	( 0 points)

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet	(20 points)
200 feet or more, but less than 1000 feet	(10 points)
1000 feet or more	( 0 points)

**Ranking Score (Total Points)** **0**

**If this is a pit closure:** (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location:

onsite ☐ offsite ☐ If offsite, name of facility \_\_\_\_\_ (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 10/12/04

Printed Name/Title Cathy Wright, Sr Eng Tech

Signature Cathy Wright

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: [Signature]

Date: [Signature]

Printed Name/Title \_\_\_\_\_

Signature [Signature]

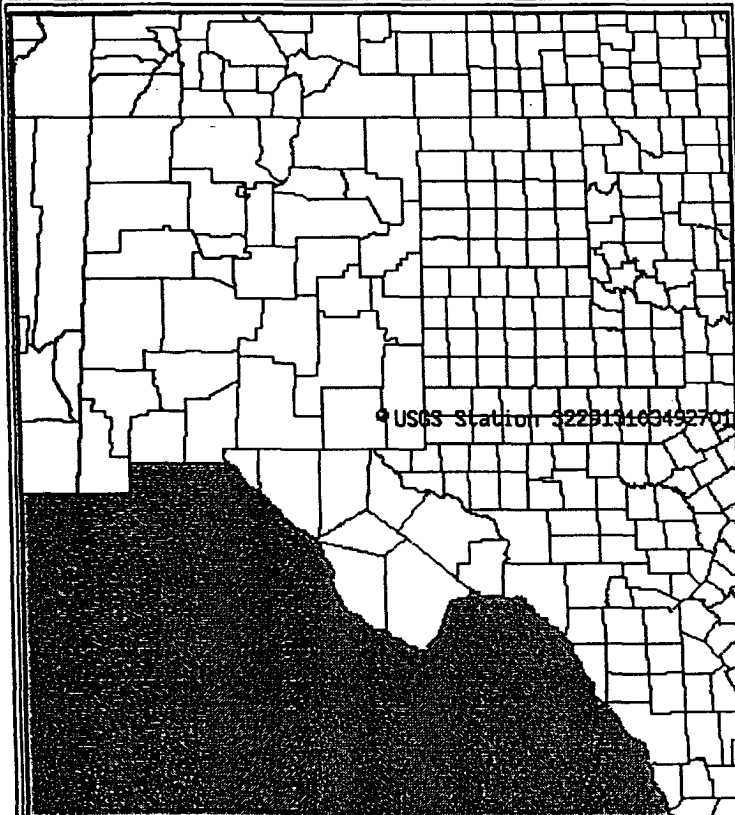
# Site Map for New Mexico

USGS 322913103492701 21S.31E.07.333113

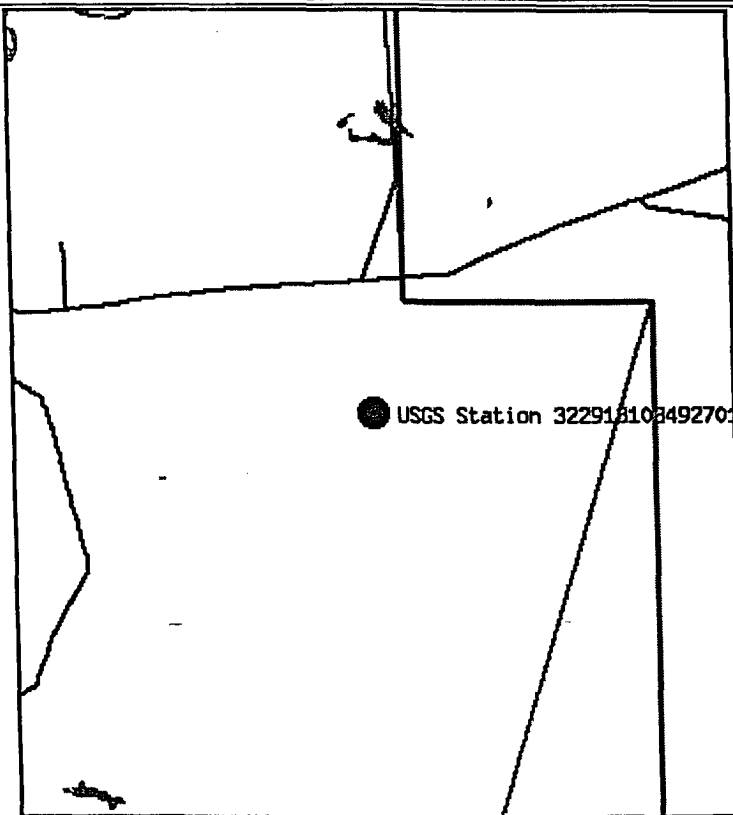
Available data for this site

Eddy County, New Mexico  
Hydrologic Unit Code 13060011  
Latitude 32°29'13", Longitude 103°49'27" NAD27  
Gage datum 3,342.40 feet above sea level NGVD29

Location of the site in New Mexico.



Site map.



ZOOM IN 2X, 4X, 6X, 8X, or ZOOM OUT 2X, 4X, 6X, 8X.

Maps are generated by US Census Bureau TIGER Mapping Service.

Questions about data [gs-w-nm\\_NWISWeb\\_Data\\_Inquiries@usgs.gov](mailto:gs-w-nm_NWISWeb_Data_Inquiries@usgs.gov)  
Feedback on this website [gs-w-nm\\_NWISWeb\\_Maintainer@usgs.gov](mailto:gs-w-nm_NWISWeb_Maintainer@usgs.gov)  
NWIS Site Inventory for New Mexico: Site Map  
<http://waterdata.usgs.gov/nm/nwis/nwismap?>

[Top](#)  
[Explanation of terms](#)

Retrieved on 2004-05-18 15:58:14 EDT  
Department of the Interior, U.S. Geological Survey  
USGS Water Resources of New Mexico  
[Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#)  
0.66 0.66 nadww01

# Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site\_no list = • 322913103492701

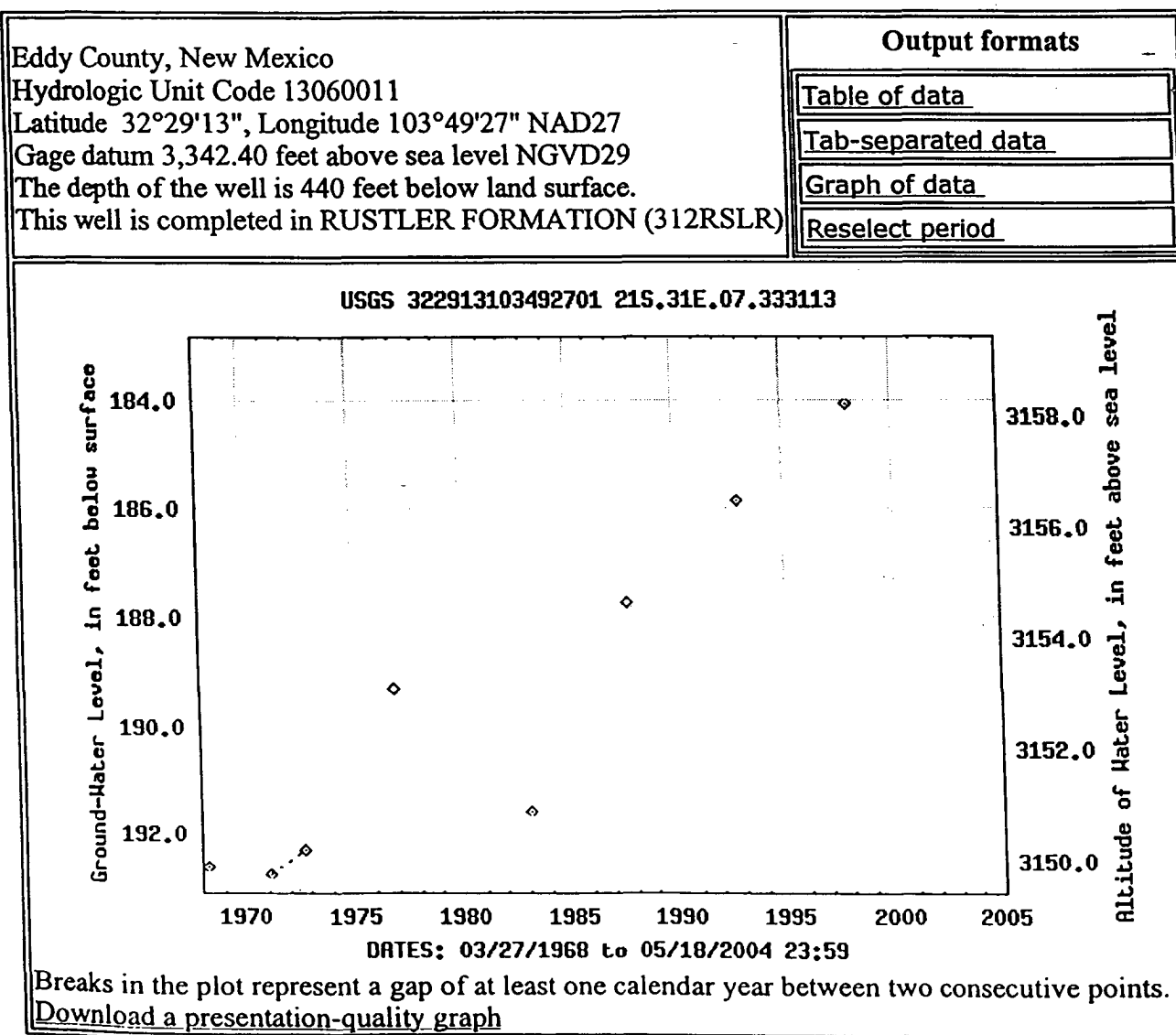
Save file of selected sites to local disk for future upload

USGS 322913103492701 21S.31E.07.333113

Available data for this site

Ground-water: Levels

GO



# Great Circle Calculator.

By Ed Williams

You need Javascript enabled if you want this page to do anything useful! For Netscape, it's under Options/Network Preferences/Languages.

## Compute true course and distance between points.

Enter lat/lon of points, select distance units and earth model and click "compute". Lat/lons may be entered in DD.DD, DD:MM.MM or DD:MM:SS.SS formats.

Note that if either point is very close to a pole, the course may be inaccurate, because of its extreme sensitivity to position and inevitable rounding error.

Input Data

Lat1		Lon1	
32:26:01.00	N	103:44:30.09	W
Lat2		Lon2	
32:29:13	N	103:49:27	W

Output

Course 1-2	Course 2-1	Distance
307.48868	127.44441	5.26057680

Distance Units:  Earth model:

## Compute lat/lon given radial and distance from a known point

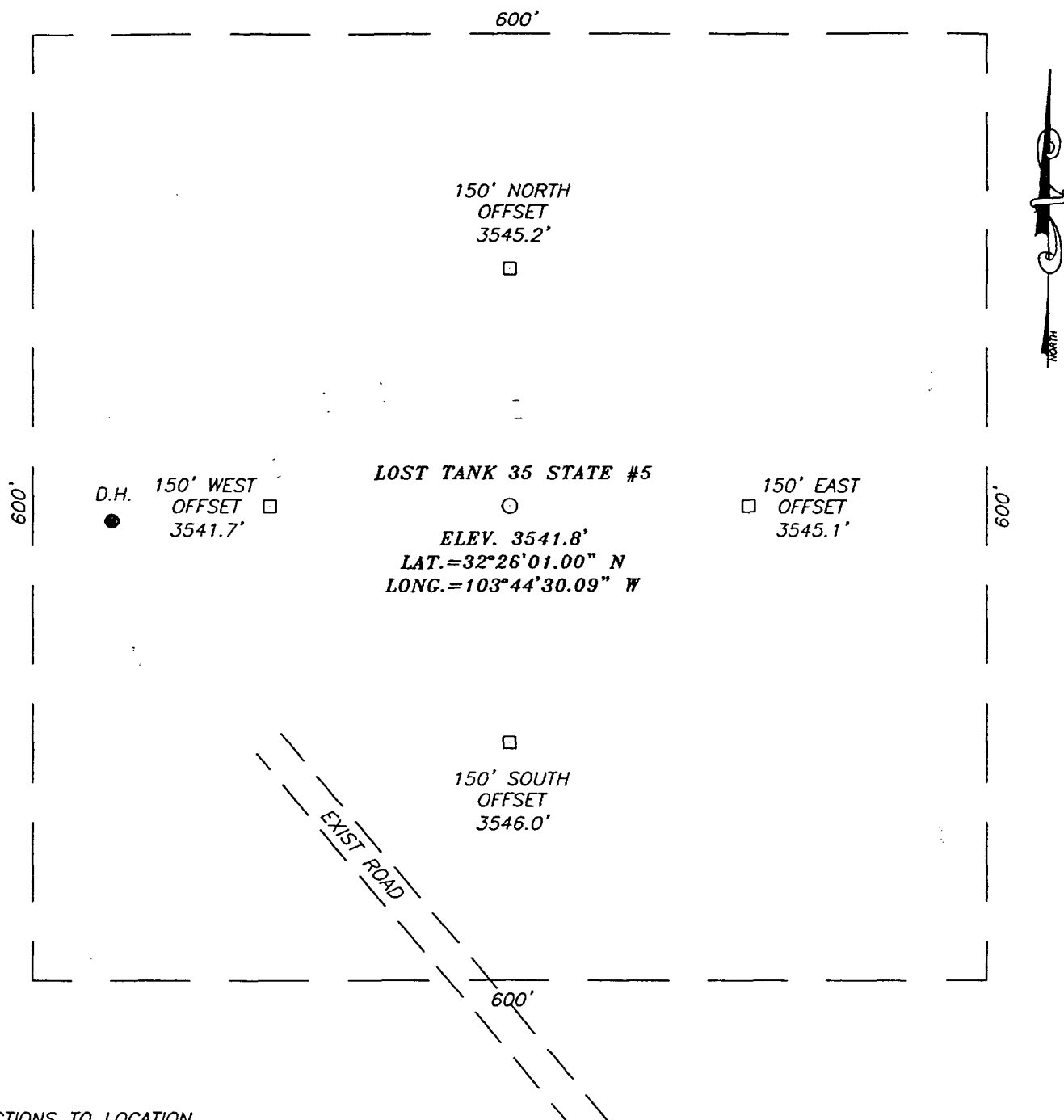
Enter lat/lon of initial point, true course and distance. Select distance units and earth model and click "compute". Lat/lons may be entered in DD.DD, DD:MM.MM or DD:MM:SS.SS formats.

Note that the starting point cannot be a pole.

Input data

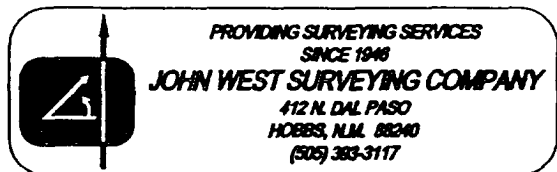
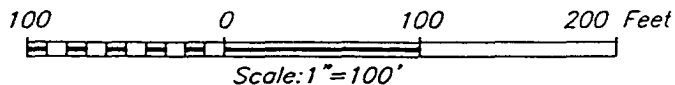
Lat1		Lon1	
0:00.00	N	0:00.00	W
Course 1-2		Distance 1-2	

SECTION 35, TOWNSHIP 21 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. 62-180 AND LOUIS WHITLOCK RD (WIPP RD.) GO SOUTH ON LOUIS WHITLOCK RD. FOR APPROX. 7.5 MILES TO A CALICHE ROAD ON THE LEFT. TURN LEFT (EAST) AND GO APPROX. 1.4 MILES TO A TRAIL ROAD ON THE LEFT. TURN LEFT (NORTH) AND GO APPROX. 0.35 MILES TO PROPOSED LOCATION.



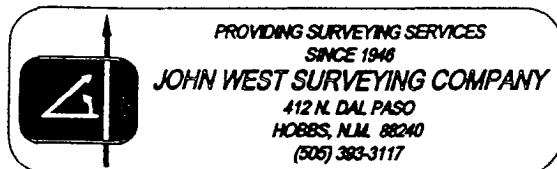
POGO PRODUCING COMPANY

LOST TANK 35 STATE #5 WELL  
LOCATED 2160 FEET FROM THE SOUTH LINE  
AND 660 FEET FROM THE EAST LINE OF SECTION 35,  
TOWNSHIP 21 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.

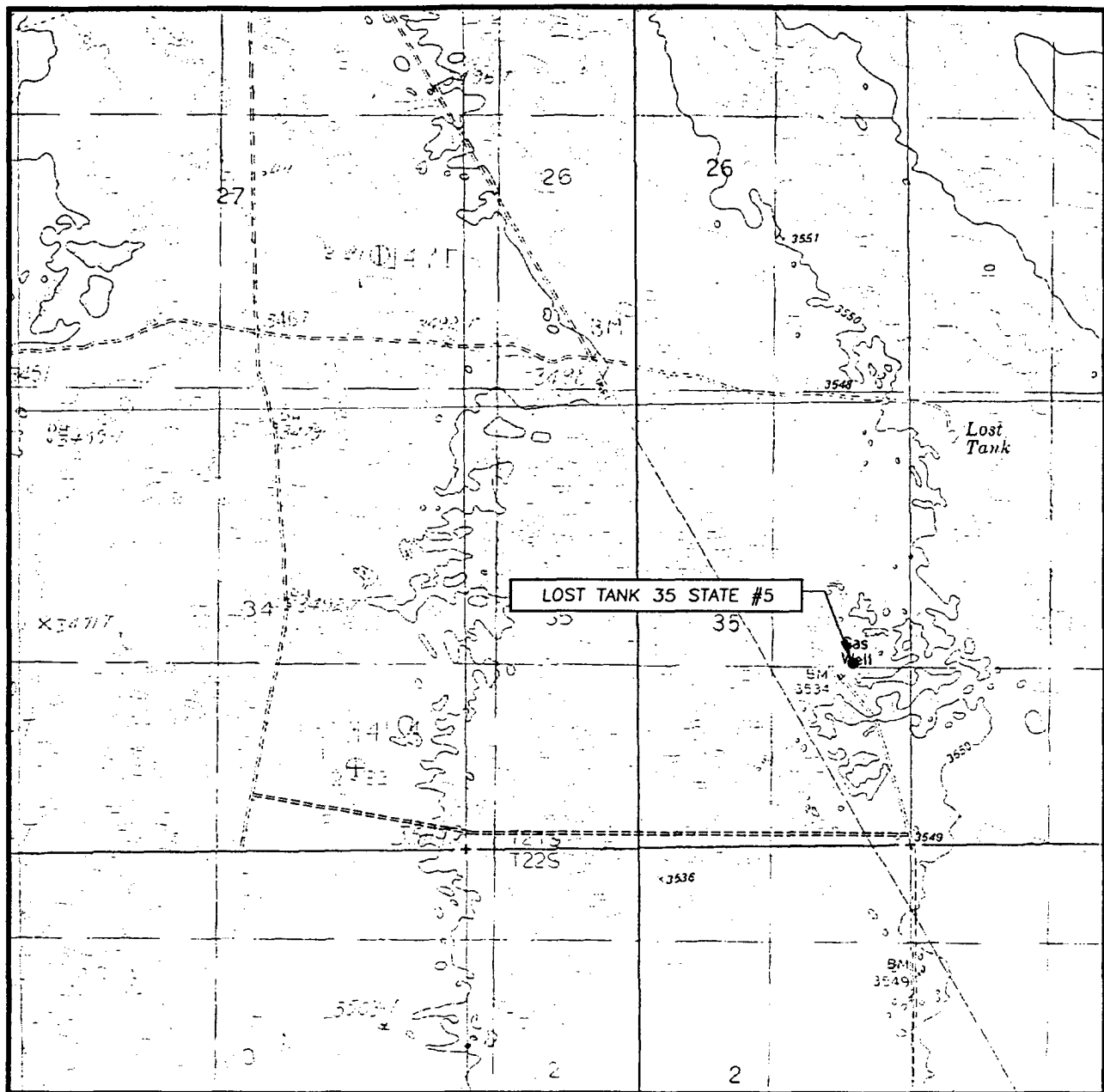
Survey Date: 09/28/04	Sheet 1 of 1 Sheets		
W.O. Number: 04.11.1269	Dr By: J.R.	Rev 1:N/A	
Date: 09/30/04	Disk: CD#10	04111269	Scale: 1"=100'



SEC. 35 TWP. 21-S RGE. 31-E  
SURVEY \_\_\_\_\_ N.M.P.M. \_\_\_\_\_  
COUNTY \_\_\_\_\_ EDDY \_\_\_\_\_  
DESCRIPTION 2160' FSL & 660' FEL  
ELEVATION \_\_\_\_\_ 3542' \_\_\_\_\_  
POGO \_\_\_\_\_  
OPERATOR \_\_\_\_\_ PRODUCING COMPANY \_\_\_\_\_  
LEASE \_\_\_\_\_ LOST TANK 35 STATE \_\_\_\_\_



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
THE DIVIDE, N.M. - 10'

SEC. 35 TWP. 21-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

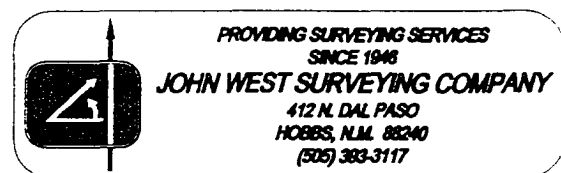
DESCRIPTION 2160' FSL & 660' FEL

ELEVATION 3542'

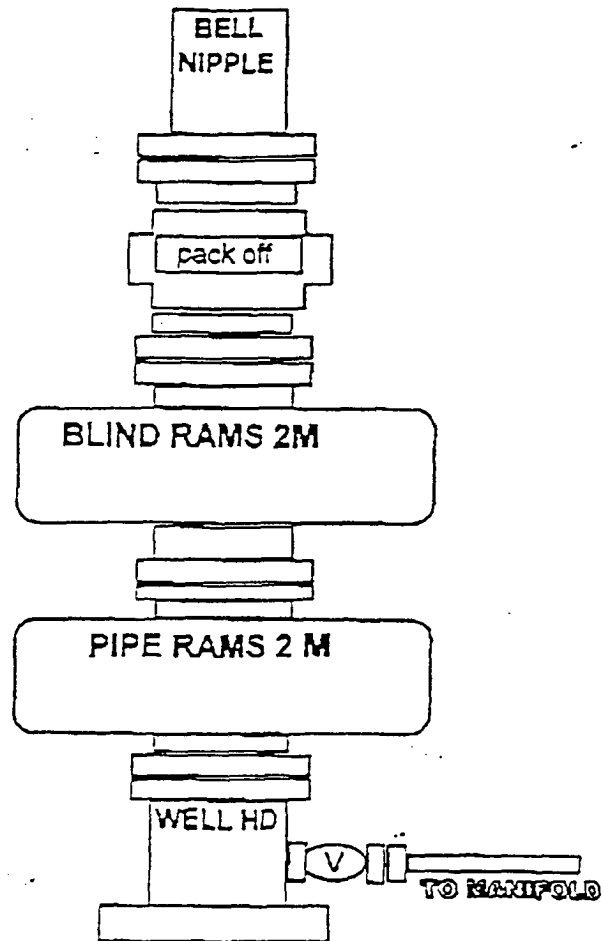
OPERATOR POGO PRODUCING COMPANY

LEASE LOST TANK 35 STATE

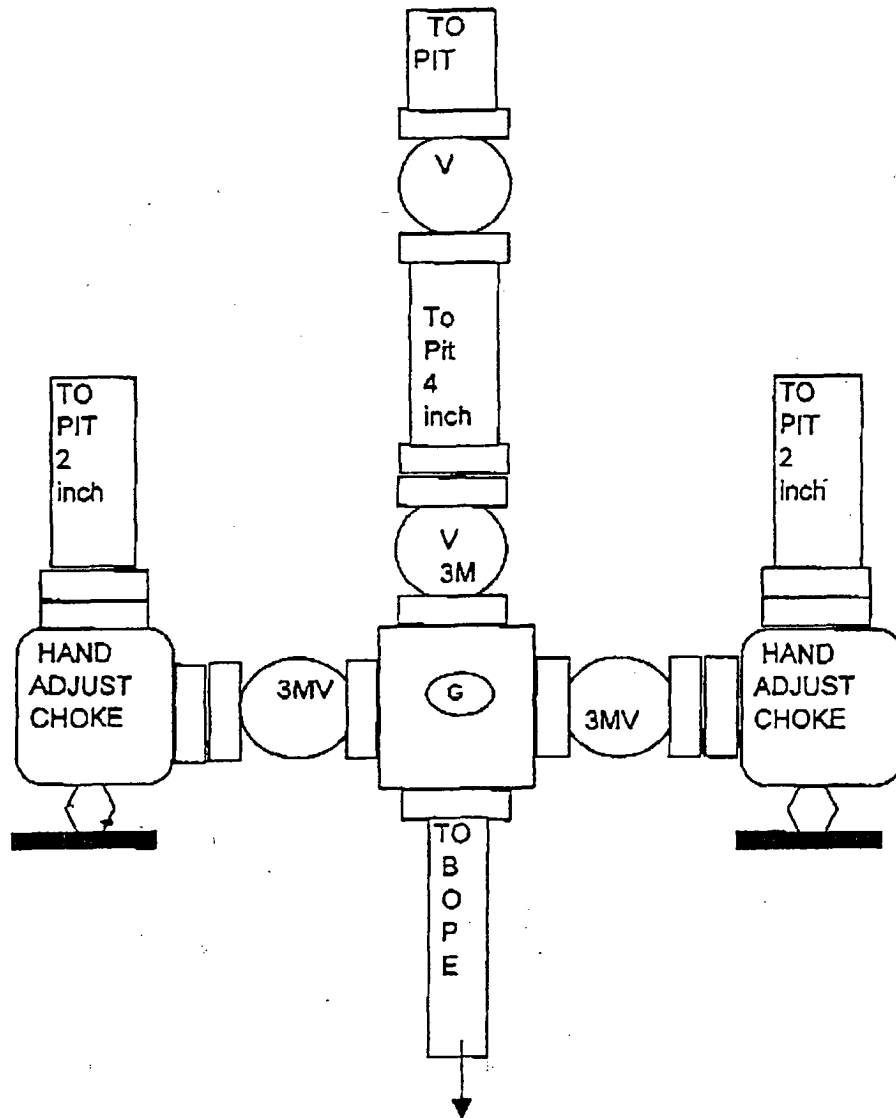
U.S.G.S. TOPOGRAPHIC MAP  
THE DIVIDE, N.M.



11" 2M



3000 PSI WP





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

Oil Conservation Division

October 13, 2004

New Mexico State Land Office

Oil, Gas and Minerals Division

310 Old Santa Fe Trail

P.O. Box 1148

Santa Fe, NM 87504-1148

Attn: Mr. Joe Mraz or To Whom It May Concern

RECEIVED

OCT 18 2004

ARTESIA

**RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA**

**OPERATOR:** Pogo Producing Company

**LEASE NAME:** Lost Tank '35' State #5

**LOCATION:** SEC. 35, TOWNSHIP 21 SOUTH, RANGE 31 EAST,

1980' FSL & 660' FEL

EDDY COUNTY, NM, NMPM

**PROPOSED DEPTH: 8500'**

Dear Joe Mraz or To Whom It May Concern,

The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuit to the provisions of Oil Conservation Division Order R-111-P, please advise this office whether or not this application is within an established Life-of Mine Reserve area filed with and approved by your office. If not, please advise whether it is within the buffer zone established by this order.

Thank you for your assistance.

Sincerely,

**Bryan G. Arrant**

PES, District II Artesia NMOCD

In LMR

Yes \_\_\_\_\_

No X

In Buffer Zone

Yes X

No \_\_\_\_\_

Comments:

Signature: \_\_\_\_\_

Date: 10/14/04



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**  
Governor  
**Joanna Prukop**  
Cabinet Secretary

**Mark E. Fesmire, P.E.**  
Director  
**Oil Conservation Division**

October 13, 2004  
Bureau of Land Management  
620 East Greene St.  
Carlsbad, NM 88220-6292  
Attn: Craig Cranston or To Whom It May Concern

**RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA**

**OPERATOR:** Pogo Producing Company  
**LEASE NAME:** Lost Tank '35' State #5  
**LOCATION:** SEC. 35, TOWNSHIP 21 SOUTH, RANGE 31 EAST, ~~OOD-ARTESIA~~  
1980' FSL & 660' FEL  
EDDY COUNTY, NM, NMPPM

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NOV 02 2004

**PROPOSED DEPTH: 8500'**

Dear Craig or To Whom It May Concern,

The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuit to the provisions of Oil Conservation Division Order R-111-P, please advise this office whether or not this application is within an established Life-of-Mine Reserve area filed with and approved by your office. If not, please advise whether it is within the buffer zone established by this order.

Thank you for your assistance.

Sincerely,

**Bryan G. Arrant**  
PES, District II Artesia NMOCD

In LMR Yes \_\_\_\_\_ No X  
In Buffer Zone Yes X No \_\_\_\_\_

**Comments:**

IN THE 1/4 MILE BUFFER OF INTERIOR POTASH  
Craig Cranston (BLM) **Date:** 11-1-04

**INTREPID MINING - NM, LLC  
CARLSBAD, NEW MEXICO**

October 31, 2004

**POGO PRODUING COMPANY  
P.O. Box 10340  
Midland, TX 79702-7340  
Attention: Mr. R. Scott McDaniel**

**Re: Lost Tank "35" State No. 5 Well  
2,160' FSL and 660' FFI.  
Section 35, T-21-S, R-31-E  
Eddy County, New Mexico**

**Dear Mr. McDaniel:**

**Intrepid Mining NM, LLC. offers no objection to the drilling of the Lost Tank "35"  
State No. 5 Well by POGO Producing Company.**

**Sincerely,**



**Thomas A. McGuire  
Senior Mine Engineer**

**cc: Attention: Mr. Jeff Albers  
New Mexico State Land Office  
Oil, Gas and Minerals Division  
P.O. Box 1148  
Santa Fe, NM 87504-1148**

**Attention: Tim Gum  
Oil Conservation Division  
1301 W. Grand Avenue  
Artesia, NM 88210**

**P.O. BOX 101 • 35 MILES EAST HIGHWAY 62-180 • CARLSBAD, NEW MEXICO • 88220**

**PHONE: (505) 234-3814 • FAX: (505) 887-0929**



**POGO PRODUCING COMPANY**

November 1, 2004

Oil Conservation Division  
Attn: Mr. Brian Arrant  
1301 W. Grand Ave.  
Artesia, NM 88210

RE: Lost Tank 35 Federal #5  
2160' FSL & 660' FEL  
Section 35, T21S, R31E  
Eddy County, NM  
H2S Contingency Plan

Mr. Arrant:

Pogo Producing Company has done extensive drilling in the Lost Tank Delaware field. Pogo has yet to find H2S bearing formations. As a matter of precaution H2S monitoring equipment is on location while drilling the evaporite section.

Sincerely,

POGO PRODUCING COMPANY

Richard L. Wright  
Division Operations Manager