RESUBMITTAL

New Mexico Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240

Form 3160-3
(April 2004)

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

189

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. NM-42814

6. If Indian, Allotee or Tribe Name

1a. Type of work: [X] DRILL [ ] REENTER

R-111-POTASH

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

8. Lease Name and Well No. Federal 31 #6 9327

2. Name of Operator Pogo Producing Company 17891

9. API Well No. 30-025-~~36436~~ 37046

3a. Address P.O. Box 10340, Midland, TX

3b. Phone No. (include area code) 432-685-8100

10. Field and Pool, or Exploratory Lost Tank; Delaware 40299

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface 2310' FSL & 1980' FEL
At proposed prod. zone same J

11. Sec., T. R. M. or Blk. and Survey or Area Sec 31, T21S, R32E

14. Distance in miles and direction from nearest town or post office* Approximately 30 miles East of Carlsbad New Mexico

12. County or Parish Lea County

13. State NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease	17. Spacing Unit dedicated to this well
660'	320	40
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	**19. Proposed Depth**	**20. BLM/BIA Bond No. on file**
1320'	8800'	29771
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	**22. Approximate date work will start***	**23. Estimated duration**
3644.1' GR	When Approved	

RECEIVED
2005
Hobbs OCD

24. Attachments CARLSBAD CONTROLLED WATER BASIN

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name (Printed/Typed)	Date
Cathy Wright	Cathy Wright	11/03/04
Title		
Sr. Eng. Tech		
Approved by (Signature)	**Name (Printed/Typed)**	**Date**
/s/ Linda S. C. Rundell	/s/ Linda S. C. Rundell	22 DEC 2004
Title	**Office**	
STATE DIRECTOR	NM STATE OFFICE	

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, are attached.

APPROVAL FOR 1 YEAR

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.

*(Instructions on page 2)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

DECLARED WATER BASIN
CEMENT BEHIND THE 13⅜"
CASING MUST BE CIRCULATED

DECLARED WATER BASIN
CEMENT BEHIND THE 8⅝"
CASING MUST BE CIRCULATED

FEDERAL 31#6
Drilling Plan

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cmt to surface w/ Redi-mix.
2. Drill 17-1/2" hole to 850'. Run & set 850' of 13-3/8" 54.5# J-55 ST&C csg. Cmt w/ 500 sks Cl "C" cmt + add followed by 200 sks Cl "C". Circ cmt to surface.
3. Drill 12-1/4" hole to 4500'. Run & set 4500' 8-5/8" J-55 ST&C casing. Bottom 2300' 32#, middle 1200' 24# & top 1000' 32# csg. Cmt w/ 1200 sks Lite cmt followed by 200 sks Cl "C" cmt. Circ cmt to surface.
4. Drill 7-7/8" hole to 8,800'. Run & set 8,800' of 5-1/2" csg. Bottom2800' 17# N-80 LT&C, middle 5000' 15.5# J-55 LT&C, top 1000' 17# J-55 LT&C. Cmt w/ 600 sks Cl "H" cmt followed w/ 700 sks Cl "C". Bring cmt back to at least 4300' – 200' in 8-5/8" intermediate csg.
5. After setting production csg, pay zone will be perforated & stimulated as necessary. See attached for Supplemental Drilling Data, BOP sketches, Surface Use and Operations Plan

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

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

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-025-37046	40299	Lost Tank Delaware

4 Property Code	5 Property Name	6 Well Number
9327	Federal 31	6

7 OGRID No.	8 Operator Name	9 Elevation
017891	Pogo Producing Company	3644'

10 Surface Location

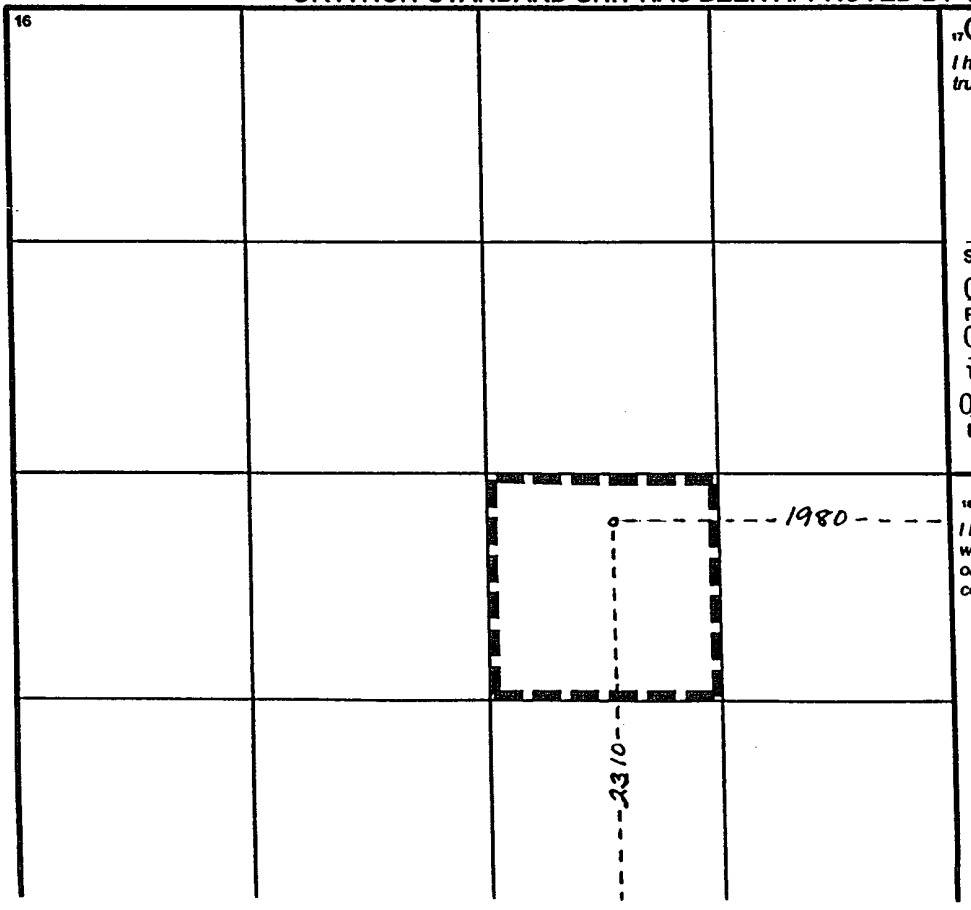
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
J	31	21	32		2310	South	1980	East	Lea

11 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

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belie

Cathy Tomberlin
Signature

Cathy Tomberlin
Printed Name

Operation Tech
Title

08/13/03
Date

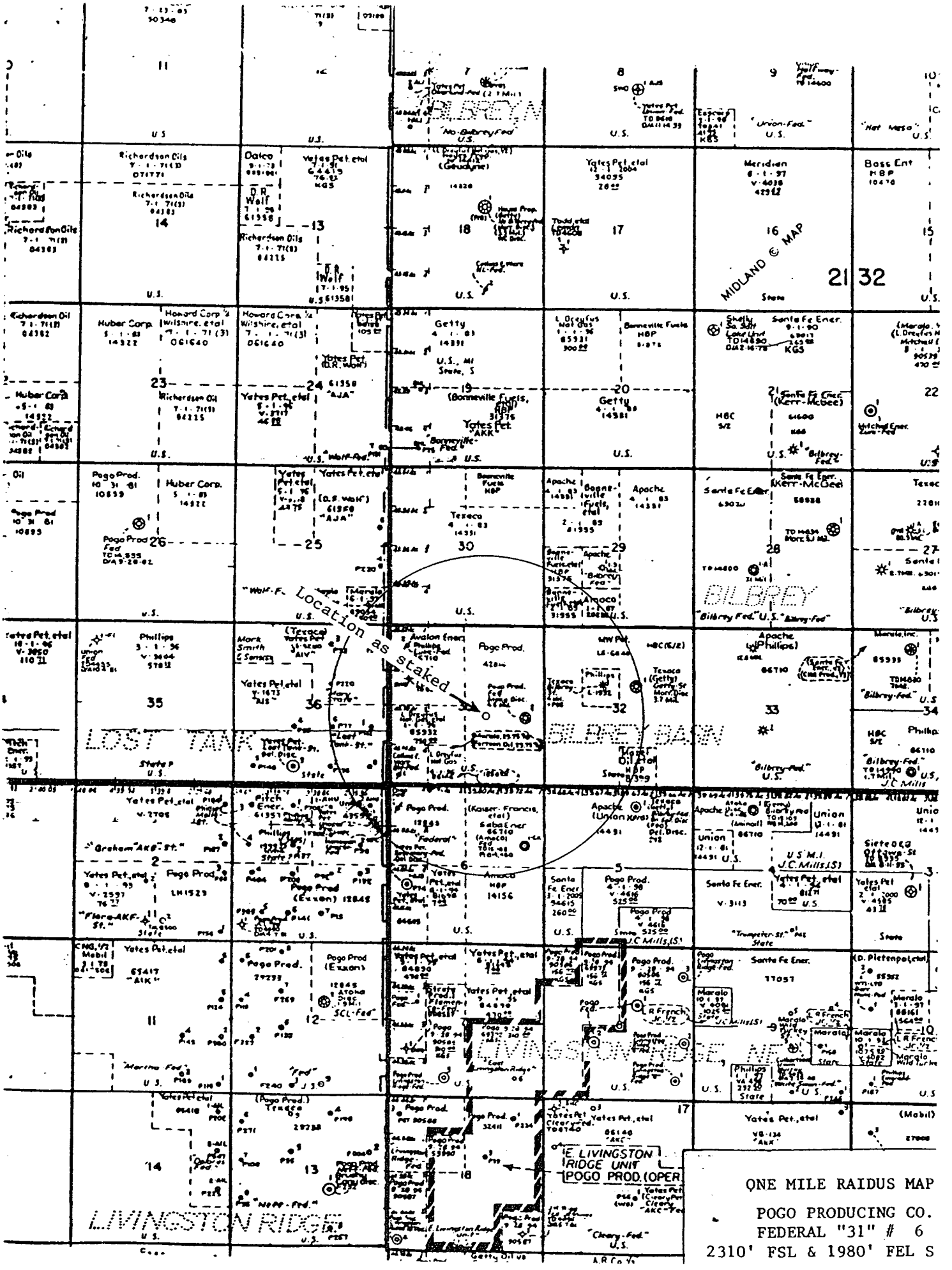
18 SURVEYOR CERTIFICATIO

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyer:

Certificate Number


Location as Staked
MIDLAND © MAP
BILBREY
LOST TANK
LIVINGSTON RIDGE
E. LIVINGSTON RIDGE UNIT
POGO PROD. (OPER.
ONE MILE RAIDUS MAP
POGO PRODUCING CO.
FEDERAL "31" # 6
2310' FSL & 1980' FEL S

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. All Company and Contract personnel admitted on location must be traine by a qualified H2S safety instructor to the following:

   A. Characteristics of H2S
   B. Physical effects and hazards
   C. Proper use of safety equipment and life support systems
   D. Principle and operation of H2S detectors, warning system and briefing areas.
   E. Evacuation procedure, routes and first aid
   F. Proper use of 30 minute pressure demand air pack

2. H2S Detection and Alarm Systems

   A. H2S detectors and audio alarm system to be located at bell nipple end of blooie line (mud pit) and on derrick floor or doghouse.

3. Windsock and/or wind streamers

   A. Windsock at mudpit area should be high enough to be visible.
   B. Windsock at briefing area should be high enough to be visible.
   C. There should be a windsock at entrance to location.

4. Condition Flags and Signs

   A. Warning sign on access road to location.
   B. Flags to be displayed on sign at entrance to location. Green flag normal safe condition. Yellow flag indicated potential pressure a danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.

5. Well control equipment

   A. See exhibit "E"

6. Communication

   A. While working under masks chalkboards will be used for communicat:
   B. Hand signals will be used where chalkboard is inappropriate.
   C. Two way radio will be used to communicate off location in case emergency help is required. In most cases cellular telephones wi: be available at most drilling foreman's trailer or living quarter:

7. Drillstem Testing

   A. All testing will be done in daylight hours.
   B. Exhausts will be watered.
   C. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
   D. If location is near any dwelling a closed D.S.T. will be performe

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

8. Drilling contractor supervisor will be required to be familiar with t effects H2S has on tubular goods and other mechanical equipment.

9. If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY
FEDERAL "31" WELL NO. 6

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	800'
Delaware Lime	4600'
Cherry Canyon	5600'
Brushy Canyon	7300'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONE:

Delaware Oil

4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH FROM	TO	WEIGHT	GRADE	JOINT
13 3/8"	0	850'	54.5#	J-55	STC
8 5/8"	0	1000'	32#	J-55	STC
"	1000'	2200'	24#	J-55	STC
"	2200'	4500'	32#	J-55	STC
5 1/2"	0	1000'	17#	J-55	LTC
"	1000'	6000'	15.5#	J-55	LTC
"	6000'	8800'	17#	N-80	LTC

MINIMUM DESIGN FACTORS: Collapse 1.125 Burst 1.1 Tension 1.7

13 3/8" casing is to be set at approximately 850' in 17-1/2" hole. Casing to be cemented with 500 sacks of Light cement tailed in with 200 sacks of Class "C". Cement to circulate.

8 5/8" casing is to be set at approximately 4500' in 11" hole. Casing is to be cemented with 1200 sacks of Light cement tailed in with 200 sacks of Class "C". Cement to circulate.

5 1/2" casing is to be set at 8800' in 7 7/8" hole. Casing is to be cemented with 600 sacks of Class "H" cement tailed in with 700 sx Class "C". Cement to tie back to 8 5/8" casing.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling the 11" hole, will be either a 3000 psi working pressure double ram type preventer or a 3000 psi working pressure annular type preventer.

6. CIRCULATING MEDIUM:

Surface to 850 feet:	Fresh water spud mud. Viscosity 30 to 36 as required for hole cleaning.
850 feet to 4500 feet:	Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10.0. PH 9 to 10. Viscosity 32 to 36.
4500 feet to T.D.:	Water based drilling fluid conditioned as necessary for control of weight, viscosity, ph and water-loss. Weight 9 to 10. Visocity 38 - 45. ph 9-10. Filtrate while drilling pay zone 6-15.

7. AUXILIARY EQUIPMENT:

A mudlogging trailer will be used while drilling below Intermediate casing.

8. TESTING, LOGGING, AND CORING PROGRAMS:

Drill Stem tests will be made when well data indicate a test is warranted.

It is planned that electric logs will include GR-CNL- Density logs ans GR-DLL logs.

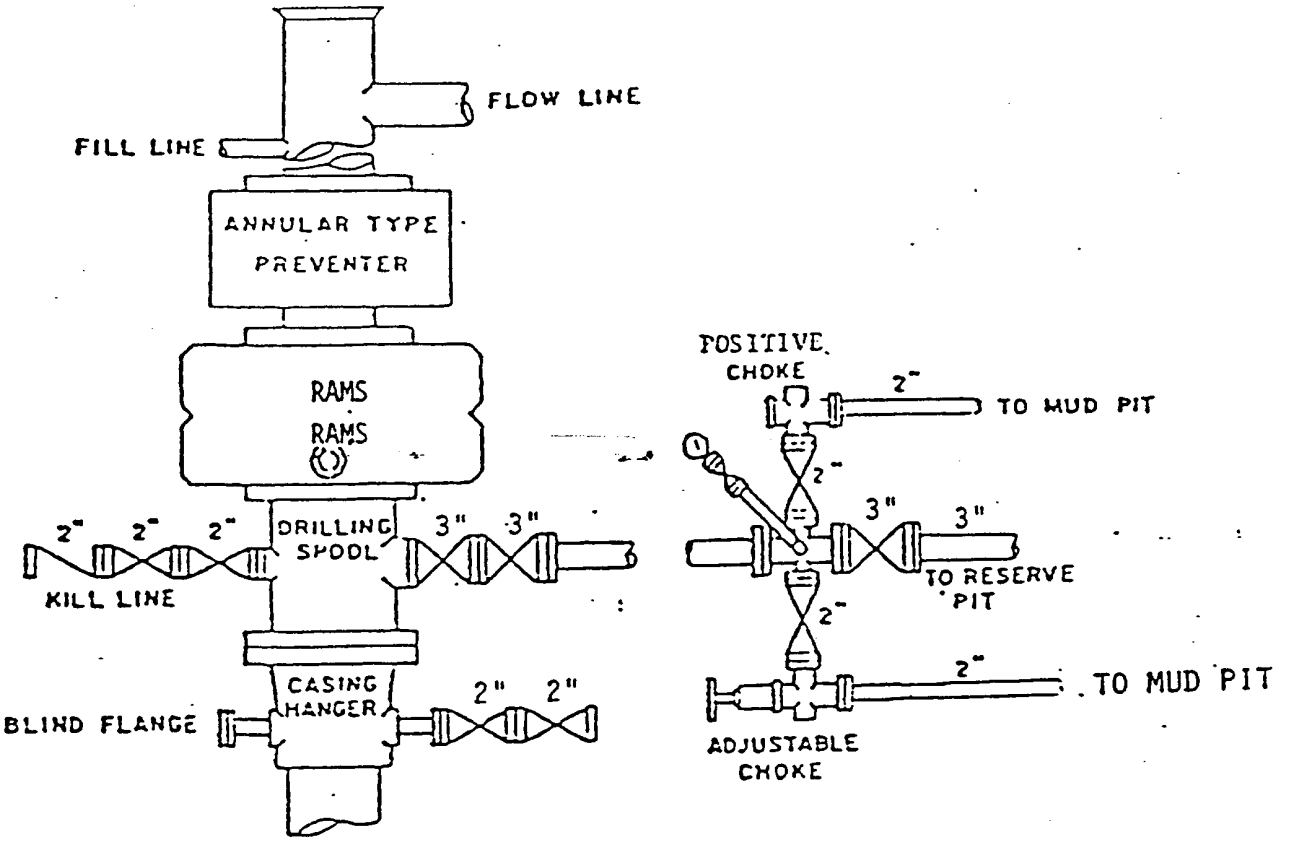
No coring is planned.

9. ABNORMAL PRESSURES, TEMPERTURES, OR HYDROGEN SULFIFE GAS:

None anticipated.
Expected bottom hole pressure is approximately 3700 psi.
Expected bottom hole temperture is approximately 130 degrees Fahr

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 30 days.



BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

SURFACE USE AND OPERATIONS PLAN

FOR

POGO PRODUCING COMPANY
FEDERAL "31" WELL NO. 6
2310'FSL & 1980' FEL OF SECTION 31,T-21S. R-32E
LEA COUNTY, NEW MEXICO

LOCATED: 30 miles east of Carlsbad, New Mexico.

FEDERAL LEASE NUMBER: NM-42814

LEASE DATE: April 1, 1981. Lease is in producing status.

ACRES IN LEASE: 320.

RECORD LESSEE: Pogo Producing Company

SURFACE OWNERSHIP: Federal.

GRAZING PERMITTEE: J.C. Mills
P.O. Drawer "G"
Abernathy, Texas 79311

POOL: Undesignated Lost Tank Delaware

POOL RULES: Statewide. 40 acres for oil.

EXHIBITS: A. Road Map

B. Plat showing Existing wells and Existing roads

C. Drilling Rig Layout

D. Topo Plat

1. EXISTING ROADS

A. Exhibit "A" is a portion of a road map showing the location of the proposed well as staked. The proposed well site can be reached by, either going south off US 62-180, or by going north off State 128. Point "A" on the plat is on US 62-180 at milepost 66.8, approximately 37 miles west of Hobbs, New Mexico, where Lea County Road C-29 goes south. To go to the proposed well site from this point, exit US 62-180 to the south on the paved road and go 8.9 miles to arrive at point "C". See Exhibits "B" and "D". Turn east onto the caliche road and go east 0.62 miles, north 0.40 mile to the location.

Point "B" on the plat is on State 128 at milepost 17.6, approximately 36 road miles west of Jal, New Mexico, where Eddy County Road 798 goes north. To go to the proposed well site from this point, go north on Eddy 798 12.5 miles to arrive at the above named Point "C".

B. Exhibit "B" shows existing pertinent roads in the vicinity of the proposed reentry. Existing roads are color coded.

2. PLANNED ACCESS ROADS:

A. Length and Width: The new road will be 12 feet wide and approximately 800' long, and labeled and color coded red on Exhibit "B". The centerline of the road will be staked and flagged.

B. Surfacing Material: Caliche. Watered, compacted andf graded.

C. Maximum Grade: Less than one percent.

D. Turnouts: Not needed.

E. Drainage Design: The new road will be crowned with drainage to the side.

F. Culverts: None needed.

G. Cuts and Fills: None necessary.

H. Gates and Cattle Guards: Not needed. No fences involved.

3. LOCATION OF EXISTING WELLS:

A. Existing wells in the immediate area are shown on Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Production Facilities are already located on well # 1. The existing production facilities will be utilized for further production.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is not planned that a water well will be drilled. Water necessary for drilling operations will be purchased and trucked to the well site, or will be moved to the well site by a temporary pipeline laid on the ground alongside existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIAL:

A. Caliche needed for construction work will be taken, if present, from a pit opened on-site within the 400' X 450' work area. Otherwise, caliche will be taken from an existing pit located on State land in the SW1/4NE1/4 of Section 32, T-21S, R-32E, Lea County, New Mexico, and will be trucked to the well site over existing and proposed roads. Location of caliche pit is shown on Exhibits "B" & "D".

7. METHODS OF HANDLING WASTE MATERIAL:

A. Drill cuttings will be disposed of in the drilling pits.

B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.

C. All trash, junk, and other waste material will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill.

D. Water produced during test will be disposed of in the drilling pits.

E. Oil produced during tests will be stored in test tanks until sold.

8. ANCILLARY FACILITIES:

A. None necessary.

9. WELL SITE LAYOUT:

A. Exhibit "C" shows relative location and dimensions of the well pad, mud pits, reserve pit and the location of major drilling rig components.

B. Clearing and levelling of the well site will be required.

C. The pad and pit area is staked and flagged.

10. PLANS FOR RESTORATION OF THE 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 will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.

B. Any unguarded pits containing fluids will be fenced until the pits are dry.

C. After abandonment, all equipment, trash and junk will be removed and the well site will be cleaned. Any special rehabilitation and/or special revegatation requirements of the surface management agency will be complied with and will be accomplished as rapidly as possible.

11. OTHER INFORMATION:

A. Topography: The land surface in the area is undulating and duny. In the immediate area of the well site, land slope is to the southwest.

B. Soil: Top soil at the well site is a loamy sand.

C. Flora and Fauna: The vegatative cover is moderate and includes mesquite, javelina bush, yucca, weeds and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.

D. Ponds and Streams: There are no rivers, ponds, lakes or streams in the area.

E. Residences and Other Structures: There are no occupied dwellings or other structures within a mile of the proposed well site.

F. Archaeological, Historical, and Cultural Sites: An archeological reconnaissance is to be accomplished and a report furnished.

G. Land Use: Grazing and wildlife habitat.

H. Surface Ownership: Federal

12. OPERATOR'S REPRESENTATIVE:

Richard L. Wright
Division Operations Manager
Pogo Producing Company
P.O. Box 10340
Midland, Texas 79702
432-685-8100

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently 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 Pogo Producing Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 19 U.S.C. 1001 for the filing of a false statement.

6/25/93
Date:

James M.C. Ritchie, Jr.
Agent

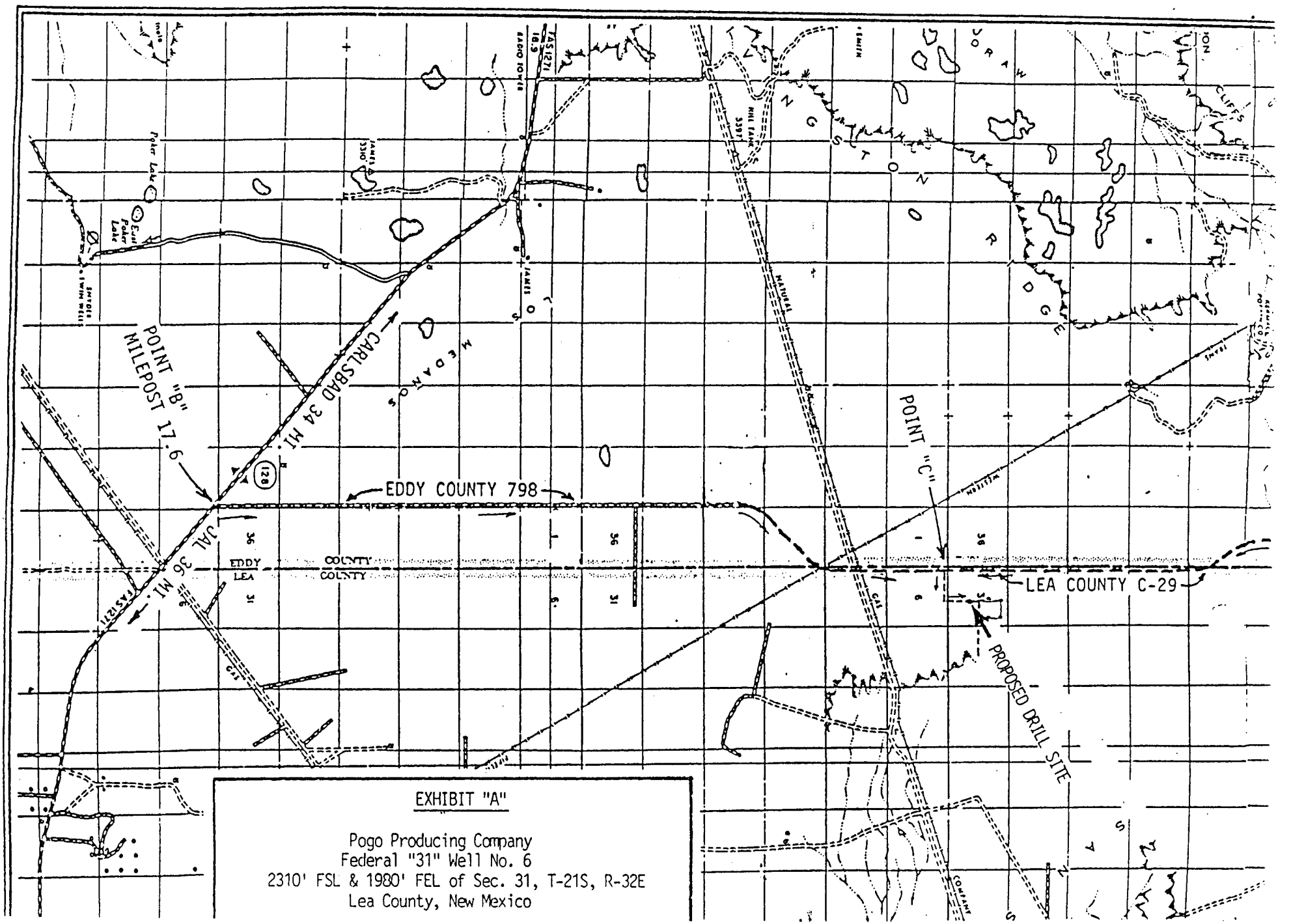
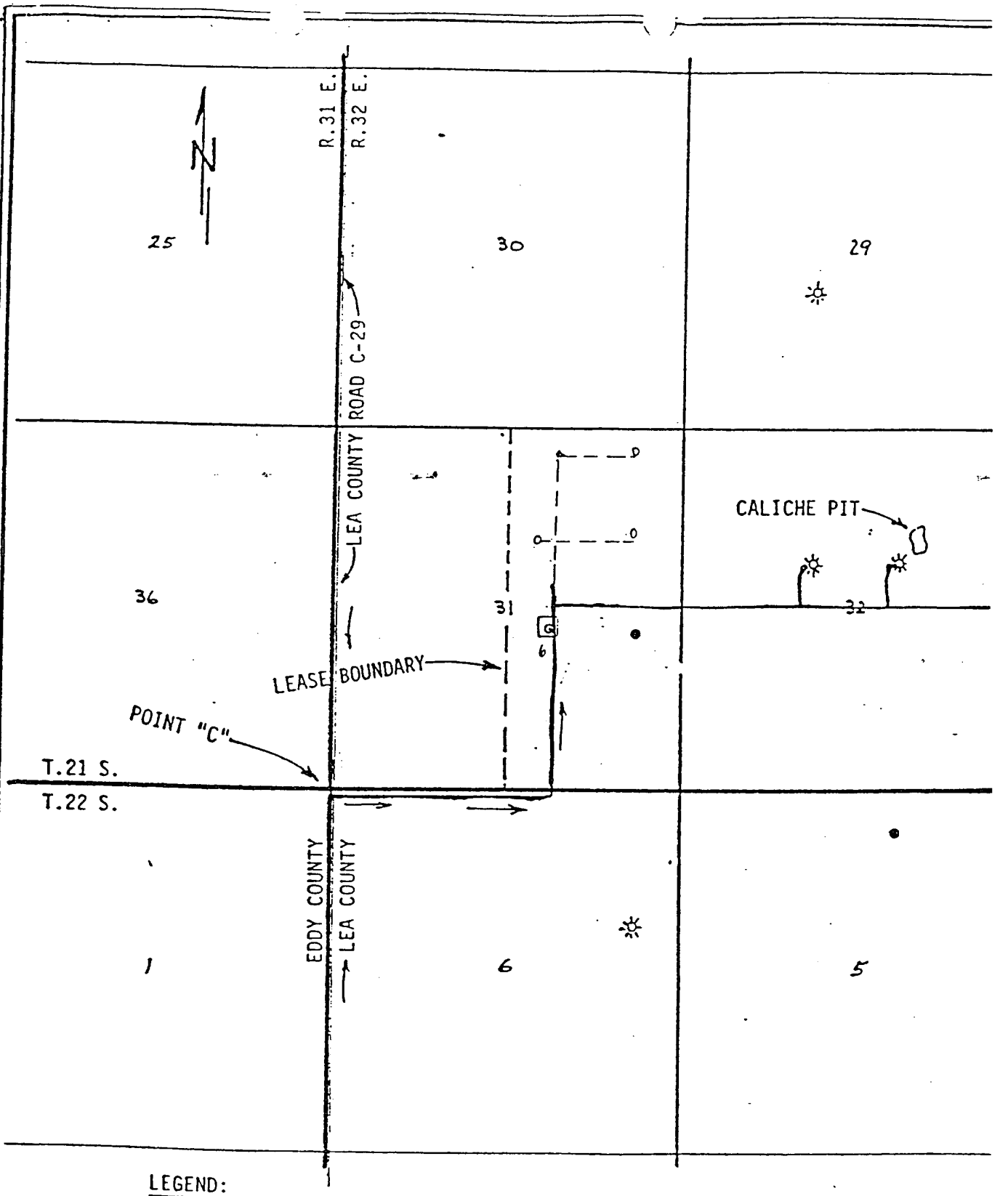


EXHIBIT "A"

Pogo Producing Company
Federal "31" Well No. 6
2310' FSL & 1980' FEL of Sec. 31, T-21S, R-32E
Lea County, New Mexico



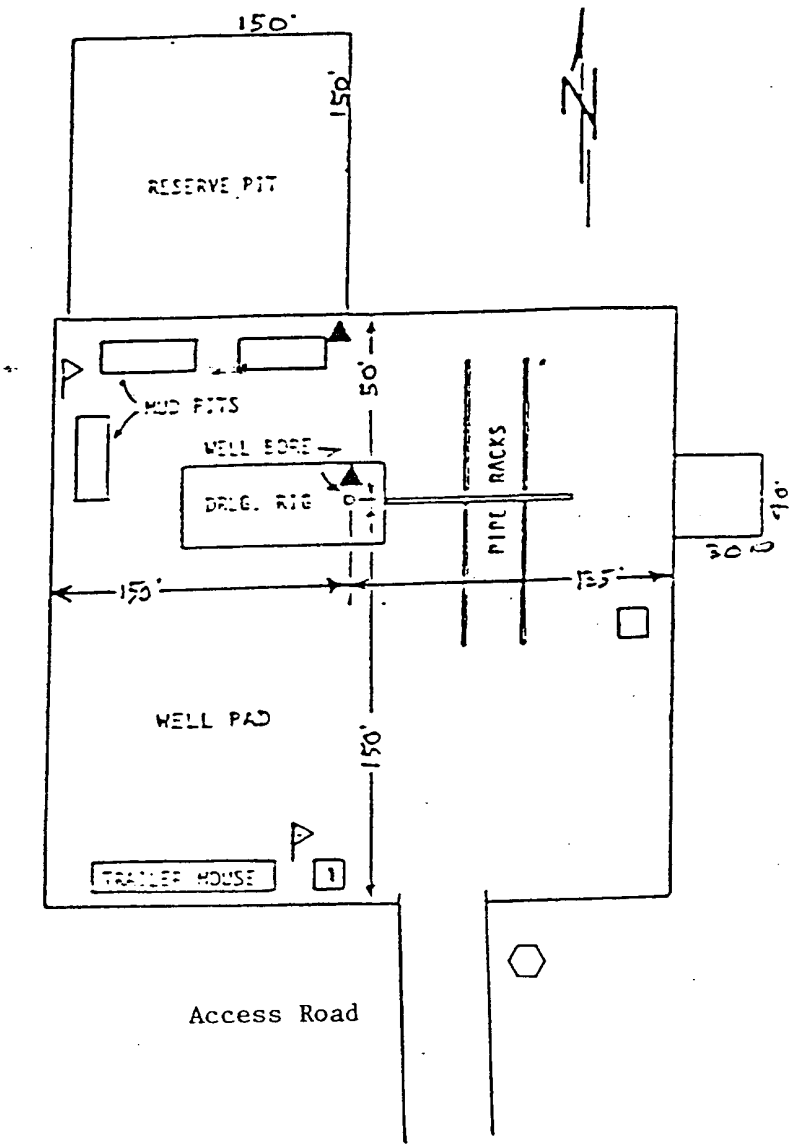
LEGEND:

- Oil Well
- Gas Well
- Proposed Well
- Existing County Maintained Road
- Existing Caliche Road
- Proposed New Road

EXHIBIT "B"

POGO PRODUCING COMPANY
WELL NO.6 FEDERAL 31

LEA COUNTY, N.M. SCALE: 1" = 2000'



LEGEND:

- Caution/Danger Sign
- Briefing Area
- [1] Briefing Area - Primary
- ▲ H2S Monitor
- Wind Sock

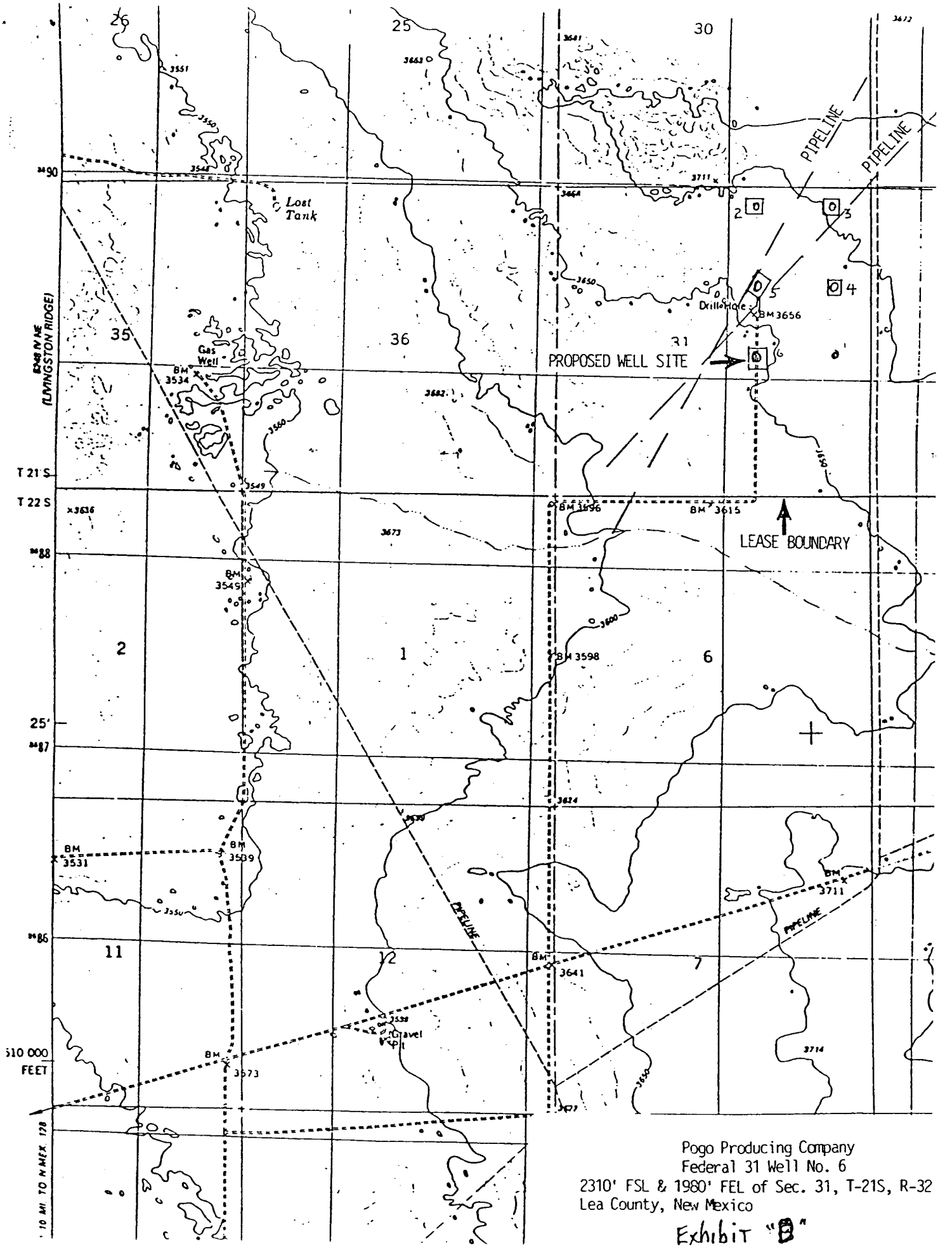
Prevailing Wind Direction - Southwest

POGO PRODUCING COMPANY

FEDERAL "31" WELL # 6

DRILLING RIG LAYOUT

Scale None



Pogo Producing Company
Federal 31 Well No. 6
2310' FSL & 1980' FEL of Sec. 31, T-21S, R-32
Lea County, New Mexico

Exhibit "B"

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

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

Form C-14
March 12, 20

For drilling and production facilities, submit t 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: Federal 31 #6 API #: 30-025-37646 U/L or Qtr/Qtr J Sec 31 T 21 R 32
County: Lea Latitude 32:26:2.7N Longitude 103:42:40.9W NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume 16000 bbl	Volume: ____bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more X	(20 points) (10 points) (0 points) 0
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No X	(20 points) (0 points) 0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more X	(20 points) (10 points) (0 points) 0
	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 h been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**
Date: 12/10/04
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:
Date: JAN 13 2005
Printed Name/Title _____ Signature ORIGINAL SIGNED BY PAUL F. KAUTZ PETROLEUM ENGINEER

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 322314103384301

Save file of selected sites to local disk for future upload

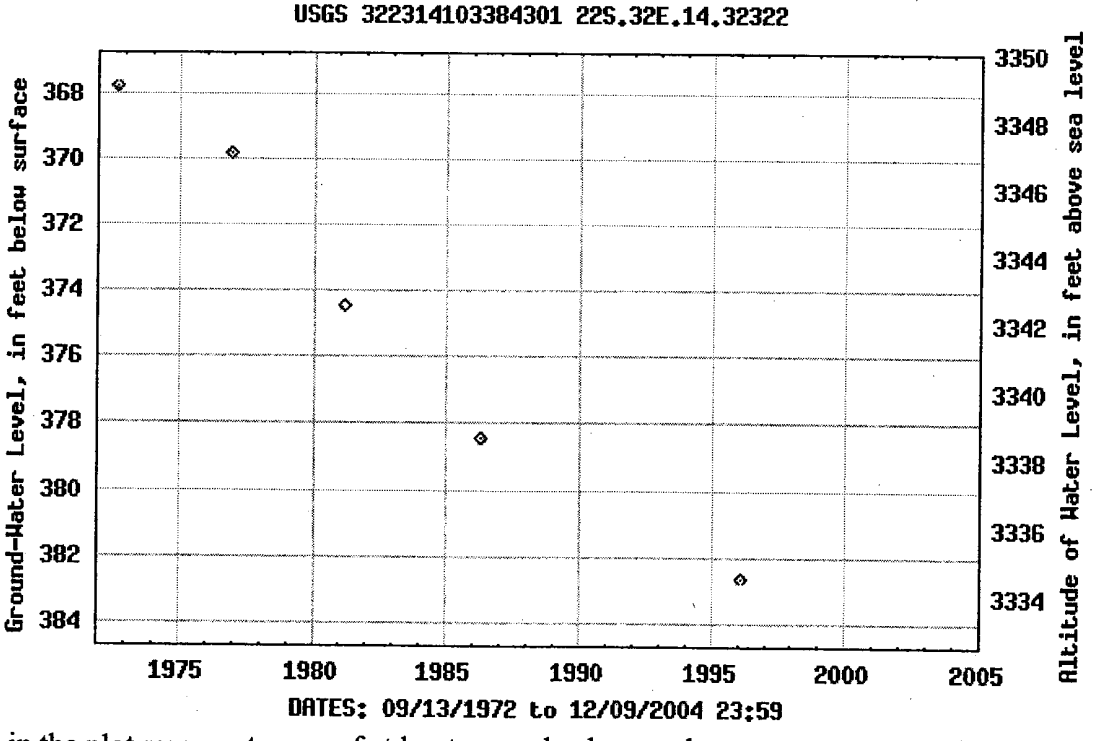
USGS 322314103384301 22S.32E.14.32322

Available data for this site Ground-water: Levels GO

Lea County, New Mexico
Hydrologic Unit Code
Latitude 32°23'14", Longitude 103°38'43" NAD27
Gage datum 3,717.00 feet above sea level NGVD29
The depth of the well is 435 feet below land surface.
This well is completed in SANTA ROSA SANDSTONE (231SNRS)

Output formats

- Table of data
- Tab-separated data
- Graph of data
- Reselect period



Breaks in the plot represent a gap of at least one calendar year between two consecutive points.
Download a presentation-quality graph

Questions about data New Mexico NWISWeb Data Inquiries
Feedback on this website New Mexico NWISWeb Maintainer

Top
Explanation of terms

Ground water for New Mexico: Water Levels
http://waterdata.usgs.gov/nm/nwis/gwlevels?

Retrieved on 2004-12-09 11:07:51 EST
Department of the Interior, U.S. Geological Survey
USGS Water Resources of New Mexico
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2.24 1.5 nadww01

Water Resources

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This server(nwis.waterdata.usgs.gov) is currently experiencing network and database connectivity problems which prevent Real-Time data from being updated. We are actively working on resolving this issue.
All real-time data continues to be available at http://waterdata.usgs.gov/nwis/rt.

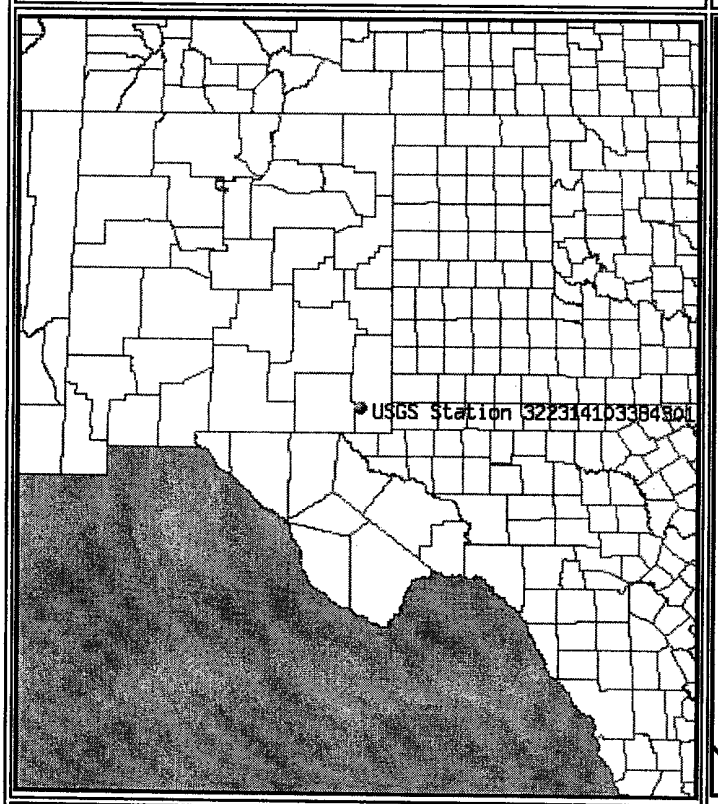
Site Map for New Mexico

USGS 322314103384301 22S.32E.14.32322

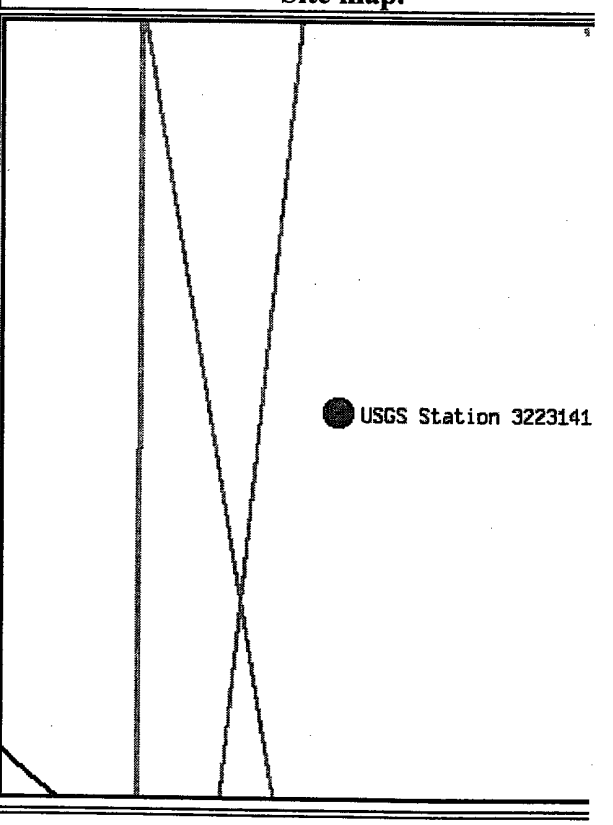
Available data for this site site map GO

Lea County, New Mexico
Hydrologic Unit Code
Latitude 32°23'14", Longitude 103°38'43" NAD27
Gage datum 3,717.00 feet above sea level NGVD29

Location of the site in New Mexico.



Site map.



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	
32:23:14	N	103:38:43	W
Lat2		**Lon2**	
32:26:2.7	N	103:42:40.9	W

Output

Course 1-2	Course 2-1	Distance
310.046760	130.011340	4.371535336

Distance Units: nm Earth model: Spherical (1'=1nm)

Compute Reset

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.

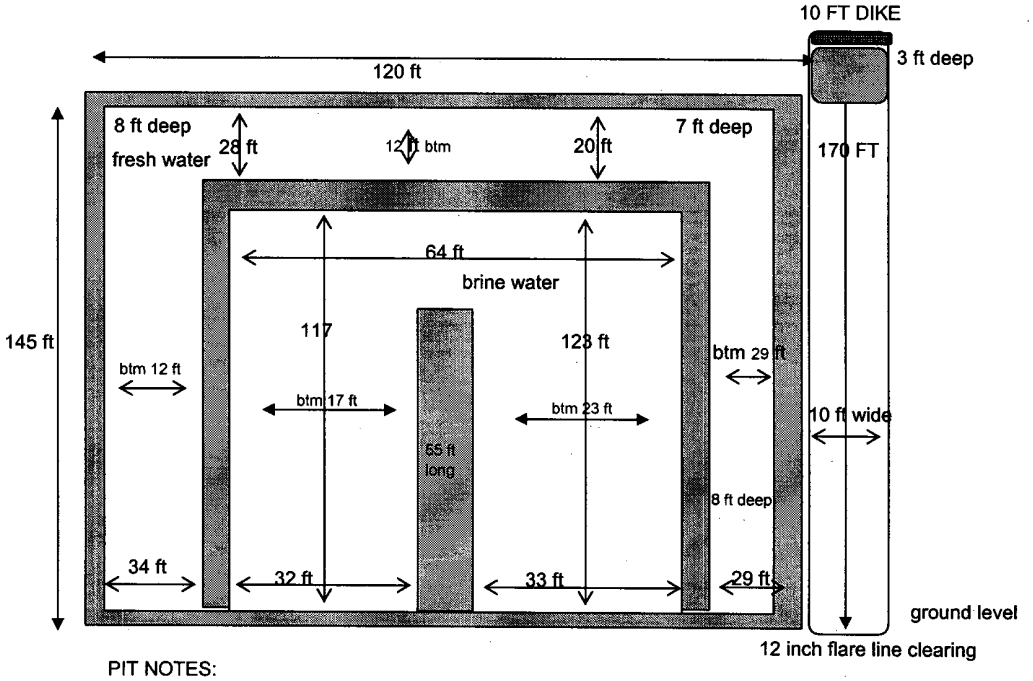
Note that the starting point cannot be a pole.

Input data

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

POGO Producing Company
Federal 31 #6
Approximate Pit Dimensions

J/31/21S/32E, Lea County, New Mexico
API # 30 025



PIT NOTES:

Pit will be lined with 12 mil Black plastic w/ UV protection.
Pit walls are 6 ft to 8 ft wide.
Pit is 8 ft deep below ground level plus 2 ft walls
Pit walls are 2 ft above ground level.
Caliches mined from pit used to make Well Pad.
Fresh Water volume to ground level = ± 7950 bbls
Brine Water volume to ground level = ± 7730 bbls
12 inch Flare line laid on gradual descending graded ROW away from rig to avoid fluid trapping
Fresh water well = (Nad 27) 32° 23' 14" N & 103° 38' 43" W "Published data"
This well produces from a depth greater than 100 ft.

Pit equals approx 16000 bbls