(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

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

F-06-50 3/24/06 OCD-HOBBS

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: LC-030187

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME, WELL NO.: (302650) C.E. LAMUNYON FEDERAL #87

2. NAME OF OPERATOR: POGO PRODUCING COMPANY (RICHARD WRIGHT 432-685-8140) (17891)

9. API WELL NO.: 30-025-37922

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

10. FIELD AND POOL, OR WILDCAT: Langlie-Mattix 7-Rivers Queen Grayburg

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 990' FSL & 1930' FWL SECTION 21 T23S-R37E LEA CO. NM
At proposed prod. zone: SAME Unit N

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SECTION 21 T23S-R37E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 12 miles Southeast of Eunice New Mexico

12. COUNTY OR PARISH: LEA CO.

13. STATE: New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
990'	1520	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
300'	3700'	ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3302' GR. Capitan Controlled Water Basin

22. APPROX. DATE WORK WILL START*: ASAP APPROVED

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	Conductor 20"	NA	40'	Redi-mix cement to surface
12¼"	J-55 8 5/8"	24#	1100'	800 Sx. circulate to surface
7 7/8"	J-55 4½"	11.6#	3700'	750 Sx. Est TOC 500' from surface

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 12¼" hole to 1100'. Run and set 1100' of 8 5/8" 24# J-55 ST&C casing. Cement with 800 Sx. of Class "C" cement + ¼# Flocele/Sx, + 2% CaCl, circulate cement to surface.
3. Drill 7 7/8" hole to 3700'. Run and set 3700' of 4½" 11.6# J-55 ST&C casing. Cement with 750 Sx. of Class "C" ce,ent + additives, estimate top of cement 500' from surface.

Witness Surface Casing

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

IN 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 deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Joel James TITLE Agent DATE 03/19/06

(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:

APPROVED BY /s/ James Stovall TITLE ACTING FIELD MANAGER DATE JUN 01 2006

*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

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.

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

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

DISTRICT III
1000 Rio Brazos Rd., 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, New Mexico 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
30-025-37922	37240	LANGLIE-MATTIX 7 RIVERS, QUEEN, GRAYBURG

Property Code	Property Name	Well Number
~~14908~~ 302650	C.E. LAMUNYON ~~FEDERAL~~	87

OGRID No.	Operator Name	Elevation
017891	POGO PRODUCING COMPANY	3302'

Surface Location

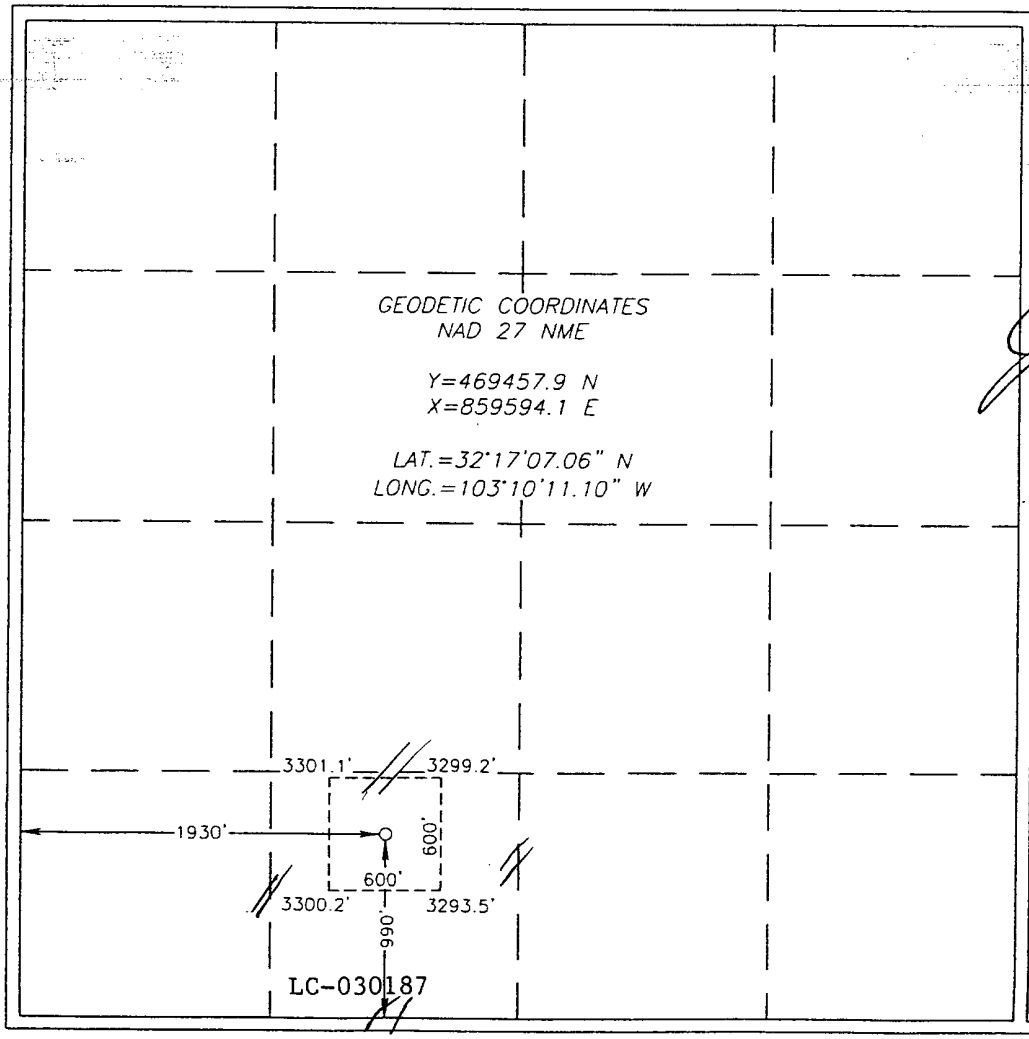
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	23-S	37-E		990	SOUTH	1930	WEST	LEA

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



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete 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 the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Joe T Janica
Signature

Date 03/19/06

Joe T. Janica
Printed Name

Agent

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.

MARCH 06, 2006

Date Surveyed MR

Signature & Seal of Professional Surveyor

NEW MEXICO — GARY L. EIDSON — PROFESSIONAL SURVEYOR

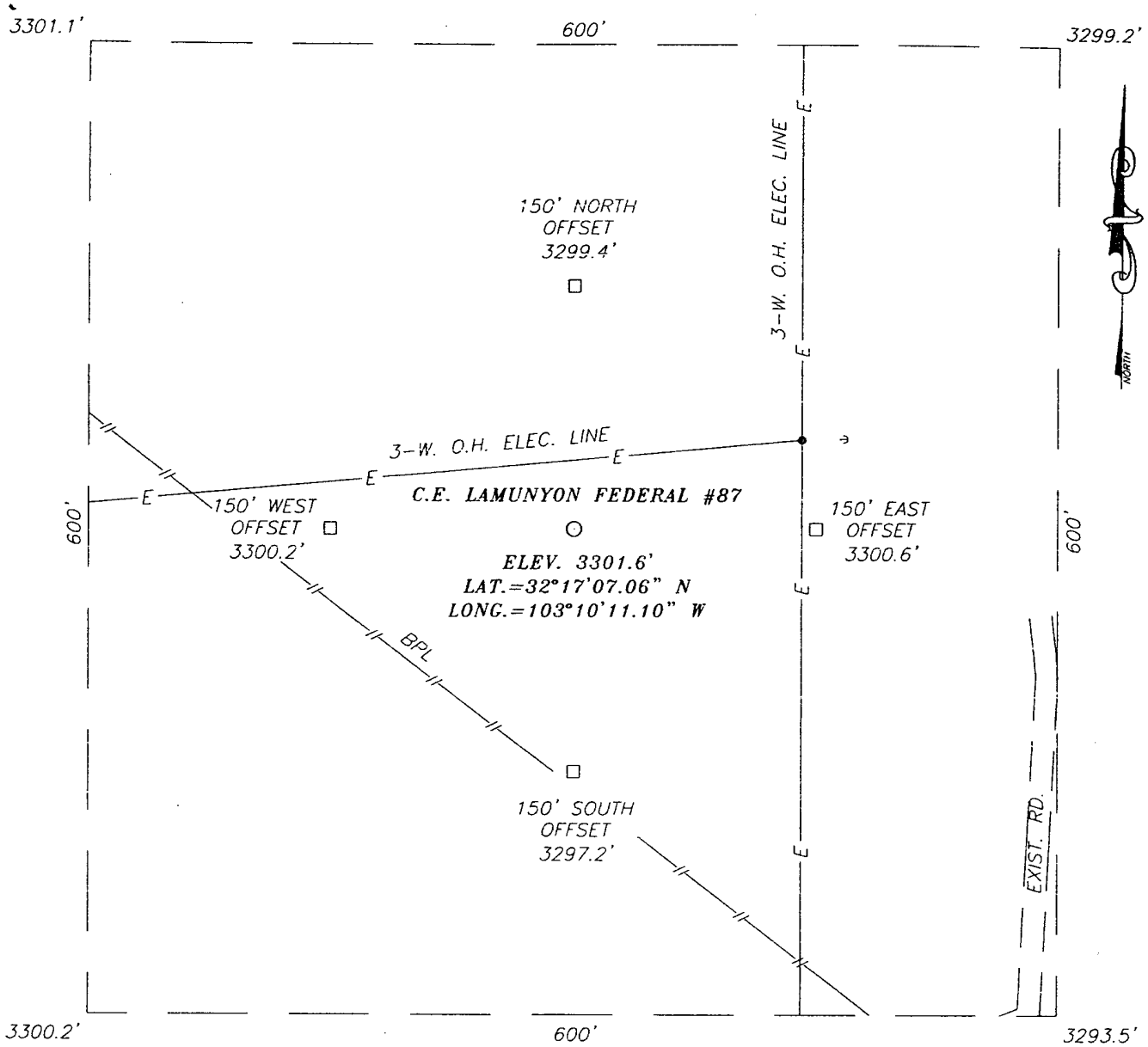
Gary L Eidson 3/15/06

06.11.0435

Certificate No. GARY EIDSON 12641

SECTION 21, TOWNSHIP 23 SOUTH, RANGE 37 EAST, N.M.P.M.,

LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. E-11 (TEAGUE SWITCH ROAD) AND ST. HWY. 18, GO NORTH ON ST. HWY.18 APPROX. 1.52 MILES. TURN RIGHT AND GO EAST APPROX. 0.3 MILES. TURN RIGHT AND GO SOUTHEAST APPROX. 0.53 MILES. TURN LEFT AND GO EAST APPROX. 250 FEET. TURN RIGHT AND GO SOUTH APPROX. 1.0 MILE TO A "T" INTERSECTION. TURN LEFT AND GO SOUTHEAST APPROX. 0.65 MILES. TURN LEFT AND GO NORTH APPROX. 0.36 MILES. TURN RIGHT AND GO EAST APPROX. 300 FEET. TURN LEFT AND GO NORTH APPROX. 300 FEET. THIS LOCATION IS APPROX. 300 FEET WEST.

100 0 100 200 Feet

Scale: 1"=100'

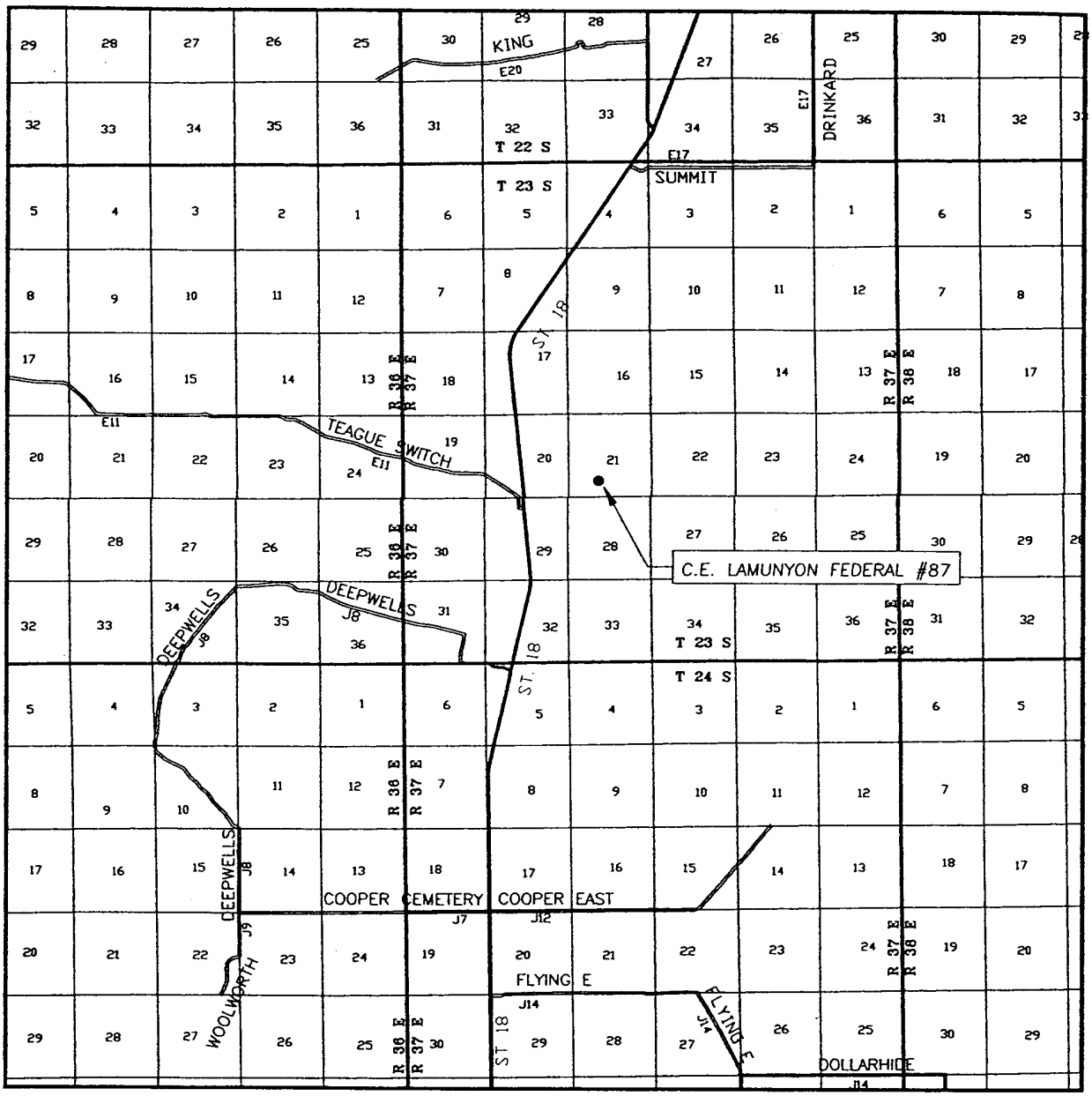
PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

POGO PRODUCING COMPANY

C.E. LAMUNYON FEDERAL #87
LOCATED 990 FEET FROM THE SOUTH LINE
AND 1930 FEET FROM THE WEST LINE OF SECTION 21,
TOWNSHIP 23 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 03/06/06	Sheet 1 of 1 Sheets		
W.O. Number: 06.11.0435	Dr By: M.R.	Rev 1:N/A	
Date: 03/09/06	Disk: CD#1	06110435	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 21 TWP. 23-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 990' FSL & 1930' FWL

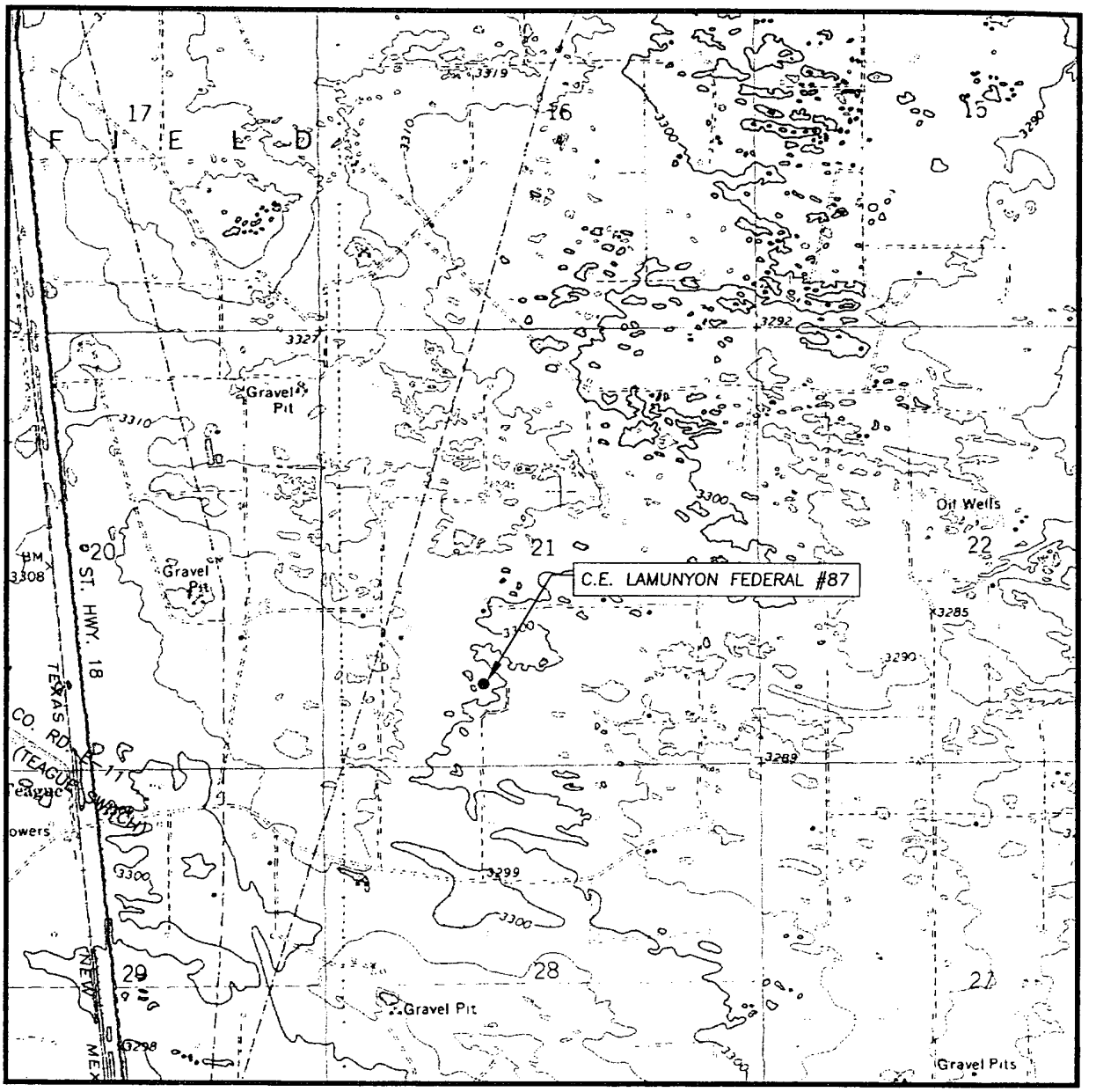
ELEVATION 3302'

OPERATOR POGO PRODUCING COMPANY

LEASE C.E. LAMUNYON FEDERAL

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
RATTLESNAKE CANYON, N.M. – 10'

SEC. 21 TWP. 23-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 990' FSL & 1930' FWL

ELEVATION 3302'

OPERATOR POGO PRODUCING COMPANY

LEASE C.E. LAMUNYON FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
RATTLESNAKE CANYON, N.M.

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

APPLICATION TO DRILL

POGO PRODUCING COMPANY
C.E. LAMUNYON FEDERAL # 87
UNIT "N" SECTION 21
T23S-R37E LEA CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is providedfor your consideration.

1. Location of well: 990' FSL & 1930' FWL SECTION 21 T23S-R37E LEA CO. NM

2. Ground Elevation above Sea Level: 3302' GR.

3. Geological age of surface formation: Quaternary Deposits:

4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium to remove solids from hole.

5. Proposed drilling depth: 3700'

6. Estimated tops of geological markers:

Rustler Anhydrite	1000'	Queen	3300'
Top of Salt	1129'	Penrose	3375'
Yates	2535'	Grayburg	3550'
7 Rivers	2782'	TD	3700'

7. Possible mineral bearing formations:

Yates	Gas	Penrose	Gas
7 Rivers	Oil	Grayburg	Oil
Queen	Oil		

8. Casing Program:

Hole Size	Interval	OD of Casing	Weight	Thread	Collar	Grade
26"	0-40'	20"	NA	NA	NA	Conductor
12¼"	0-1100'	8 5/8"	24#	8-R	ST&C	J-55
7 7/8"	0-3700'	4½"	11.6#	8-R	ST&C	J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY
C.E. LAMUNYON FEDERAL # 87
UNIT "N" SECTION 21
T23S-R37E LEA CO. NM

9. CEMENTING & CASING SETTING DEPTHS:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
8 5/8"	Surface	Run and set 1100' of 8 5/8" 24# J-55 casing. Cement with 800 Sx. of Class "C" cement + ¼# Flocele/Sx, + 2% CaCl, circulate cement to surface.
4½"	Production	Set 3700' of 4½" 11.6# J-55 ST&C casing. Cement with 750 Sx. of Class "C" cement + additives, estimate top of cement 500' from surface.

10. PRESSURE CONTROL EQUIPMENT:

Exhibit "E" shows a 2000 PSI working pressure B.O.P. , consisting of a stripper head instead of an annular preventor, blind rams, and pipe rams. This B.O.P. stack is being used due to the sub-structure height linitations of the drilling rig being used to drill this well. Pressures encountered during the drilling of this well are not expected to exceed 1850 PSI at total depth. Pogo requests that a 3rd party tests this B.O.P. according to API specifications, after the 8 5/8" casing is set. Exhibit "E-1" shows a manually operated choke manifold, as no remote B.O.P. closing equipment will be necessary.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD
40-1100'	8.4-8.7	29-32	NC	Fresh water add paper to control seepage.
1100-3700'	10.0-10.5	29-38	NC*	Brine water use paper to control seepage and high viscosity sweeps to clean hole.

* Water loss may have to be controled in order to have good hole conditions in order to run logs, and casing.

APPLICATION TO DRILL

POGO PRODUCING COMPANY
C.E. LAMUNYON FEDERAL # 87
UNIT "N" SECTION 21
T23S-R37E LEA CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

A. Open hole logs: Dual Laterolog, SNP LDT MSFL Caliper from TD back to 8 5/8" casing shoe. Run Gamma Ray and Neutron logs from 8 5/8" casing shoe back to surface.

B. No DST's are planned

C. No mud logger or cores are planned.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H^2S in this area. If H^2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 1700 PSI, and Estimated BHT 185°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 7 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The 7-R's,Yates,GB formations will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an Oil well.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. All Company and Contract personnel admitted on location must be trained by a qualified H_2S safety instructor to the following:

   A. Characteristics of H_2S
   B. Physical effects and hazzards
   C. Proper use of safety equipment and life support systems.
   D. Principle and operation of H_2S detectors, warning system and briefing areas.
   E. Evacuation procedure, routes and first aid.
   F. Proper use of 30 minute pressure demand air pack.

2. H_2S Detection and Alarm Systems

   A. H_2S 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 indicates potential pressure and danger. Red flag, danger, H_2S 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 communication.
   B. Hand signals will be used where chalk board is inappropriate.
   C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.

7. Drillstem Testing

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

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

8. Drilling contractor supervisor will be required to be familiar with the effects H_2S has on tubular goods and other mechanical equipment.

9. If H_2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H_2S scavengers if necessary.

CHOKE MANIFOLD

3000 PSI WP

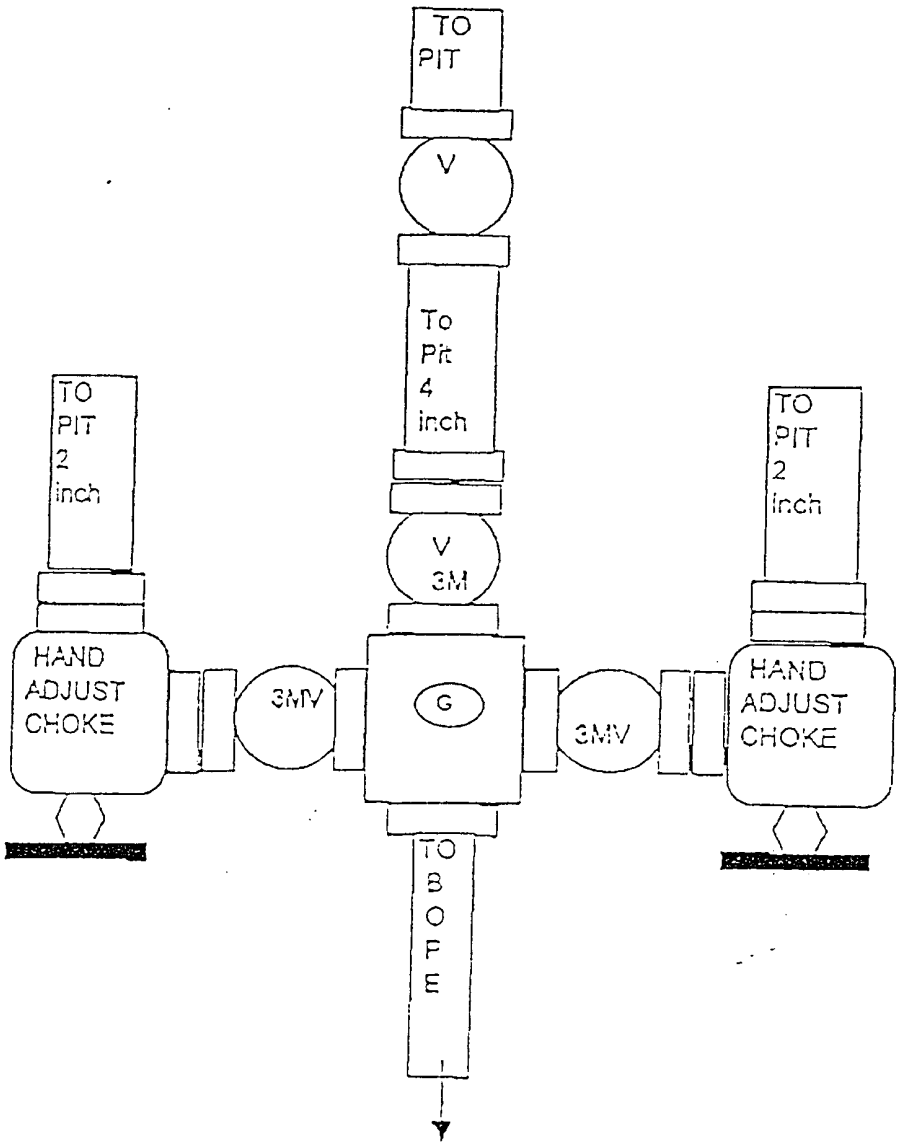


EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

POGO PRODUCING COMPANY
C.E. LAMUNYON FEDERAL # 87
UNIT "N" SECTION 21
T23S-R37E LEA CO. NM

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-144
June 1, 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: C. E. Lamunyon #87 API #: 30-025-37922 U/L or Qtr/Qtr N Sec 21 T 23S R 37E
County: Lea County Latitude 32:17:07.06N Longitude 103:10:11.1W 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 ☐ Pit 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: (check the onsite box if your are burying in place) 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.

Additional Comments:

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 ☐.**

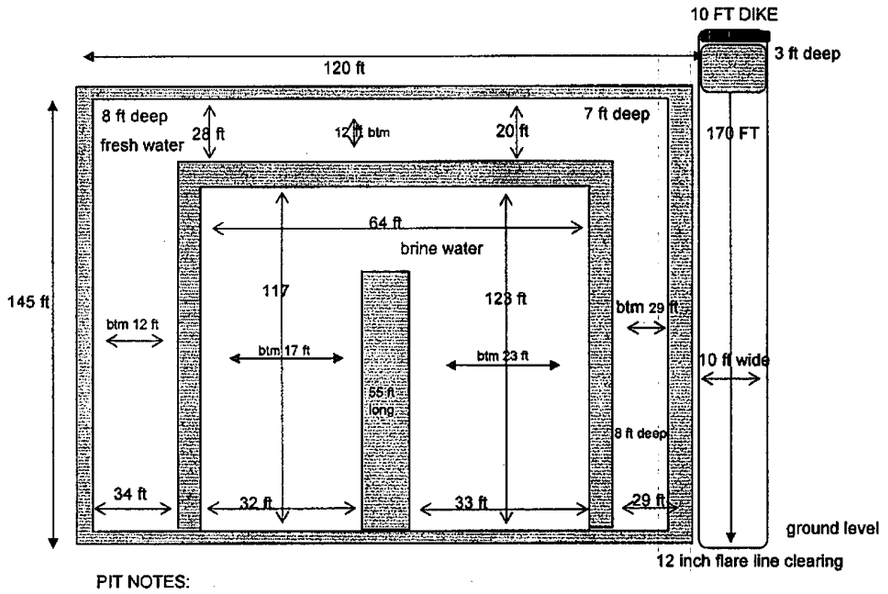
Date: 06/06/06
Printed Name/Title Cathy Wright, Sr. Eng Tech Signature Cathy Wright

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:
Printed Name/Title PETROLEUM ENGINEER Signature _____ Date: JUN 07 2006

POGO Producing Company
C. E. Lamunyon Federal #87
Approximate Pit Dimensions

N/21/23S/37E, Lea County, New Mexico



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° 16' 17" N & 103° 10' 29" W "Published data"
This well produces from a depth greater than 100 ft.

Pit equals approx 16000 bbls

Water Resources

National Water Information System: Web Interface

Data Category: Site Information | Geographic Area: New Mexico | GO

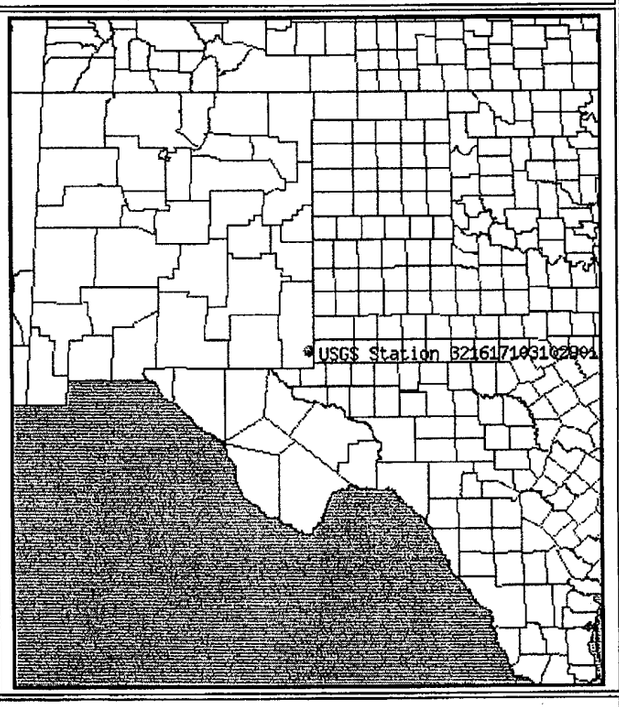
Site Map for New Mexico

USGS 321617103102901 23S.37E.28.133424

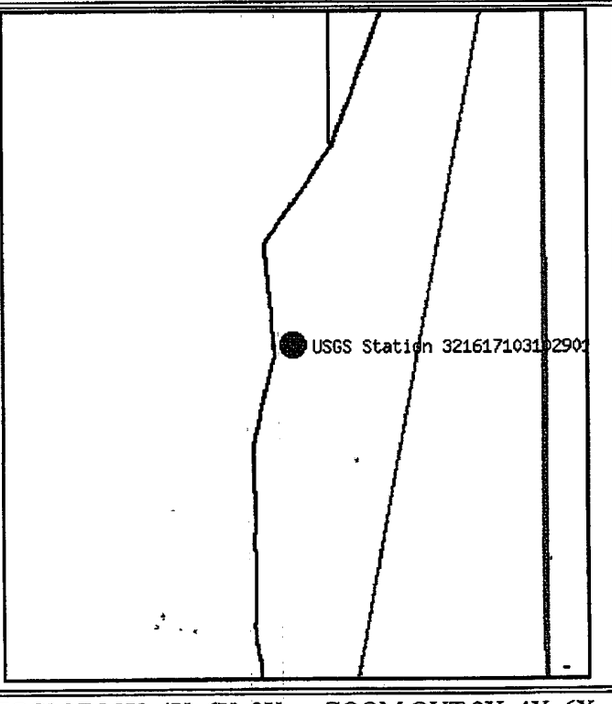
Available data for this site: Site map | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°16'17", Longitude 103°10'29" NAD27
Land-surface elevation 3,315.40 feet above sea level NGVD29
The depth of the well is 150 feet below land surface.
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

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?
Feedback on this web site
NWIS Site Inventory for New Mexico: Site Map
http://waterdata.usgs.gov/nm/nwis/nwismap?

Top
Explanation of terms

Water Resources

National Water Information System: Web Interface

Data Category: Ground Water | Geographic Area: New Mexico | GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321617103102901

Save file of selected sites to local disk for future upload

USGS 321617103102901 23S.37E.28.133424

Available data for this site Ground-water: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°16'17", Longitude 103°10'29" NAD27
Land-surface elevation 3,315.40 feet above sea level NGVD29
The depth of the well is 150 feet below land surface.
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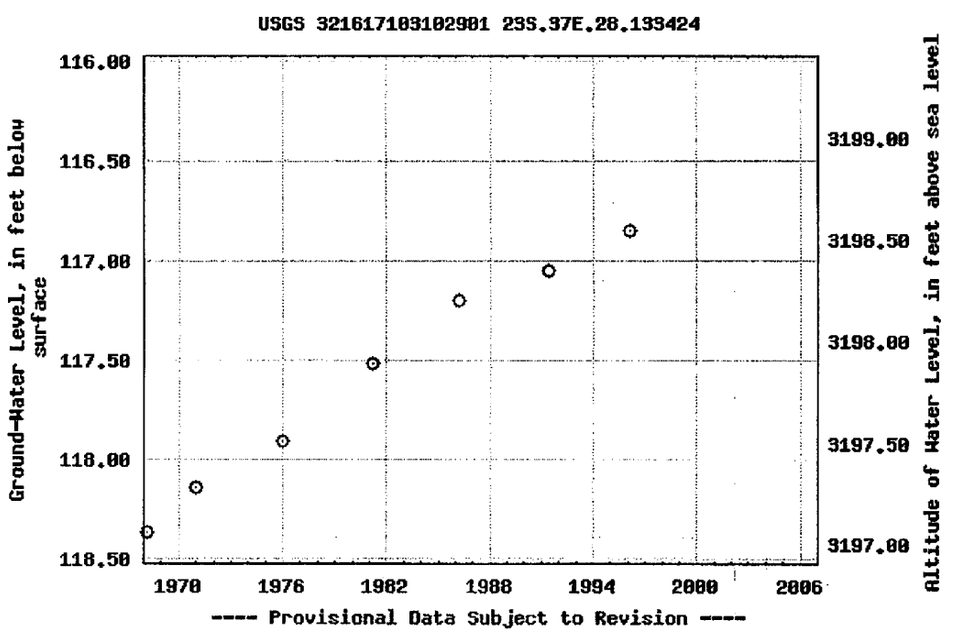
Output formats

- 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? Top

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	
32:17:07.06	N	103:10:11.1	W
Lat2		**Lon2**	
32:16:17	N	103:10:29	W

Output

Course 1-2	Course 2-1	Distance
196.822090	16.8194345	0.87162612

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	
360		0.0	

The sender of this message has requested a read receipt. Click here to send a receipt.

Mull, Donna, EMNRD

From: Phillips, Dorothy, EMNRD **Sent:** Wed 6/7/2006 9:09 AM
To: Mull, Donna, EMNRD
Cc:
Subject: RE: Financial Assurance Requirement
Attachments:

None appear on Jane's list and all have blankets.

From: Mull, Donna, EMNRD
Sent: Wednesday, June 07, 2006 8:40 AM
To: Phillips, Dorothy, EMNRD
Cc: Macquesten, Gail, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Financial Assurance Requirement

Dorothy,

Is the Financial Assurance Requirements for these Operators OK?

Pogo Producing Co (17891)
Mewbourne Oil Co (14744)
Manzano LLC (231429)
Texland Petroleum-Hobbs LLC (113315)
Marathon Oil Co (14021)
Melrose Operating Co (184860)

I have checked the Inactive well list for each Operator.

Please let me know. Thanks and have a nice day. Donna