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DEPARTMENT OF THE INTERIOR

Expires: February 28, 1995

DEC 09 20

BUREAU OF LAND MANAGEMENT OPERATOR'S COPY

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.

LC-062300

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

COTTON DRAW UNIT <301629

8. FARM OR LEASE NAME WELL NO.

COTTON DRAW UNIT #96

9. API WELL NO.

30-025-37594

10. FIELD AND POOL, OR WILDCAT

PADUCA-DELAWARE

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

SEC. 15 T25S-R32E

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

12. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

POGO PRODUCING COMPANY

(RICHARD WRIGHT 432-685-8140) <17891>

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

10' FSL & 1150' FWL SECTION 15 T25S-R32E LEA CO. NM
At proposed prod. zone SAME Unit M

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 28 miles West of Jal New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any).

1200'

16. NO. OF ACRES IN LEASE

1920±

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

660'

19. PROPOSED DEPTH

5000'

20. ROTARY OR CABLE TOOLS

ROTARY

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

3416' 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 |
|--------------|-----------------------|-----------------|---------------|-------------------------------|
| 26" | 20" conductor | NA | 40' 555 | Cement to surface W/Redi-mix. |
| 12 1/4" | H-40 8 5/8" | 24# | 600' 815 | 300 Sx. Circulate cement |
| 7 7/8" | J-55 5 1/2" | 15.5# | 5000' | 725 Sx. " " |

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.

2. Drill 12 1/4" hole to 600'. Run and set 600' of 8 5/8" H-40 24# ST&C casing. Cement with 150 Sx. of 65/35/6 Class "C" POZ/GEL, tail in with 150 Sx. of Class "C" cement + 2% CaCl₂ + 1/4# Flocele/Sx. Circulate cement to surface.

3. Drill 7 7/8" hole to 5000'. Run and set 5000' of 5 1/2" 15.5# J-55 ST&C casing. Cement with 475 Sx. of Class "C" light weight cement + 5% Salt, mixed at 12.9 PPG, tail in with 250 Sx. of Class "C" cement + 8# Gilsonite/Sx., mixed at 14.1 PPG. Cement volumes are calculated to circulate cement to surface.

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 Garcia

TITLE Agent

DATE 10/17/05

(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:

APPROVAL FOR 1 YEAR

APPROVED BY

*Lee M. Lara**Atty*

FIELD MANAGER

DATE

12/5/05

*See Instructions On Reverse Side

KES

State of New Mexico

Energy, Minerals and Natural Resources Department

41
GRAND AVENUE, ARIZONA, NW 6210

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

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 IV
1200 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

| | | | | | |
|---------------|------------------------|-----------|------------------|-------------|---|
| API Number | | Pool Code | Pool Name | | <input type="checkbox"/> AMENDED REPORT |
| | | 49460 | PADIUCA-DELAWARE | | |
| Property Code | Property Name | | | Well Number | |
| 301629 | COTTON DRAW UNIT | | | 96 | |
| OGRID No. | Operator Name | | | Elevation | |
| 17891 | POGO PRODUCING COMPANY | | | 3416' | |

Surface Location

| | | | | | | | | | |
|--------------------|---------------|------------------|---------------|---------|---------------------|---------------------------|-----------------------|------------------------|---------------|
| UL or Lot No. M | Section 15 | Township 25-S | Range 32-E | Lot Idn | Feet from the 10 | North/South line SOUTH | Feet from the 1150 | East/West line WEST | County 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 Access | | | | | | | | | |

| | | | |
|-----------------|-----------------|--------------------|-----------|
| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
| 40 | | | |

NO ALLOWABLE WILL BE

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

GEODETIC COORDINATES
NAD 27 NME

Y=409154.8 N
X=706193.3 E

LAT.=32°07'23.27\" N
LONG.=103°40'02.27\" W

OPERATOR CERTIFICATION

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

Joe T. Janica
 Signature
Joe T. Janica
 Printed Name
 Agent
 Title
10/17/05
 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.

AUGUST 15, 2005

Date Surveyed **LA**
 Signature of **GARY G. EIDSON**
 Professional Surveyor
GARY G. EIDSON
8/15/05
05.11.2005
 Certificate No. **GARY EIDSON** **12641**

EXHIBIT "A"

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-144
June 1, 2004

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

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: <u>Pogo Producing Company</u> Telephone: <u>432-685-8100</u> e-mail address: <u>wrightc@pogoproducing.com</u> | | | | | | | | | |
| Address: <u>P. O. Box 10340, Midland, TX 79702-7340</u> | | | | | | | | | |
| Facility or well name: <u>Cotton Draw Unit #96</u> API #: <u>30-025-37594</u> U/L or Qtr/Qtr <u>M</u> Sec <u>15</u> T <u>25S</u> R <u>32E</u> | | | | | | | | | |
| County: <u>Lea</u> Latitude <u>32:07:23.27N</u> Longitude <u>103:40:02.27W</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/> | | | | | | | | | |
| Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input checked="" type="checkbox"/> | | | | | | | | | |
| Pit Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/> Pit Volume <u>16000</u> bbl | Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____ | | | | | | | | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | <table border="1"><tr><td>Less than 50 feet</td><td>(20 points)</td></tr><tr><td>50 feet or more, but less than 100 feet</td><td>(10 points)</td></tr><tr><td>100 feet or more</td><td>(0 points)</td></tr><tr><td style="text-align: center;">X</td><td style="text-align: center;">0</td></tr></table> | Less than 50 feet | (20 points) | 50 feet or more, but less than 100 feet | (10 points) | 100 feet or more | (0 points) | X | 0 |
| Less than 50 feet | (20 points) | | | | | | | | |
| 50 feet or more, but less than 100 feet | (10 points) | | | | | | | | |
| 100 feet or more | (0 points) | | | | | | | | |
| X | 0 | | | | | | | | |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | <table border="1"><tr><td>Yes</td><td>(20 points)</td></tr><tr><td>No</td><td>(0 points)</td></tr><tr><td style="text-align: center;">X</td><td style="text-align: center;">0</td></tr></table> | Yes | (20 points) | No | (0 points) | X | 0 | | |
| Yes | (20 points) | | | | | | | | |
| No | (0 points) | | | | | | | | |
| X | 0 | | | | | | | | |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | <table border="1"><tr><td>Less than 200 feet</td><td>(20 points)</td></tr><tr><td>200 feet or more, but less than 1000 feet</td><td>(10 points)</td></tr><tr><td>1000 feet or more</td><td>(0 points)</td></tr><tr><td style="text-align: center;">X</td><td style="text-align: center;">0</td></tr></table> | Less than 200 feet | (20 points) | 200 feet or more, but less than 1000 feet | (10 points) | 1000 feet or more | (0 points) | X | 0 |
| Less than 200 feet | (20 points) | | | | | | | | |
| 200 feet or more, but less than 1000 feet | (10 points) | | | | | | | | |
| 1000 feet or more | (0 points) | | | | | | | | |
| X | 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 you 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: 09/28/05

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 [Signature]

Date:

DEC 15 2005

Water Resources

Data Category:

Geographic Area:

Site Information

New Mexico

go

Site Map for New Mexico

USGS 321005103402301 24S.32E.33.42241

Available data for this site

site map

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

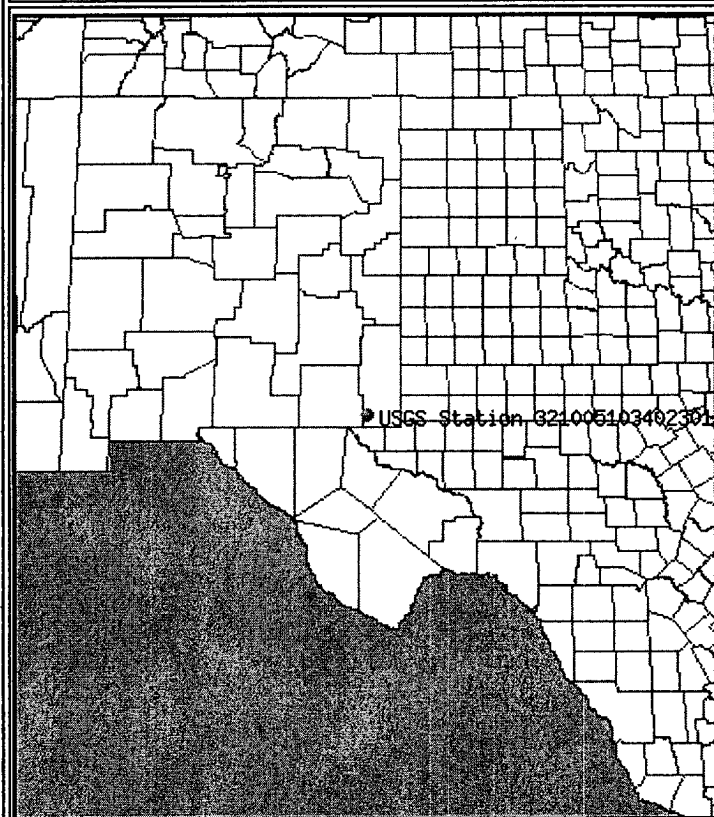
Latitude 32°10'05", Longitude 103°40'23" NAD27

Land-surface elevation 3,499.00 feet above sea level NGVD29

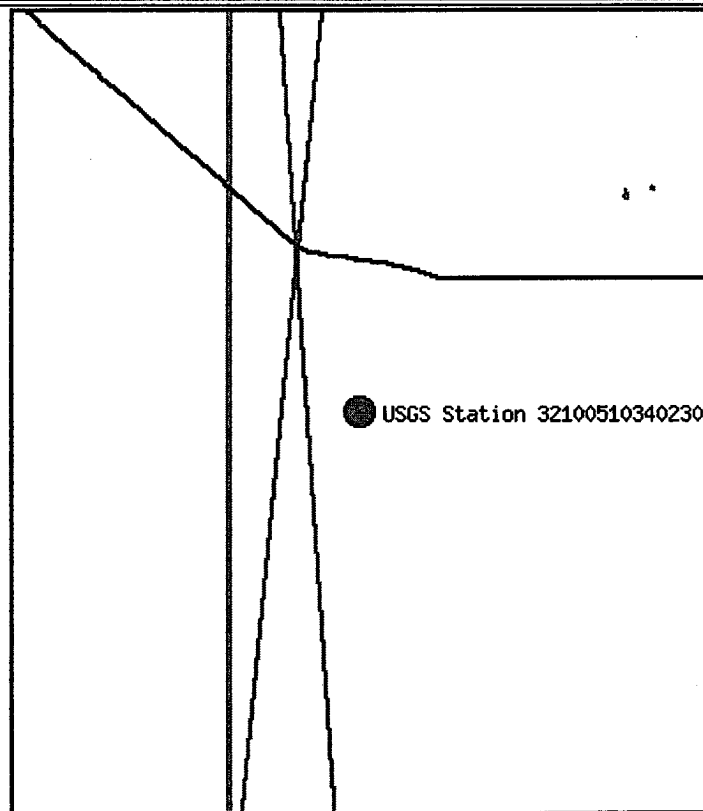
The depth of the well is 367 feet below land surface.

This well is completed in the CHINLE FORMATION (231CHNL) 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 [New Mexico NWISWeb Data Inquiries](#)Feedback on this website [New Mexico NWISWeb Maintainer](#)

NWIS Site Inventory for New Mexico: Site Map

<http://waterdata.usgs.gov/nm/nwis/nwismap?>[Top](#)[Explanation of terms](#)

Retrieved on 2005-09-28 11:18:04 EDT

Department of the Interior, U.S. Geological Survey

USGS Water Resources of New Mexico

http://nwis.waterdata.usgs.gov/nm/nwis/nwismap/?site_no=321005103402301

9/28/2005

Water Resources

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 = • 321005103402301

Save file of selected sites to local disk for future upload

USGS 321005103402301 24S.32E.33.42241

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°10'05", Longitude 103°40'23" NAD27

Land-surface elevation 3,499.00 feet above sea level NGVD29

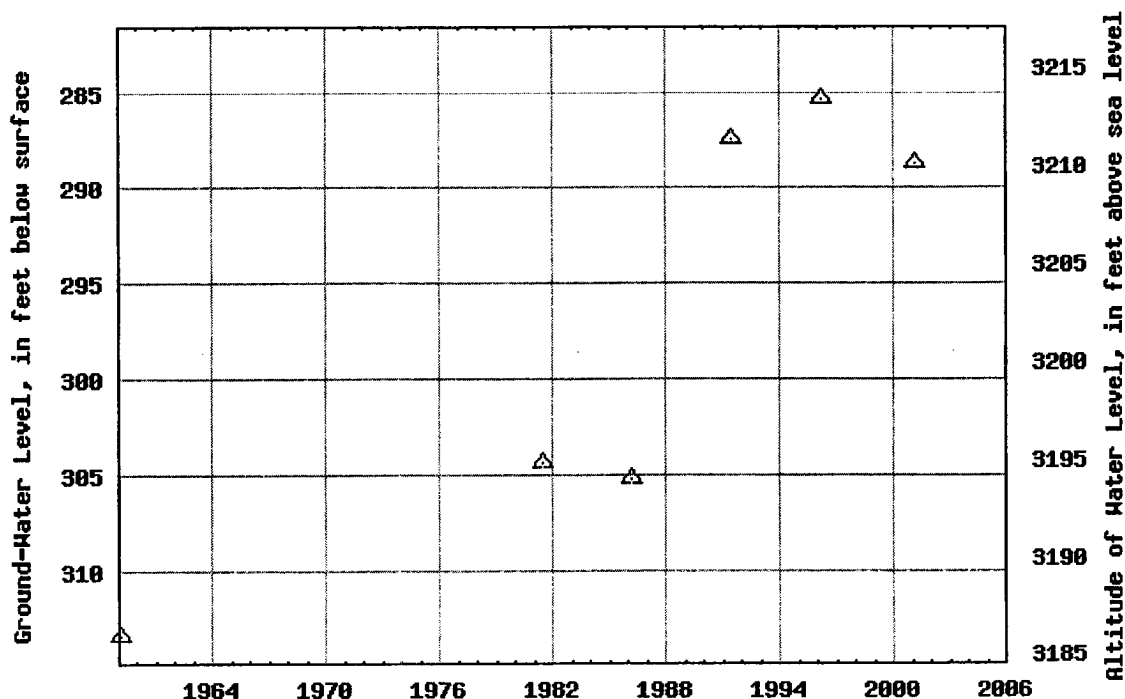
The depth of the well is 367 feet below land surface.

This well is completed in the CHINLE FORMATION (231CHNL) local aquifer.

Output formats

[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

USGS 321005103402301 24S.32E.33.42241



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](#)

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 | |
| 32:10:05 | N | 103:40:23 | W |
| Lat2 | | Lon2 | |
| 32:07:23.27 | N | 103:40:02.27 | W |

Output

| | | |
|------------|------------|------------|
| Course 1-2 | Course 2-1 | Distance |
| 173.804572 | 353.807636 | 2.71132746 |

Distance Units: Earth model:

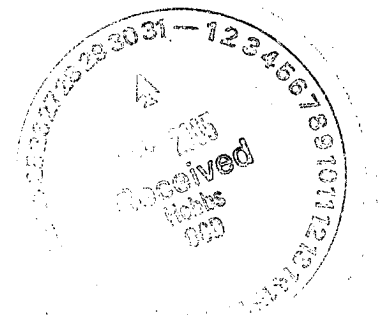
Compute lat/lon given radial and distance from a known point

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.

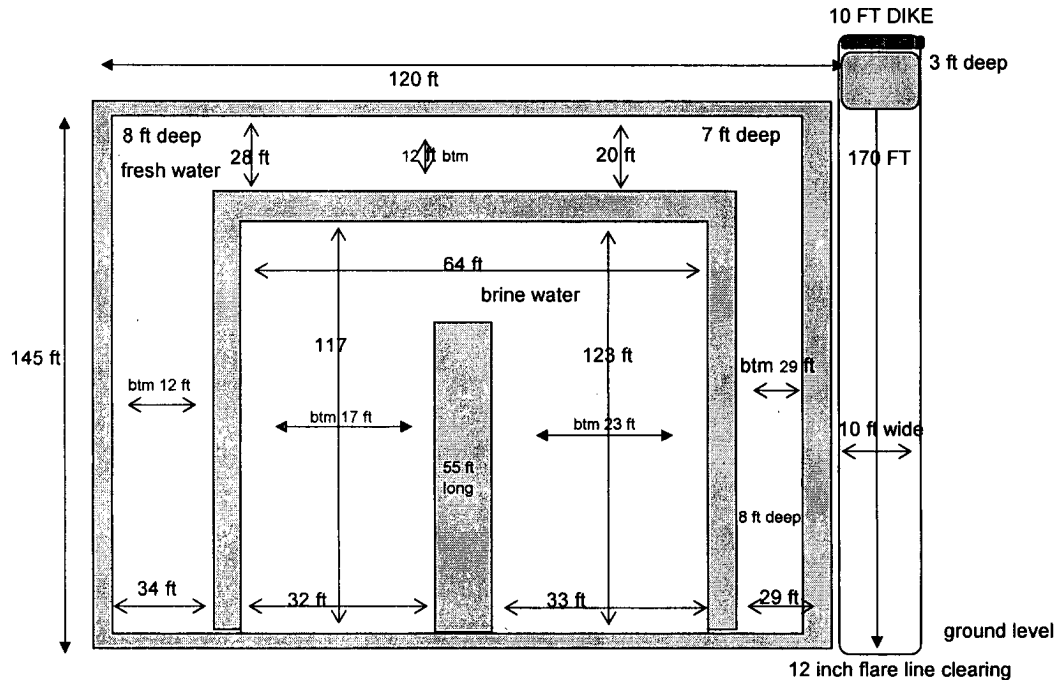
Input data

| | | | |
|------------|---|--------------|---|
| Lat1 | | Lon1 | |
| 0:00.00 | N | 0:00.00 | W |
| Course 1-2 | | Distance 1-2 | |
| 360 | | 0.0 | |



**POGO Producing Company
Cotton Draw Unit #96
Approximate Pit Dimensions**

M/15/25S/32E, 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 = \pm 7950 bbls

Brine Water volume to ground level = \pm 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° 10' 05" N & 103° 40' 23" W "Published data"

This well produces from a depth greater than 100 ft.

Pit equals approx 16000 bbls

