

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR DEEPEN

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

OF WORK
D. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐
2. NAME OF OPERATOR
POGO PRODUCING COMPANY (RICHARD WRIGHT 432-685-8140)
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
330' FNL & 330' FWL SECTION 13 T22S-R32E LEA CO. NM. Unit D
At proposed prod. zone SAME
CARLSBAD CONTROLLED WATER BASIN

5. LEASE DESIGNATION AND SERIAL NO.
NM-58940
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME, WELL NO.
WBR FEDERAL # 11
9. API WELL NO.
30-025-37929
10. FIELD AND POOL, OR
RED TANK-BONE SPRING
11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
SECTION 13 T22S-R32E
12. COUNTY OR PARISH
LEA
EDDY CO.
13. STATE
NEW MEXICO

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
Approximately 30 miles East of Carlsbad New Mexico.
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any) 330'
16. NO. OF ACRES IN LEASE
600
17. NO. OF ACRES ASSIGNED TO THIS WELL
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DRILLING COMPLETED.
2000'
19. PROPOSED DEPTH
10,200'
20. ROTARY OR CABLE TOOL
ROTARY
21. APPROX. DATE WORK WILL START
WHEN APPROVED

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
25"	Conductor	NA	40"	Cement to surface W/Redi-mix.
17 1/2"	13 3/8"	48#	1000'	1000 Sx. circulate to surface
12 1/2"	8 5/8"	32#	4700'	1800 Sx. " " " "
7 7/8"	5 1/2"	17#	10,200'	1200 Sx. Est Top Cement 3000' FS

Witness Surface Casing

1. Drill 26" hole to 40'. Set 40' of 20" consuctor pipe and cement to surface with Redi-mix.
2. Drill 17 1/2" hole to 1000'. Run and set 1000' of 13 3/8" 48# H-40 ST&C casing. Cement with 1000 Sx. of Class "C" cement + 2% CaCl, + 1/4# Flocele/Sx., circulate cement to surface.
3. Drill 12 1/2" hole to 4700'. Run and set 4700' of 8 5/8" casing as follows: 500' of 8 5/8" 32# HCJ-55 ST&C casing, 4200' of 8 5/8" #0# J-55 ST&C casing. Cement with 1800 Sx. of Class "C" cement + additives, circulate cement to surface.
4. Drill 7 7/8" hole to 10,200'. Run and set 5 1/2" casing as follows: 3200' of 5 1/2" 17# N-80 LT&C, 5000' of 5 1/2" 17# J-55 LT&C, 2000' of 5 1/2" 17# N-80 LT&C casing. Cement in two stages with DV Tool at 7000'±. Cement 1st stage with 550 Sx. of Class "H" Premium Plus cement + additives, cement 2nd stage with 650 Sx. of Class "H" cement + additives, estimate top of cement 3000' from 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 Joe T. Janice TITLE Agent DATE 04/12/06
(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 work
CONDITIONS OF APPROVAL IF ANY:

/s/ Tony J. Herrell

FIELD MANAGER

MAY 26 2006

APPROVED BY _____ TITLE _____

DATE

*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

DISTRICT I
1625 N. FRENCH DR., BOBBS, 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 30-025 37929	Pool Code 51683	Pool Name RED TANK - BONE SPRING
Property Code 9350	Property Name WBR FEDERAL	Well Number 11
OGRID No. 017891	Operator Name POGO PRODUCING COMPANY	Elevation 3690'

Surface Location

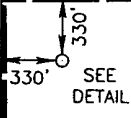
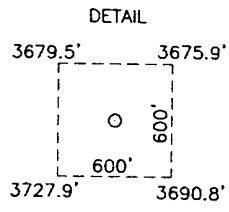
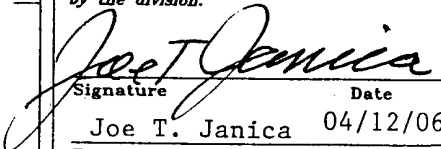
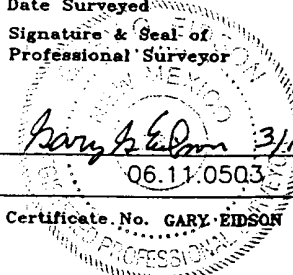
UL or lot No. D	Section 13	Township 22-S	Range 32-E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 330	East/West line WEST	County LEA
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Bottom Hole Location If Different From Surface

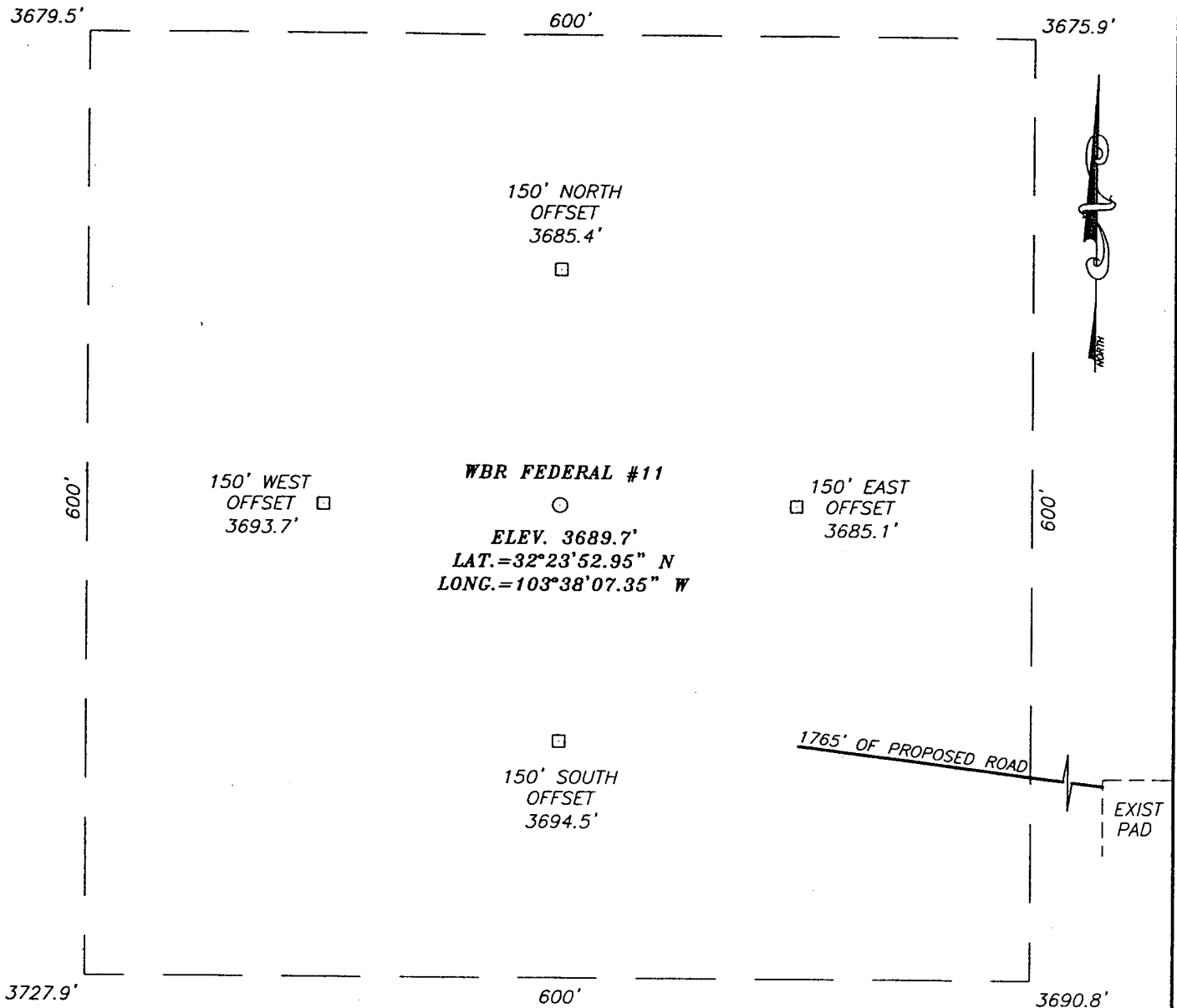
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

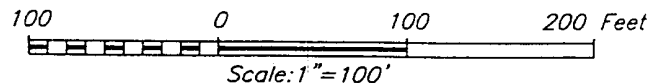
			
<p>GEODETIC COORDINATES NAD 27 NME Y=509225.6 N X=715425.8 E LAT.=32°23'52.95" N LONG.=103°38'07.35" W</p>			
<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest 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.</p> <p> Signature Date Joe T. Janica 04/12/06 Printed Name Agent</p>			
<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MARCH 13, 2006</p> <p>Date Surveyed JR Signature & Seal of Professional Surveyor  Certificate No. GARY E. EDSON 12841</p>			

SECTION 13, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

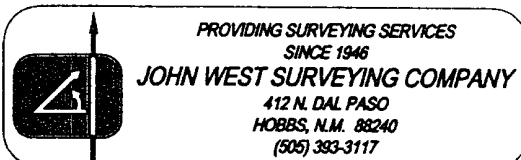
FROM THE INTERSECTION OF U.S. HWY. #62-180 AND ST. HWY. #176, GO EAST ALONG ST. HWY. #176 FOR APPROX. 6.4 MILES. TURN RIGHT AND GO SOUTH APPROX. 0.6 MILES TO A FORK IN THE ROAD. TURN RIGHT AND GO SOUTH/SE APPROX. 1.0 MILES TO ANOTHER FORK IN THE ROAD. TURN LEFT AND GO EAST APPROX. 0.8 MILES, BEND RIGHT AND GO SE APPROX. 0.4 MILES, BEND RIGHT AND GO SOUTH APPROX. 6.5 MILES. TURN RIGHT AND GO WEST APPROX. 0.2 MILES, BEND RIGHT AND GO SW APPROX. 0.2 MILES. TURN LEFT AND GO SOUTH APPROX. 0.1 MILES. TURN RIGHT AND GO WEST APPROX. 0.2 MILES, BEND RIGHT AND GO NORTH APPROX. 0.5 MILES TO THE NWc OF THE EXISTING POGO WBR FED. #10 WELL. FOLLOW PROPOSED ROAD SURVEY WEST FROM THE NWc OF EXIST PAD APPROX. 1765' TO THIS LOCATION



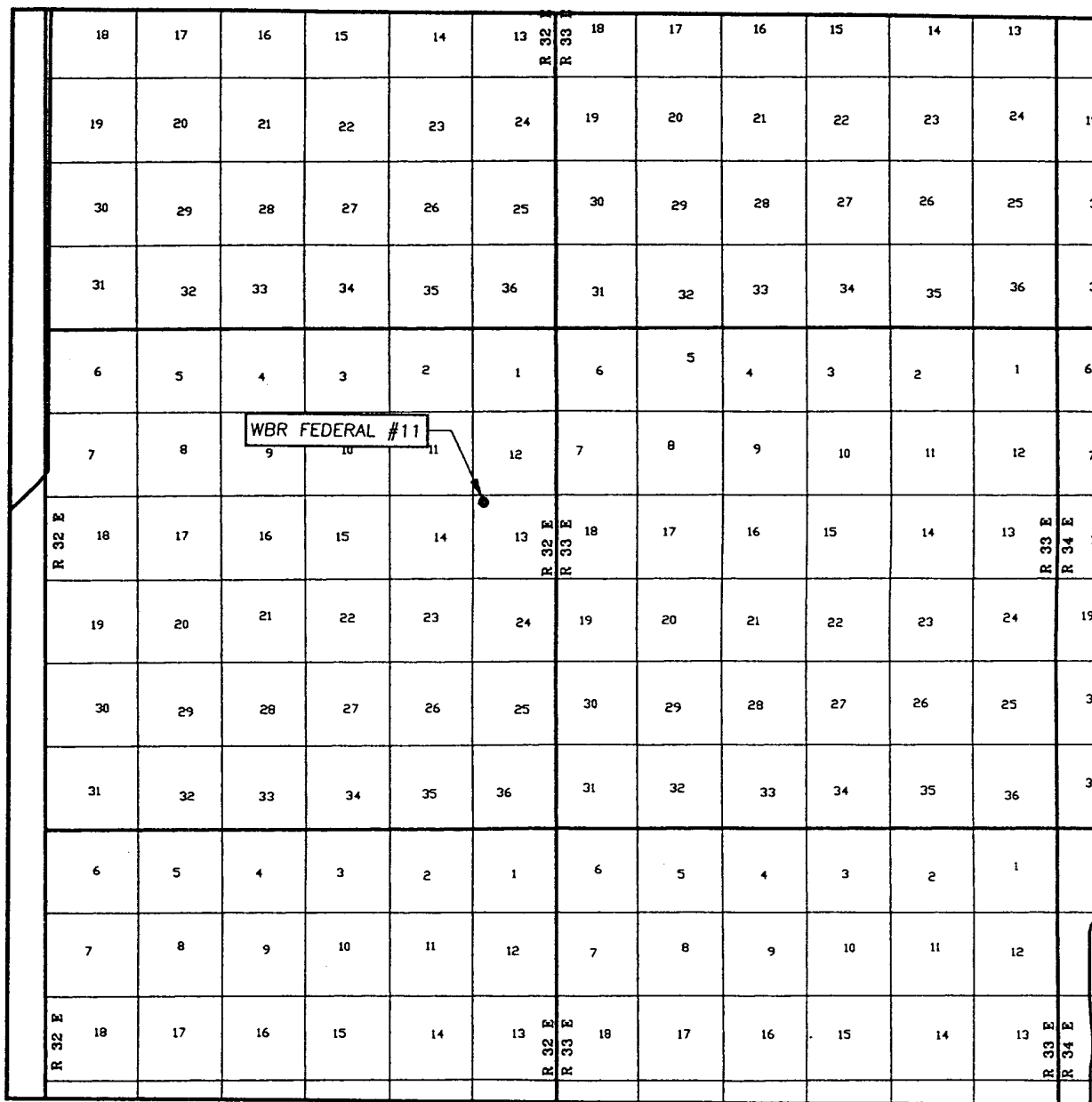
POGO PRODUCING COMPANY

WBR FEDERAL #11
 LOCATED 330 FEET FROM THE NORTH LINE
 AND 330 FEET FROM THE WEST LINE OF SECTION 13,
 TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

Survey Date: 3/13/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.0503	Dr By: J.R.
Date: 3/15/06	Rev 1:N/A
Disk: CD#6	06110503
	Scale: 1"=100'

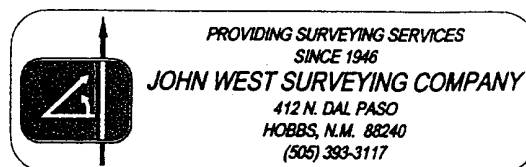


VICINITY MAP

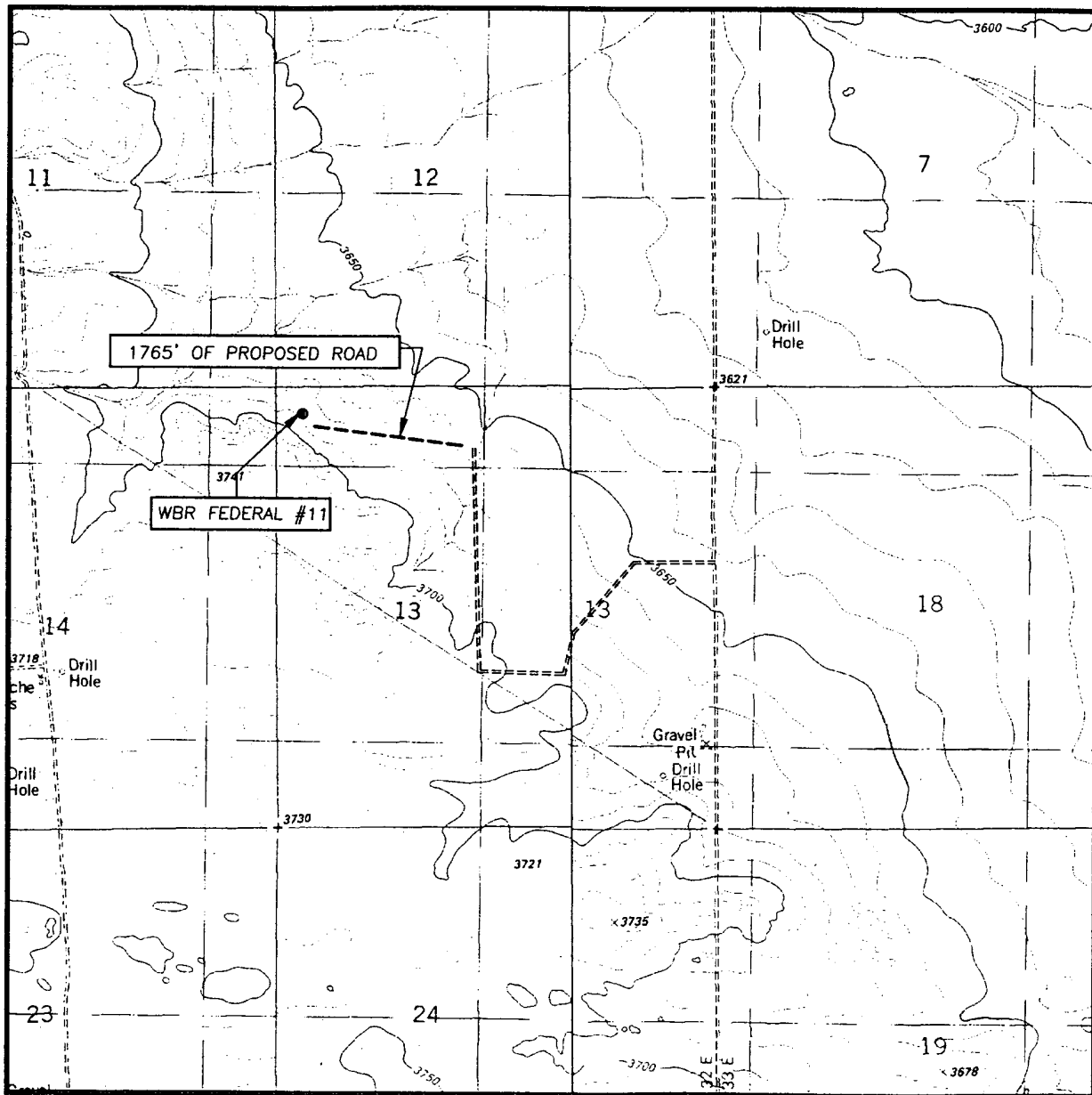


SCALE: 1" = 2 MILES

SEC. 13 TWP. 22-S RGE. 32-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 330' FNL & 330' FWL
 ELEVATION 3690'
 OPERATOR POGO PRODUCING COMPANY
 LEASE WBR FEDERAL



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 13 TWP. 22-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

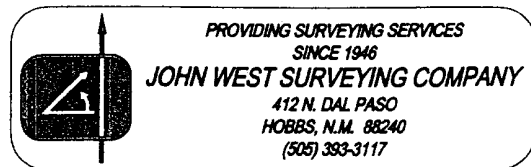
DESCRIPTION 330' FNL & 330' FWL

ELEVATION 3690'

OPERATOR POGO PRODUCING COMPANY

LEASE WBR FEDERAL

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



APPLICATION TO DRILL

POGO PRODUCING COMPANY

WBR FEDERAL # 11

UNIT "D" SECTION 13

T22S-R32E LEA CO. NM

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

1. Location of well: 330' FNL & 330' FWL SECTION 13 T22S-R32E LEA CO. NM
2. Ground Elevation above Sea Level: 3690'
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: 10,200'

6. Estimated tops of geological markers:

Rustler Anhydrite	900'	Cherry Canyon Sand	6000'
Base of Salt	4350'	Brushy Canyon Sand	7000'
Delaware	4842'	Bone Spring	8730'
Ramsey Sand	4920'	1st Bone Spring Sand	9850'

7. Possible mineral bearing formations:

Brushy Canyon Sand	Oil
1st Bone Spring Sand	Oil

8. Casing Program:

Hole Size	Interval	OD of Casing	Weight	Thread	Collar	Grade
26"	0-40	20"	NA	NA	NA	Conductor
17½"	0-1000'	13 3/8"	48#	8-R	ST&C	H-40
12¼"	0-4700'	8 5/8"	24& 32#	8-R	ST&C	J-55
7 7/8"	0-10,200'	5½"	17#	8-R	LT&C	N-80. J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY

WBR FEDERAL # 11

UNIT "D" SECTION 13

T22S-R32E LEA CO. NM

9. CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set 1000' of 13 3/8" 48# H-40 ST&C casing. Cement with 1000Sx. of Class "C" cement + 2% CaCl ₂ + 1/4# Flocele/Sx. Circulate cement to surface.
8 5/8"	Intermediate	Set 4700' of 8 5/8" 32 & 24# J-55 & HCJ-55" ST&C casing. Cement with 1800 Sx. of Class "C" cement + additives, circulate cement to surface.
5 1/2"	Production	Set 10,200' of 5 1/2" 17# N-80 & J-55 LT&C casing. Cement in 2 stages with DV Tool at 7000'±. Cement 1st stage with 550 Sx. of Class "H" Premium Plus cement + additives, cement 2nd stage with 650 Sx. of Class "H" cement + additives, estimate top of cement 3000' from surface.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams, and bottom pipe rams. The B.O.P. will be nipped up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when the drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will be utilized. Exhibit "E-1" shows a hydraulically operated closing unit and a 2" 3000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected in this well.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE SYSTEM
40-1000'	8.4-8.7	29-34	NC	Fresh water spud mud add paper to control seepage.
1000-4700	10.0-10.2	29-38	NC	Brine water use paper to control seepage, and high viscosity sweeps to clean hole.
4700-10,200'	8.4-8.7	29-40	NC*	Fresh water add fresh water Gel to control viscosity, use high viscosity sweeps to clean hole. Use a Dris-Pac system if water loss control is required.

* Water loss control may be required to condition hole to run logs, casing, or DST's if this is required go to a Dris-Pac system to control water loss.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, & casing the viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

POGO PRODUCING COMPANY

WBR FEDERAL # 11

UNIT "D" SECTION 13

T22S-R32E LEA CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Induction, LDT, SNP, MSFL, Gamma Ray Caliper from TD 8 5/8" casing shoe.
- B. Cased hole logs: Gamma Ray, Neutron from 8 5/8" casing shoe back to surface.
- C. Mud logger may be placed on hole at 4700' and remain on hole to TD.
- D. No cores or DST's are planned at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H²S in this area. If H²S 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 5000 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 28 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:

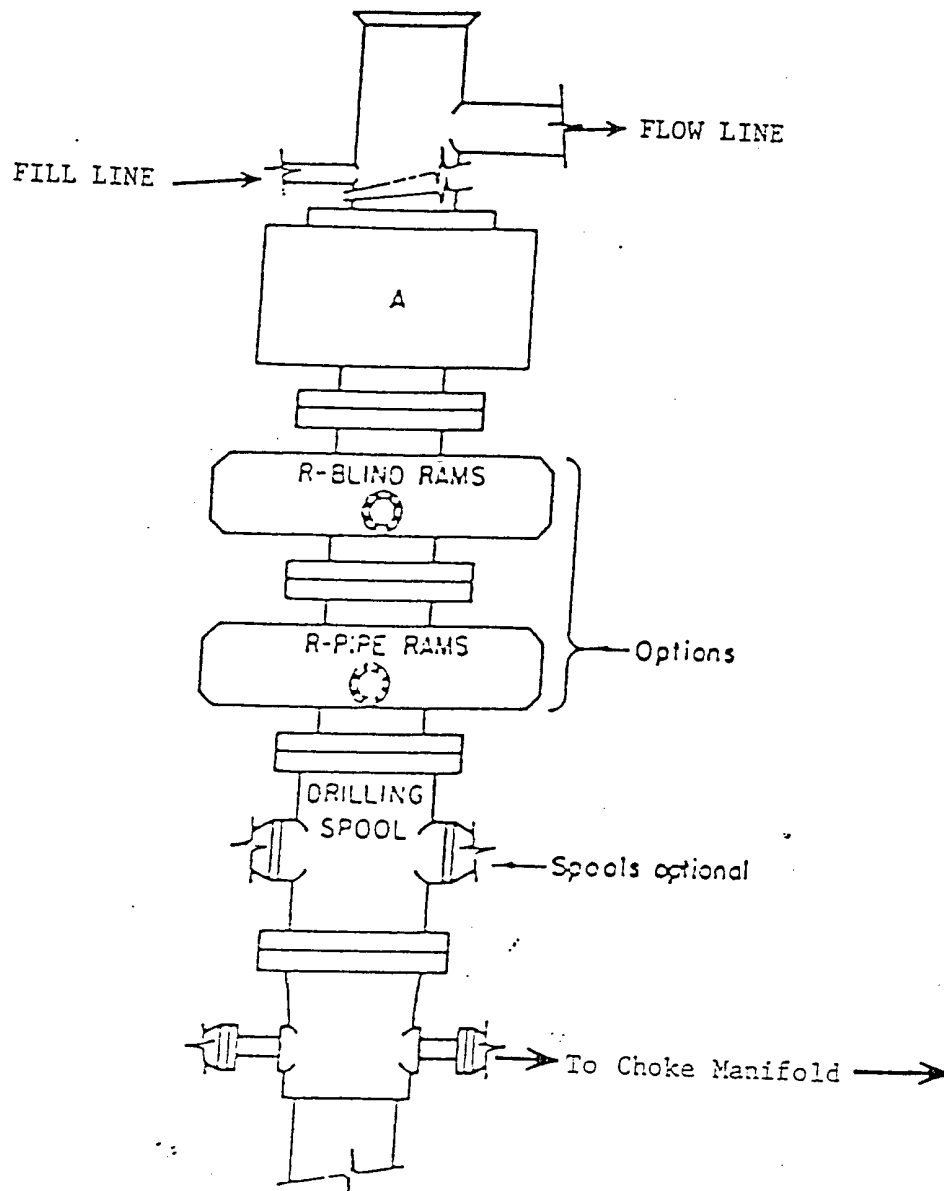
After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The _____ formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialized as an Oil well.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. All Company and Contract personnel admitted on location must be trained 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 indicates potential pressure and 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 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 separator will be brought into service along with H_2S scavengers if necessary.



ARRANGEMENT SRRA

900 Series
3000 PSI WP

EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON

POGO PRODUCING COMPANY
WBR FEDERAL # 11
UNIT "D" SECTION 13
T22S-R32E LEA CO. NM

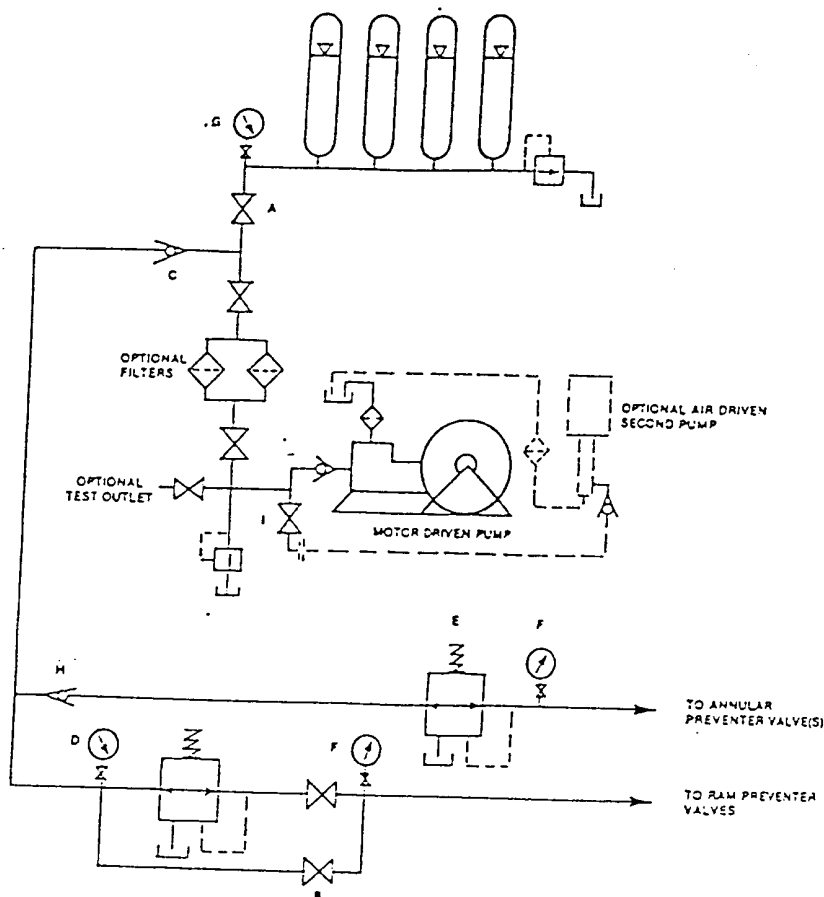


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

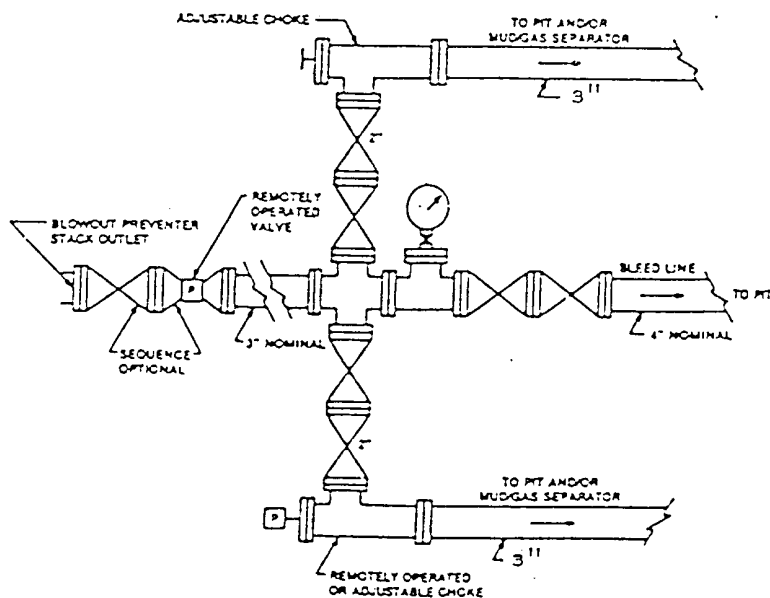


FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service — surface installation.

EXHIBIT "E-1"
CHOLE MANIFOLD & CLOSING UNIT

POGO PRODUCING COMPANY
WBR FEDERAL # 11
UNIT "D" SECTION 13
T22S- R23E 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: <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>WBR Federal #11</u> API #: <u>30-025-37729</u> U/L or Qtr/Qtr <u>D</u> Sec <u>13</u> T <u>22S</u> R <u>32E</u>		
County: <u>Lea County</u> Latitude <u>32:23:52.95N</u> Longitude <u>103:38:07.35W</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input 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.)	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 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: 06/07/06

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

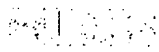
PETROLEUM ENGINEER

Signature

[Signature]

Date:

JUN 09 2006



Water
Resources

National Water Information System:
Web Interface

Data Category:
Site Information

Geographic Area:
New Mexico



Warning: There will be USGS Network Maintenance on June 7th, Weds. from 7-9 pm EDT. Real-time data will continue to be available at <http://waterdata.usgs.gov/nwis>

Site Map for New Mexico

USGS 321952103400801 23S.32E.03.311114

Available data for this site

Site map



Lea County, New Mexico
Hydrologic Unit Code
Latitude 32°19'52", Longitude 103°40'08" NAD27
Land-surface elevation 3,648.00 feet above sea level NGVD29
The depth of the well is 630 feet below land surface.
This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer:

Location of the site in New Mexico.

Site map.

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

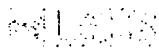
Maps are generated by US Census Bureau TIGER Mapping Service.

[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](#)

http://nwis.waterdata.usgs.gov/nm/nwis/nwismap/?site_no=321952103400801&

6/7/2006



Warning: There will be USGS Network Maintenance on June 7th, Weds. from 7-9 pm EDT. Real-time data will continue to be available at <http://waterdata.usgs.gov/nwis>

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321952103400801

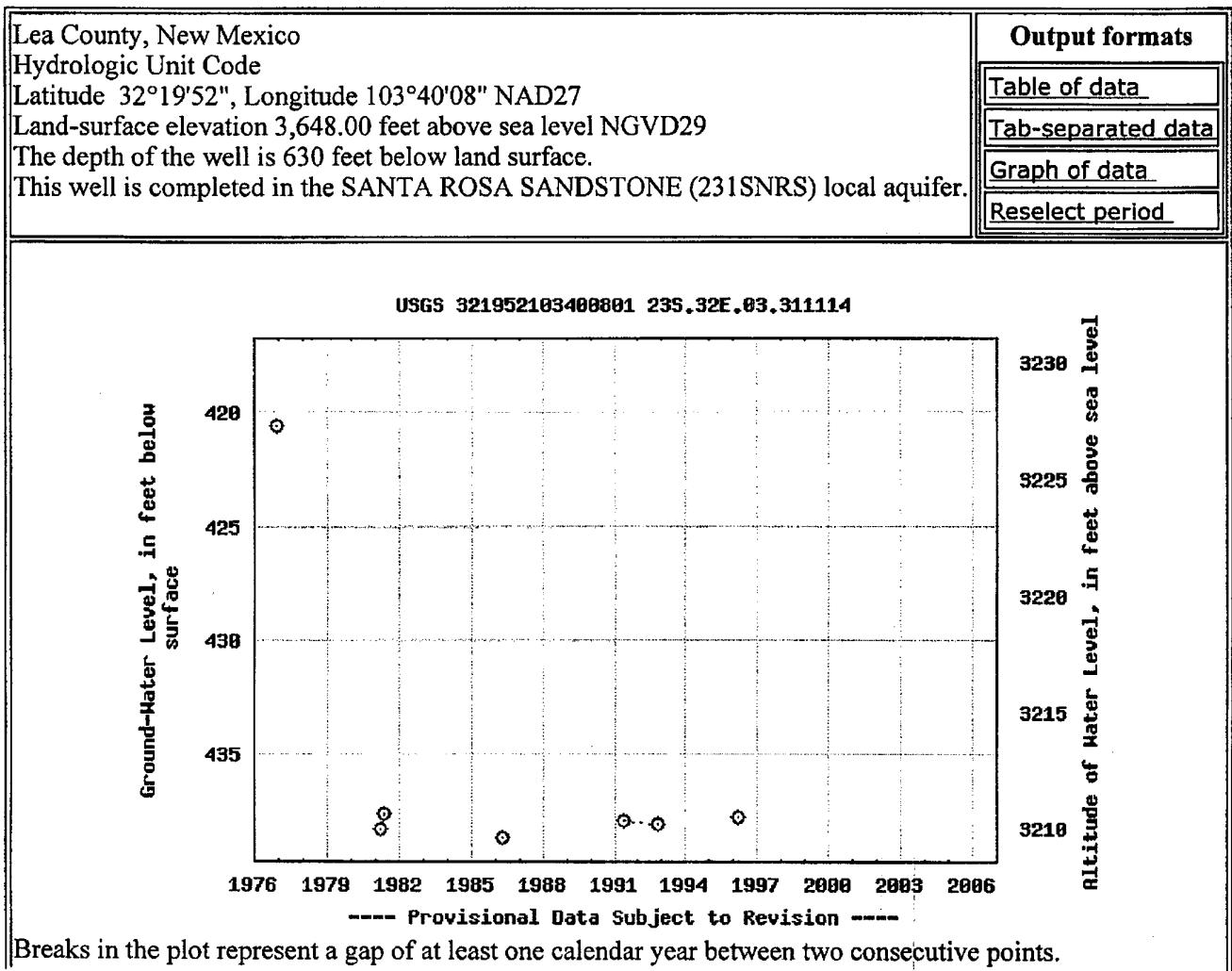
Save file of selected sites to local disk for future upload

USGS 321952103400801 23S.32E.03.311114

Available data for this site

Ground-water: Field measurements

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	
32:23:52.95	N	103:38:07.35	W
Lat2		Lon2	
32:19:52	N	103:40:08	W

Output

Course 1-2	Course 2-1	Distance
202.934563	22.9166230	4.360242202

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

Compute Reset

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

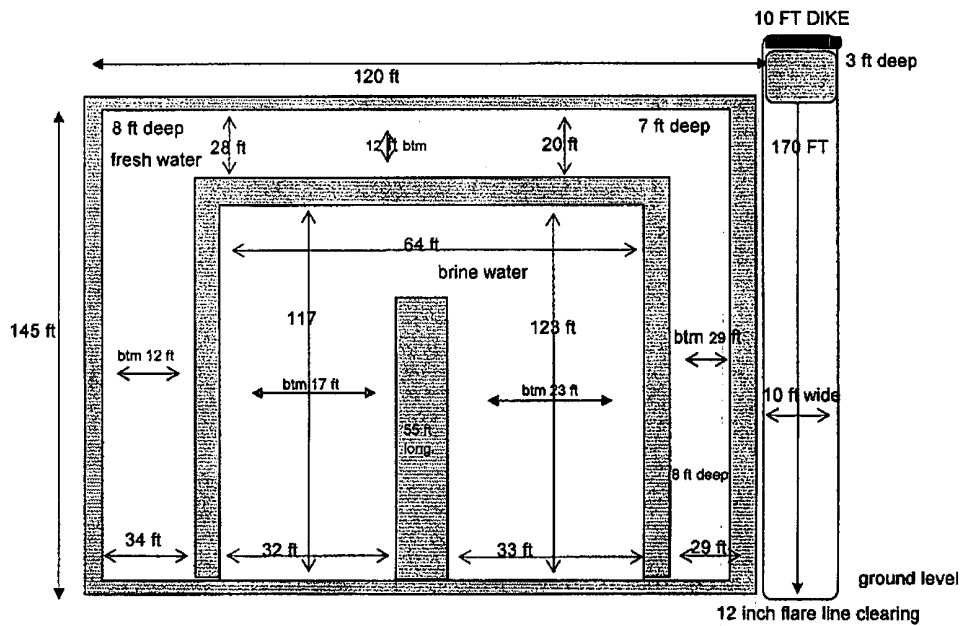
Enter lat/lon of initial point, true course and distance. Select distance units and earth model and click "compute". Lat/lons may be entered in DD.DD, DD:MM.MM or DD:MM:SS.SS formats.

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	


POGO Producing Company
WBR Federal #11
Approximate Pit Dimensions
D/13/22S/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° 19' 52" N & 103° 40' 08" W "Published data"
This well produces from a depth greater than 100 ft.

Pit equals approx 16000 bbls

 The sender of this message has requested a read receipt. [Click here to send a receipt.](#)

Mull, Donna, EMNRD

From: Phillips, Dorothy, EMNRD
To: Mull, Donna, EMNRD
Cc:
Subject: RE: Financial Assurance Requirement
Attachments:

Sent: Fri 6/9/2006 8:36 AM

Apache still has three one-well bonds to submit according to Jane's list.
 30-025-04136; 30-025-33045; 30-025-33567
 None of the rest appear on Jane's list.
 All have blanket bonds.

From: Mull, Donna, EMNRD
Sent: Friday, June 09, 2006 8:21 AM
To: Phillips, Dorothy, EMNRD
Cc: Macquesten, Gail, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Financial Assurance Requirement

Dorothy,

Is the Financial Assurance Requirement for these Operators OK?

Pogo Producing Co (17891)
 Mewbourne Oil Co (14744)
 ConocoPhillips Co (217817)
 John H Hendrix Corp (12024)
 Yates Petroleum Corp (25575)
 COG Operating LLC (229137)
 Samson Resources Co (20165)
 Marbob Energy Corp (14049)
 Apache Corp (873)
 Mack Energy Corp (13837)
 COG Operating LLC (229137)
 Marthon Oil Co (14021)
 Lewis B Burleson Inc (13300)

I have checked these Operators in the Inactive well list.

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