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*(Instructions on page 2)

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DECLARED WATER BASIN3 CEMENT BEHIND THE <u>13'8''</u> CASING MUST BE <u>CIRCULATED</u>

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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LIVINGSTON RIDGE 19 FEDERAL #5 Drilling Plan

- 1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cmt to surface w/ Redimix.
- Drill 17-1/2" hole to 800'. Run & set 800' of 13-3/8" 48# H-40 ST&C csg. Cmt w/ 600 sks Cl "C" cmt followed by 200 sks Cl "C" + 2% CaCl2. Circ cmt to surface.
- 3. Drill 11" hole to 4400'. Run & set 4400' 8-5/8" 32# J-55 ST&C casing. Cmt w/ 1300 sks Cl "C" cmt + add followed by 200 sks Cl "C" + 2% CaCl2. Circ cmt to surface.
- 4. Drill 7-7/8" hole to 8700'. Run & set 8700' of 5-1/2" csg as follows: 2700' 17# J-55 LT&C, 5000' 15.5# J-55 LT&C, 1000' 17# J-55 LT&C. Cmt in 3 stages w/ DV tools at 5800' & 3800' ±. Cmt 1st stage w/ 650 sks Cl "H" + add. Cmt 2nd stage w/ 600 sks Cl "C" + add. Cmt 3rd stage w/ 400 sks Cl "C" followed by 100 sks Cl "C" + 1% CaCl2. Circ cmt to surface.



DISTRICT I

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1825 N. French Dr., Hobbe, NM 88240 DISTRICT II 811 South First. Artesia, NM 88210

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DISTRICT III

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

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico

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Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	Number		1	Pool Co	de	Pool Name				
30-0;	25-3-	2001	39	366		LIVINGSTON RIDGE DELAWARE-EAST				
Property (Pro	Property Name Well Number				
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LIVINGSTON RIDGE "19" FEDERAL #5 Located at 430' FNL and 1750' FEL Section 19, Township 22 South, Range 32 East, N.M.P.M., Lea County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com W.O. Number: 3070AA - KJG CD#5 Survey Date: 03-04-2003 Scale: 1" = 2000' Date: 03-07-2003 POGO PRODUCING COMPANY





P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com W.O. Number: 3070AA - KJG CD#5 Survey Date: 03-04-2003 Scale: 1" = 2 miles Date: 03-07-2003 POGO PRODUCING COMPANY

APPLICATION TO DRILL

POGO PRODUCING COMPANY LIVINGSTON RIDGE "19" FEDERAL # 5 UNIT "C" SECTION 19 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 information.

- 1. Location of well: 430' FNL & 1750' FWL SECTION 19 T22S-R32E LEA CO. NM
- 2. Ground Elevation above Sea Level: 3614' GR.
- 3. Geological age of surface formation: Ouaternary
- 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: 8700'
- 6. Estimated tops of geological markers:

Rustler Anhydrite	750'	Cherry Canyon	5400'
Basal Anhydrite	4238'	Brushy Canyon	6630 '
Delaware Lime	4512'	Bone Spring	8380
Bell Canyon	4570 '		

7. Possible mineral bearing formations:

Brushy Canyon	0i1
Bone Spring	0i1

8. Casing Program:

<u>Hole Size</u>	Interval	OD of Casing		Thread	Collar	Grade
25"	0-40	20".	NA	NA	NA	Conductor
175"	0-800'	13 3/8"	48#	8-R	ST&C	H-40
11"	0-4400'	8 5/8"	32#	8-R	ST&C	J-55
7 7/8"	0-8700'	5 ¹ 2''	17 & 15.5	8-R	LT&C	J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY LIVINGSTON RIDGE "19" FEDERAL # 5 UNIT "C" SECTION 19 T22S-R32E LEA CO. NM

9. CASING CEMENTING & SETTING DEPTHS:

20" Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8" Surface	Set 800' of 13 3/8" 48# H-40 ST&C casing. Cement with 600 Sx. of 65/35/6 Class "C" POZ-Gel, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + 法# Flocele/Sx. Circulate cement.

- 8 5/8" Intermediate Set 4400' of 8 5/8" 32# J-55 ST&C casing, Cement with 1300 Sx. of 65/35/6 Class "C" POZ-Gel, + 5% NaCl, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + ½# Flocele/Sx. Circulate cement to lsurface.
- 5¹/₂" Production Set 8700' of 5¹/₂" casing as follows: 2700' of 5¹/₂" 17# J-55 LT&C, 5000' of 5¹/₂" 15.5# LT&C, 1000' of 5¹/₂" 17# J-55 LT&C. Cement in 3 stages, place DV Tools at 5800' & 3700'±. Cement 1st stage with 650 Sx. of Class "H" cement + additives, cement 2nd stage with 600 Sx. of Class "C" cement + 8# of Gilsonite/Sx., cement 3rd stage with 400 Sx. of 65/35/6 Class "C" POZ-Gel, tail in with 100 Sx. of Class "C" cement + 1% CaCl, circulate cement to 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 nippled 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 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.
- 11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-800'	8.4-8.7	29-32	NC	Fresh water Spud Mud add paper to control seepage.
800-4400'	10.0-10.2	29-38	NC -	Brine water add paper to control seepage and use high viscosíty sweeps to clean hole.
4400-8700 '	8.4-8.7	29-40	NC*	Fresh water mud system use high viscosity sweeps to clean hole.

* If water loss control is required in order to take DST's, run logs, or run casing add Dris-Pac to 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, and casing viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

POGO PRODUCING COMPANY LIVINGSTON RIDGE "19" FEDERAL # 5 UNIT "C" SECTION 19 T22S-R32E LEA CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

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

C. Mud logger may be placed on hole at 4400'±.

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 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 <u>4300</u> PSI, and Estimated BHT 165°

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 <u>28</u> days. If production casing is run then an additional <u>30</u> 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 <u>Delaware(BS)</u> formation 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 H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazzards
 - 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

·13-A

- 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 seperator will be brought into service along with H_2S scavengers if necessary.

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SURFACE USE PLAN

POGO PRODUCING COMPANY LIVINGSTON RIDGE "19" FEDERAL # 5 UNIT "C" SECTION 19 T22S-R32E LEA CO. NM

- 1. EXISTING ROADS: Area roads, Exhibit "B" is a reproduction of a County General Hiway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing exixting roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the proposed well site location as staked.
 - B. From Hobbs, New Mexico take U.S. Hi-way 62-180 toward Carlsbad New Mexico go 38± miles to CR-29, turn Left (SOUTH) go 12.5± miles, turn Left (EAST) go .7 miles, turn North go .25 miles, turn East go .25 miles to well # 1, from the Southeast corner of location follow new least road .3 miles to location.
 - C. Exhibit "F" shows probable routes of powerlines and flowlines.
- 2. PLANNED ACCESS ROADS: Approximately 1500' of new road will be constructed.
 - A. The access road will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.
 - B. Gradient on all roads will be less than 5%.
 - C. Turnouts will be constructed as required or as directed by the BLM.
 - D. If needed roads will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
 - E. Center line for the new access road has been staked and flagged. Earthwork will be done as required by field and topographic conditions.
 - F. Colverts in the access road will be used where necessary. The road will be constructed to utilize low water crossings for drainage as dictated by the topography.
- 3. LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS SHOWN ON EXHIBIT "A-1".
 - A. Water wells None known
 - B. Disposal wells None known
 - C. Drilling wells None known
 - D. Producing wells As shown on Exhibit "A-1"
 - E. Abandoned wells As shown on Exhibit "A-1".
 - F. Injection wells None known

SURFACE USE PLAN

POGO PRODUCING COMPANY LIVINGSTON RIDGE "19" FEDERAL # 5 UNIT "C" SECTION 19 T22S-R32E LEA CO. NM

4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's. Possible routes of pipelines, flowlines and powerlines are shown on Exhibit "F".

5. LOCATION AND TYPE OF WATER SUPPLY:

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Water will be purchased locally from a commercial source and trucked over the access roads or piped to location in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of drill site, if additional material is needed it will be obtained from a local source and transported over the access roads as shown on Exhibit "C".

7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by the supplier, including broken sacks.
- D. Waste water from living quaters will be drained into holes with a minium of 10'. These holes will be covered during drilling and will be back filled when the well is completed. A Porto-John will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for furthed drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approve disposal site. Later pips will be broken out to speed drying. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in storage tanks and sold.

8. ANCILLARY FACILITIES:

A. No camps or air strips will be constructed on location.

SURFACE USE PLAN

POGO PRODUCING COMPANY LIVINGSTON RIDGE "19" FEDERAL # 5 UNIT "C" SECTION 19 T22S-R32E LEA CO. NM

- 9. WELL SITE LAYOUT
 - A. Exhibit "D" shows the proposed well site layout.
 - B. This exhibit indicated proposed location of reserve and sump pits and living facilities.
 - C. Mud pits in the active circulating system will be steel pits & the reserve pit is proposed to be unlined unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
 - D. If needed, the reserve pit is to be lined with polyethelene. The pit_liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.
 - E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.
- 10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

POGO PRODUCING COMPANYLIVINGSTON RIDGE "19"FEDERAL # 5UNIT "C"SECTION 19T22S-R32ELEA CO. NM

11. OTHER INFORMATION:

- A. Topography consists of sand dunes with a slight dip to the West. Deep sandy soil supports shinnery oak, native grasses, and an occasional mesquite tree.
- B. Surface is owned by the U.S. Government and is administered by the Bureau of Land Management. The surface is used for grazing livestock and the production of oil and gas.
- C. An archaeological survey will be conducted on the location and access roads. This report will be filed with The Bureau of Land Management in the Carlsbad field office.

D. There are no dwellings near this location.

12. OPERATORS REPRESENTIVES:

Before construction:

TIERRA EXPLORATION, INC P.O. BOX 2188 HOBBS, NEW MEXICO 88241 OFFICE Ph. 505-391-8503 JOE T. JANICA During and after construction:

POGO PRODUCING COMPANY P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 OFFICE Ph. 915-685-8100 Mr. RICHARD WRIGHT 915-685-8140

13. <u>CERTIFICATION</u>: I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads, and that I am fimiliar 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 ² with the operations proposed herein will be performed by POGO PRODUCING COMPANY it's contractors/subcontractors is in compformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false report.

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NAME	:	teet.	Jan	leca
DATE	;/	02/23/03		
TITLE	·	Agent		

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ARRANGEMENT SRRA

900 Series 3000 PSI WP

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

POGO PRODUCING COMPANY LIVINGSTON RIDGE "19" FEDERAL # 5 UNIT "C" SECTION 19 T22S-R32E LEA CO. NM





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2.







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

EXHIBIT "E-1" CHOKE MANIFOLD & CLOSING UNIT
POGO PRODUCING COMPANY LIVINGSTON RIEGE "19" FEDERAL # 5 UNIT "C" SECTION 19 T22S-R32E 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, Azicc, 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

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

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Address: P. O. Box 10340, Midland, TX 79702					
Facility or well name: Liv, Ridge 18 Fed #5API #: 30-025-36270 U/L or Qtr/Qtr_N_Sec_18_T22_R32 County: Lea Latitude 32:23:10N Longitude 103:43:3.2WNAD: 1927X 1983 Surface Owner Federal X State Private Indian					
County:Letitude_32:23:10N_Longitude_10.	3:43:3, 2WNAD: 1927 1983 Surface Owr	ner Federal 💭 State 🔲 Private 🛄 Indian [
Dia	Below-grade tank				
Pit Type: Drilling XX Production Disposal	Volume:bbl Type of fluid:				
Workover Emergency	Construction material:				
	Double-walled, with leak detection? Yes I If not,	explain why not.			
Liner type: Synthetic 🕅 Thickness 12 mil Clay 🔲 Volume					
16000 ьы					
	Less than 50 feet	(20 points)			
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)			
water elevation of ground water.)	100 feet or more X	(0 points) 0			
Wallhast actuation cases (I are then 200 first from a minute domestic	Yes	(20 points)			
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	No	(0 points) 0			
water source, or less than 1000 reet from an other water sources.)	/ <u></u> /0	(20 points)			
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)			
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)			
	1000 feet or more $\begin{pmatrix} c_1 \\ c_2 \end{pmatrix}$	(jo points) 0			
	Ranking Score (Total Points)	0			
	Ranking Score (Total Points)				
If this is a pit closure: (1) attach a diagram of the facility showing the pit's					
onsite 🗋 offsite 🗋 If offsite, name of facility					
end date. (4) Groundwater encountered: No 🗌 Yes 🗋 If yes, show depth	below ground surfaceft. and attach sa	mple 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 i			
I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines Δb Date: <u>12/10/04</u>	a general permit [], or an (attached) alternative O	CD-approved plan [].			
Printed Name/Title Cathy Wright, Sr Eng Tech	Signature	7			
Your certification and NMOCD approval of this application/closure does no otherwise endanger public health or the environment. Nor does it relieve the regulations.	• •	• •			
Approval:					
Date:DEC 1 6 2004					
Printed Name/Title PETROLEUM ENGINEER	Signature				
PETKULEUM ENGINEEN					
		*			

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



Questions about data <u>New Mexico NWISWeb Data Inquiries</u> Feedback on this website<u>New Mexico NWISWeb Maintainer</u> Ground water for New Mexico: Water Levels http://waterdata.usgs.gov/nm/nwis/gwlevels?

Retrieved on 2004-12-09 10:15:14 EST Department of the Interior, U.S. Geological Survey USGS Water Resources of New Mexico Privacy Statement || Disclaimer || Accessibility || FOIA 2.02 1.48 nadww01 <u>Top</u> Explanation of terms



Data Category:	Geographic Area:	 andadamand
Site Information 💌	New Mexico	go

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 <u>http://waterdata.usgs.gov/nwis/rt</u>.

Site Map for New Mexico

USGS 322314103384301 22S.32E.14.32322



POGO Producing Company Livingston Ridge 18 Federal #5 Approximate Pit Dimensions

N/18/22S/32E, Lea County, New Mexico API # 30 025 36270

10 FT DIKE



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 = ± 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

in

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.

Lat1	Lon1		
32:23.14 N 💌	103:38:43 W	Ĩ	
Lat2	Lon2		
32:23:10 N 🔽	103:43:3.2 W	I	

Input Data

 Output

 Course 1-2
 Course 2-1

 Distance

 270.43656C
 90.3978474

 3.66223797

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.

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