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WELL 64	WELL OTER				MULTIP	··· 🗌	5. FARM OR LEASE HAVE WE	<u>د. ۲۵</u>
2. NAME OF OPERATOR POGO PRODUCIN	IG COMPANY	(RICHARD	WRIC	GHT 915-685	-8140))	FEDERAL # 6	
3. ADDRESS AND TELEPHIONE NO. P.O. BOX 1034	O MIDLAND, TEX	AS 79702-73	40 ((915-695-81	00)		30-025-3	36295
4. LOCATION OF WELL (E	leport location clearly and	in accordance wi	th any i	State requirement	s. •)		LIVINGSTON RID	GE-DELAWARE
	50' FSL SECTION		2E 1	LEA CO. NM	L	-	11. BBC., T., E., M., OR BLK. AND BURYET OR AREA	
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-	AND DIRECTION FROM ALA						12. COUNTI ON PARISE	
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Name and Address of the Owner o	LINE, FT. g. unit line, if any)	330'					THIS WELL 40	
15. DISTANCE FROM FROM TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED.	1320'		TOPOSED DEPTH			TARY OR CABLE TOOLS	
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<u> </u>	<u>H-40 13 3/8"</u> J-55 8 5/8"	48		<u> </u>		800 Sx 1500 S:	. circulate to	······································
7 7/8"	J-55 5 ¹ 2"	15.5 & 17		8700'		1750 S		** **
1. Drill 25" 2. Drill 17 ¹ / ₂ 600 Sx. 0	 Drill 25" hole to 40'. Set 40' of 20" conductor and cement to surface with Redi-mix. Drill 17¹/₂" hole to 800'. Run and 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, + ¹/₂# Flocele/Sx. Circulate cement to surface. 							
3. Drill 11" 1300 Sx. cement +	hole to 4400'. of 65/35/6 Clas 2% CaCl, + ½# F	Run and set s "C" POZ-(locele/Sx.,	t 440 Gel + circ	0 of 8 5/8 5% Salt, 1 culate cemen	3" 32 tail nt to	surfac	ce.	455 C
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Surface Location UL or lot No. Section Lot Idn Feet from the North/South line Feet from the East/West line Township Range County 18 22-S 32-E 1650' SOUTH 330 WEST LEA L

Well Number **Property** Code **Property Name** LIVINGSTON RIDGE "18" FEDERAL 13271 6 OGRID No. **Operator** Name Elevation 17891 POGO PRODUCING COMPANY 3610

Bottom Hole Location If Different From Surface Feet from the North/South line UL or lot No. Section Range Lot Idn Feet from the East/West line County Township Dedicated Acres Joint or Infill Consolidation Code Order No. 40

P.O. BOX 2068, SANTA FE, N.M. 87504-2088

API Number

0-025-36

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

DISTRICT II P.O. Drewer DD, Artonia, NM 68211-0719

P.O. Box 1980, Hobbs, NM 88341-1980

- Y DISTRICT I

DISTRICT IV

State of New Mexico

Pool Code

39360

Rnergy, Minerals and Natural Resources De OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies

Pool Name

LIVINGSTON RIDGE-DELAWARE

Fee Lease - 3 Copies

□ AMENDED REPORT

VICINITY MAP



LEASE LIVINGSTON RIDGE "18" FEDERAL

LOCATION VERIFICATION MAP



APPLICATION TO DRILL

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POGO PRODUCING COMPANY LIVINGSTON RIDGE "18" FEDERAL # 6 UNIT "L" SECTION 18 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: 330' FWL & 1650' FSL SECTION 18 T22S-R32E LEA CO. NM
- 2. Ground Elevation above Sea Level: 3610⁴ GR.
- 3. Geological age of surface formation: Quaternary
- 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	7501	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	Oil
Bone Spring	Oil

8. Casing Program:

Hole Size	Interval	OD of Casing	Weight	Thread	Collar	Grade
25''	0-40	20''	NA	NA	NA	Conductor
17 ¹ 2''	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

J 28 29 5.

N 200-) J_∵VED Hobbs NCD

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APPLICATION TO DRILL

POGO PRODUCING COMPANY LIVINGSTON RIDGE "18" FEDERAL # 6 UNIT "L" SECTION 18 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, + 先# 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, + $\frac{1}{2}\#$ Flocele/Sx. Circulate cement to lsurface.
5½"	Production	Set 8700' of $5\frac{1}{2}$ " casing as follows: 2700' of $5\frac{1}{2}$ " 17# J-55 LT&C, 5000' of $5\frac{1}{2}$ " 15.5# LT&C, 1000' of $5\frac{1}{2}$ " 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 + additi- ves, 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 viscosity 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, for 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 los 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.

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APPLICATION TO DRILL

POGO PRODUCING COMPANY LIVINGSTON RIDGE "18" FEDERAL # 6 UNIT "L" SECTION 18 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 H_2S 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
 - 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" & "E-1"
- 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.

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C. If the location is near to a dwelling a closed DST will be performed.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H₂S scavengers if necessary.

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POGO PRODUCING COMPANY LIVINGSTON RIDGE "18" FEDERAL # 6 UNIT "L" SECTION 18 T22S-R32E LEA CO. NM

- EXISTING ROADS & PROPOSED ROADS: Area maps; Exhibit "B" is a reproduction of a County General Hi-way Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing 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 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 Right go .3 miles cross cattle guard, turn North and follow road .3 miles to location.
 - C. Exhibit "F" shows routes of flowlines & powerlines to be constructed when well is completed.

2. PLANNED ACCESS ROADS: Approximately 1300' of new road will be constructed.

- A. The access roads will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.
- B, Gradient of all roads will be less than 5.00%.
- C. If turn-outs are necessary they will be constructed.
- D. If needed roads will be surfaced with a mimimum of 4" of caliche. This material will be obtained from a local source.
- E. Center-line for new roads will be flagged. Earth-work will be will be done as field conditions require.
- F. Culverts will be placed in the access road if they are necessary. The roads will be constructed to utilaze low water crossings for drainage as required by topography.
- 3. LOCATIONS OF EXISTING WELLS IN A ONE MILE RADIUS. 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"



POGO PRODUCING COMPANY LIVINGSTON RIDGE "18" FEDERAL # 6 UNIT "L" SECTION 18 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:

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.



POGO PRODUCING COMPANY LIVINGSTON RIDGE "18" FEDERAL # 6 UNIT "L" SECTION 18 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 000 apply to those areas which are not required for production facilities.

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POGO PRODUCING COMPANY LIVINGSTON RIDGE "18" FEDERAL # 6 UNIT "L" SECTION 18 T22S-R32E LEA 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.

NAME 04/25/02 DATE Agent TITLE



Page 7

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