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	840, Midland, TX	79702-734	0 4	32-685-81	00	10. FIELD AND POOL, OR	WILDCAT	
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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 title AR United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I PO Box 1980, Hobbs, NM 88241-1980

District II 811 South First, Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

District IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

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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

13-A

- 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 indicated 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 communicatio:
 - B. Hand signals will be used where chalkboard is inappropriate.
 - C. Two way radio will be used to communicate off location in case emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
 - A. All testing will be done in daylight hours.
 - B. Exhausts will be watered.
 - C. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - D. If location is near any dwelling a closed D.S.T. will be performed.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

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- 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 separator will be brought into service along with H2S scavengers if necessary.

14.14

SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY FEDERAL "31" WELL NO. 4

1. SURFACE FORMATION: Quaternary.

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2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	800'
Delaware Lime	4600
Cherry Canyon	5600'
Brushy Canyon	7300'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONE:

Delaware

4. PROPOSED CASING AND CEMENTING PROGRAM:

	SETTIN	<u>NG DEPTH</u>			
CASING SIZE	FROM	TO	<u>WEIGHT</u>	GRADE	JOINT
13 3/8"	0	850'	54.5#	J-55	STC
8 5/8"	0	1000'	32#	J-55	STC
"	1000'	2200'	24#	J-55	STC
H	2200'	4500'	32#	J-55	STC
5 1/2"	0	1000'	17#	J-55	LTC
n	1000'	6000'	15.5#	J-55	LTC
n	6000'	8800'	17#	N-80	LTC
MINIMUM DESIGN	FACTORS:	Collapse_1.	<u>125_Burst_1.1_</u> T	ension <u>1.7</u>	

Oil

13 3/8" casing is to be set at approximately 850' in 17-1/2" hole. Casing to be cemented with 500 sacks of Light cement tailed in with 200 sacks of Class "C". Cement to circulate.

8 5/8" casing is to be set at approximately 4500' in 11" hole. Casing is to be cemented with 1200 sacks of Light cement tailed in with 200 sacks of Class "C". Cement to circulate.

5 1/2" casing is to be set at 8800' in 7 7/8" hole. Casing s to be cemented with 600 sacks of Class "H" cement tailed in with 700 sx Class "C". Cement to tie back to 8 5/8" casing.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling the 11" hole, will be either a 3000 psi working pressure double ram type preventer or a 3000 psi working pressure annular type preventer.

6. CIRCULATING MEDIUM:

Surface to 850 feet:	Fresh water spud mud. Viscosity 30 to 36 as required for hole cleaning.
850 feet to 4500 feet	Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10.0. PH 9 to 10. Viscosity 32 to 36.
<u>4500 feet to T.D.</u> :	Water based drilling fluid conditioned as necessary for control of weight, viscosity, ph and water-loss. Weight 9 to 10. Visocity 38 - 45. ph 9-10. Filtrate while drilling pay zone 6-15.

7. AUXILIARY EQUIPMENT:

A mudlogging trailer will be used while drilling below Intermediate casing.

8. TESTING, LOGGING, AND CORING PROGRAMS:

Drill Stem tests will be made when well data indicate a test is warranted.

It is planned that electric logs will include GR-CNL- Density logs ans GR-DLL logs.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERTURES, OR HYDROGEN SULFIFE GAS:

None anticipated. Expected bottom hole pressure is approximately 3700 psi. Expected bottom hole temperture is approximately 130 degrees Fahr

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 30 days.



SURFACE USE AND OPERATIONS PLAN

FOR

POGO PRODUCING COMPANY FEDERAL "31" WELL NO. 4 1650'FNL & 660' FEL OF SECTION 31.T-21S. R-32E LEA COUNTY, NEW MEXICO

LOCATED: 30 miles east of Carlsbad, New Mexico.

FEDERAL LEASE NUMBER: NM-42814

LEASE DATE: April 1, 1981. Lease is in producing status.

ACRES IN LEASE: 320.

RECORD LESSEE: Pogo Producing Company

SURFACE OWNERSHIP: Federal.

GRAZING PERMITTEE: J.C. Mills P.O. Drawer "G" Abernathy, Texas 79311

<u>POOL:</u> Undesignated Lost Tank Delaware

<u>POOL RULES:</u> Statewide. 40 acres for oil.

EXHIBITS: A. Road Map

B. Plat showing Existing wells and Existing roads

C. Drilling Rig Layout

D. Topo Plat

1. EXISTING ROADS

A. Exhibit "A" is a portion of a road map showing the location of the proposed well as staked. The proposed well site can be reached by, either going south off US 62-180, or by going north off State 128. Point "A" on the plat is on US 62-180 at milepost 66.8, approximately 37 miles west of Hobbs, New Mexico, where Lea County Road C-29 goes south. To go to the proposed well site from this point, exit US 62-180 to the south on the paved road and go 8.9 miles to arrive at point "C". See Exhibits "B" and "D". Turn east onto the caliche road and go east 0.62 miles, north 0.52 mile, and 0.18 miles east and the location will be around 400' to the north.

Point "6" on the plat is on State 128 at milepost 17.6, approximately 36 road miles west of Jal, New Mexico, where Eddy County Road 798 goes north. To go to the proposed well site from this point, go north on Eddy 798 12.5 miles to arrive at the above named Point "C".

B. Exhibit "B" shows existing pertinent roads in the vicinity of the proposed reentry. Existing roads are color coded.

2. PLANNED ACCESS ROADS:

A. <u>Length and Width:</u> The new road will be 12 feet wide and approximately 400' long, and labeled and color coded red on Exhibit "B". The centerline of the road will be staked and flagged.

- B. Surfacing Material: Caliche, Watered, compacted andf graded.
- C. <u>Maximum Grade:</u> Less than one percent.
- D. Turnouts: Not needed.
- E. <u>Drainage Design</u>: The new road will be crowned with drainage to the side.
- F. Cutverts: None needed.
- G. Cuts and Fills: None necessary.
- H. Gates and Cattle Guards: Not needed. No fences involved.

3. LOCATION OF EXISTING WELLS:

A. Existing wells in the immediate area are shown on Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Production Facilities are already located on well # 1. The existing production facilities will be utilized for further production.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is not planned that a water well will be drilled. Water necessary for drilling operations will be purchased and trucked to the well site, or will be moved to the well site by a temporary pipeline laid on the ground alongside existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIAL:

A. Caliche needed for construction work will be taken, if present, from a pit opened on-site within the 400' X 450' work area. Otherwise, caliche will be taken from an existing pit located on State land in the SW1/4NE1/4 of Section 32, T-21S, R-32E, Lea County, New Mexico, and will be trucked to the well site over existing and proposed roads. Location of caliche pit is shown on Exhibits "B" & "D".

7. METHODS OF HANDLING WASTE MATERIAL:

A. Drill cuttings will be disposed of in the drilling pits.

B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.

C. All trash, junk, and other waste material will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill.

D. Water produced during test will be disposed of in the drilling pits.

E. Oil produced during tests will be stored in test tanks until sold.

8. ANCILLARY FACILITIES:

A. None necessary.

9. WELL SITE LAYOUT:

A. Exhibit "C" shows relative location and dimensions of the well pad, mud pits, reserve pit and the location of major drilling rig components.

B. Clearing and levelling of the well site will be required

C. The pad and pit area is staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE:

A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.

B. Any unguarded pits containing fluids will be fenced until the pits are dry.

C. After abandonment, all equipment, trash and junk will be removed and the well site will be cleaned. Any special rehabilitation and/cr special revegatation requirements of the surface management agency will be complied with and will be accomplished as rapidly as possible.

11. OTHER INFORMATION:

A. <u>Topography:</u> The land surface in the area is undulating and duny. In the immediate area of the well site, land slope is to the southwest.

B. <u>Soil:</u> Top soil at the well site is a loamy sand.

C. <u>Flora and Fauna</u>: The vegatative cover is moderate and includes mesquite, javelina bush, yucca, weeds and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.

D. Ponds and Streams: There are no rivers, ponds, lakes or streams in the area.

E. <u>Residences and Other Structures</u>: There are no occupied dwellings or other structures within a mile of the proposed well site.

F. <u>Archaeological, Historical, and Cultural Sites:</u> An archeological reconnaissance is to be accomplished and a report furnished.

G. Land Use: Grazing and wildlife habitat.

H. Surface Ownership: Federal

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12. OPERATOR'S REPRESENTATIVE:

Richard L. Wright Division Operations Manager Pogo Producing Company P.O. Box 10340

432-685-8100

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route: that I am familiar 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 with the operations proposed herein will be performed by Pogo Producing Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 19 U.S.C. 1001 for the filing of a false statement.

6/25/93

Date:

Kit 1 ۰С, James M.C. Ritchie, Jr. jent







