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DRILLING PROGRAM	
SURFACE USE AND OPERATING PLAN	A CONTRACT OF
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN	
EXHIBIT A - ROAD MAP	
EXHIBIT B - EXISTING WELL MAP	171
EXHIBIT C - LOCATION AND ACREAGE DEDICATION PLAT	
EXHIBIT C-1 TOPO MAP	JVED
EXHIBIT D - DRILLING AND RIG LAYOUT	
EXHIBIT E - 3M BOP EQUIPMENT	
	6

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.

BIGNED June 1	r.c. Ruip	Agent	DATE 12/06/96
(This space for Federal	or State office use)		
PERMIT NO		APPROVAL DATE	
Application approval does not v CONDITIONS OF APPROVAL, IF		holds legal or equitable title to those rights in the subject lea	lease which would entitle the applicant to conduct operations
		ADM. MINERALS	DATE2/20/96
			12/20176

Kevense Side

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 the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DRILLING PROGRAM

Attached to Form 3160-3

Pogo Producing Company

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Riverbend "22K Federal No. 12 2310' FSL & 1750' FWL Unit Letter K, NE/SW Section 22, T24S, R29E Eddy County, New Mexico

1. Geologic Name of Surface Formation: Permian

Estimated Tops of Important Geologic Markers and Estimated Depths of Fresh Water, Oil, and Gas:

Formation	Depth	Fluid Content
Permian	Surface	Fresh water at +250'
Rustler Anhydrite	500'	
Top of Salt	900'	
Base of Salt	2800'	
Lamar Lime	3250'	
Delaware Sands	3400'	
Brushy Canyon	5300'	Oil
Total Depth	5500'	

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 10-3/4" casing at 550' into the Rustler anhydrite and circulating cement to surface. 5-1/2" production casing will be set at TD, and cement will be brought back to the surface, thus ensuring that all zones are adequately isolated. The pore pressure gradient is normal (+8.4 ppg) down through the Delaware. No abnormal pressures are anticipated.

RIVERBEND "22K" FEDERAL No. 12 DRILLING PROGRAM PAGE 2 OF 4

4. Casing and Cementing Program

	Casing	J		
<u>Hole Size</u>	From	To	Casing OD	Weight, Grade, Coupling, Cond,
14-3/4" 7-7/8"	0 ' 0	550' TD	10-3/4" 5-1/2"	32.75# H-40 STC 15.50# J-55 LTC

All used casing will be drifted and hydrostatically tested to at least 90% of new pipe rating.

Minimum Design Factors: Collapse 1.125, Burst 1.1, Tension 1.7

10-3/4" surface casing set at 550'

The surface casing will be set into the Rustler anhydrite to protect all fresh water formations. Centralize the bottom 3 joints and every 4th joint to surface. Cement to surface with 300 sx of Class C with 4% gel, 2% CaCl2 (13.5 ppg, 1.74 ft3/sx) followed by 100 sx Class C with 2% CaCl2 (14.8 ppg, 1.32 ft3/sx).

5-1/2" production casing set at TD'

Centralize every joint from TD to bottom of the intermediate casing. Cement will circulate.

Stage 1: 1500sx Class "C" with 2% gel, 5% salt, 1/4# FC
(14.2 ppg, 1.32 ft3/sx).

5. Minimum Specifications for Pressure Control:

7-7/8" hole

The following BOP equipment will be nippled up on the 10-3/4" casing and used continuously until TD is reached for the 7-7/8" hole.

The blowout preventer equipment (BOP) shown in Exhibit E will consist of a 3000 psi WP double ram type preventer and a 3M annular (bag type) preventer with rotating head. Both BOP's will be hydraulically operated. At the drilling contractor's option, 5M BOP's may be substituted. H2S trim will not be required. RIVERBEND "22K" FEDERAL No. 12 DRILLING PROGRAM PAGE 3 OF 4

> Before drilling out from under the 10-3/4" surface casing, all BOP's and accessory equipment will be tested to 1000 psi with the rig pump. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

BLM method to calculate minimum BOP requirements: (.052)(8.4 ppg)(5500') - (0.22 psi/ft)(5500') = 1650 psi Minimum BOP requirements: 2M BOP stack and manifold system

6. Proposed Mud System:

The well will be drilled to TD with a combination of fresh water and 10# brine. The applicable depths and properties of this system are as follows:

Depth	Type	Weight (ppg)	Viscosity <u>(sec)</u>	Water Loss <u>(cc)</u>
0-550'	Fresh water	8.4	28	NC
550-5500'	Brine	10.0	29	NC

Sufficient mud materials to maintain mud properties and meet minimum lost circulation requirements will be kept at the wellsite at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- a) A kelly cock will be kept in the string at all times.
- b) A full opening drill pipe stabbing valve (TIW/inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- c) An electronic pit volume totalizer system will not be used. The drilling fluids system will be visually monitored at all times.
- d) A mudlogging unit might be monitoring drilling penetration rate and hydrocarbon shows from 3200' to TD.(Optional)

8. Logging, Testing, and Coring Program:

- a) Drillstem tests will be run on the basis of drilling shows.
- b) The electric logging program will consist of:
 1) 7-7/8" hole Gamma ray, dual induction log, compensated neutron and litho-density logs.
- c) No conventional cores are planned. Selected intervals may be sidewall cored based upon shows and openhole logs.
- d) Further testing procedures will be determined after the 5-1/2" production casing has been cemented at TD.

RIVERBEND "22K" FEDERAL No. 12 DRILLING PROGRAM PAGE 4 OF 4

9. Abnormal Conditions, Pressures, Temperatures, and Potential Hazards:

No abnormal pressures, temperatures, or other potential hazard are anticipated.

No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported, or are known to exist at this depth in this area. No major lost circulation zones have been reported in offsetting wells.

The maximum anticipated bottom hole pressure is approximately 2381 psi. (5500' x .433 psi/ft = 2381 psi.) The maximum anticipated bottom hole temperature is 115 deg F.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is December 20, 1996. Once commenced, the drilling operation should be complete in 15 days. If the well is productive, an additional 30 days will be required for completion, testing, and installation of permanent facilities.

SURFACE USE AND OPERATING PLAN

Attached to Form 3160-3 Pogo Producing Company Riverbend "22K" Federal No. 12 2310' FSL & 1750' FWL Unit Letter K, NE/SW Section 22, T24S, R29E Eddy County, New Mexico Located: 10 miles southeast of Loving, New Mexico Federal Lease Number: NM-81586 Lease Issued: N/A Acres in Lease: 1040 acres Record Lessee: Pogo Producing Company Surface Ownership: U.S.A. Grazing Permittee: Raymond McDonald P.O. Box 66 Loving, New Mexico 88256 Pool: Cedar Canyon (Delaware) The 40 acre oil well spacing rules apply to this Pool Rules: location, being 330' to the nearest side boundary or 1/4-1/4 section line, nor closer than 330' to the nearest well capable of producing from the same formation. Exhibits: A. Road Map B. Existing Wells Map C. Well Location and Acreage Dedication Plat С-1. Торо Мар D. Drilling Rig Layout Diagram

E. BOP Equipment

RIVERBEND "22K" FEDERAL No. 12 SURFACE USE AND OPERATING PLAN PAGE 2 OF 6

1. Existing Roads:

- a) The well site and elevation plat for the proposed well is shown in Exhibit C. It was staked by John West Engineering, Hobbs, N.M.
- b) All roads to the location are shown on Exhibit B. The existing roads are illustrated in black and are adequate for travel during drilling and production operations. Upgrading of the road prior to drilling will be done where necessary as determined during the onsite inspection.
- c) Directions to Location: Go east of Malaga approximately 1 mile. Turn right or south and go approximately 3/4 mile to where road veers to the southeast. Follow road approximately 2.2 miles to where road splits. Take right split east southeast approximately 2.2 miles to Pierce Canyon Crossing. Cross river and follow county road approximately 3/4 mile. Location will be on left approximately 719'.
- d) Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. Proposed Access Road:

Exhibit B shows the new access road to be constructed and is illustrated in green. The proposed access road as shown in Exhibit B has been centerline flagged by John West Engineering, Hobbs, N.M. The road will be constructed as follows:

- a) Length and Width: The access road for this location will be approximately 719' long and 15' wide.
- b) <u>Surfacing Material:</u> Caliche material will be used to surface the proposed road. It will be watered, compacted, and graded. Caliche will be obtained from either the reserve pit or a borrow pit on the proposed location as described in Item 6 of the Surface Use and Operating Plan.
- c) Drainage Design: The new road will be crowned at the center to direct drainage to ditches on both sides of the roadway with turnout ditches to be constructed as required. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. BLM may specify any additions or changes during the onsite inspections.
- d) Culverts: None required.
- e) <u>Cuts and Fills:</u> No levelling will be necessary on access road to this location.
- f) <u>Gates and Cattle Guards</u>: There will be no gates or cattleguards needed at this location.

RIVERBEND "22K" FEDERAL No.12 SURFACE USE AND OPERATING PLAN PAGE 3 OF 6

3. Location of Existing Wells:

Exhibit No. B shows all existing wells within a one-mile radius of this well.

4. Location of Existing and/or Proposed Facilities:

- a) Pogo Producing Company operates a production facility on the Riverbend lease on well No. 9.
- b) If the well is productive, contemplated facilities will be as follows:

A 3" poly line will be laid to tank battery on well No. 9. See Exhibit "C-1".

c) An electric power line will be constructed as shown on Exhibit "C-1".

5. Location and Type of Water Supply:

The well will be drilled with a combination of brine and fresh water mud system as outlined in the drilling program.

The water necessary for drilling operations will be purchased and trucked to the wellsite, or will be moved to the wellsite by way of a temporary pipeline laid on the ground alongside existing and proposed roads.

6. Source of Construction Materials:

Caliche needed for the road and well pad will be taken from the proposed reserve pit. An alternate plan will be to obtain caliche from a borrow pit located within the 400' x 400' archaeologically cleared tract at the proposed well site. If sufficient quality or quantity of caliche is not available, it will be transported to the proposed road and well site from an existing BLM approved caliche pit. The BLM will be notified and consulted if caliche must be obtained off location.

7. Method of Handling Waste Disposal:

- a) Drill cuttings will be disposed into the reserve pit.
- b) Drilling fluids will be contained in the reserve pit. The reserve pit will be an earthen pit, approximately 150' x 150' x 6' deep and fenced on three sides prior to drilling. The fourth side will be fenced immediately following rig removal. The reserve pit will be lined with plastic (5-7 mil thickness) to minimize loss of drilling fluids.
- c) Water produced from the well during completion may be disposed into the reserve pit or a steel tank (depending upon rates).

RIVERBEND "22K" FEDERAL No. 12 SURFACE USE AND OPERATING PLAN PAGE 4 OF 6

- d) Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- e) Oil produced during testing will be stored in steel test tanks until sold.
- f) Trash, waste paper, garbage, and junk will be placed in a trash bin located on the drill site pad. It will be transported to an approved landfill for disposal within 30 days after completion of drilling and/or completion of operations. All waste material will be contained to prevent scattering by the wind.
- g) A portable chemical toilet will be provided on the location for human waste during the drilling and completion operations.

8. Ancillary Facilities:

No other facilities will be built as a result of the operations on this well.

9. Well Site Layout:

- a) Exhibit D shows the relative location and dimensions of the well pad, mud pits, reserve pit, location of the major rig components, and location of parking areas.
- b) Cut and fill requirements will be minor, but clearing and leveling of the well site will be necessary. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection.
- c) The reserve pit will be lined with a high quality plastic sheeting (5-7 mil thickness).
- d) The pad and pit area are staked and flagged.

10. Plans for Reclamation of the Surface:

- a) After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. The pit area will be allowed to dry before reclamation. If the borrow pit is constructed, the cuttings in the reserve pit will be deep buried in the borrow pit, and the reserve pit and borrow pit will be broken out, filled, and leveled. The location will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.
- b) Three sides of the reserve pit will be fenced prior to and during drilling operations. The borrow pit will be fenced on all four sides after the location is built. At the time the rig is removed, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from being entrapped in the pits. The fencing will remain in place until the pits are cleaned up and leveled.

RIVERBEND "22K" FEDERAL No. 12 SURFACE USE AND OPERATING PLAN PAGE 5 OF 6

- c) After abandonment, all equipment, trash, and junk will be removed and the well site will be cleaned.
- d) Topsoil removed from the drill site will be used to recontour the pit area to the original natural level. The disturbed area will be revegetated by reseeding during the proper growing season with a seed mixture of native grasses as recommended by the BLM.

11. Other Information:

- a) <u>Topography:</u> The land surface in the area is undulating with small sand dunes. In the immediate area of the well site, the land slope is to the west.
- b) Soil: Top soil at the well site is loamy sand.
- c) <u>Flora and Fauna</u>: The vegetation cover is moderate. It includes range grasses, weeds, scrub oak bushes, and mesquite bushes. Wildlife in the area is that typical of a semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, hawks, dove, quail, and other small birds.
- d) <u>Ponds and Streams:</u> The Pecos River is 3500' south of the proposed location.
- 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, or other Cultural Sites:</u> None are known of in the area. An Archaeological survey has been conducted.
- g) Land Use: Grazing, oil and gas production, and wildlife habitat.
- h) Surface Ownership: U.S.A.

12. Operator's Representative:

Richard L. Wright Division Operations Supervisor Pogo Producing Company P.O. Box 10340 Midland, Texas 79702 (915) 682-6822 RIVERBEND "22K" FEDERAL No. 12 SURFACE USE AND OPERATING PLAN PAGE 6 OF 6

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U. S. C. 1001 for the filing of false statement.

12/4/96 Date

James M.C. Ritchie, Jr. J Agent

Enclosures

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

APPLICABILITY:

The provisions of this plan are effective when drilling operations are conducted in areas where zones may be penetrated that are known to contain, or may be reasonably expected to contain, hydrogen sulfide gas in concentrations of 100 parts per million or more.

TRAINING REQUIREMENTS:

- A. When conducting drilling operations in an area where hydrogen sulfide gas might be encountered, all personnel at the well site will have had proper training in the following areas:
 - 1. The hazards and characteristics of hydrogen sulfide gas (H2S).
 - 2. Toxicity of hydrogen sulfide and sulfur dioxide.
 - 3. Hydrogen sulfide gas detectors, warning systems, evacuation procedures, and proper use and maintenance of personal protective equipment.
 - 4. Proper rescue procedures, first aid, and artificial respiration.
- B. In addition, supervisory personnel will be trained in the following areas:
 - 1. The effects of hydrogen sulfide on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
 - Corrective action and shut-in procedures when drilling or reworking a well, and blowout prevention and well control procedures.
 - 3. The contents and requirements of the Hydrogen Sulfide Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable hydrogen sulfide zone (within 3 days or 500 feet) and weekly hydrogen sulfide and well control drills for all personnel in each crew. The initial training session will include a review of the site specific Hydrogen Sulfide Drilling Operations Plan and the Public Protection Plan. This plan will be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

WELL SITE DIAGRAM:

- A. Attached is a detailed well site diagram showing:
 - Drilling rig orientation
 - Prevailing wind direction (Southwest)
 - Location of briefing areas
 - Location of Caution/Danger Signs
 - Location of hydrogen sulfide monitors
 - Location of wind direction Indicators

HYDROGEN SULFIDE SAFETY EQUIPMENT:

- A. All safety equipment and systems will be installed, tested, and deemed operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone reasonably expected to contain hydrogen sulfide.
- B. During drilling operations, a flare line will be routed from the BOP manifold to the reserve pit. Should suspected sour gas be vented through the flair line, a flare pistol will be used to ignite the flare.
- C. Protective equipment for essential personnel will be installed and maintained as follows:
 - 1. 30-minute air packs will be maintained on the rig floor and near the briefing area.
 - 2. 30-minute work units will be maintained at the H2S trailer and/or on the rig floor.
 - 3. 30-minute escape units will be maintained on the rig floor.
 - 4. 300 cu.ft. air cylinders will be maintained in the H2S trailer.
 - 5. Associated breathing air equipment will also be installed and maintained.
 - 6. Hydrogen sulfide monitor will be located in the dog house on the rig floor with sensors placed on the rig floor, at the bell nipple, the shale shaker, and in the pit area.
 - 7. An audible/visual alarm will be located near the dog house on the rig floor.

VISUAL WARNING SYSTEMS:

- A. High visibility Caution/Danger signs will be posted on roads providing direct access to the well location.
- B. Green, yellow, and red condition flags to be displayed to denote Normal Conditions, Potential Danger, and Danger, H2S Present.
- C. Wind socks to be located at the protection center and in the pit area to continuously indicate wind direction.

CIRCULATING MEDIUM:

A. Drilling fluid to be conditioned to minimize the volume of H2S circulated to the surface.

SPECIAL WELL CONTROL EQUIPMENT:

A. In addition to the normal BOP stack and choke manifold, a drilling head will be used to help control an H2S contaminated drilling fluid.

WELL TESTING:

A. Drill stem testing of zones known, or reasonably expected, to contain hydrogen sulfide in concentrations of 100 ppm or more will use the closed chamber method of testing.

COMMUNICATION:

A. Radio communication will be available at the drilling rig and also in company vehicles.

ADDITIONAL INFORMATION:

A. Additional information concerning Emergency Reaction Steps, Ignition Procedures, Training Requirements, and Emergency Equipment Requirements will be available on location at the well site.

VICINITY MAP



SEC. 22 TWP. 24-S RGE. 29-E

- SURVEY N.M.P.M.
- COUNTY EDDY

DESCRIPTION 2310' FSL & 1750' FWL

ELEVATION _____ 2976

OPERATOR POGO_PRODUCING_COMPANY LEASE_____RIVER_BEND_22_K_FEDERAL JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

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DISTRICT I P.O. Box 1980, Robbs, NM 88241-1980

DISTRICT II P.O. Drawer DD. Artesia, NM 88211-0719

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

DISTRICT IV p.0. box 2088, santa fe, n.m. 87504-2088 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number		·····	Pool Code	AND ACKEA				·	
30-015-29317				11540 Cedar Canyon (Delawar			Pool Name			
Property			1	0.010	Property Nan			Wall Mus		
				RIVER I	BEND 22 K			Well Num 12		
OGRID No.					Operator Nan			Elevation		
017891				POGO F	PRODUCING (COMPANY		297		
		- *			Surface Loc	ation				
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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			Bottom	Hole Lo	cation If Diffe	erent From Sur	face	<u></u>	1	
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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LOCATION VERIFICATION MAP



ELEVATION _____ 2976

OPERATOR POGO PRODUCING COMPANY LEASE RIVER BEND 22 K FEDERAL

U.S.G.S. TOPOGRAPHIC MAP PIERCE CANYON, N.M. JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117





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