Form 3160-3 (July 1992)

SUBMIT IN

LICATE.

FORM APPROVED Other instructions on OMB NO. 1004-0136

Creefse elde) DIVISION Expires: February 28, 1995

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

811 S. 1ST ST. ARTESIA, NM 88210-2834

5. LEASE DESIGNATION AND SERIAL NO.

NM-13996

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Application approval does		hat the applic	ant holds legal or e	quitable titi	le to those rights	in the subject l	ease which w	ould entitle the	applicant to	o conduct op	perations thereon
CONDITIONS OF APPROVA	AL, IF ANY:										
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			*See Instru	ctions (On Revers	e Side					

DRILLING PROGRAM

Attached to Form 3160-3

Pogo Producing Company

Jackal "22" Federal No. 1 990' FSL & 230' FWL Unit Letter M, SW/SW Section 22, T24S, R29E Eddy County, New Mexico

- 1. Geologic Name of Surface Formation: Permian
- 2. Estimated Tops of Important Geologic Markers and
- 3. 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.

JACKAL "22" FEDERAL No. 1 DRILLING PROGRAM PAGE 2 OF 4

4. Casing and Cementing Program

	Casing	•		
Hole Size	From	<u>To</u>	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.

<u>Stage 1:</u> 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.

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	<u>Type</u>	Weight (ppg)	Viscosity <u>(sec)</u>	Water Loss (cc)
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.

JACKAL "22" FEDERAL No. 1 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

Jackal "22" Federal No. 1 990' FSL & 230' FWL Unit Letter M, SW/SW Section 22, T24S, R29E Eddy County, New Mexico

Located:

10 miles southeast of Loving, New Mexico

Federal Lease Number:

NM-13996

Lease Issued:

N/A

Acres in Lease:

80 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)

Pool Rules:

The 40 acre oil well spacing rules apply to this 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

C-1. Topo Map

D. Drilling Rig Layout Diagram

E. BOP Equipment

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 1/2 mile. Location will be on left approximately 150'.
- 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: There will not be an access road for this location.
- b) Surfacing Material: 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) Gates and Cattle Guards: There will be no gates or cattleguards needed at this location.

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 does not operate a production facility on the Jackal "22" Federal lease.
- b) If the well is productive, contemplated facilities will be as follows:
 A battery will be installed on well pad of well # 1.
- c) An electric power line will be constructed as shown on Exhibit B.

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).

JACKAL "22" FEDERAL No. 1 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 $(5-7 \, \text{mil thickness})$.
- 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.

JACKAL "22" FEDERAL No. 1 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) Topography: 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 southwest.
- b) Soil: Top soil at the well site is loamy sand.
- c) Flora and Fauna: 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) Ponds and Streams: The Pecos River is 3500' south of the proposed location.
- e) Residences and Other Structures: There are no occupied dwellings or other structures within a mile of the proposed well site.
- f) Archaeological, Historical, or other Cultural Sites: 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 JACKAL "22" FEDERAL No. 1 SURFACE USE AND OPERATING PLAN PAGE 6 OF 6

13. Certification:

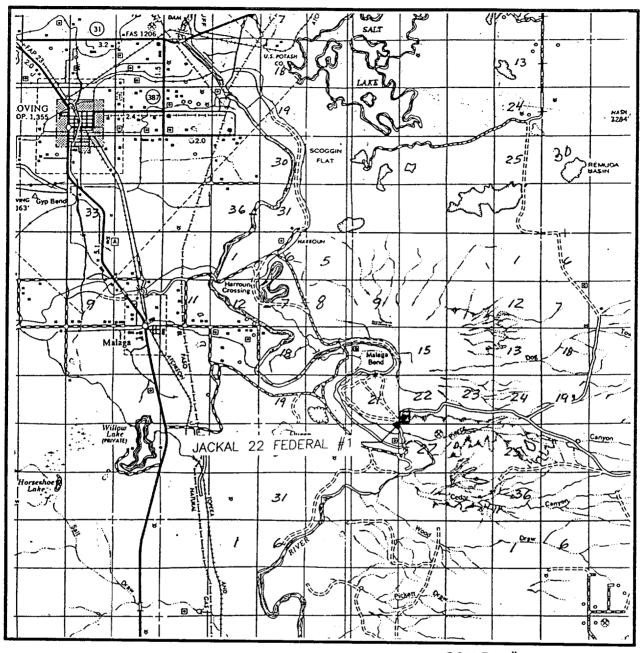
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Pogo Producing Company and its contractors and 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 18 U. S. C. 1001 for the filing of false statement.

11/24/96

James M.C. Ritchie, Jr. J Agent

Enclosures

VICINITY MAF



SCALE: 1" = 2 MILES

SEC. <u>22</u> TWP. <u>24-S</u> RGE. <u>29-E</u>
SURVEY N.M.P.M.
COUNTYEDDY
DESCRIPTION 990' FSL & 230' FWL
ELEVATION 2939
OPERATOR POGO PRODUCING COMPAN
LEASE JACKAL 22 FEDERAL

<u>Exhibit "A"</u>

JOHN WEST ENGINEER

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

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

State of New Mexico

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

Energy, Minerals and Natural Resources Department

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

DISTRICT III

OIL CONSERVATION DIVISION

P.O. Box 2088

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

1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name			
30-015-2932	-015-29323 11540 Cedar Canyon (Delaware)				
Property Code	Pro	erty Name We	Well Number		
	JACKAL 2	2 FEDERAL	1		
OGRID No.	-		Elevation		
017891	POGO PRODU	CING COMPANY	2939		
	Surfa	ce Location			
UL or lot No. Section Townsh	ip Range Lot Idn Feet fo	om the North/South line Feet from the East/West	line County		

or or lot No.	Section	10MBau1b	Kange	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County	l
М	22	24 S	29 E		990	SOUTH	230	WEST	EDDY	
			D 44							j

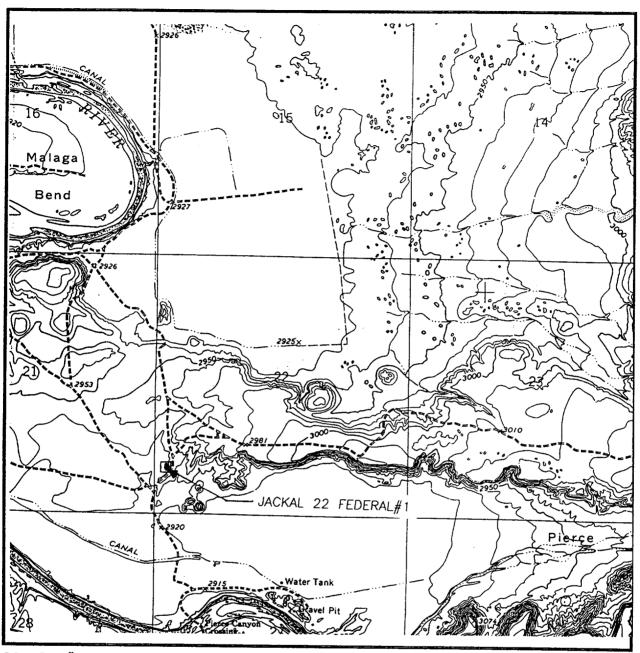
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Ore	ier No.				

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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.	
	James M.C. Ritchie, Jr. Exhibit "C" Exhibit "C" Title 11/24/96	
	Date SURVEYOR CERTIFICATION	
2936.6' 2945.3'	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 supervison, and that the same is true and correct to the best of my belief.	
SEE DETAIL	NOV. 19, 1996 Date Surveyed DMCC Signature Seaf of Professional Surveyor	
230' 	Centificat No. John Workst 676 RONALS EIDSON 3239 POFES STONE DOSON 12641	
L V	OFESSABY FOSON 12641	

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

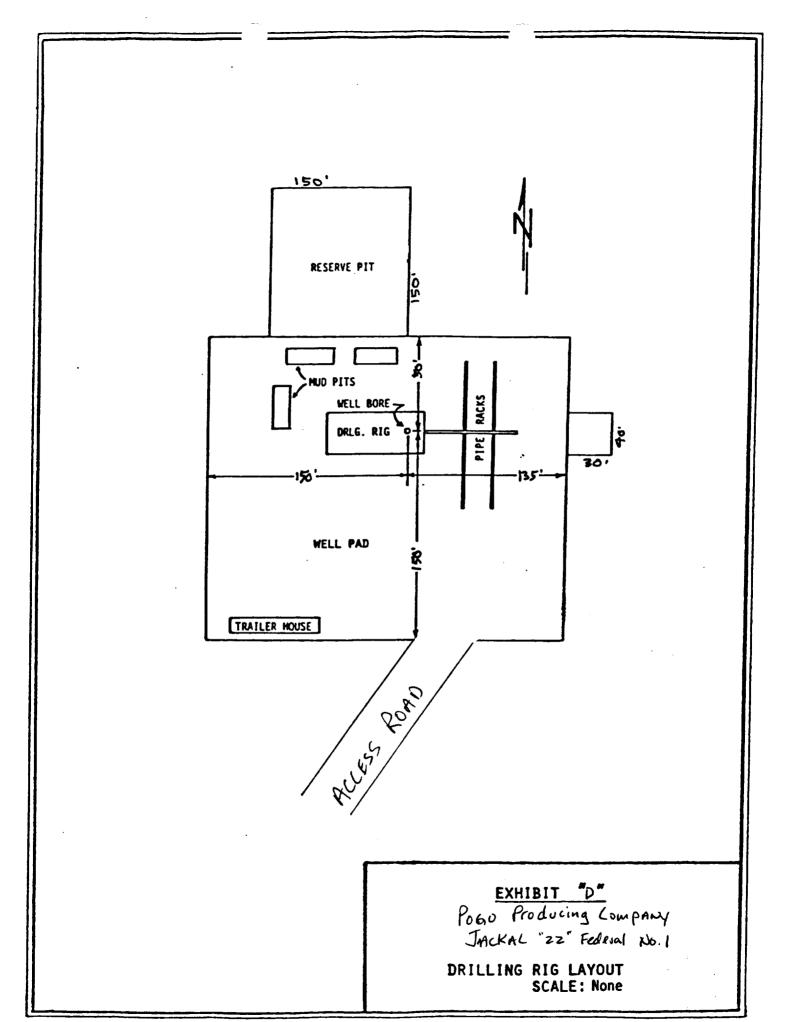
CONTOUR INTERVAL: PIERCE CANYON - 10'

SEC. 22 TWP. 24-5 RGE. 29-E	
SURVEYN.M.P.M.	
COUNTYEDDY	
DESCRIPTION 990' FSL & 230' FI	WL
ELEVATION2939	
OPERATOR POGO PRODUCING COMP	'AN'
LEASE JACKAL 22 FEDERAL	
U.S.G.S. TOPOGRAPHIC MAP	

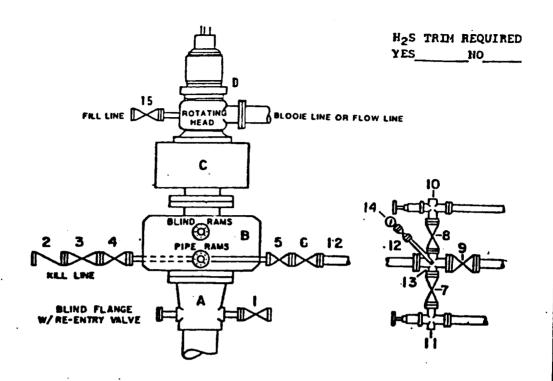
JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

Exhibit 'C-1"





DRILLING CONTROL CONDITION III-B 3000 PSI WP



DRILLING CONTROL

MATERIAL LIST - CONDITION III - B

Wellhead 3000f W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000f W.P. control lines (where substructure height is adequate, 2 - 3000f W.P. single ram preventers may be utilized with 30008 W.P. drilling spool with 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line. The drilling spool is to be installed below the single ram type C 3000# W.P. Annular Preventer with 1" steel, 3000# W.P. control lines. Ð Rotating Head with fill up outlet and extended Bloois line. 2" minimum 3000f W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. 2" minimum 3000# W.P. back pressure valve. $\ensuremath{\mathfrak{I}}^m$ minimum 3000% W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. 5,6,9 12 3" minimum Schedule 80, Grade B, seamless line pipe. 2" minimum x 3" minimum 3000# W.P. flanged cross. 2" minimum 3000f W.P. adjustable choke bodies. Cameron Mud Gauge or equivalent (location optional in 14 Choke line). 2" minimum 3000\$ W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

SCALE:	DATE EST. N	0 DAG NO.	
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APPROVED BY			<u> </u>

DEC 6 10 02 AN '96

BUR. TO FIRST MOMT ROLF 1 THOU

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Operators Name

Pogo Producing Company

Street or Box City, State

P.O. Box 10340 Midland, Texas

Zip Code

79702

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.

NM- 13996

Legal Description of Land:

SW/SW of Section 22, T-24S, R-29E

Formation(s) (if applicable):

Delaware

Bond Coverage: (State if individual bonded or another's bond) Individual

BLM Bond file No. 0405

Authorized Signature: Lukar

Title: Division Operations Supr.

Date: 12/05/96