

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. TYPE OF WORK

DRILL ☒DEEPEN ☐

B. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

POGO PRODUCING COMPANY

(RICHARD WRIGHT 915-685-8140)

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 (915-695-8100)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

330' FNL & 2210' FWL SEC. 33 T22S-R32E LEA CO. NM

At proposed prod. zone SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 25 miles East of Carlsbad New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

330'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

4600'

16. NO. OF ACRES IN LEASE

1280

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

19. PROPOSED DEPTH

8900'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3580' GR.

Controlled Controlled Water Basin

22. APPROX. DATE WORK WILL START*

WHEN APPROVED

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
25"	Conductor	NA	40'	Cement to surface with Redi-mix.
17½"	J-55 13 3/8"	54.5	1000'	1000 Sx. circulate to surface
11"	J-55, S-80 8 5/8"	32	4700'	1800 Sx. " " "
7 7/8"	J-55 5½"	17 & 15.5	8900'	1200 Sx. estimate top of cement 3000'

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 1000'. Run and set 1000' of 13 3/8" 54.5# S-80 & J-55 ST&C casing. Cement with 1000 Sx. of Class "C" cement + 2% CaCl, + ¼# Flocele/Sx. circulate cement to surface.
3. Drill 11" hole to 4700'. Run and set 4700' of 8 5/8" casing as follows: 3000' of 8 5/8" 32# S-80 ST&C, 4200' of 8 5/8" 32# J-55 ST&C. Cement with 1800 Sx. of Class "C" cement + 2% CaCl, ¼# Flocele/Sx. , circulate cement to surface.
4. Drill 7 7/8" hole to 8900'. Run and set 8900' of 5½" casing as follows: 2900' of 5½" 17# J-55 LT&C, 5000' of 5½" 15.5# J-55 LT&C, 1000' of 5½" 17# J-55 LT&C casing. Cement in two stages, DV tool at 6200'±. Cement 1st stage with 600 Sx. of Class "H" Premium Plus cement + additives, 2nd stage cement with 600 Sx. of Class "H" cement + additives, estimate top of cement 3000' from surface.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

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 depth. If proposal is to deepen, give pertinent data on subsurface locations and measured and true vertical depth. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depth. If proposal is to deepen, give pertinent data on subsurface locations and measured and true vertical depth.

SIGNED Leslie A. Theiss TITLE AgentDATE 10/29/02

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease with

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY /s/ LESLIE A. THEISSTITLE FIELD MANAGER

DATE

APR 24 2003

*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

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, or to furnish any false, fictitious or fraudulent information.

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

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0718

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

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

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-36266	Pool Code 51683	Pool Name Wildcat; RED TANK-BONE SPRING
Property Code 17271	Property Name RED TANK "33" FEDERAL	Well Number 6
GRID No. 17891	Operator Name POGO PRODUCING COMPANY	Elevation 3580'

Surface Location

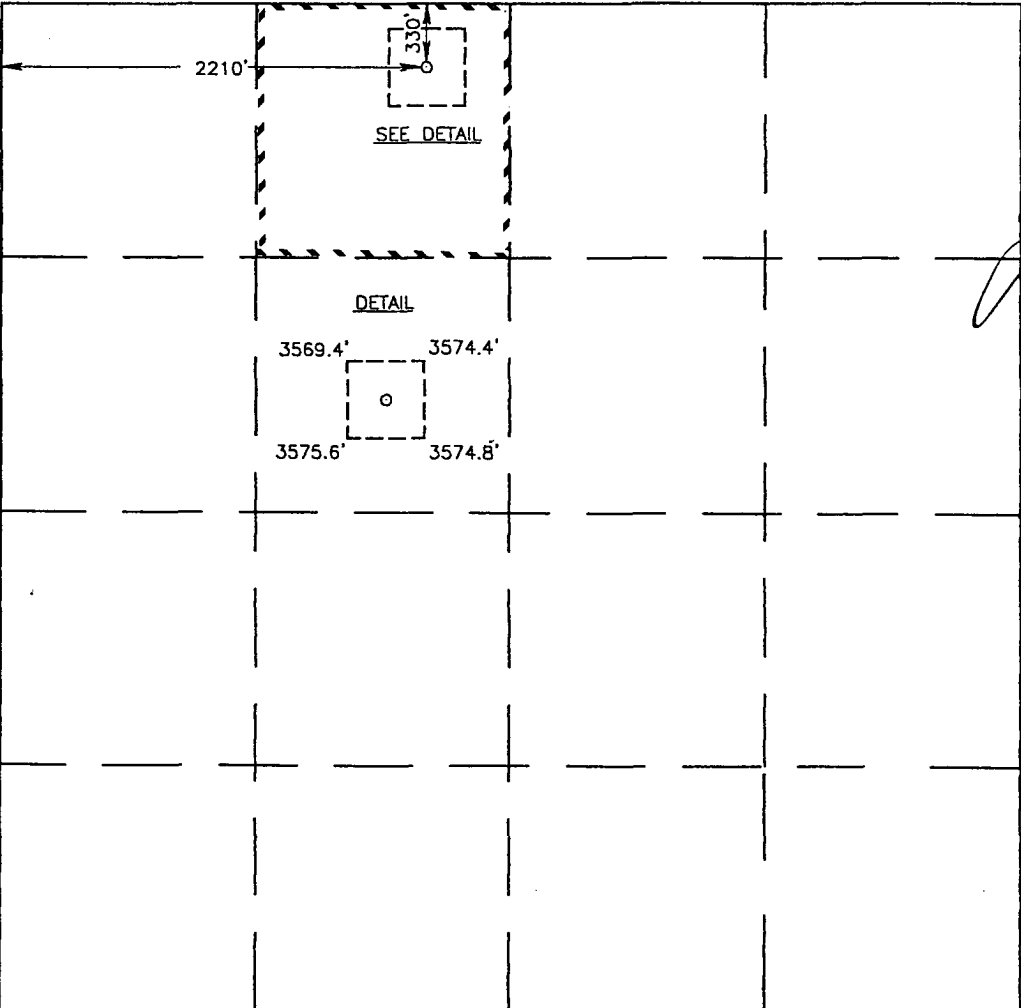
UL or lot No. C	Section 33	Township 22-S	Range 32-E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 2210	East/West line WEST	County LEA
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Bottom Hole Location If Different From Surface

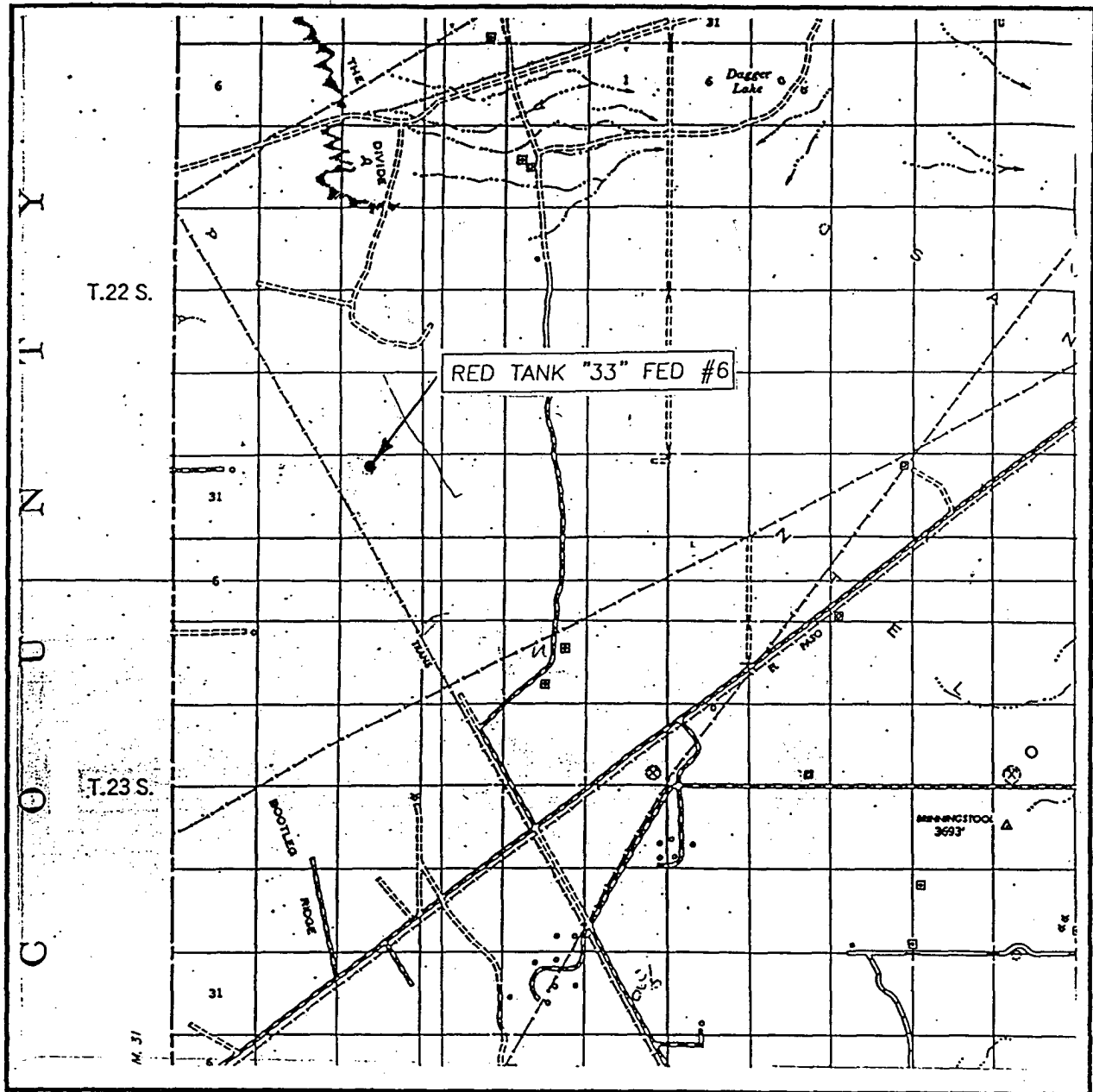
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Joe T. Janica</i> Signature Joe T. Janica Printed Name Agent Title 10/29/02 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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 supervision and that the same is true and correct to the best of my belief.</p> <p>OCTOBER 14, 2002</p> <p>Date Surveyed Signature Professional Surveyor RONALD D. EIDSON NEW MEXICO 10/15/02 12.11.0770 Certificate No. RONALD D. EIDSON 3239 GARY EIDSON 12641</p>
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VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 33 TWP. 22-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 330' FNL & 2210' FWL

ELEVATION 3580'

OPERATOR POGO PRODUCING COMPANY

LEASE RED TANK "33" FEDERAL

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

APPLICATION TO DRILL

POGO PRODUCING COMPANY
 RED TANK "33" FEDERAL # 6
 UNIT "C" SECTION 33
 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 consideration.

1. Location: 330' FNL & 2210' FWL SEC. 33 T22S-R32E LEA CO. NM

2. Elevation above Sea Level: 3580' GR.

3. Geologic name of surface formation: Quaternary Aeolian Deposits.

4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.

5. Proposed drilling depth: 8900'

6. Estimated tops of geological markers:

Basal Anhydrite	4210'	Cherry Canyon	5539'
Delaware Lime	4670'	Brushy Canyon	6793'
Bell Canyon	4732	Bone Spring	8618'

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
17½"	0-1000'	13 3/8"	54.5	8-R	ST&C	J-55
8 5/8"	0-4700'	8 5/8"	32	8-R	ST&C	S-80 J-55
5½"	0-8900'	5½"	17 & 15.5	8-R	LT&C	J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY
 RED TANK "33" FEDERAL # 6
 UNIT "C" SECTION 33
 T22S-R32E LEA CO. NM

9. CASING CEMENTING & SETTING DEPTHS:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set 1000' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 1000 Sx. of Class "C" cement + 2% CaCl, + 1/4# Flocele/Sx. circulate cement to surface.
8 5/8"	Intermediate	Set 4700' of 8 5/8" 32# S-80 & J-55 ST&C casing. Cement with 1800 Sx. of Class "C" cement + 2% CaCl, + 1/4# Flocele/Sx. circulate cement to surface.
5 1/2"	Production	Set 8900' of 5 1/2" casing as follows: 2900' of 5 1/2" 17# J-55 LT&C, 5000' of 5 1/2" 15.5# J-55 LT&C, 1000' of 5 1/2" 17# J-55 LT&C. Cement in 2 stages DV tool set at 6200'±. Cement 1st stage with 600 Sx. of Class "H" Premium Plus cement + additives, cement 2nd stage with 600 Sx. of Class "H" cement + additives, estimate top of cement 3000' from 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 nipped 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
40-1000'	8.5-8.7	29-34	NC	Fresh water spud mud add paper to control seepage.
1000-4700'	10.0-10.3	29-38	NC	Brine water use paper to control seepage and high viscosith sweeps to clean hole.
4700-8900'	8.4-8.6	29-38	NC	Fresh water use fresh water Gel for viscosity control & high viscosity sweeps to clean hole. If water loss control is needed switch to a Polymer mud system.

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
RED TANK "33" FEDERAL # 6
UNIT "C" SECTION 33
T22S-R32E LEA CO. NM

12. LOGGING, CORING, & TESTING PROGRAM:

- A. Open hole logs: Run Dual Induction, SNP, LDT, CNL, Gamma Ray, Caliper from TD back to 4700'.
- B. Cased hole logs: Run Gamma Ray, Neutron log from 4700' to surface. Run a collar locator log across pay interval after the production casing is run.
- C. Mud logger will be on hole from 4700' to TD. No DST's or cores are planned.

13. POTENTIAL HAZARDS:

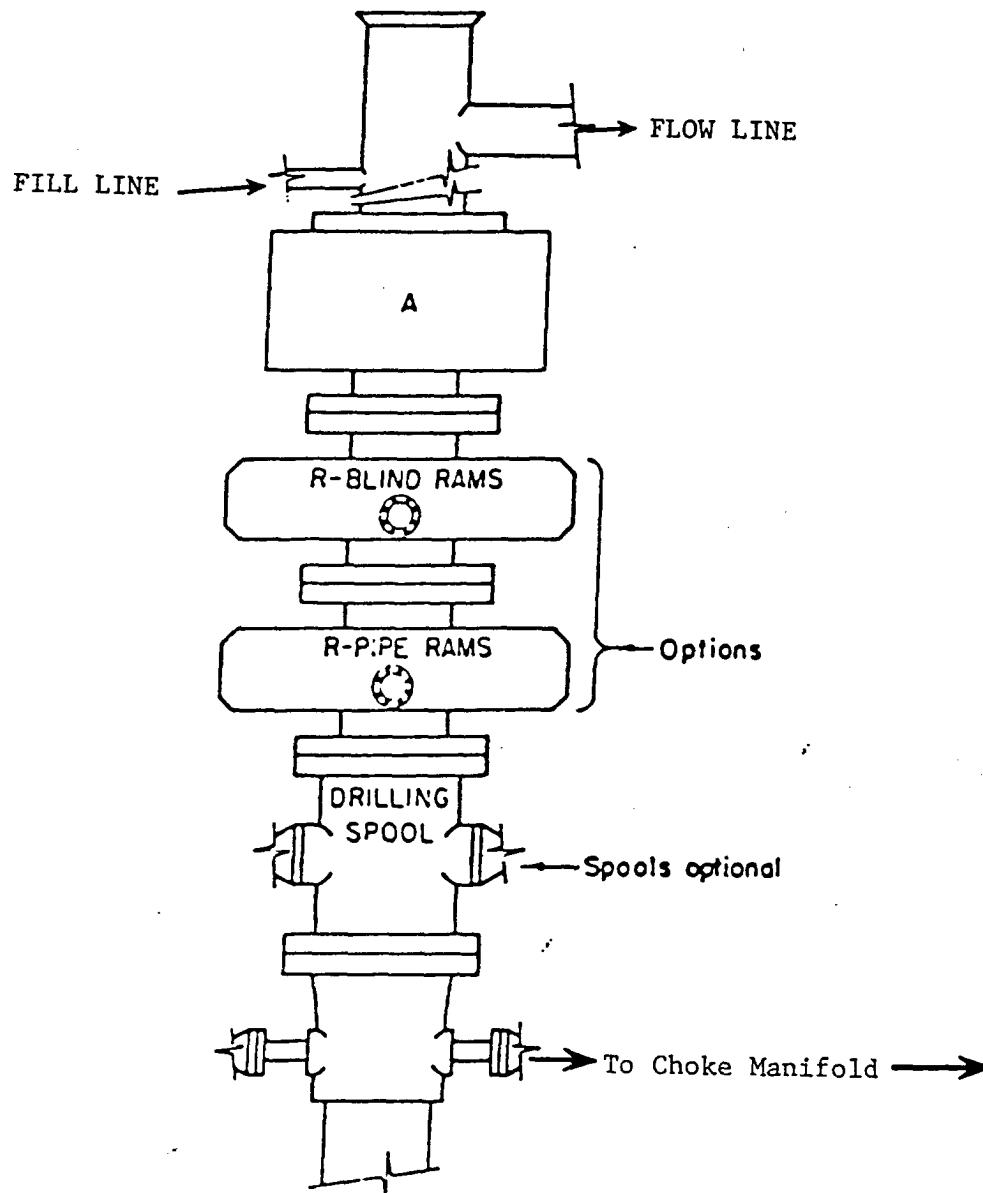
No abnormal pressures or temperatures are expected. There is no known presence of H²S in this area. If H²S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4250 PSI, and Estimated BHT 170°.

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 30 days. If production casing is run then an additional 30 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 Bone Spring formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialized as an oil well.



ARRANGEMENT SRRA

900 Series
3000 PSI WP

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

POGO PRODUCING COMPANY
RED TANK "33" FEDERAL # 6
UNIT "C" SECTION 33
T22S-R32E EDDY CO. NM