

SUBMIT IN TRIPLICATE
UNITED STATES M. OIL & GAS DIVISION
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Hobbs, NM 88240FORM 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

660' FNL & 2310' FEL SECTION 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)

660'

16. NO. OF ACRES IN LEASE

1160

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

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

660'

19. PROPOSED DEPTH

8900'

20. ROTARY OR CABLE TOOLS

ROTARY

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

3579' GR. Carlsbad 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"	H-40 13 3/8"	48	1000'	1050 Sx. circulate to surface.
11"	J-55 8 5/8"	32	4500'	1200 Sx. " " "
7 7/8"	J-55 5½"	17 & 15.5	8900'	1350 Sx. 2 stage TOC 3000+'

1. Drill 25" hole to 40'. Set 40' of 20" conductor and cement to surface with Redi-mix.

2. Drill 17½" hole to 1000'. Run and set 1000' of 13 3/8" 48# H-40 ST&C casing. Cement with 800 Sx. of Class "C" 35/65/6 POX-GEL, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + ¼# Flocele/Sx. circulate cement to surface.

3. Drill 11" hole to 4500'. Run and set 4500' of 32# J-55 ST&C casing. Cement with 1000 Sx of Class "C" 65/35/6 POZ-GEL, tail in with 200 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. Cement in 2 stages with DV Tool at 6000±'. Cement 1st stage with 750 Sx. of Class "H" cement + additives, cement 2nd stage with 600 Sx. of Class "C" cement + 8# of Gilsonite/Sx. Estimate top of cement 3000' from surface.

N 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.

SIGNED

Agent

OPER. GRID NO. 17891

PROPERTY NO. 17271

POOL CODE 51683

EFF. DATE 5-1-03

API NO. 30-025-36269

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

APPROVED BY

/S/ JOE G. LARA

TITLE

FIELD MANAGER

DATE

APR 29 2003

*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

DISTRICT I
1826 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-36269	Pool Code 51683	Pool Name RED TANK-BONE SPRING
Property Code 17271	Property Name RED TANK "33" FEDERAL	Well Number 7
OGRID No. 17891	Operator Name POGO PRODUCING COMPANY	Elevation 3579'

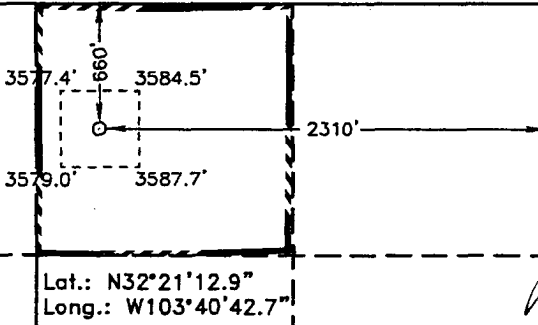
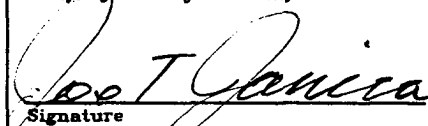

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	33	22 S	32 E		660	NORTH	2310	EAST	LEA

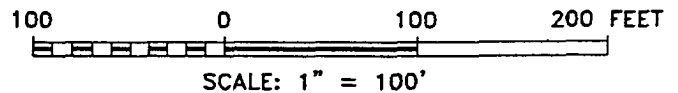
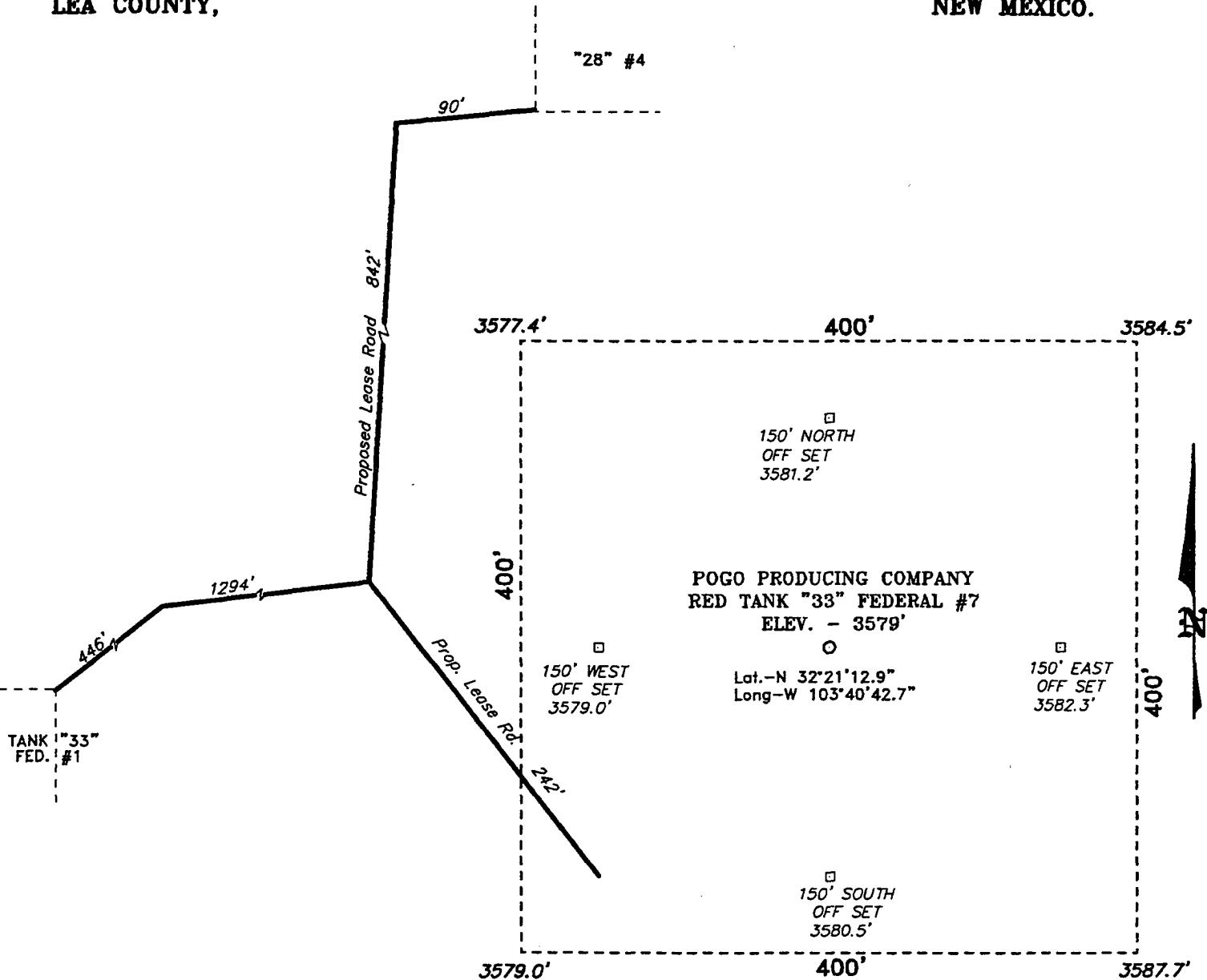
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order 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.  Signature Joe T. Janica Printed Name Agent Title 03/21/03 Date
	SURVEYOR CERTIFICATION 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. MARCH 4, 2003 Date Surveyed  Signature & Seal of Professional Surveyor W.O. No. 3066 Certificate No. Gary L. Jones 7977 BASIN SURVEYS
EXHIBIT "A"	

SECTION 33, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



POGO PRODUCING CO.

REF: RED TANK "33" FED. #7 / Well Pad Topo

THE RED TANK "33" FED. No. 7 LOCATED 660' FROM
THE NORTH LINE AND 2310' FROM THE EAST LINE OF
SECTION 33, TOWNSHIP 22 SOUTH, RANGE 32 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 3066 Drawn By: K. GOAD

Date: 03-07-2003 Disk: KJG CD#4 - 3066A.DWG

Survey Date: 03-04-2003 Sheet 1 of 1 Sheets

APPLICATION TO DRILL

POGO PRODUCING COMPANY
RED TANK "33" FEDERAL # 7
UNIT "B" 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 of well: 660' FNL & 2310' FEL SECTION 33 T22S-R32E LEA CO. NM

2. Ground Elevation above Sea Level: 3579' 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: 8900'

6. Estimated tops of geological markers:

Rustler Anhydrite	900'	Cherry Canyon	5539'
Basal Anhydrite	4310'	Brushy Canyon	6793'
Delaware Lime	4670'	Bone Spring	
Bell Canyon	4730'		

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"	48	8-R	ST&C	H-40
11"	0-4500'	8 5/8"	32	8-R	ST&C	J-55
7 7/8"	0-8900'	5½"	17 & 15.5	8-R	LT&C	J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY
RED TANK "33" FEDERAL # 7
UNIT "B" SECTION 33
T22S-R32E LEA CO. NM

9. CASING SETTING DEPTHS & CEMENTING:

20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Set 1000' of 13 3/8" 48# H-40 ST&C casing. Cement with 850 Sx. of Class "C" 65/35/6 POZ-GEL, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + 1/4# Flocele/Sx. circulate cement.
8 5/8"	Intermediate	Set 4500' of 8 5/8" 32# J-55 ST&C casing. Cement with 1000 Sx. of Class "C" 65/35/6 POZ-GEL, tail in with 200 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 with DV Tool at 6000±'. Cement 1st stage with 750 Sx. of Class "H" cement + additives, cement 2nd stage with 600 Sx. of Class "C" cement + 8# Gilsonite/Sx. 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 the 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 3" 3000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected in this well.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE SYSTEM
40-950'	8.4-8.7	29-34	NC	Fresh water Spud Mud add paper to control seepage
1000-4500'	10.0-10.2	29-38	NC	Brine water add paper to control seepage use high viscosity sweeps to clean hole.
4500'-8900'	8.4-8.7	29-38	NC *	Fresh water use Gel to control viscosity use high viscosity sweeps to clean hole.

* Water loss control may be required while drilling through the pay intervals and likewise in order to run logs, DST's and casing. Use a Polymer for this.

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, & casing the viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

POGO PRODUCING COMPANY
RED TANK "33" FEDERAL # 7
UNIT "B" SECTION 33
T22S-R32E LEA CO. NM

12. LOGGING, CORING, TESTING PROGRAM:

- A. Run Fluid Caliper logs before running casing strings to calculate cement volumes required.
- B. Open hole logs: Dual Induction, SNP, LDT, Gamma ray, Caliper from TD back to the 8 5/8" casing shoe.
- C. Run Gamma Ray, and Neutron logs from 8 5/8" casing shoe back to surface.
- D. Mud logger may be put on hole at any time the Geologist wants.
- E. No cores or DST's are planned at this time.

13. POTENTIAL HAZARDS:

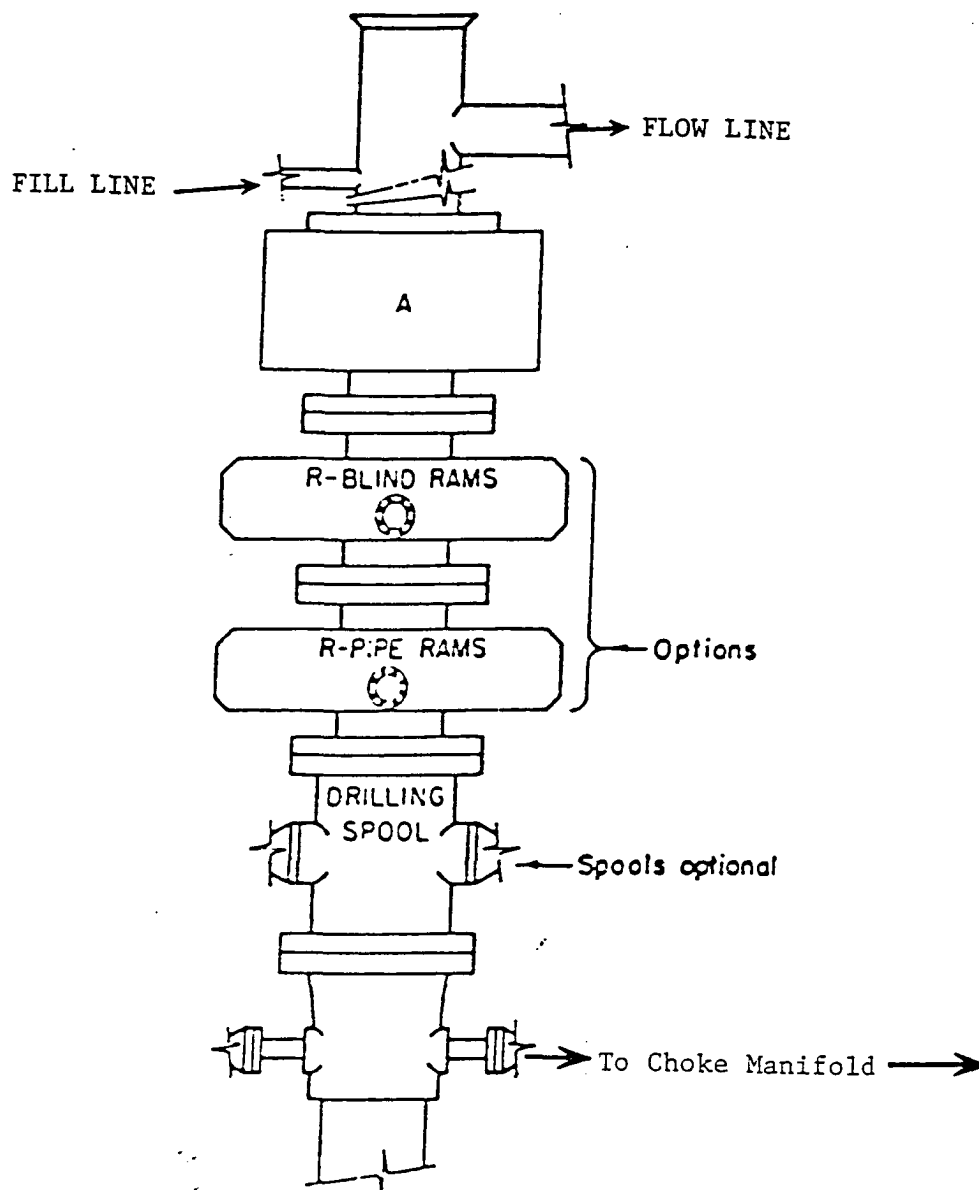
No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H₂S detectors will be in place to detect any presence of unsafe levels of H₂S. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operations of all equipment that will be used. Estimated BHP 4500 PSI & estimated BHT 165°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Roads and location construction will begin after the BLM approves the APD. Anticipated spud date will be as soon as pad & road construction has been completed. Drilling time for the well is estimated to take 30 days. If production casing is run an additional 30 days will be required to complete well and construct surface facilities.

15. OTHER FACETS OF OPERATION:

After running production casing, cased hole Gamma-Neutron & Collar logs will be run over all possible pay intervals. If commercial production from the Bone Spring pay is indicated it will be perforated and stimulated. Then if necessary the pay will be swab tested and completed 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 # 7
UNIT "B" SECTION 33
T22S-R32E LEA CO. NM

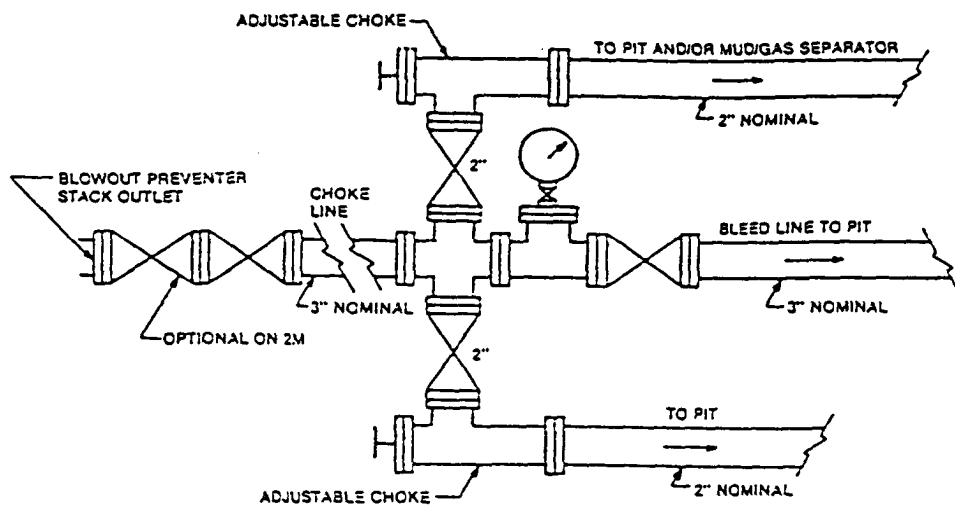


FIGURE K4-1. Typical choke manifold assembly for 2M and 3M rated working pressure service — surface installation.

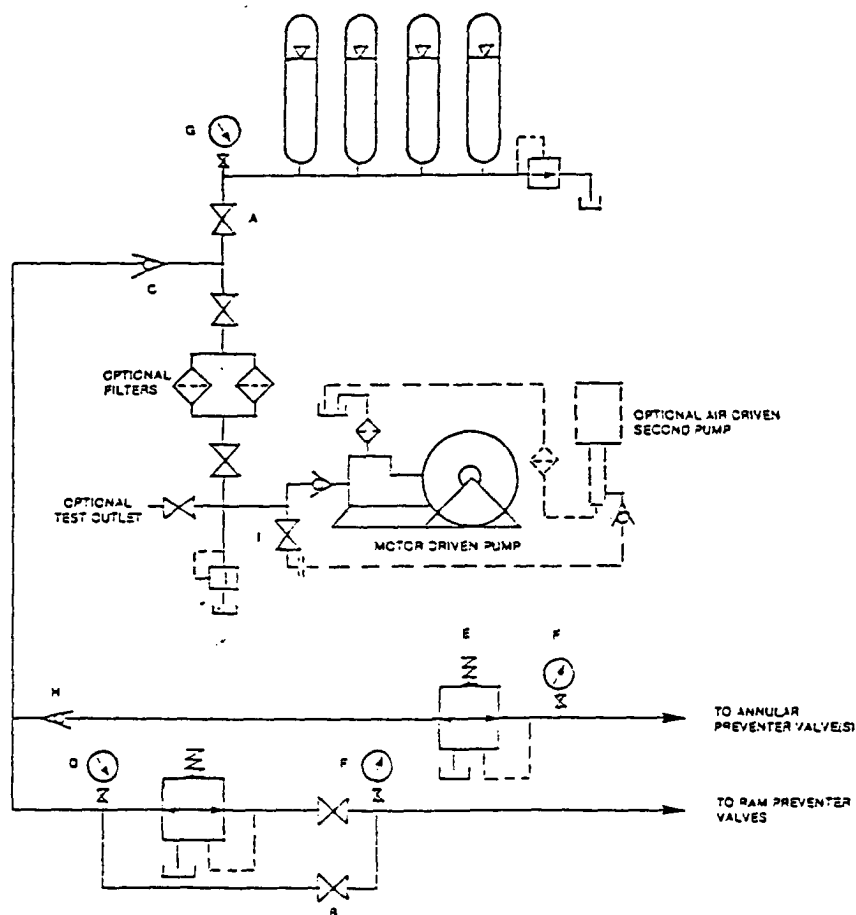


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

POGO PRODUCING COMPANY
RED TANK "33" FEDERAL # 7
UNIT "B" SECTION 33
T22S-R32E LEA CO. NM