RESUBMITTAL

Form 3160 -3 (April 2004) 0175

# N.M. Oil Cons. DIV-Dist. 2

1501 W. Grand Avenue

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

UNITED STATEARTESIA, NM 88210 5. Lease Serial No. NM-29233

Expires March 31, 200

	IENT OF THE T OF LAND MAN		90		NM-29233		
APPLICATION FOR	DEDINT TO		}	CH	6. If Indian, Allotee	or Tribe	Name
la. Type of work: X DRILL	□ SEPTE	RETARY'S P	<del>O.∦</del> +	440,4	7 If Unit or CA Agr		ame and No.
1b. Type of Well: X Oil Well Gas W		X Single Zone	Multipl	ļ	8. Lease Name and Federal 12		
2. Name of Operator Pogo Producing Company					9. API Well No.	338	87
3a. Address		3b. Phone No. (include area of	ode)		10. Field and Pool, or		
P.O. Box 10340, Midland	432-685-8100			Livingstor	Ride	<u>ae Delawa</u>	
4. Location of Well (Report location clearly and	y State requirements.*)			11. Sec., T. R. M. or I	31k. and Su	rvey or Area	
At surface 330 'FSL & 990 At proposed prod. zone Same	)' FEL				Sec 12, T2	28, 1	R31E
14. Distance in miles and direction from nearest to	own or nost office*				12 County or Parish		13. State
Approximately 20 miles		rlsbad New Me	xico		Eddy Count	у	NM
15 Distance from proposed*	2000 01 00	16. No. of acres in lease			g Unit dedicated to this	well	4
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	330'	480		4	0	F	RECEIVE
18. Distance from proposed location* to nearest well, drilling, completed,		19. Proposed Depth		20. BLM/I	BIA Bond No. on file		JAN 1 0 200
to nearest well, drilling, completed, applied for, on this lease, ft.	2150'	8600'			771		BARTE
21. Elevations (Show whether DF, KDB, RT, C 3613 GR	iL, etc.)	22. Approximate date work When Approve		t*	23. Estimated durati	on.	
		24. Attachments		CARLS	BAD CONTRO	LLED	WATER BAS
The following, completed in accordance with the r	equirements of Onshor	re Oil and Gas Order No.1. sh					
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on Na SUPO shall be filed with the appropriate Fore</li> </ol>	ntional Forest System	4. Bond to Item 20 a Lands, the 5. Operator	cover the above). certificates site:	ne operation ation specific info	ns unless covered by a	·	•
25. Signature Office (Mi)	ht	Name (Printed/Typed Cathy Wr				Date 11/	/03/04
Title Sr Eng Tec	ch						
Approved by (Signature) /S/ Linda S. C		Name (Printed/Typed	inda	a S. C	. Rundell	Date	DEC 200%
Title STATE DIR		Office			STATE OFF		
Application approval does not warrant or certify	that the applicant hold	ls legal or equitable title to the	ose right	ts in the sub	ject lease which would	entitle the	applicant to
conduct operations thereon.  Conditions of approval if any are attached							

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

\*(Instructions on page 2)

Aness Surface &

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

# FEDERAL 12 #11 Drilling Plan

- 1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cmt to surface w/ Redimix.
- 2. Drill 17-1/2" hole to 800'. Run & set 800' of 13-3/8" 48# H-40 ST&C csg. Cmt w/ 600 sks Cl "C" cmt + add followed by 200 sks Cl "C" + 2% CaCl2 + add. Circ cmt to surface.
- 3. Drill 11" hole to 4300'. Run & set 4300' 8-5/8" 32# J-55 ST&C casing. Cmt w/ 1300 sks 65:35:6 Cl "C" cmt + add followed by 200 sks Cl "C" cmt + add. Circ cmt to surface.
- 4. Drill 7-7/8" hole to 8,600'. Run & set 8,600' of 5-1/2" csg as follows: 2600' 17# J-55 LT&C, 5000' 15.5# J-55 LT&C, 1000' 17# J-55 LT&C. Cmt in 3 stages w/ DV tools at 5800' & 3700' ±. Cmt 1<sup>st</sup> stage w/ 650 sks Cl "H" cmt, 2<sup>nd</sup> stage w/ 600 sks Cl "C" cmt + add, 3<sup>rd</sup> stage w/ 400 sks 65:35:6 Cl "C" followed by 100 sks Cl "C" + 1% CaCl2. Circ cmt to surface.

DISTRICT I 1525 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

# 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

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

#### DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

# OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Code Pool Name		
	39360	39360 LIVINGSTON RIDGE DELAWARE		
Property Code	Prop	Property Name		
9321	FEDER	FEDERAL "12"		
OGRID No.	Oper	Operator Name		
17891	POGO PRODU	POGO PRODUCING COMPANY		

#### Surface Location

i	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
į	P	12	22 S	31 E		330	SOUTH	990	EAST	EDDY

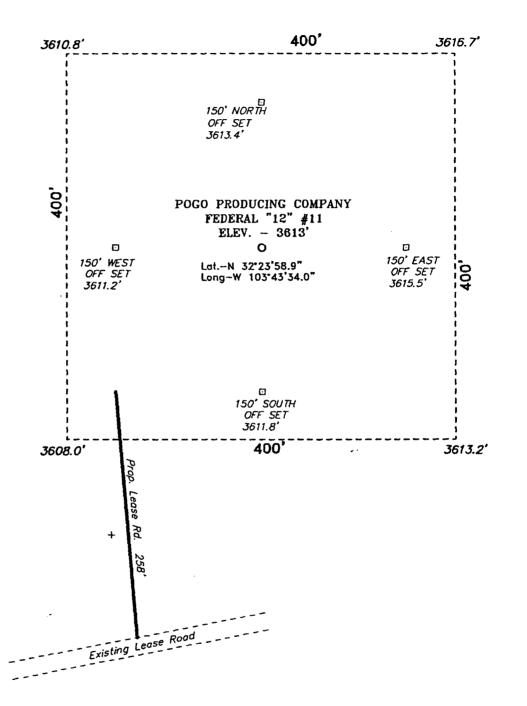
#### Bottom Hole Location If Different From Surface

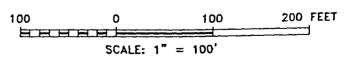
UL or lot No. S	Section Town	nship Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint or Infill Consolidation Code Order No.								

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  03/23/03  Date
	EXHI	Lat.: N32*23' Long.: W103*	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 supervison 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. 3073  Certificate No. Gary L. Jones, 7977

# SECTION 12, TOWNSHIP 22 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.





# POGO PRODUCING CO.

REF: FEDERAL "12" #11 / Well Pad Topo

THE FEDERAL "12" No. 11 LOCATED 330' FROM THE SOUTH LINE AND 990' FROM THE EAST LINE OF SECTION 12, TOWNSHIP 22 SQUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 3073 | Drawn By: K. GOAD

#### APPLICATION TO DRILL

POGO PRODUCING COMPANY
FEDERAL "12" # 11
UNIT "P" SECTION 12
T22S-R31E 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 information.

- 1. Location of well: 330' FSL & 990' FEL SECTION 12 T22S-R31E EDDY CO. NM
- 2. Ground Elevation above Sea Level: 3613' GR.
- 3. Geological age of surface formation: Ouaternary
- 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: 8600'

# 6. Estimated tops of geological markers:

Rustler Anhydrite	750 <b>'</b>	Cherry Canyon	54001
Basal Anhydrite	4238	Brushy Canyon	6630°
Delaware Lime	4512'	Bone Spring	83801
Bell Canyon	4570 <b>'</b>	•	

# 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"	0-800'	13 3/8"WITNI	ESS 48#	8-R	ST&C	H-40
11"	0-4300'	8 5/8" WITN	ESS 32#	8-R	ST&C	J-55
7 7/8"	0-8600	5½"	17 & 15.5	8-R	LT&C	J <b>-</b> 55

# APPLICATION TO DRILL

POGO PRODUCING COMPANY
FEDERAL "12" # 11
UNIT "P" SECTION 12
T22S-R31E LEA CO. NM

# 9. CASING CEMENTING & SETTING DEPTHS:

20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
13 3/8"	Surface	Set 800' of 13 3/8" 48# H-40 ST&C casing. Cement with 600 Sx. of 65/35/6 Class "C" POZ-Gel, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + $\frac{1}{2}$ # Flocele/Sx. Circulate cement.
8 5/8"	Intermediate	Set 4300' of 8 5/8" 32# J-55 ST&C casing, Cement with 1300 Sx. of 65/35/6 Class "C" POZ-Gel, + 5% NaCl, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + ½# Flocele/Sx. Circulate cement to !surface.
5½"	Production	Set 8600' of 5½" casing as follows: 2600' of 5½" 17# J-55 LT&C, 5000' of 5½" 15.5# LT&C, 1000' of 5½" 17# J-55 LT&C. Cement in 3 stages, place DV Tools at 5800' & 3700'±. Cement 1st stage with 650 Sx. of Class "H" cement + additives, cement 2nd stage with 600 Sx. of Class "C" cement + 8# of Gilsonite/Sx., cement 3rd stage with 400 Sx. of 65/35/6 Class "C" POZ-Gel, tail in with 100 Sx. of Class "C" cement + 1% CaCl, circulate cement to 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 nippled 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
40-800	8.4-8.7	29-32	NC	Fresh water Spud Mud add paper to control seepage.
800-4300'	10.0-10.2	29-38	NC	Brine water add paper to control seepage and use high viscosity sweeps to clean hole.
4300-8600'	8.4-8.7	29-40	NC*	Fresh water mud system use high viscosity sweeps to clean hole.

<sup>\*</sup> If water loss control is required in order to take DST's, run logs, or run casing add Dris-Pac to system to control water loss.

Sufficient mud materials will be kept on location at all times in order to combat lest 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
FEDERAL "12" # 11
UNIT "P" SECTION 12
T22S-R31E LEA CO. NM

#### 12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Run Dual Induction, SNP, LDT, Gamma Ray, Caliper logs from TD back to 8 5/8" casing shoe.
- B. Run Gamma Ray, Neutron logs from 8 5/8" casing shoe back to surface.
- C. Mud logger may be placed on hole at 4300'±.
- D. No cores or DST's are planned at this time.

## 13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of  $\rm H^2S$  in this area. If  $\rm H^2S$  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 4300 PSI, and Estimated BHT 165°.

#### 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  $\frac{28}{28}$  days. If production casing is run then an additional  $\frac{30}{28}$  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 Delaware(BS) formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.

#### HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and hazzards
  - 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. H<sub>2</sub>S Detection and Alarm Systems
  - A. H<sub>2</sub>S 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 indicates potential pressure and danger. Red flag, danger, H<sub>2</sub>S 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 communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
  - A. Exhausts will be watered.
  - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
  - C. If location is near any dwelling a closed D.S.T. will be performed.

# HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 8. Drilling contractor supervisor will be required to be familiar with the effects  $\rm H_2S$  has on tubular goods and other mechanical equipment.
- 9. If  $H_2S$  is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with  $H_2S$  scavengers if necessary.

POGO PRODUCING COMPANY
FEDERAL "12" # 11
UNIT "P" SECTION 12
T22S-R31E LEA CO. NM

- 1. EXISTING ROADS: Area roads, Exhibit "B" is a reproduction of a County General Hiway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing exixting roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
  - A. Exhibit "A" shows the proposed well site location as staked.
  - B. From Hobbs, New Mexico take U.S. Hi-way 62-180 toward Carlsbad New Mexico go 38± miles to CR-29, turn Left (SOUTH) go 10.5 miles turn Right and cross cattle guard, go 900' turn Right go 250' to location.
  - C. Exhibit "F" shows routes of powerlines and flowlines.
- 2. PLANNED ACCESS ROADS: Approximately 250' of new road will be constructed.
  - A. The access road will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.
  - B. Gradient on all roads will be less than 5%.
  - C. Turnouts will be constructed as required or as directed by the BLM.
  - D. If needed roads will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
  - E. Center line for the new access road has been staked and flagged. Earthwork will be done as required by field and topographic conditions.
  - F. Colverts in the access road will be used where necessary. The road will be constructed to utilize low water crossings for drainage as dictated by the topography.
- 3. LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS SHOWN ON EXHIBIT "A-1".
  - A. Water wells None known
  - B. Disposal wells None known
  - C. Drilling wells None known
  - D. Producing wells As shown on Exhibit "A-1"
  - E. Abandoned wells As shown on Exhibit "A-1".
  - F. Injection wells None known

POGO PRODUCING COMPANY
FEDERAL "12" # 11
UNIT "P" SECTION 12
T22S-R31E LEA CO. NM

4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's.

Possible routes of pipelines, flowlines and powerlines are shown on Exhibit "F".

# 5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped to location in flexible lines laid on top of the ground.

# 6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of drill site, if additional material is needed it will be obtained from a local source and transported over the access roads as shown on Exhibit "C".

# 7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by the supplier, including broken sacks.
- D. Waste water from living quaters will be drained into holes with a minium of 10'. These holes will be covered during drilling and will be back filled when the well is completed. A Porto-John will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for furthed drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approve disposal site. Later pips will be broken out to speed drying. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in storage tanks and sold.

#### 8. ANCILLARY FACILITIES:

A. No camps or air strips will be constructed on location.

POGO PRODUCING COMPANY
FEDERAL "12" # 11
UNIT "P" SECTION 12
T22S-R31E LEA CO. NM

#### 9. WELL SITE LAYOUT

- A. Exhibit "D" shows the proposed well site layout.
- B. This exhibit indicated proposed location of reserve and sump pits and living facilities.
- C. Mud pits in the active circulating system will be steel pits & the reserve pit is proposed to be unlined unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, the reserve pit is to be lined with polyethelene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

#### 10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

POGO PRODUCING COMPANY
FEDERAL "12" # 11
UNIT "P" SECTION 12
T22S-R31E LEA CO. NM

# 11. OTHER INFORMATION:

- A. Topography consists of sand dunes with a slight dip to the West. Deep sandy soil supports shinnery oak, native grasses, and an occasional mesquite tree.
  - B. Surface is owned by the U.S. Government and is administered by the Bureau of Land Management. The surface is used for grazing livestock and the production of oil and gas.
  - C. An archaeological survey will be conducted on the location and access roads. This report will be filed with The Bureau of Land Management in the Carlsbad field office.
- D. There are no dwellings near this location.

# 12. OPERATORS REPRESENTIVES:

# Before construction:

TIERRA EXPLORATION, INC P.O. BOX 2188 HOBBS, NEW MEXICO 88241 OFFICE Ph. 505-391-8503 JOE T. JANICA

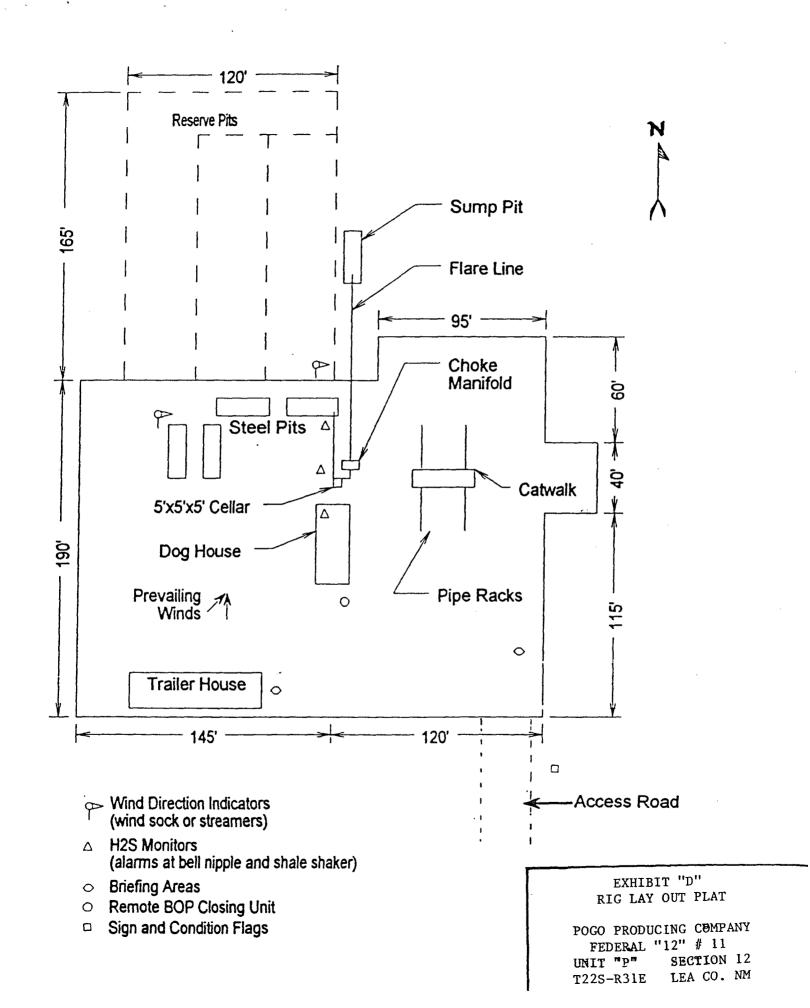
# During and after construction:

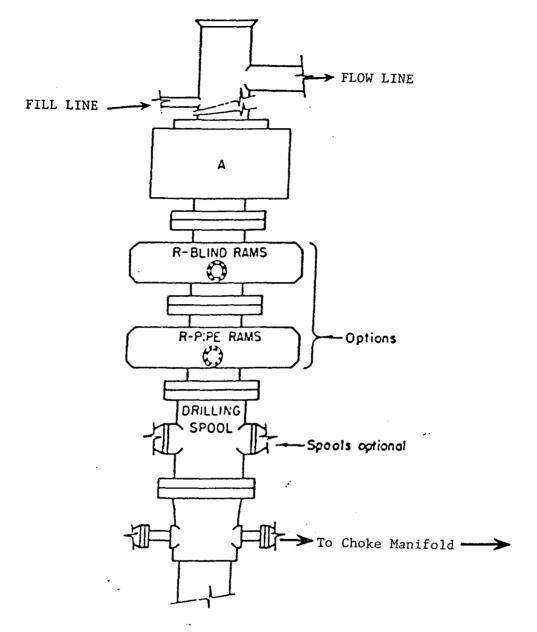
POGO PRODUCING COMPANY
P.O. BOX 10340
MIDLAND, TEXAS 79702-7340
OFFICE Ph. 915-685-8100
Mr. RICHARD WRIGHT 915-685-8140

13. CERTIFICATION: I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads, and that I am fimiliar 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 it's contractors/subcontractors is in compformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false report.

NAME : OS/23/03/

TITLE : Agent





# ARRANGEMENT SRRA

900 Series 3000 PSI WP

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

POGO PRODUCING COMPANY FEDERAL "12" # 11 UNIT "P" SECTION 12 T22S-R31E LEA CO. NM

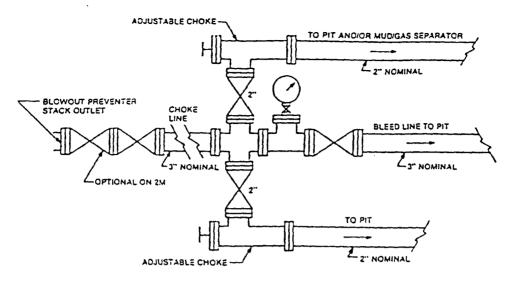


FIGURE K+1. Typical choke manifold assembly for 2M and 3M rated working pressure service — surface installation.

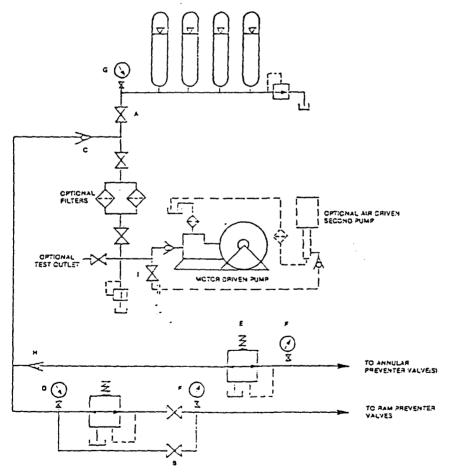


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

POGO PRODUCING COMPANY FEDERAL "12" # 11 UNIT "P" SECTION 12 T22S-R31E LEA CO. NM

