1301 W. Grand Avenue

Form 3160-3 (April 2004)

0168

Artesia, NM 88210

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

6. If Indian, Allotee or Tribe Name

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. Lease Serial No. NM-89172

APPLICATION FOR PERMIT TO DRILL OR REENTER

la.	Type of work: XX DRILL	RBBATT	eretary's po	rash	7 If Unit or CA Agreeme	nt, Name and No.
lb.	Type of Well: XXOil Well	Gas Well Other	XXSingle Zone Multip	le Zone	8. Lease Name and Well Patton 17 Fe	• •••
2	Name of Operator Pogo Producing C	ompany			9. API Well No.	33895
3a.	Address P.O. Box 10340,	Midland, TX	3b. Phone No. (include area code) 432-685-8100		10. Field and Pool, or Expl Poker Lake D	•
4.	Location of Well (Report location of	-	y State requirements.*)		11. Sec., T. R. M. or Blk. a	nd Survey or Area
	At surface 1850 FSL At proposed prod. zone	& 990' FEL			Sec 17, T24S	, R31E
14. Ap	Distance in miles and direction from proximately 30 mi	nearest town or post office* les South South	neast of Carlsbad	NM	12 County or Parish Eddy Couny	13. StateN.M
15.	Distance from proposed*		16. No. of acres in lease	17. Spacing	g Unit dedicated to this well	
	location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any	y) 990'	640	4	0	
18.	Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	650'	19. Proposed Depth 8500 '	20. BLM/E 297	BIA Bond No. on file 71	RECEIVED
21.	Elevations (Show whether DF, KD	B, RT, GL, etc.) 1530' GR	22 Approximate date work will sta When Approved	rt*	23. Estimated duration	JAN 1 0 2005

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2 A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

CODEARTERIA

- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	they Wight	Name (Printed Typed) Cathy Wright	Date 11/03/04	
itte Sr. Eng	. Tech			
Approved by (Signature)	/s/ Linda S. C. Rundell	Name (Printed/Typed) Linda S. C. Rundell	Date 2 2 DEC	200/
Title STAT	E DIRECTOR	Office		

NM STATE OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon APPROVAL FOR 1 YEAR 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)

CARLSBAD CONTROLLED WATER BASIN

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

PATTON 17 FEDERAL #8 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 850'. Run & set 850' of 13-3/8" 48# H-40 ST&C csg. Cmt w/ 800 sks Cl "C" cmt + additives. Circ cmt to surface.
- 3. Drill 11" hole to 4250'. Run & set 4250' 8-5/8" 32# J-55 ST&C casing. Cmt w/ 1500 sks C1 "C" cmt + additives. Circ cmt to surface.
- 4. Drill 7-7/8" hole to 8500'. Run & set 8500' of 5-1/2" csg as follows: 2500' 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 6100' & 3700' ±. Cmt 1st stage w/ 650 sks Cl "H" + add. Cmt 2nd stage w/ 600 sks Cl "C" + add. Cmt 3rd stage w/ 400 sks Cl "C" + add. Circ cmt to surface.

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1982

DISTRICT III

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe. New Mexico 87504-2088

DISTRICT IV P.O. BOX 2086, SANTA FE, N.M. 87504-2088

1000 Rio Brasos Rd., Artec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name	
	50382	POKER LAKE - DELAWARE	
Property Code		perty Name 17 FEDERAL	Well Number
ogrd no. 17891	-	rator Name ICING COMPANY	Elevation 3530'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	17	24-S	31-E		1850	SOUTH	990	EAST	EDDY

Bottom Hole Location If Different From Surface

Bottom Role Location if Different From Surface									
UL or lot No.	Section	Townshi	p Range	lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
	<u> </u>	<u> </u>		<u> </u>					<u> </u>
Dedicated Acre	s Joint o	or Infill	Consolidation	Code O	rder No.				
40	Į.	- 1		į					

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

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PERATOR CERTIFICATION

I hereby certify the the information ined herein is true and complete to the knowledge and belief.

Sature

Joe T. Zanica

nted Name

Agent

07/19/02

URVEYOR CERTIFICATION

reby certify that the well location shown this plat was plotted from field notes of ed surveys made by me or under my ervison, and that the same is true and rect to the best of my belief.

JULY 10, 2002

e Sugreyed mining netura & Sea 64.

A.W.B.

POFESSION 3239 12641 White will with the state of th

APPLICATION TO DRILL

POGO PRODUCING COMPANY
PATTON "17" FEDERAL # 8
UNIT "I" SECTION 17
T24S-R31E EDDY 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. <u>Location:</u> 1850' FSL & 990' FEL SEC. 17 T24S-R31E EDDY CO. NM
- 2. Elevation above Sea Level: 3530' GR.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. Drilling tools and associated equipment: Conventional rotary drilling rig usi drilling mud as a circulating medium for solids removal from hole.
- 5. Proposed drilling depth: 8500'
- 6. Estimated tops of geological markers:

Basal Anhydrite	3960'	Cherry Canyon	5184
Delaware Lime	4274	Brushy Canyon	6421'
Bell Canyon	4299'	Bone Spring	8104'

7. Possible mineral bearing formations:

Delaware Lime

Oil

Bone Spring

0il

8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25"	0-40 *	20	NA	NA	NA	Conductor
17½"	0- 850 1934'-	.955 13 3/8"	48	8-R	ST&C	н-40
11"	0-4250'	8 5/8"	32	8-R	ST&C	J-55
7 7/8"	0-8500'	5½"	17 & 15.5	8-R	LT&C	J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY
PATTON "17" FEDERAL # 8
UNIT "I" SECTION 17
T24S-R31E EDDY CO. NM

9. CASING CEMENTING & SETTING DEPT.

	20"	Conductor	Set 40' of 20" conductor and cement to surface with Redi-mix.
WITNESS	13 3/8"	Surface	Set 850' of 8 5/8" 48# H-40 ST&C casing. Cement wit 800 Sx. of Class "C" cement + additives, circulate cement to surface.
	8 5/8"	Intermediate	Set 4250' of 8 5/8" $32\#$ J-55 ST&C casing. Cement wi 1500 Sx. of Class "C" cement + 2% CaCl, + $\frac{1}{2}\#$ Flocel Sx., circulate cement to surface.
, -	5½"	Production	Set 8500' of 5½" casing as follows: 2500' 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 3 stages with DV Tools at 6100' & 3700'±. 1st stage cement with 650 Sx. of Clawh, 2nd stage cement with 600 Sx. of Class "C" cement additives, 3rd stage cement with 400 Sx. of Class cement + additives, circulate cment 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 eac 24 hour period and the blind rams will be operated when drill pipe is out of h on trips. Full opening stabbing valve and upper kelly cock will be utilized. E "E-1" shows a hydraulically operated closing unit and a 2" 3000 PSI choke mani with dual adjustable chokes. No abnormal pressures or temperatures are expecte

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WI.	VISC.	FLUID LOSS .	TYPE MUD SYSTEM
40-850'	8.4-8.8	29-34	NC	Fresh water spud mud paper to control seep
850-4250'	10.0-10.3	29-38	NC .	Brine water add paper control seepage, use viscosity sweeps to chole.
4250-8000'	8.4-8.6	29-36	NC	Fresh water use high viscosity sweeps to of hole.
8000-8500 '	8.4-8.6	29–36	10 ccor less	Fresh water Dris-pac system for water loss control and high visc sweeps to clean hole

Sufficient mud materials will be kept on location at all times in order to combat le 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
PATTON "17" FEDERAL # 8
UNIT "I" SECTION 17
T24S-R31E EDDY CO. NM

12. LOGGING, CORING, & TESTING PROGRAM:

- A. Open hole logs: Dual Induction, LDT, SNP, Gamma ray, Caliper from TD to 4250'.
- B. Cased hole logs: Run Gamma Ray, Neutron from 4250' to surface.
- C. No cores or DST's are planned at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known present of ${\rm H}^2{\rm S}$ in this area. If ${\rm H}^2{\rm S}$ is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expecte to occur. All personnel will be familiar with all aspects of safe operation coequipment being used to drill this well. Estimated BHP 4500 PSI, and Estimated BHT 175°.

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 neede to complete well and construct surface facilities and/or lay flowlines in ord 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 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 H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - 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. H₂S Detection and Alarm Systems

- A. H₂S 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, H2S 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 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
PATTON "17" FEDERAL # 8
UNIT "I" SECTION 17
T24S-R31E EDDY CO. NM

- 1. EXISTING ROADS: Area maps, Exhibit "B" is a reproduction of a County General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing 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 as staked.
 - From Hobbs New Mexico take U.S. Hi-way 62-180 West toward Carlsbad NM, go approximately 40 miles to WIPP road turn Left go 13 miles to CR 802 turn Left follow road to State Hi-way 128. Turn Left go 9.4 miles to Buck Jackson Road turn Right go 3 miles turn Right go 2.3 miles to Patton lease and follow roads to location.
 - C. Flow lines will be laid on the surface of the ground to existing tank battery. See Exhibit "F"
- 2. PLANNED ACCESS ROADS: Approximately 500' of new road will be constructed.
 - A. The access road will be crowned and dirched to a 12'00" wide travel surface with a 40' right-of-way.
 - B. Gradient on all roads will be less than 5.00%.
 - C. If required turnouts will be constructed where necessary.
 - D. If needed, road will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
 - E. Centerline for the new access road has been flagged. Earthwork will be as required by field conditions.
 - F. Culverts in the access road will not be used. The road will be constructed to utilize low water crossings for drainage as required by the Topography.

3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"

A.	Water wells	-	One approximately ½ Mile Northwest.
В.	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"

POGO PRODUCING COMPANY
PATTON "17" FEDERAL # 8
UNIT "I" SECTION 17
T24S-R31E EDDY 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 si 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 operation 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 transport 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
PATTON "17" FEDERAL # 8
UNIT "I" SECTION 17
T24S-R31E EDDY 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
PATTON "17" FEDERAL # 8
UNIT "I" SECTION 17
T24S-R31E EDDY 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. Ranch House located approximately 1/2 mile form 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 placare 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 COMPANT 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.

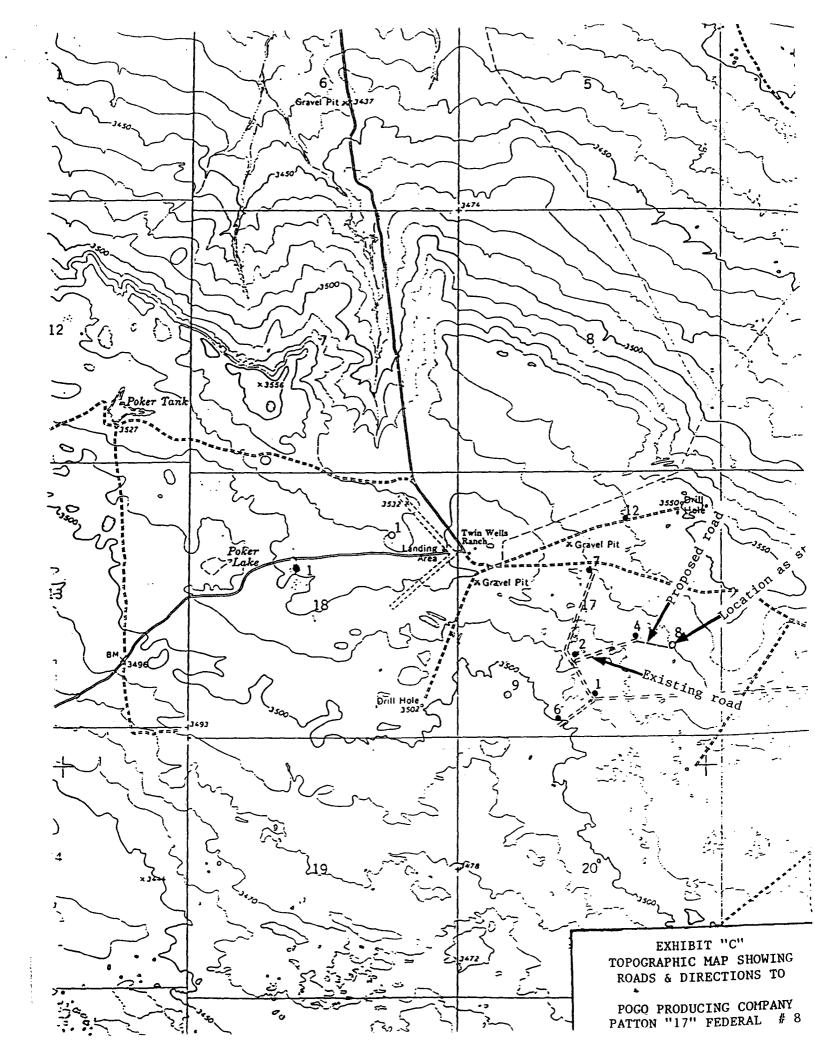
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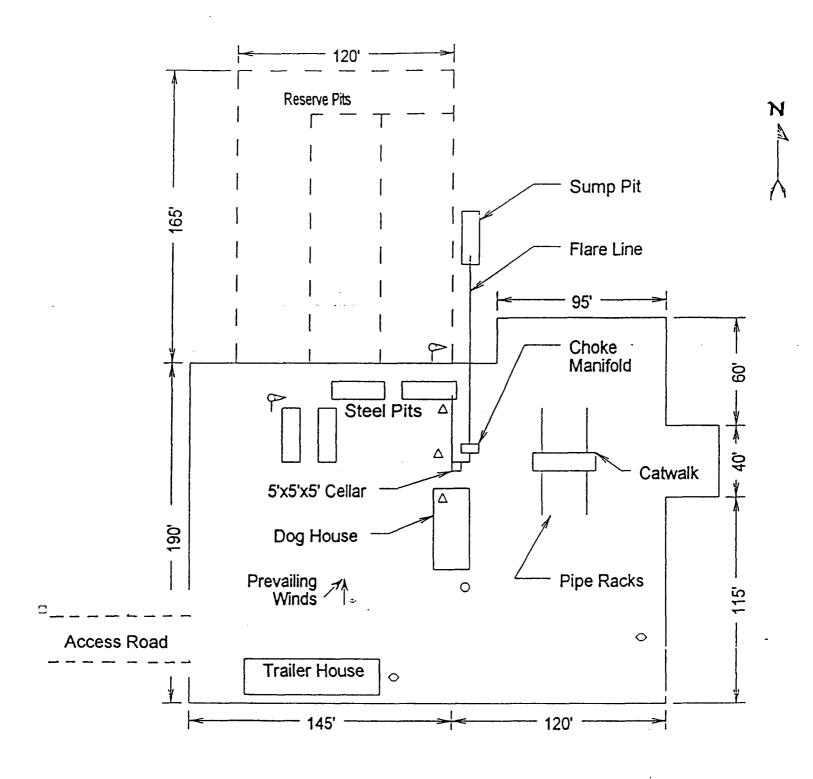
DATE

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Agent

07/19/02

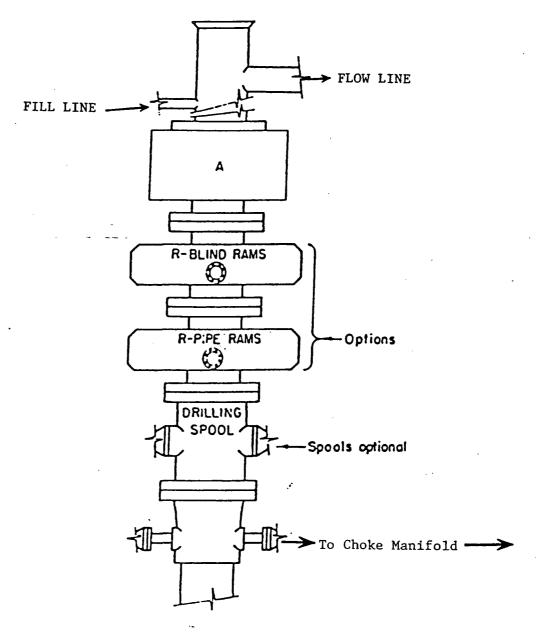




- Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- Briefing Areas
- O Remote BOP Closing Unit
- Sign and Condition Flags

EXHIBIT "D"
RIG LAY OUT PLAT

POSO PRODUCING COMPANY
PATTON "17" FEDERAL # 8
UNIT "1" SECTION 17



ARRANGEMENT SRRA

900 Series 3000 PSI WP

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

POGO PRODUCING COMPANY
PATTON "17" FEDERAL # 8
INIT "T" SECTION 17