2180

WITNESS

7 7/8"

(Other instructions on UNITED STATES . OR COMO "FIRTH TOPICS

OMB NO. 1004-0136 Expires: February 28, 1995 ASE DESIGNATION AND SERVICE

DEPARTMENT	OF THE	INTERIOR	MIS. D	ייזפוח-או	5. LE
BUREAU OF L	LAND MANA	ATBREATY.	Grand	Avenue	NM

•	BUREAU OF	LAND MANA	30ENW	. Grand /	Avenu€	NM-89819	OR JAILE SO.
APP	LICATION FOR P	ERMIT TO I	O RAIDING S	a PERMES	8210	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK	RILL X	DEEPEN (SECRE	ETARY'S P	OTASH	7. UNIT AGREEMENT	NAMB
OIL X	CAS WELL OTHER		Bingle Zone	MULT ZONE	IPLE	8. FARM OR LEASE NAME, V	VBLL NO.
POGO PRODUCI	NG COMPANY	(MR. RICH	ARD WRIG	HT 432-685		PATTON "18" F	EDERAL # 5
3. ADDRESS AND TELEPHONEN PO. BOX 1034	O MIDIAND BENZA	20300 304	0 (/ 00	<u> </u>		30-015 - 3 10. FIRLD AND POOL,	3824 OR WILDCAT
4. LOCATION OF WELL At surface	Report location clearly and 660' FSL SECTION	in accordance wit	th any State	requirements PE	CEIVED	POKER LAKE DI	BLK.
At proposed prod. 2	one SAME Per S	N dated	91310	ų NOV	0 8 2004	SECTION 18	T24S-R31E
	y 25 miles East				ah i esi	EDDY CO.	H 13. STATE
15. DISTANCE FROM PRO LOCATION TO NEAR PROPERTY OR LEASE	PUSED*	660'		ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL 40	
13. DISTANCE FROM PR TO NEAREST WELL, OR APPLIED FOR, ON T	DRILLING, COMPLETED,	1320' -	19. гкорози 8400		20. ROTA	RY OR CABLE TOOLS	
	vhether DF, RT, GR, etc.)	3509' (GR.			WHEN APPROV	
23.		PROPOSED CASI	NG AND CEM	ENTING PROGR	AM		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	ύοτ :	SETTING DEPTH		QUANTITY OF CEMI	ENT
25"	20" Conductor	NA		40'	Cement	to surface W	/Redi-mix

1. Drill 25" hole to 40'. Set 40' of 20" Conductor pipe and cement to surface with Redimix.

42001

8400'

2. Drill $17\frac{1}{2}$ " hole to 800'. Run and set 800' of 13 3/8" 48# H-40 ST&C casing. Cement with 800 Sx. of Class "C" cement + 2% CaCl, + 1/4 Flocele/Sx. Circulate cement to surface.

48

24 & 32

15.5 & 17

13 3/8" H-40

8 5/8"

5½"

J-55

J-55

- 3. Drill 11" hole to 4200'.Run and set 4200' of 8 5/8" casing as follows: 2000' of 8 5/8" 32# J-55 ST&C, 1200' of 8 5/8" 24# J-55 ST&C, 1000' of 8 5/8" 32# J=55 ST&C casing. Cement with 1200 Sx. of Class "C" cement + additives, circulate cement to surface.
- 4. Drill 7 7/8" hole to 8400'. Run and set 8400' of $5\frac{1}{2}$ " casing as follows: 2400' of $5\frac{1}{2}$ " 17# J-55 LT&C, 5000' of $5\frac{1}{2}$ " 15.5# J-55 LT&C, 1000' of $5\frac{1}{2}$ " 17# J-55 LT&C casing. Cement in 2 stages with DV Tool at 6200'±. Cement 1st stage with 550 Sx. of Class "H" Premium Plus cement + additives, cement 2nd stage with 750 Sx. of Class "C" cement + additives. Estimate top of cement 3500' from surface.

CARLSBAD CONTROLLED WATER BASIN

800 930 x55 800 Sx. circulate to surface

1300 Sx. 2 Stage job.

TOC 3500'±

1200 Sx

signed Signed St	Agent	. Give blowout preventer progra	04/09/04
If earthen pits PERMIT NO. — association with Application approx well, an OCD	are used jts) th the drilling of this — APPRO)	APPROVAL SUB GENERAL REQUAND SPECIAL ST	UREMENTS
conditions of a obtained prior	to pit construction.	·	
/s/ Linda S. C.	Rundell TITLE STA	TE DIRECTOR	1 NOV 2004

DISTRICT I 1625 N. Prench Dr., Hobbs, NM 68240 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

Pool Code	Pool Na	
96046	POKER LAKE-DELAWARE NOR	TUMEST
	Property Name	Well Number
PATTON	5	
	Operator Name	Elevation
POGO PRODUCING COMPANY		3503'
	96046 PATTON	96046 POKER LAKE-DELAWARE NOR Property Name PATTON "18" FEDERAL Operator Name

Surface Location

UL or lot h	o. Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
0	18	24 S	31 E		660	SOUTH	2180	EAST	EDDY

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 C	l onsolidation (Code Or	der No.	<u> </u>	l,		<u> </u>

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			I hereby certify the the information
1	!		contained herein is true and complete to the best of my knowledge and belief.
			$1/1 \cdot 0 \cdot 1$
!			Opr I James
LOT 1 - 41.87 AC.			Signature
		,	Joe T. Janica
			Printed Name
i			Agent
			09/03/04
1		ĺ	Date
LOT 2 - 41.94 AC.			SURVEYOR CERTIFICATION
			I hereby certify that the well location shown
i			on this plat was plotted from field notes of
l i			actual surveys made by me or under my supervison, and that the same is true and
Ì			correct to the best of my belief.
		1	AUGUST 31, 2004
LOT 3 - 42.00 AC.			Date Surveyed
			Signature & Seal of Professional Surveyor
	3507.4' 3505.5'		
			1 Sand John
Lat.: N32*12'42.8" Long.: W103*48'55.6"	9-	— 2180' ————	I WA No. ACT
	β500.5' 6 3507.4'		Cardinate No. Con Sones 7977
LOT 4 - 42.07 AC.	000,		PROBLEMS SUPPLYS
			DADIN SUMEIS

rom 2100-2 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	BUREAU OF LAND MAI	NAGEMENT		5. Lease Seri	al No
SUNDF	NM-89819				
Do not use ti	6. If Indian, Allottee or Tribe Name				
abandoned w					
CURNETIVE	3/5/ /OATC ON	•		7 151151:05	CAIA
SUBMITINT	RIPLICATE - Other ins	tructions on revers	e side	7. It ome or	CA/Agreement, Name and/or No.
1. Type of Well		- 		-	
Oil Well Gas Well	Other			8. Well Nam	se and No.
2. Name of Operator			- :04.63	PATTON "	18" FEDERAL # 5
POGO PRODUCING CO	<u></u>	WRIGHT 432-68.	5-8140) 	9. API Well	No.
3a. Address P.O. BOX 103		3b. Phone No. (inclu			
	(AS 79702-7340	432-685-810).	10. Field and	Pool, or Exploratory Area
4. Location of Well (Footage, Sec	•			11. County or	Parich State
2180' FEL & 660'.	FSL SECTION 18	124S-R31E EDDY	CO. NM	,	
		.		EDDY CO.	. NEW MEXICO
12. CHECK AF	PROPRIATE BOX(ES)	TO INDICATE NATO	IRE OF NOTICE,	REPORT, OR	OTHER DATA
TYPE OF SUBMISSION		Т	YPE OF ACTION		
	☐ Acidize	Deepen	Production (St	art/Resume)	Water Shut-Off
Notice of Intent	Alter Casing	Fracture Treat	☐ Reclamation	Ċ	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete	Œ	Other Move location
_	Change Plans	Plug and Abandon	Temporarily A	Abandon	
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposa	1	
	n: 1830' FEL 8 2180' FEL 8	660' FSL SECT 660' FSL SECT request of the ove should get	ION 18 T24S-R ION 18 T24S-R e archaeologi	31E EDDY CO 31E EDDY CO cal departm	O. NM O. NM ment of The
4. I hereby certify that the foregoin Name (Printed/Typed) Joe T. Janica Signature	General	Title Date FOR FEDERAL OR S	Agent 09/03/04 TATE OFFICE US	E	
					1 NOV 2004
	da S. C. Rundell		ATE DIREC	FOR Date	F 1401
Conditions of approval, if any, are a errify that the applicant holds legal which would entitle the applicant to de-	l or equitable title to those rigl		office NM STA	ATE OFFICE	

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.

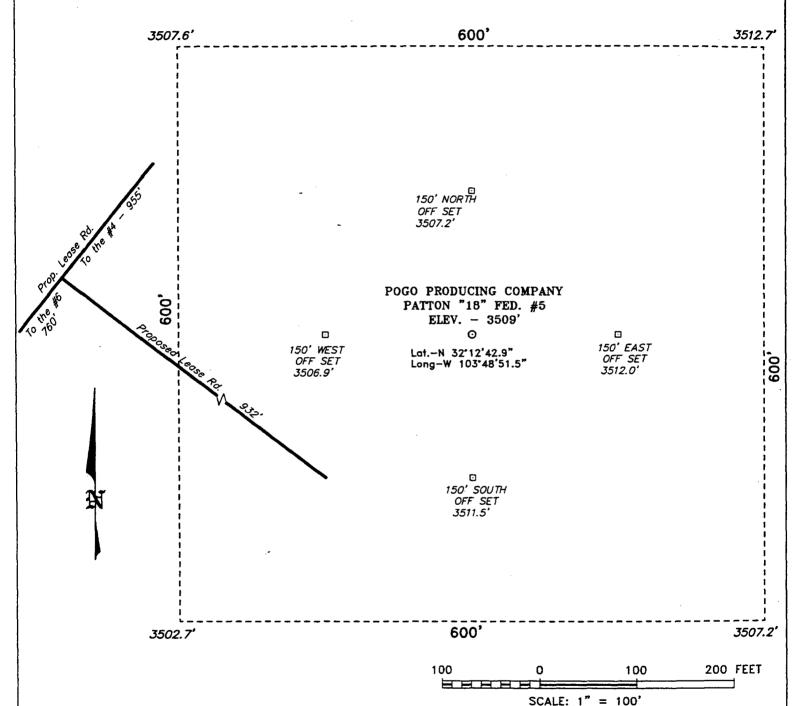
SECTION 18, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO. 3505.5' 3507.4' 600' 150' NORTH OFF SET 3505.2 POGO PRODUCING COMPANY PATTON "18" FED. #5 ELEV. - 3503' 150' EAST OFF SET 150' WEST Lat.-N 32°12'42.8" OFF SET Long-W 103°48'55.6" 3504.3' 3502.6 ⊡ 150' SOUTH OFF SET 3502.9' 600' 3500.5 3507.4 100 100 200 FEET SCALE: 1" = 100' Directions to Location: POGO PRODUCING CO. FROM THE JUNCTION OF CO. RD. 787 AND STATE HWY 128, GO SOUTHERLY ON CO. RD. 128 FOR 5.4 MILES AND WEST FOR 0.4 MILE TO THE PATTON #1 TANK BATTERY AND THE PROPOSED LEASE ROAD TO REF: PATTON "18" FED. #5 / Well Pad Topo THE PATTON #4; THENCE ALONG PROPOSED LEASE ROAD TO THE #4 AND PROPOSED LEASE ROAD TO THE PATTON "18" FED. No. 5 LOCATED 660' FROM THE #5. THE SOUTH LINE AND 2180' FROM THE EAST LINE OF SECTION 18, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 4611 Drawn By: K. GOAD 09-01-2004 Disk: KJG CD#4 4611A.DWG Date:

Sheet of Sheets Survey Date: 08-31-2004

SECTION 18, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.. NEW MEXICO. EDDY COUNTY.



Directions to Location:

04-06-2004

FROM THE JUNCTION OF CO. RD. 787 AND STATE HWY 128, GO SOUTHERLY ON CO. RD. 128 FOR 5.4 MILES AND WEST FOR 0.4 MILE TO THE PATTON #1 TANK BATTERY AND THE PROPOSED LEASE ROAD TO THE PATTON #4: THENCE ALONG PROPOSED LEASE ROAD TO THE #4 AND PROPOSED LEASE ROAD TO THE #5.

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

Disk: KJG CD#4

4156A.DWG

W.O. Number: 4156 K. GOAD Drawn By:

POGO PRODUCING CO.

REF: PATTON "18" FED. #5 / Well Pad Topo

THE PATTON "18" FED. No. 5 LOCATED 660' FROM THE SOUTH LINE AND 1830' FROM THE EAST LINE OF SECTION 18, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

Sheet Survey Date: 04-05-2004

Sheets

APPLICATION TO DRILL

POGO PRODUCING COMPANY
PATTON"18" FEDERAL #5
UNIT "O" SECTION 18
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. Location: 1830' FEL & 660' FSL SECTION 18 T24S-R31E EDDY CO. NM
- 2. Elevation above Sea Level: 3509' GR.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
- 5. Proposed drilling depth: 8400'
- 6. Estimated tops of geological markers:

Rustler Anhydrité	500.°	Cherry CAnyon	5184
Salado	750 '	Brushy Canyon	6421
Delaware	4274	Bone Spring	8104'
Bell Canyon	4299		

7. Possible mineral bearing formations:

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"	0-800,930	13 3/8"	48#	8-R	ST&C	H-40
11"	0-4200'	8 5/8"	32 & 24	8-R	ST&C	J≖55
. 7 7/8"	0-8400.	5½"	17 & 15.5	8-R	LT&C	J - 55

APPLICATION TO DRILL

POGO PRODUCING COMPANY PATTON"18" FEDERAL #5 UNIT "O" SECTION 18 T24S-R31E EDDY CO. NM

9. CASING CEMENTING & SETTING DEPTH:

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 800 Sx. of Class "C" cement + 2% CaCl, + $\frac{1}{2}$ # Flocele/Sx. Circulate cement to surface.
8 5/8"	Inter- mediate	Set 4200' of 8 5/8" casing as follows: 2000! of 8 5/8" 32# J-55 ST&C, 1200' of 8 5/8" 24# J-55 ST&C, 1000' of 8 5/8" 32# J-55 ST&C casing. Cement with 1200 Sx. of Class "C" cement + additives, circulate cement to surface.
5½''	Production	Set 8400' of 5½" casing as follows: 2400' 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 2 stages DV Tool at 6200'±. Cement 1st stage with 550 Sx. of Class "H"cement + additives. 2nd stage cement with 750 Sx. of Class "C" cement + additives. Estimate top of cement 3500' from surface.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 series 3000 PSI working perssure 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 each 24 Hr. period and the blind rams will be operated when the drill pipe is out of on trips. Full opening stabbing valve and upper kelly cock will be available in case if needed. Exhibit "E-1" shows a hydraulically operated closing unit and a 3" 3000 PSI choke manifold with adjustable chokes. No abnormal pressures or temperatures are expected while drilling this well. No problems in offset wells.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-800 10(30)	8.4-8.7	29-34	NC	Fresh water spud mud add paper to control seepage.
0\37800-4200'	10.0-10.2	29-38	NC .	Brine water use paper to control seepage & High viscosity sweeps to clean hole.
4200-8400'	8.4-8.7	29-40	NC*	Fresh water mid system use Gel for viscosity control, use high viscosity sweeps to clean hole.

^{*} Water loss may have to be reduced to 10 cc or less in order to protect formation, run logs, DST's and casing. If needed use a Dris-pac 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 water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

POGO PRODUCING COMPANY PATTON"18" FEDERAL #5 UNIT "O" SECTION 18 T24S-R31E EDDY CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Induction, LDT, SNP, Gamma Ray, Caliper from TD back to 8 5/8" casing shoe. Run Gamma Ray, Neutron from 8 5/8" casing shoe back to surface.
- B. Mud logger may be placed on hole at 4200' and remain on hole to TD.
- 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 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 4500 PSI, and Estimated BHT 160°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

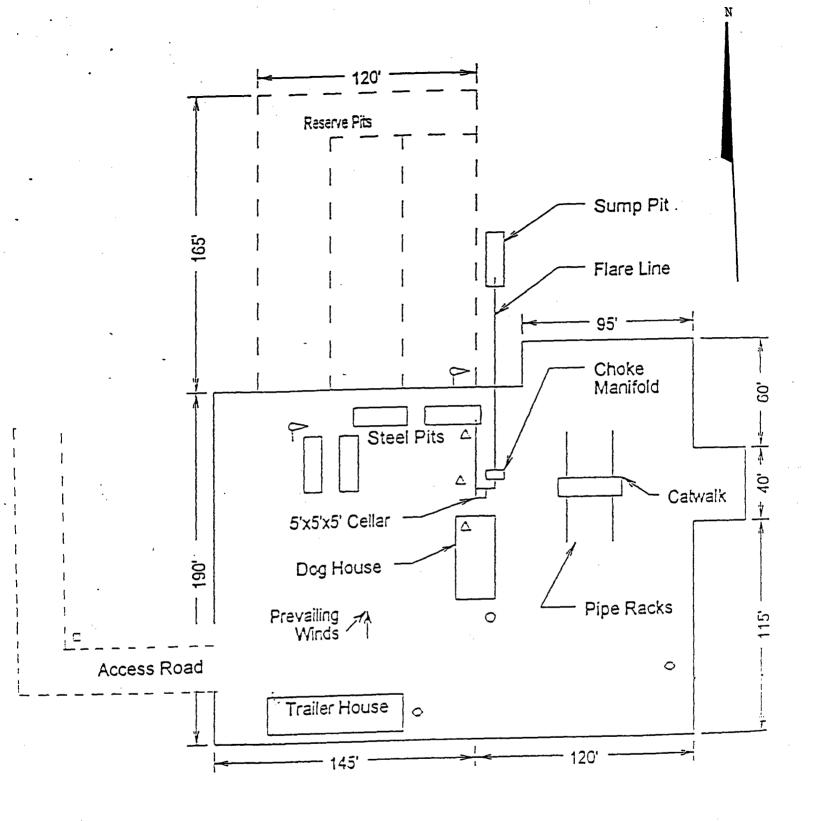
Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 25 days. If production casing is run then an additional 30 days will be needed 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 potentialed as an oil well.

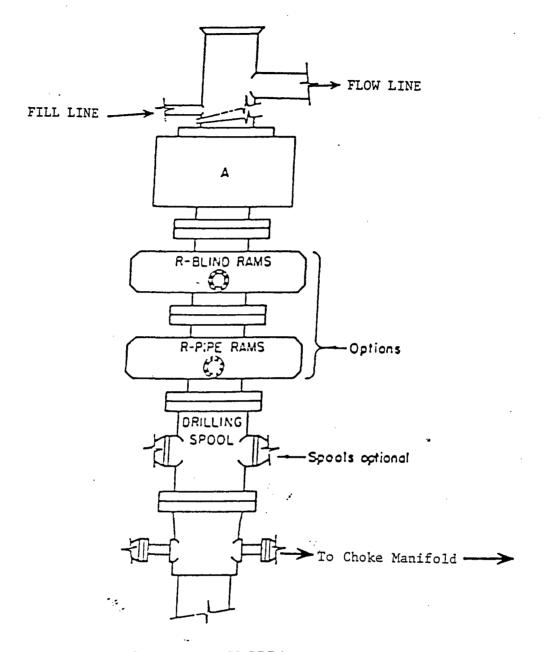
- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazzards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of ${\rm H}_2{\rm S}$ 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" & "E-1"
- 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 the location is near to a dwelling a closed DST will be performed.

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H₂S 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 H₂S scavengers if necessary.



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

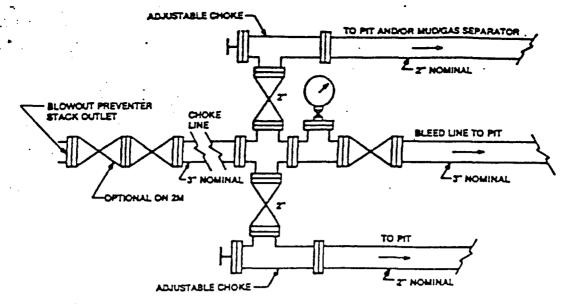
EXHIBIT "D"
RIG LAY OUT PLAT



ARRANGEMENT SRRA

900 Series 3000 PSI WP

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



Typical choke manifold assembly for 3M WP system

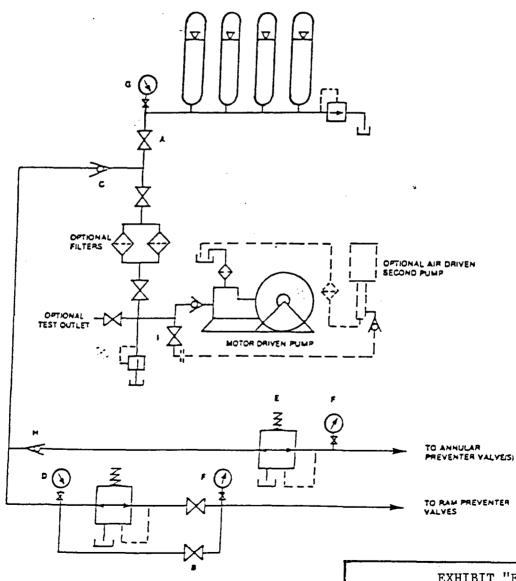
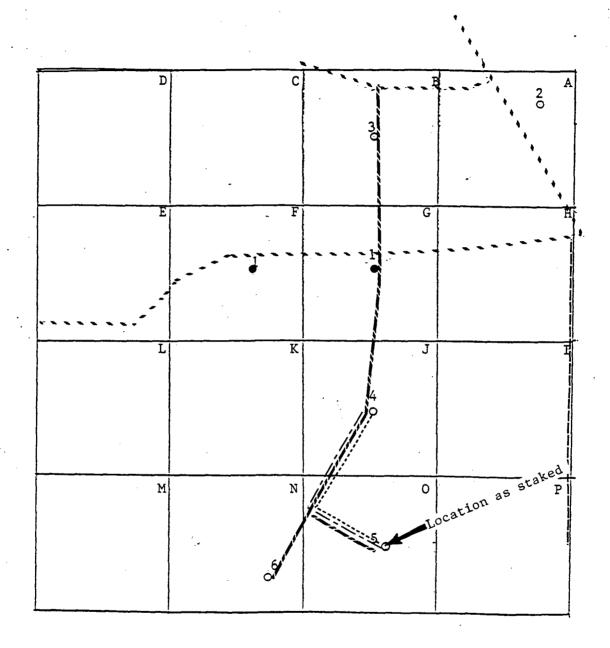


EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT



•		•
Existing	Road	
Proposed	Road	
Proposed	Powerline	
Proposed	Flowline	
Existing	Powerline	

EXHIBIT "F"

ROUTE OF PROPOSED

ROADS, FLOWLINES & POWERLINES