DEPARTMENT OF THE INTERIOR CONS. DIV-DIST S. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGENEOT W. Grand Avenue NM-99016 APPLICATION FOR PERMIT TO DRIANTES IN FINE NO. 10 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 1a. TYPE OF WORK DRILL X DEEPEN [7. UNIT AGREEMENT NAME b. TIPE OF WELL WELL X GAS WELL X BINGLE MULTIPLE OTHER S. FARM OR LEASE HAME WELL NO 2. NAME OF OPERATOR RED MAN "18" FEDERAL # 1 POGO PRODUCING COMPANY 9. API WELL NO. (RICHARD WRIGHT 432-685-8140) 3. ADDRESS AND TELEPHONE NO. 30-015-33760 P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 (432-685-8100) 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) CEMETARY-MORROW 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA FWL SECTION 18 T20S-R25E EDDY CO. 990' FNL & 660' At proposed prod. zone SAME SECTION 18 T20S-R25E DEC - 1 2004 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12. COUNTY OR PARISH | 13. STATE Approximately 20 miles Northwest of Carlsbad New Mexidal 30 EDDY CO. NEW MEXICO 15. DISTANCE FROM PROPUSED* 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 6601 200 320 13. DISTANCE FROM PROPOSED LOCATIONS 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 4000 9900' ROTARY 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START" 3568' GR. WHEN APPROVED 23. PROPOSED CASING AND CEMENTING PROGRAM Carlahad Controlled Water Bacin SIZE OF ROLE GRADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 25" 40 Conductor NA Cement to surface W/Redi-mix. <u> 1</u>7냥'' 13.3/8" 48 5001 H - 40550 Sx. circulate cement 8 5/8" 2200 J-55 32 600 Sx 11" 51/5" 7 7/8" 17 9900' 1000 Sx. Est. top cement 2000' L-80 1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface W/Redi-mix. 2. Drill $17\frac{1}{2}$ " hole to 500'. Run and set 500' of 13 3/8" 48# H-40 ST&C casing. Cement with 550 Sx. of Class "C" cement + ½# Flocele/Sx, + 2% CaCl, circulate cement to 3. Drill 11" hole to 2200'. Run and set 2200' of 8 5/8" 32# J-55 ST&C casing. Cement with 600 Sx. of Class "C" cement + additives, circulate cement to surface. 4. Drill 7 7/8" hole to 9900'. Run and set 9900' of $5\frac{1}{2}$ " 17# L-80 LT&C casing. Cement in two stages with DV Tool at 4500't. Cement 1st stage with 650 Sx. of Class "H" cement + additives, cement 2nd stage with 350 Sx. of Class "C" cement + additives, estimate top of cement 2000' from surface. APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED 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 defil or

deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any, 24. 09/27/04 TITLE Agent DATE SIGNED (This puce for Federal or State office use) APPROVAL DATE _ 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. CONDITIONS OF APPROVAL IF ANY:

/s/ Joe G. Lara

FIELD MANAGER

DEC 0 6 2004

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit appropriate NMOCD District Office. For downstream facilities, submit to Santa Fc office

Form C-1

March 12, 20

Pit or Below-Grade Tank Registration or Closure

Is not or below-grade tank covered by a "general plan"? Yes \ No \ X

	below-grade tank 🔼 Closure of a pit or below-			
Operator: Pogo Producing Company 432-68 Address: P. O. Box 10340, Midland, TX 79702	35-8100 e-mail address: wrightc@	pogo	producing	.com
Facility or well name: Red Man 18 Fed #1 API#:	U/L or Otr/Otr A Sec 18	т20	S _R 25E	
County: Eddy Latitude 32:34:41.52 Nongitude 104	:31:49.22WAD: 1927XX 1983 Surfa	ace Owi	ner Federal St	ate 🗌 Private 🗍 Indian [
Pit	Below-grade tank			
Type: Drilling 🐧 Production 🗌 Disposal 🗍	Volume:bbl Type of fluid:			
Workover ☐ Emergency ☐	Construction material:			RECEIVED
Lined \(\bigcup Unlined \(\bigcup \) Liner type: Synthetic \(\bigcup \) Thickness \(\bigcup \) Tolume	Double-walled, with leak detection? Yes	If not,	explain why not.	OCT 1 2 2004
16000 _{bbl}			O	DO ANTERIA
Post Assembly and Control Control Control	Less than 50 feet		(20 points)	
Depth to ground water (vertical distance from bottom of pit to seasonal high	50 feet or more, but less than 100 feet		(10 points)	
water elevation of ground water.)	100 feet or more	X	(0 points)	0
Wallhard anotación area: (Loro than 200 feet from a private demostic	Yes		(20 points)	
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	No	X	(0 points)	0
Distance to surface vinter: (horizontal distance to all westlands inlaves	Less than 200 feet		(20 points)	
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet		(10 points)	
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	X	(0 points)	0
	Ranking Score (Total Points)			0
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2)	Indicat	e disposal locatio	n:
onsite O offsite I If offsite, name of facility	(3) Attach a general description of remedi	ial actio	on taken including	remediation start date and
end date. (4) Groundwater encountered: No [Yes [If yes, show depth				
and a diagram of sample locations and excavations.				·
I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines Δ , a Date: $10/08/04$	general permit [], or an (attached) alternat	tive OC	D-approved pla	pit or below-grade tank b n □.
Printed Name/Title Cathy Wright, Sr Eng Tech	_ SignatureSignature	life	1	
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	relieve the operator of liability spould the conto			
ApproOCT 13 2004 1-11 App Printed Name/Title	Signature			
ı	000	1		

Water Resources

Data Category: Site Information 😴 New Mexico

Geographic Area:

▽ go

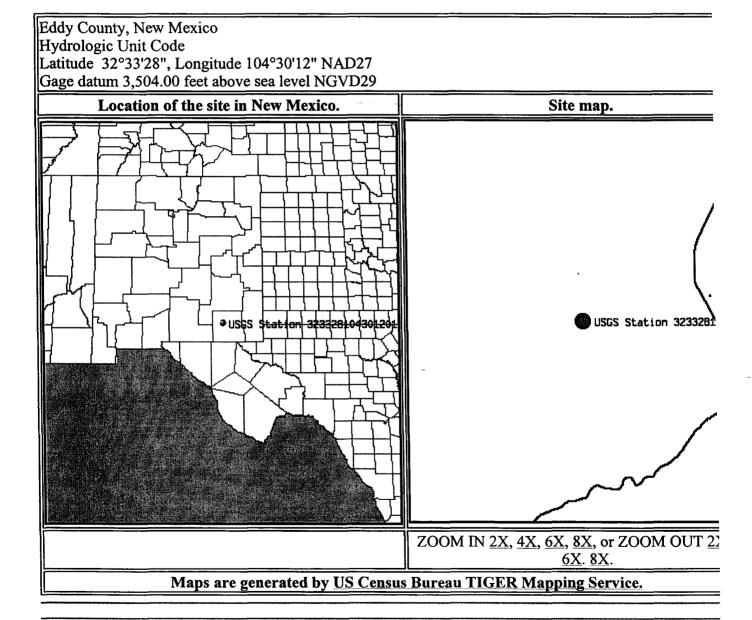
Site Map for New Mexico

USGS 323328104301201 20S.25E.20.41114

Available data for this site

Station site map





Questions about data New Mexico NWISWeb Data Inquiries Feedback on this websiteNew Mexico NWISWeb Maintainer **NWIS Site Inventory for New Mexico: Site Map** http://waterdata.usgs.gov/nm/nwis/nwismap?

Top **Explanation of terms** **Water Resources**

Data Category:	Geographic Area:	
Ground Water 😿	New Mexico	go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 323328104301201

Save file of selected sites to local disk for future upload

USGS 323328104301201 20S.25E.20.41114

Available data for this site

Ground-water: Levels



Output formats Eddy County, New Mexico Hydrologic Unit Code Table of data Latitude 32°33'28", Longitude 104°30'12" NAD27 Tab-separated data Gage datum 3,504.00 feet above sea level NGVD29 The depth of the well is 314.0 feet below land surface. Graph of data This well is completed in ARTESIA GROUP (313ARTS) Reselect period USGS 323328104301201 20S.25E.20.41114 Ground-Water Level, in feet below surface 3310 195 3305 200 3300 3295 210 3290 215 3285 1985 1990 1995 2005 DATES: 02/01/1984 to 10/07/2004 23:59 Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

Great Circle Calculator.

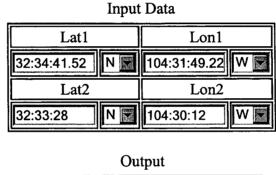
By Ed Williams

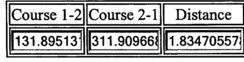
You need Javascript enabled if you want this page to do anything useful! For Netscape, it's under Options/Network Preferences/Languages.

Compute true course and distance between points.

Enter lat/lon of points, select distance units and earth model and click "compute". Lat/lons may be entered in DD.DD, DD:MM.MM or DD:MM:SS.SS formats.

Note that if either point is very close to a pole, the course may be inaccurate, because of its extreme sensitivity to position and inevitable rounding error.





Distance Units: nm Earth model: Spherical (1'=1nm)

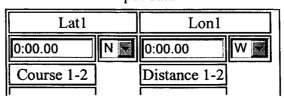
Compute Reset

Compute lat/lon given radial and distance from a known point

Enter lat/lon of initial point, true course and distance. Select distance units and earth model and click "compute". Lat/lons may be entered in DD.DD, DD:MM.MM or DD:MM:SS.SS formats.

Note that the starting point cannot be a pole.

Input data



State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II

DISTRICT III

1301 W. GRAND AVENUE, ARTESIA, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Conics

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Na	me
	74640	CEMETARY-MORROW (GAS)	
Property Code		Property Name	Well Number
İ	REDM	REDMAN 18 FEDERAL	
OGRID No.		Operator Name	Elevation
17891	POGO PR	ODUCING COMPANY	3568'

Surface Location

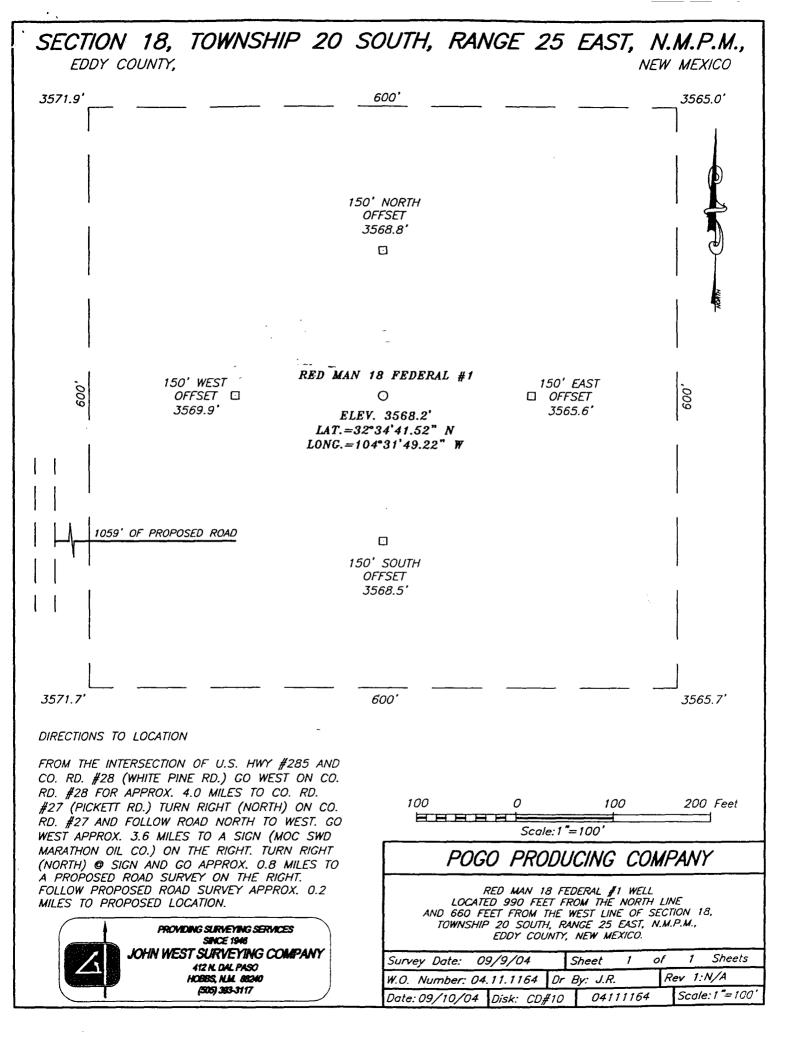
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	18	20-S	25-E	•	9.90	NORTH	660	WEST	EDDY

Bottom Hole Location If Different From Surface

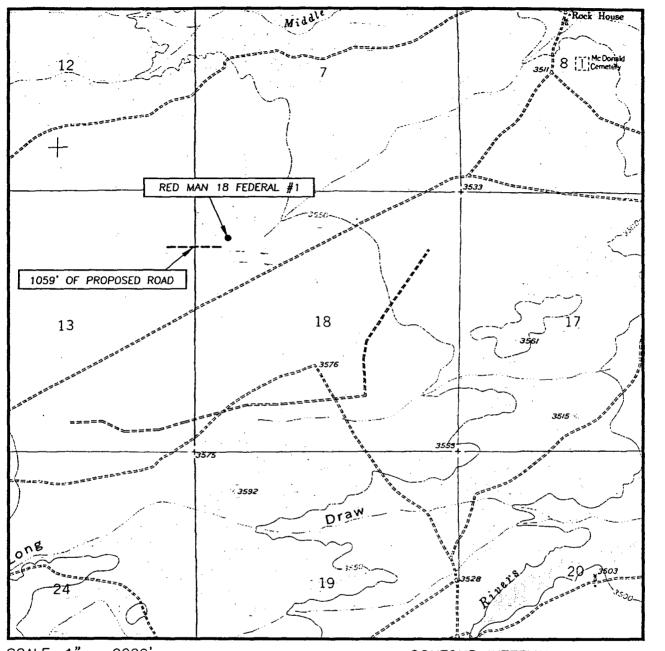
UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	s Joint o	r Infill Co	nsolidation (Code Ore	der No.]
320									

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

	the state of the s	
3571.9' 3565.0' 3565.0' 3571.7' 3565.7'	Second location	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my mowledge and belief. Signature
3303.7	GEODETIC COORDINATES NAD 27 NME Y=574116.8 N X=439315.2 E LAT.=32*34'41.52" N	Joe T. Janića Printed Name Agent Title
<u>LOT 2</u>	LONG. = 104°31'49.22" W	SURVEYOR CERTIFICATION
LOT 3		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.
LOT 4		SEPTEMBER 9, 2004 Date Surveyed Signature & Seal of Professional Surveyor Bangh Lalman 9/11/04 04.11.1164
		Certificate No. GARY EIBSON 12841



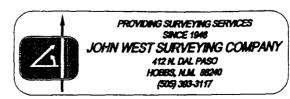
LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: FOSTER RANCH, N.M. - 10'

SEC. 18 IWP. 20-5 RGE. 25-E
SURVEYN.M.P.M.
COUNTYEDDY
DESCRIPTION 990' FNL & 660' FWL
ELEVATION 3568'
POGO
OPERATOR PRODUCING COMPANY
LEASE RED MAN 18 FEDERAL
U.S.G.S. TOPOGRAPHIC MAP
FOSTER RANCH N.M.



APPLICATION TO DRILL

POGO PRODUCING COMPANY
RED MAN "18" FEDERAL # 1
LOT # 1 SECTION 18
T20S-R25E 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 of well: 990' FNL & 660' FWL SECTION 18 T20S-R25E EDDY CO. NM
- 2. Ground Elevation above Sea Level: 3568' GR.
- 3. Geological age of surface formation: Quaternary Deposits:
- 4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using drilling mud as a circulating medium to remove solids from hole.
- 5. Proposed drilling depth: 9900'
- 6. Estimated tops of geological markers:

	Queen	600.	3rd Bone Spring Sd.	6570 '
	Grayburg	910'	Wolfcamp Lime	7020 '
	San Andres	1310'	Cisco	7850 '
	Bone Spring Lime	2230'	Morrow Clastics	9420'
7.	Possible mineral bea	ring formations:	Mississippian	9800'
	Wolfcamp	Gas		5
	Cisco	Gas		
	Morrow	Gas		

8. Casing Program:

Hole Size	Interval	OD of Casing	Weight	Thread	Collar	Grade
25"	0-40	20"	NA	NA	NA	Conductor
17½''	0-500'	13 3/8"	48	8-R	ST&C	H-40
11"	0-2200'	8 5/8"	32	8-R	ST&C	J-55
7 7/8"	0-99001	5½"	17	8-R	LT&C	J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY
RED MAN "18" FEDERAL # 1
LOT # 1 SECTION 18
T20S-R25E EDDY CO. NM

9. CASING CEMENTING & SETTING DEPTH:

20 ¹¹	Conductor	Set 40° of 20° conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set 500' of 13 3/8" 48# H-40 ST&C casing. Cement with 550 Sx. of Class "C" cement + additives, circulate cement to surface.
8 5/8"	Intermediate	Set 2200' of 8 5/8" $32\#$ J-55 ST&C casing. Cement with 600 Sx of Class "C" cement + $\frac{1}{2}\#$ Flocele/Sx., + 2% CaCl, circulate cement to surface.
5½''	Production	Set 9900' of 5½" 17# L-80 LT&C casing. Cement in 2 stages set DV Tool at 4500'±. Cement 1st stage with 650 Sx. of Class "H" Premium Plus cement + additives, cement 2nd stage with 350 Sx. of Class "C" cement + additives, estimate top of cement 2000' 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
40-500'	8.4-8.7	29-38	NC	Fresh water spud mud use paper to control seepage.
500-2200'	10-10.2	29-40	NC	Brine water use paper to control seepage and high viscosity sweeps to clear Hole.
2200-8700'	8.4-8.7	29-40	NC	Fresh water use Gel for viscosity control and high viscosity sweeps to clean hole.
8700-9900'	8.4-8.7	32-40	6-10 cc or less	Same as above use Gel for viscosity control and Dris-Pac for water loss control.

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
RED MAN "18" FEDERAL # 1
LOT # 1 SECTION 18
T20S-R25E EDDY CO. NM

12. LOGGING , CORING, AND TESTING:

- A. Open hole logs: Dual induction, SNP, LDT, Gamma Ray, and Caliper from TD Back to 8 5/7" casing shoe.
- B. Cased hole logs: Gamma Ray, Neutron from 8 5/8" casing shoe to surface.
- C. Mud logger may be rigged up on hole at 2200' and remain on hole to TD.
- D. DST's may be taken as shows dictate. Cores may be taken as geologist determines.

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 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 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 $\underline{\text{MORROW}}$ formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as a gas well.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified ${\rm H}_2{\rm S}$ 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" & "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 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.

- 1. EXISTING ROADS & PROPOSED ROADS: Area maps; Exhibit "B" is a reproduction of a County General Hi-way Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing 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.
 - B. From the junction of State Hi-way 200 (Relief By-pass) and U.S. Hi-way 285 North of Carlsbad New Mexico, go North 12 miles to CR-28 (White Pine Road) turn Left go 4 miles to CR-27 (Pickett Road) turn Right go .5 miles . turn West go 3.2± miles turn Right NORTH go .75 miles± turn Right EAST follow new road 1000' to location on the North side of road.
 - C. See Exhibit "C" for possible route of gas sales line.
- 2. PLANNED ACCESS ROADS: Approximately 1000; of new road will be constructed.
 - A. The access roads will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.
 - 3, Gradient of all roads will be less than 5.00%.
 - C. If turn-outs are necessary they will be constructed.
 - D. If needed roads will be surfaced with a mimimum of 4" of caliche. This material will be obtained from a local source.
 - E. Center-line for new roads will be flagged. Earth-work will be will be done as field conditions require.
 - F. Culverts will be placed in the access road if they are necessary. The roads will be constructed to utilaze low water crossings for drainage as required by topography.
- 3. LOCATIONS OF EXISTING WELLS IN A ONE MILE RADIUS. EXHIBIT "A-1"
 - A. Water wells One approximately 1 mile East of location.
 - 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"

POGO PRODUCING COMPANY
RED MAN "18" FEDERAL # 1
LOT # 1 SECTION 18
T20S-R25E 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 "C".

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
RED MAN "18" FEDERAL # 1
LOT # 1 SECTION 18
T20S-R25E 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 pirs 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
RED MAN "18" FEDERAL # 1
LOT # 1 SECTION 18
T20S-R25E EDDY CO. NM

11. OTHER INFORMATION:

- A. Topography consists of low lying Limestone hills with drainage toward to the Southeast into the South Seven Rivers drainage system. Vegetation consists of creosote, yucca, sumac, and mesquite.
- 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 in the near vicinity of this location.

12. OPERATORS REPRESENTIVES:

Before construction:

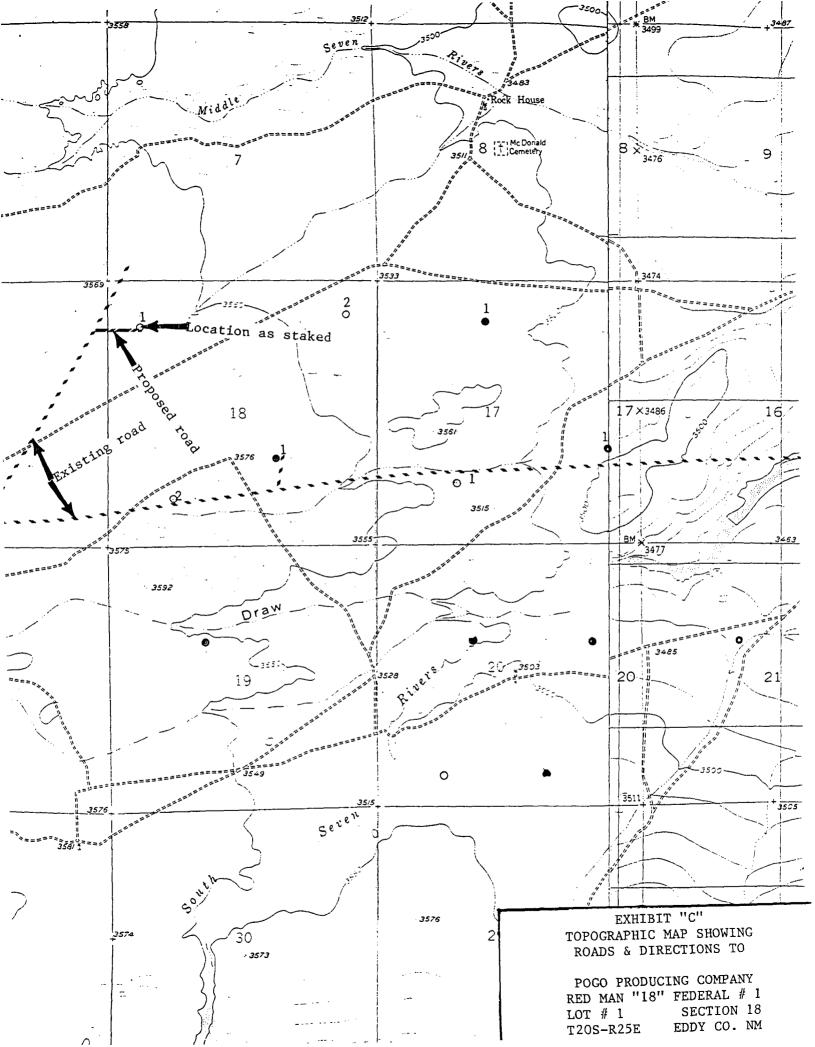
TIERRA EXPLORATION, INC P.O. BOX 2188 HOBBS, NEW MEXICO 88241 OFFICE Ph. 505-391-8503 JOE T. JANICA

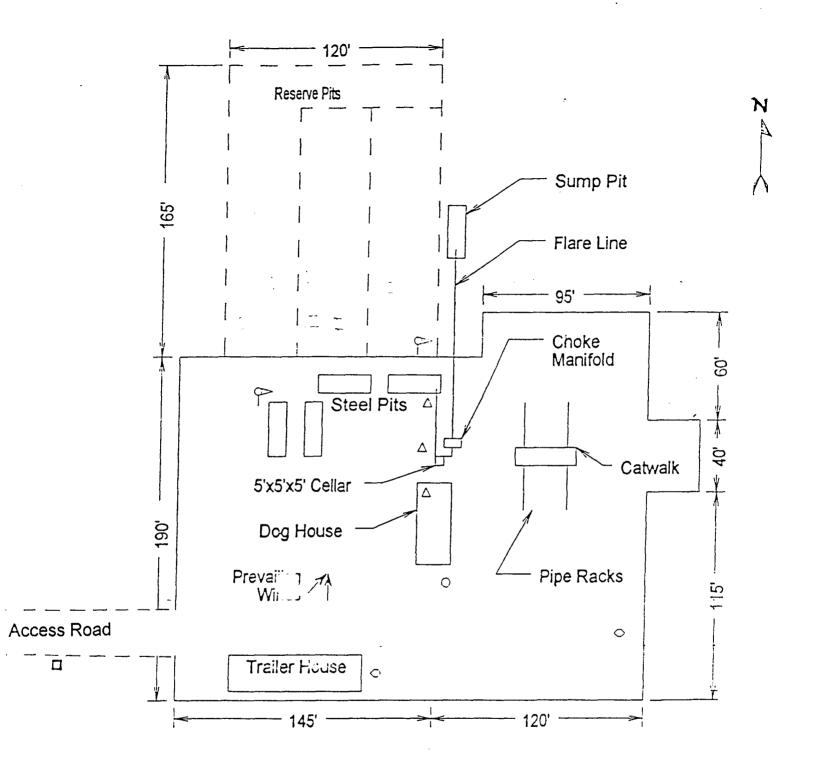
During and after construction:

POGO PRODUCING COMPANY
P.O. BOX 10340
MIDLAND, TEXAS 79702-7340
OFFICE Ph. 432-685-8100
Mr. RICHARD WRIGHT 432-685-8140

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.

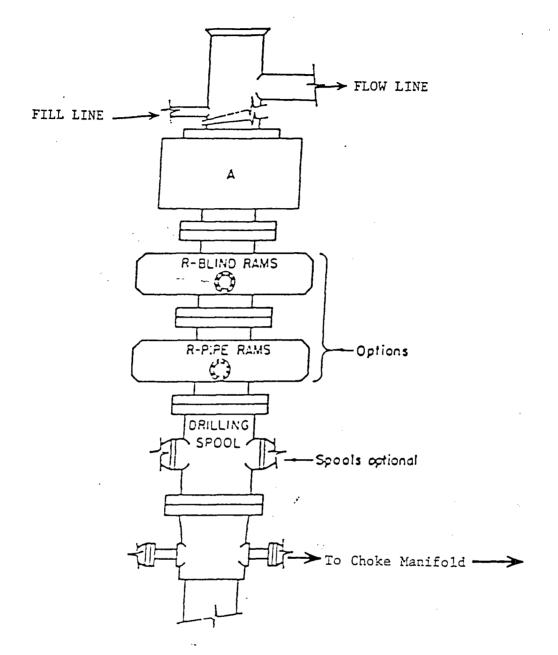
NAME : OCT James DATE : 09/27/04 TITLE : Agent





- 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

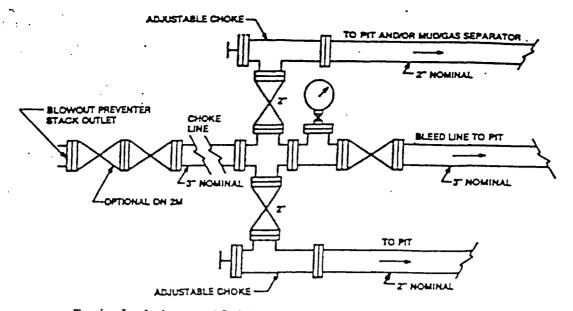
EXHIBIT "D"
RIG LAY OUT PLAT



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

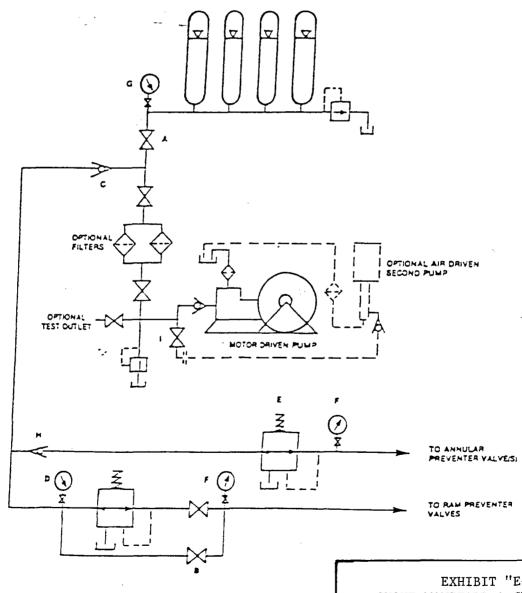


EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT