

N.M. Oil Cons. Div. Dist. 2  
301 W. Grand Avenue  
Artesia, NM 88210

FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995  
I-46

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK  
DRILL ☒ DEEPEN ☐ **River Bend**

b. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER ☐ **17891**  
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
POGO PRODUCING COMPANY (RICHARD WRIGHT 915-685-8140)

3. ADDRESS AND TELEPHONE NO.  
P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 (915-695-8100)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface  
1980' FNL & 990' FWL SECTION 10 T24S-R29E EDDY CO. NM  
At proposed prod. zone SAME  
**W E** JAN 27 2004

5. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
Approximately 6 miles East of Malaga New Mexico. **OCD-ARTESIA**

6. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any) 990'

7. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
1200'

8. ELEVATIONS (Show whether DF, RT, GR, etc.)  
2970' GR.

5. LEASE DESIGNATION AND SERIAL NO.  
NM-81616

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
**33366**

8. FARM OR LEASE NAME, WELL NO.  
CEDAR CANYON "10" FEDERAL # 1

9. API WELL NO.  
**30-015-33208**

10. FIELD AND POOL, OR WILDCAT  
UNDES CEDAR CANYON-BONE SPRING

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
SECTION 10 T24S-R29E

12. COUNTY OR PARISH  
EDDY CO.

13. STATE  
NEW MEXICO

22. APPROX. DATE WORK WILL START WHEN APPROVED

PROPOSED CASING AND CEMENTING PROGRAM				CARLSBAD CONTROLLED WATER BASIN
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
25"	Conductor	NA	40'	Cement to surface with Redi-mix.
17 1/2"	H-40 13 3/8"	48	550'	450 Sx. Circulate cement to surface
11"	J-55 8 5/8"	32	2900'	800 Sx. Circulate cement to surface
7 7/8"	J-55 5 1/2"	17 & 15.5	8200'	1250 Sx. 2 stage TOC est 2000' FS

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
  2. Drill 17 1/2" hole to 550'. Run and set 550' of 13 3/8" H-40 48# ST&C casing. Cement with 250 Sx. of 65/35/6 Class "C" POZ. tail in with 200 Sx. of Class "C" cement + 2% CaCl<sub>2</sub> + 1/2# Flocele/Sx. Circulate cement to surface.
  3. Drill 11" hole to 2900'. Run and set 2900' of 8 5/8" 32# J-55 ST&C casing. Cement with 600 Sx. of 65/35/6 Class "C" POZ + 5% Salt, tail in with 200 Sx. of Class "C" cement + 2% CaCl<sub>2</sub> + 1/2# Flocele/Sx. Circulate cement to surface.
  4. Drill 7 7/8" hole to 8200'. Run and set 8200' of 5 1/2" casing as follows: 2200' of 5 1/2" 17# J-55 LT&C, 5000' of 5 1/2" 15.5# J-55 LT&C, 1000' of 5 1/2" 17# J-55 LT&C casing. Cement in 2 stages DV Tool at 4500'±. Cement 1st stage with 650 Sx. of Class "C" cement + 8# Gilsonite/Sx. + other additives, cement 2nd stage with 600 Sx. of Class "C" cement + 8# Gilsonite/Sx. + other additives. Estimate top of cement 2000' from surface.
3. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or in directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Joe T. Jernica TITLE Agent APPROVAL SUBJECT TO 06/25/03  
GENERAL REQUIREMENTS  
AND SPECIAL STIPULATIONS  
ATTACHED

PERMIT NO. \_\_\_\_\_ 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:

APPROVED BY /s/ Joe G. Lara ACTING FIELD MANAGER DATE 26 JAN 2004

\*See Instructions On Reverse Side APPROVAL FOR 1 YEAR

**DISTRICT II**  
P.O. Drawer 88, Artesia, NM 88211-0088

# OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

**DISTRICT III**  
1000 Rio Brazos Rd., Artec, NM 87410

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

# WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code	Pool Name	
		11520	UNDES CEDAR CANYON-BONE SPRING	
Property Code	Property Name			Well Number
	CEDAR CANYON 10 FED			1
OGRID No.	Operator Name			Elevation
17891	POGO PRODUCING COMPANY			2970'

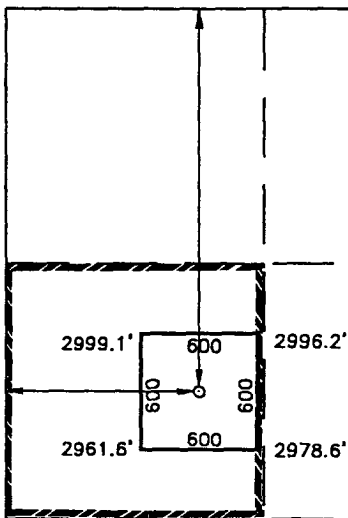
### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	10	24-S	29-E		1980'	NORTH	990'	WEST	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 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



**GEODETIC COORDINATES**  
**NAD 27 NME**  
 Y = 448994.8 N  
 X = 610100.9 E  
 LAT. 32°14'02.05"N  
 LONG. 103°58'38.13"W

### 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

06/25/03

Date \_\_\_\_\_

### SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

June 18, 2003

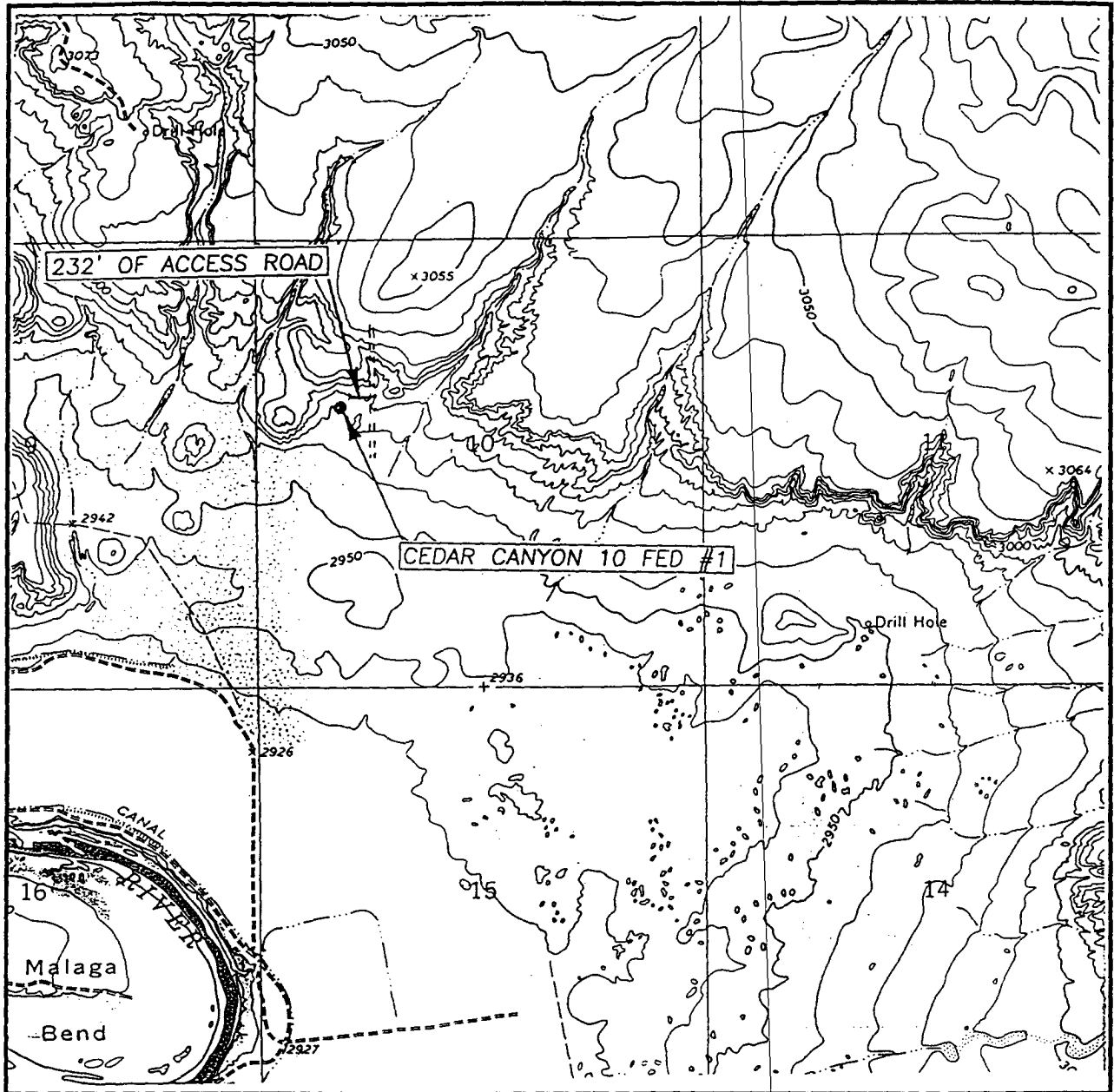
Date Surveyed: G. EIDSON A.W.B.  
Signature & Seal of  
Professional Surveyor

Samuelson 6/23/03  
03.TT.0625

Certificate No. RONALD J. EIDSON 3239  
GARY EIDSON 12641

EXHIBIT "A"

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'  
PIERCE CANYON

SEC. 10 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1980' FNL & 990' FWL

ELEVATION 2970'

OPERATOR POGO PRODUCING COMPANY

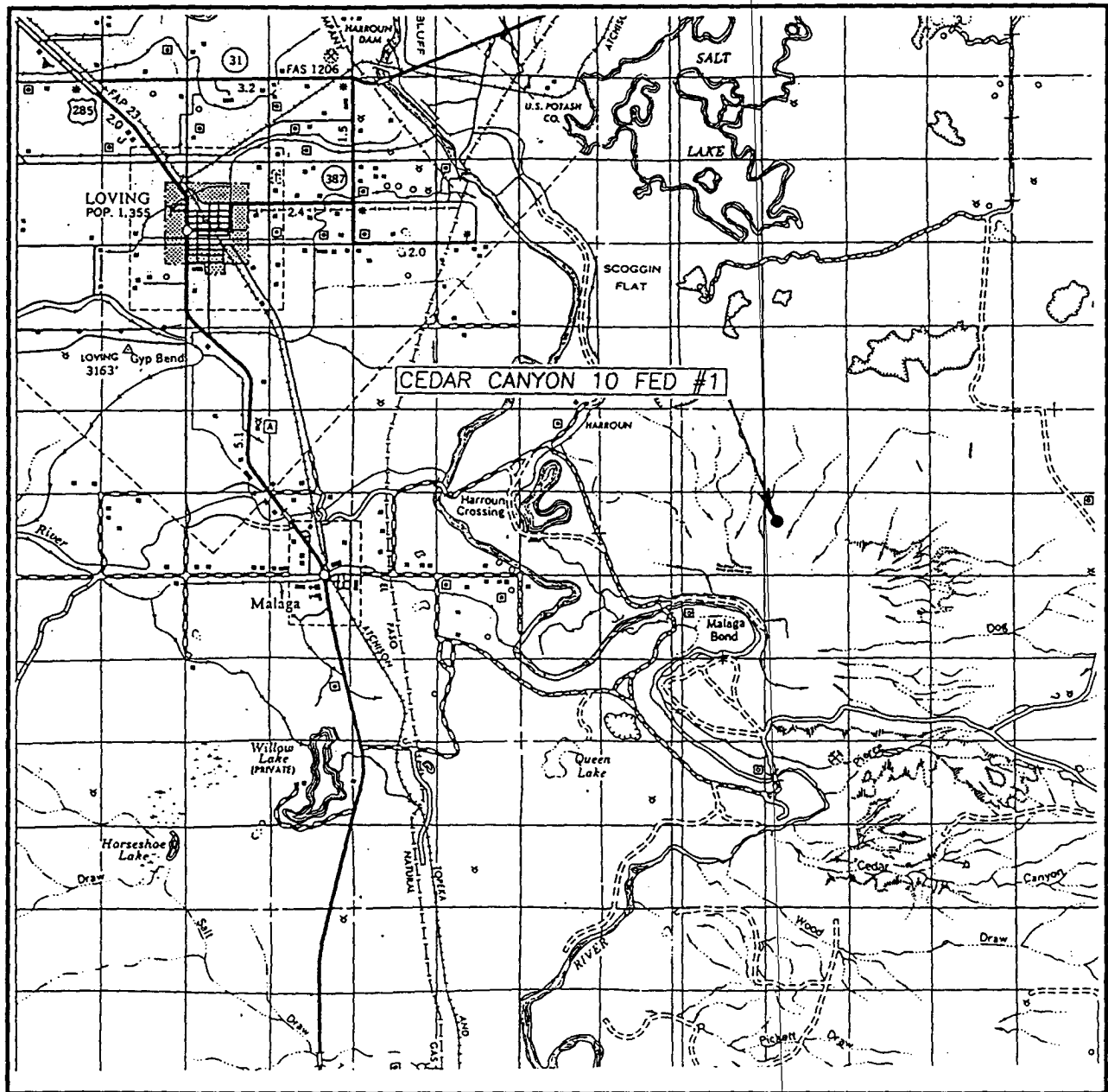
LEASE CEDAR CANYON 10 FED

U.S.G.S. TOPOGRAPHIC MAP

PIERCE CANYON, N.M.

JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505) 393-3117

# VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 10 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1980' FNL & 990' FWL

ELEVATION 2970'

OPERATOR POGO PRODUCING COMPANY

LEASE CEDAR CANYON 10 FED

JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505) 393-3117

## APPLICATION TO DRILL

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E 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: 1980' FNL & 990' FWL SECTION 10 T24S-R29E EDDY CO. NM
2. Elevation above Sea Level: 2970' GR.
3. Geologic name of surface formation: Quaternary Aeolian Deposits.
4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
5. Proposed drilling depth: 8200'
6. Estimated tops of geological markers:

Basal Anhydrite	2720'	Manzinita	3980'
Delaware Lime	2930'	Brushy Canyon	5050'
Bell Canyon	2960'	Bone Spring	6700'
Cherry Canyon	3830'	1st Bone Spring	7700'
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"	0-550	13 3/8"	48#	8-R	ST&C	H-40
11"	0-2900'	8 5/8"	32#	8-R	ST&C	J-55
7 7/8"	0-8200'	5½"	17 & 15.5	8-R	LT&C	J-55

## APPLICATION TO DRILL

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E EDDY 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 550' of 13 3/8" 48# H-40 ST&C casing. Cement with 250 Sx. of 65/35/6 Class "C" POZ, Gel, tail in with 200 Sx. of Class "C" cement + 2% CaCl. circulate.
8 5/8"	Intermeniate	Set 2900' of 8 5/8" 32# J-55 ST&C casing. Cement with 600 Sx. of 65/35/6 Class "C" POZ Gel + 5% Salt, tail in with 200 Sx. of Class "C" cement + 2% CaCl circulate cement to surface.
5 1/2"	Production	Set 8200' of 5 1/2" casing as follows: 2200' of 5 1/2" 17# J-55 LT&C, 5000' of 5 1/2" 15.5# J-55 LT&C, 1000' of 5 1/2" 17# J-55 LT&C. Cement in 2 stages. 1st stage cement with 650 Sx. of Class "C" cement + 8# Gilsonite/Sx. 2nd stage cement with 600 Sx. of Class "C" cement + 8# Gilsonite/Sx. Estimate top of cement 2000' from -surface.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams and bottom pipe rams. The B.O.P. will be nipped up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when 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
40-550'	8.4-8.7	29-34	NC	Fresh water spud mud use paper to control seepage.
550-2900'	10.1-10.3	29-38	NC	Brine water use paper to control seepage and high viscosity sweeps to clean hole.
2900-8200'	8.4-8.7	29-40	*	Fresh water use high viscosity sweeps to clean hole.

\* Water loss may have to be controled in order to run open hole logs, DST's and casing. If this is necessary use a Polymer mud system to accomplish this.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, and casing viscosity and/or water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E EDDY CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: Dual Induction, SNP, LDT, Gamma Ray, Caliper from TD back to 8 5/8" casing shoe.
- B. Run Gamma Ray, Neutron from 8 5/8" casing shoe back to surface.
- C. Mud logger on hole at 2900' and remain on hole to TD.
- D. DST's and cores may be taken as shows dictate.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H<sup>2</sup>S in this area. If H<sup>2</sup>S 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 4200 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 20 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 potentialized 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 hazards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H<sub>2</sub>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. 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" & "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.



## 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 separator will be brought into service along with  $H_2S$  scavengers if necessary.

## SURFACE USE PLAN

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E EDDY CO. NM

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 Malaga New Mexico take Co Road # 720 East for .8 miles, turn left (North) go on Co Road 745 go 1 mile and turn right (East) follow road 2.1 miles to Co. Road 788 Turn right (South) go 1.2 miles bear left go .6 miles bear right follow road 1.5 miles bear left go past a compressor station on the left side of road continue go past well in the right of road, cross cattle guard go North-east for .6 miles turn left go 500-' turn left and go to location.
  - C. Exhibit "F" shows the R-O-W for a powerline to be constructed if well is completed as a producer.
2. PLANNED ACCESS ROADS: Approximately 400' 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.
  - B. 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 minimum 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 utilize 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 - 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"

## SURFACE USE PLAN

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E EDDY CO. NM

4. If on completion this well is a producer a powerline will be constructed along the route shown on Exhibit "F". At this time it is anticipated that production facilities will be constructed on location.

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 quarters 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.

## SURFACE USE PLAN

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E 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.

SURFACE USE PLAN

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E 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. There are no dwellings in the near vicinity of this location.

12. OPERATORS REPRESENTATIVES:

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 familiar 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<sup>2</sup> 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 : Joe T. Janica  
DATE : 06/25/03  
TITLE : Agent



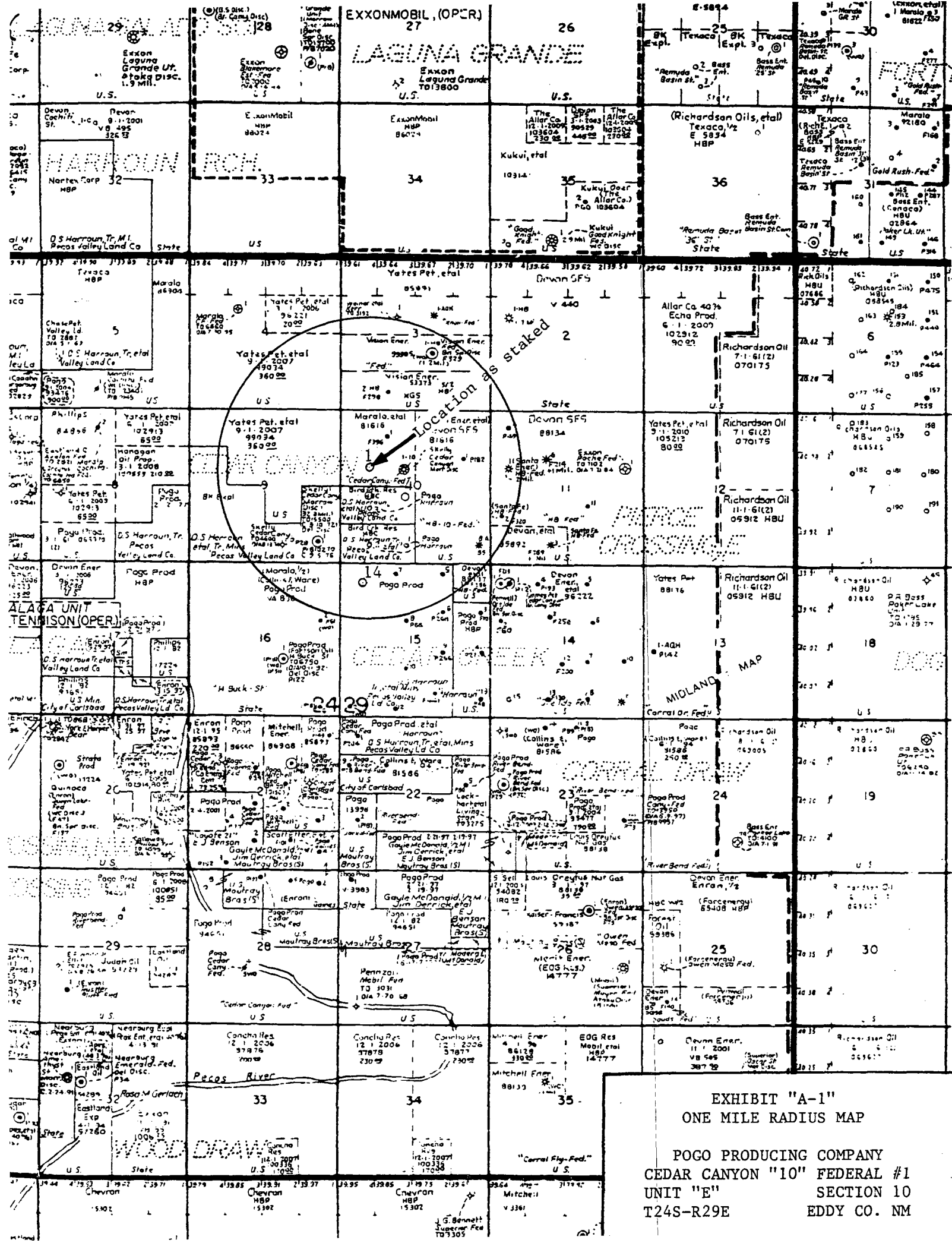


EXHIBIT "A-1"  
ONE MILE RADIUS MAP

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E EDDY CO. NM

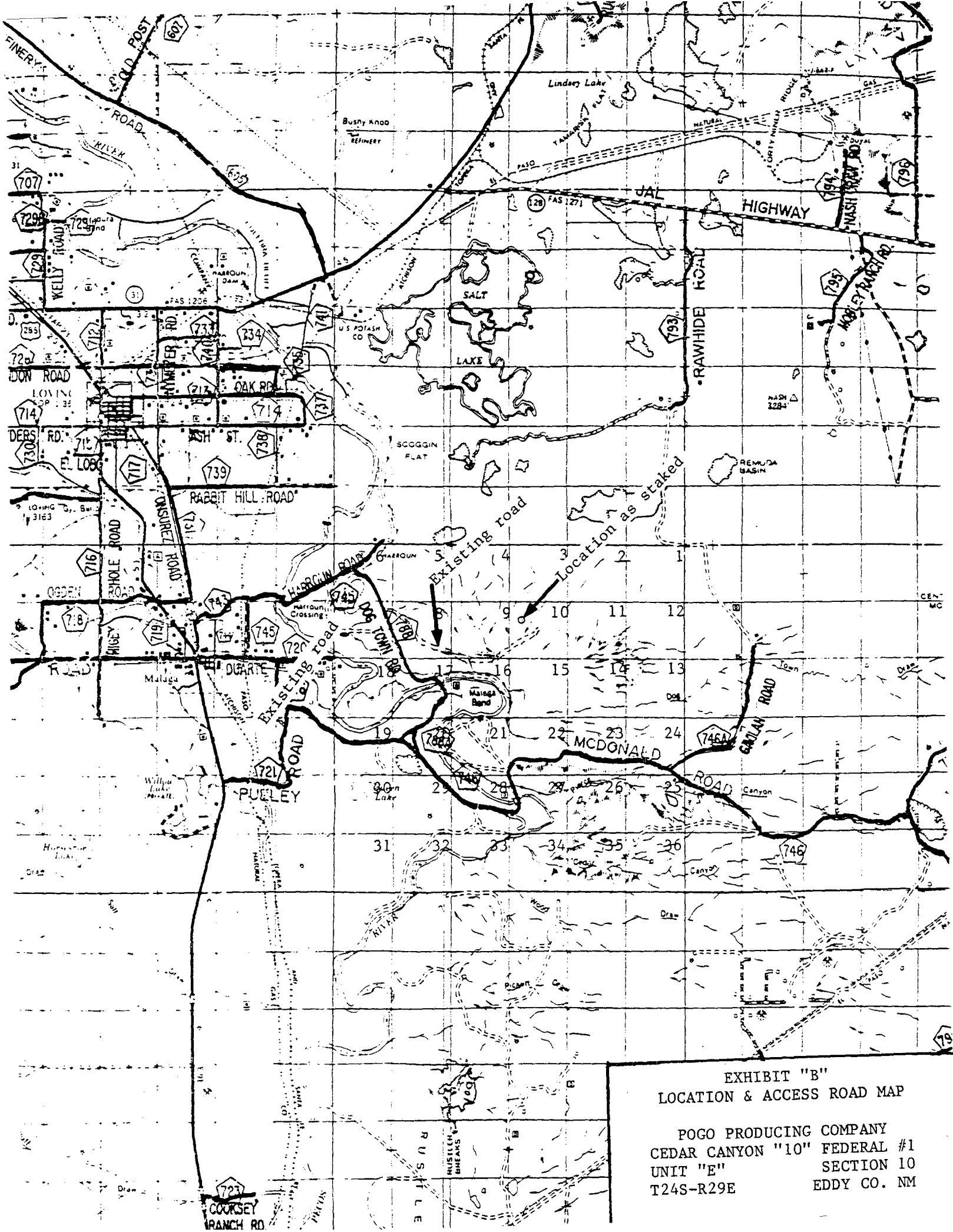
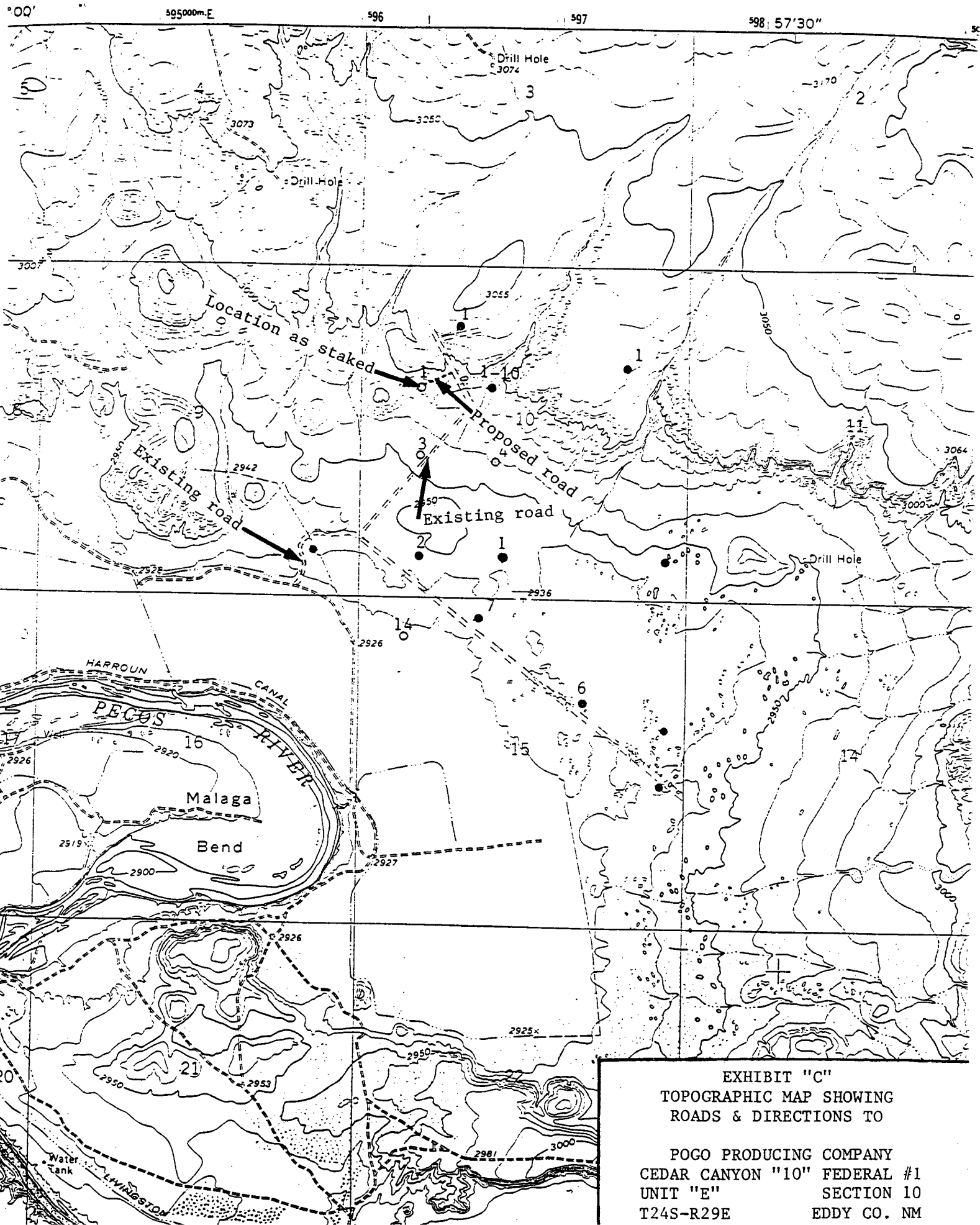


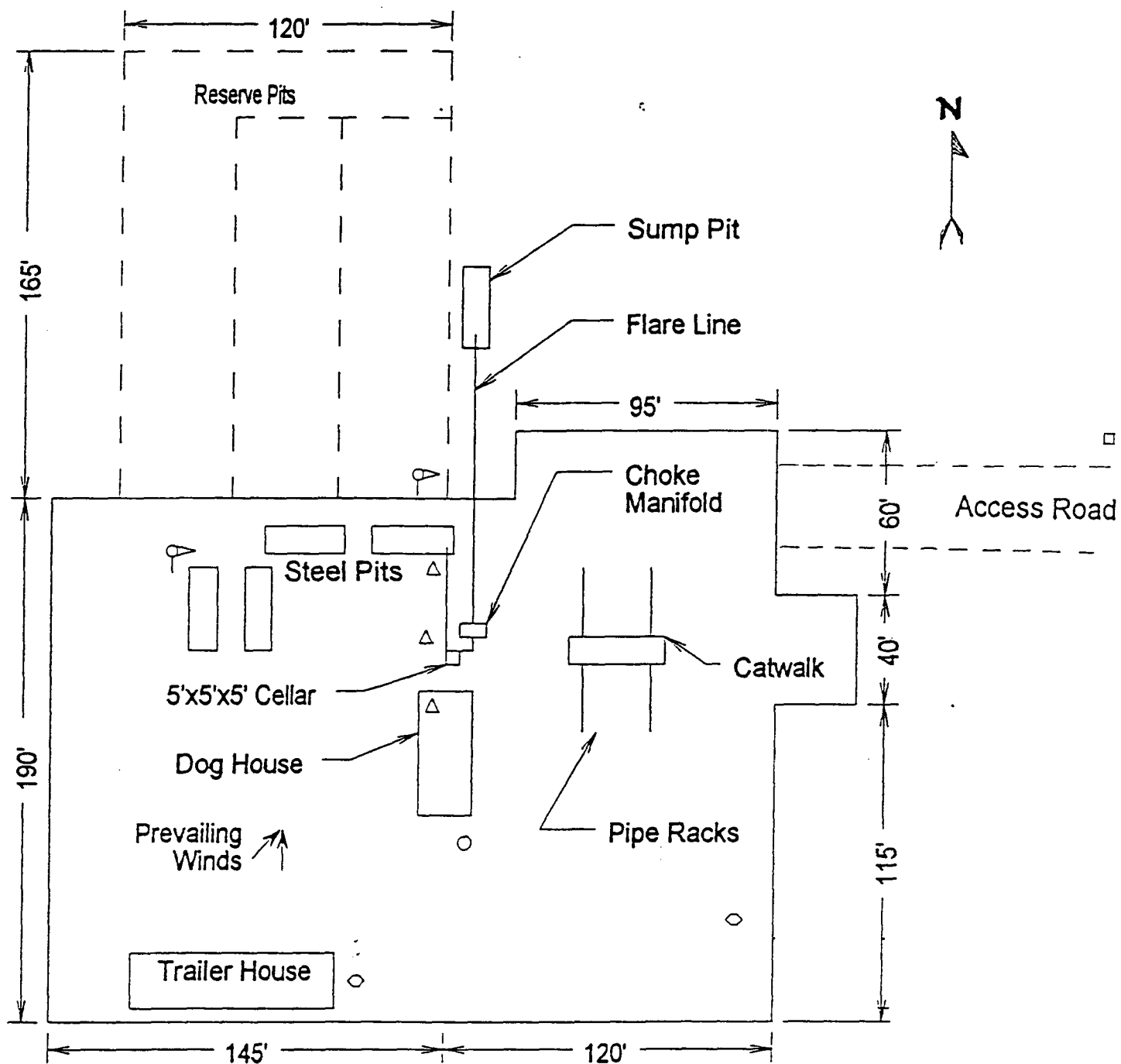
EXHIBIT "B"  
LOCATION & ACCESS ROAD MAP

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E EDDY CO. NM

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



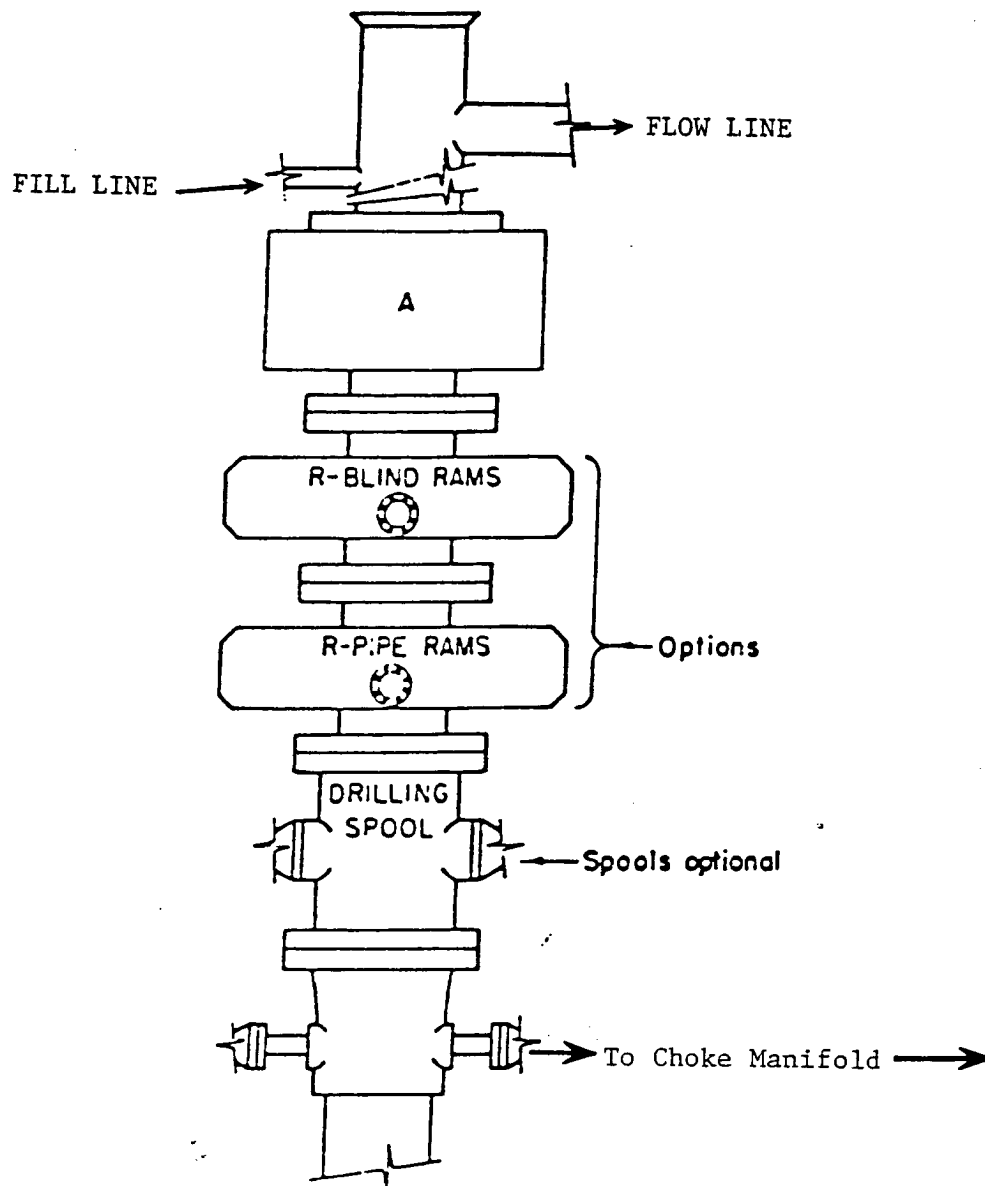




- ⚙ Wind Direction Indicators  
(wind sock or streamers)
- △ H2S Monitors  
(alarms at bell nipple and shale shaker)
- Briefing Areas
- Remote BOP Closing Unit
- Sign and Condition Flags

EXHIBIT "D"  
RIG LAY OUT PLAT

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E EDDY CO. NM

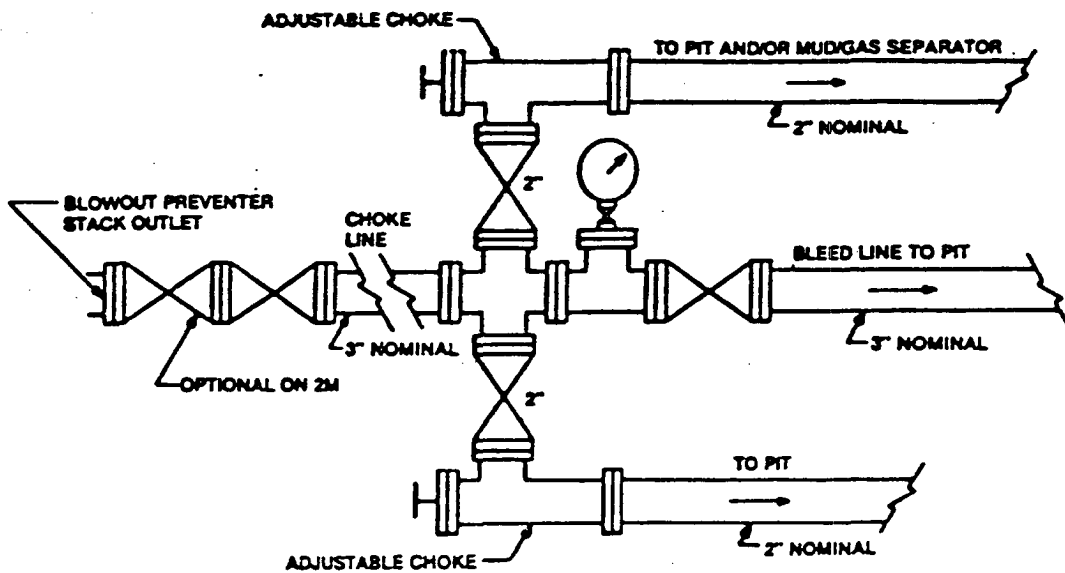


### ARRANGEMENT SRRA

900 Series  
3000 PSI WP

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

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E EDDY CO. NM



Typical choke manifold assembly for 3M WP system

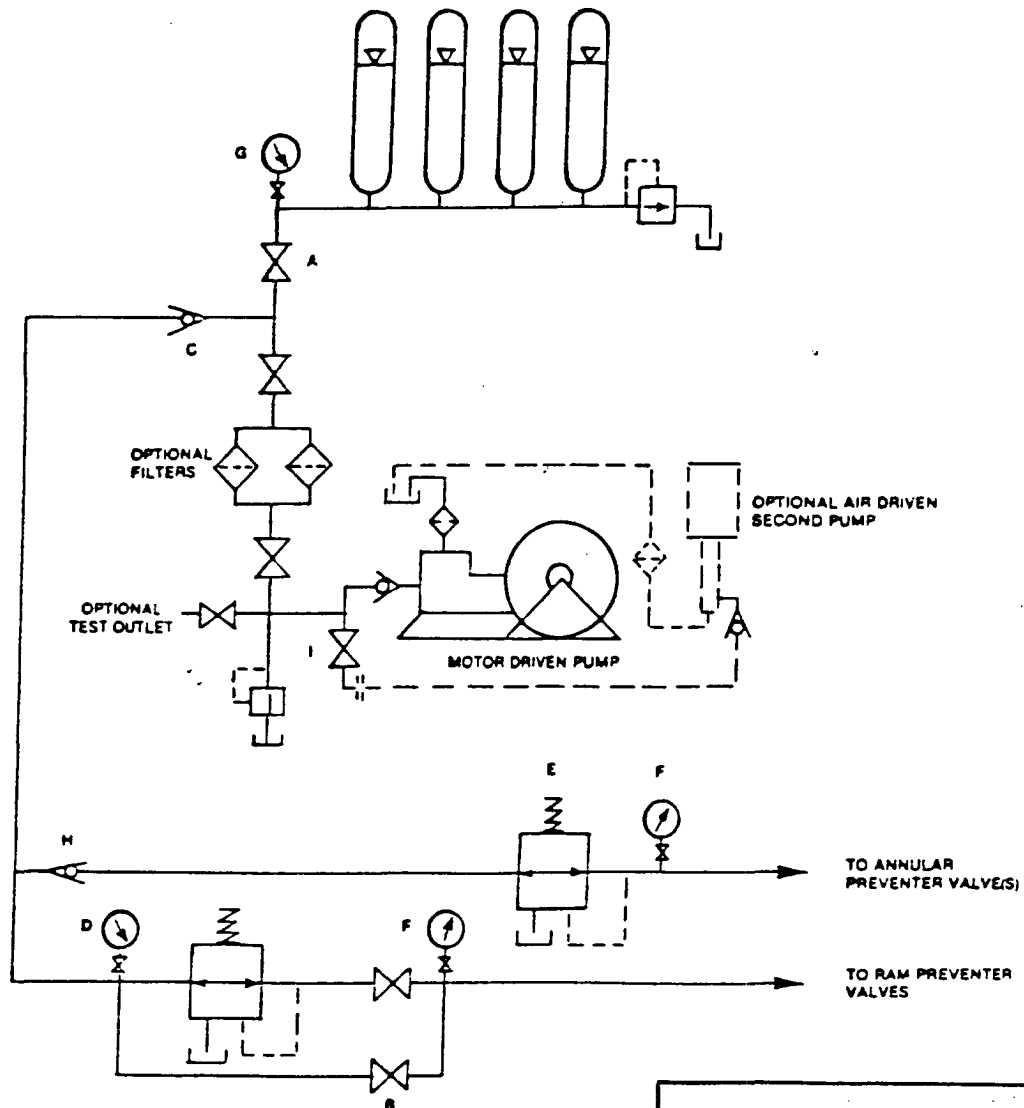
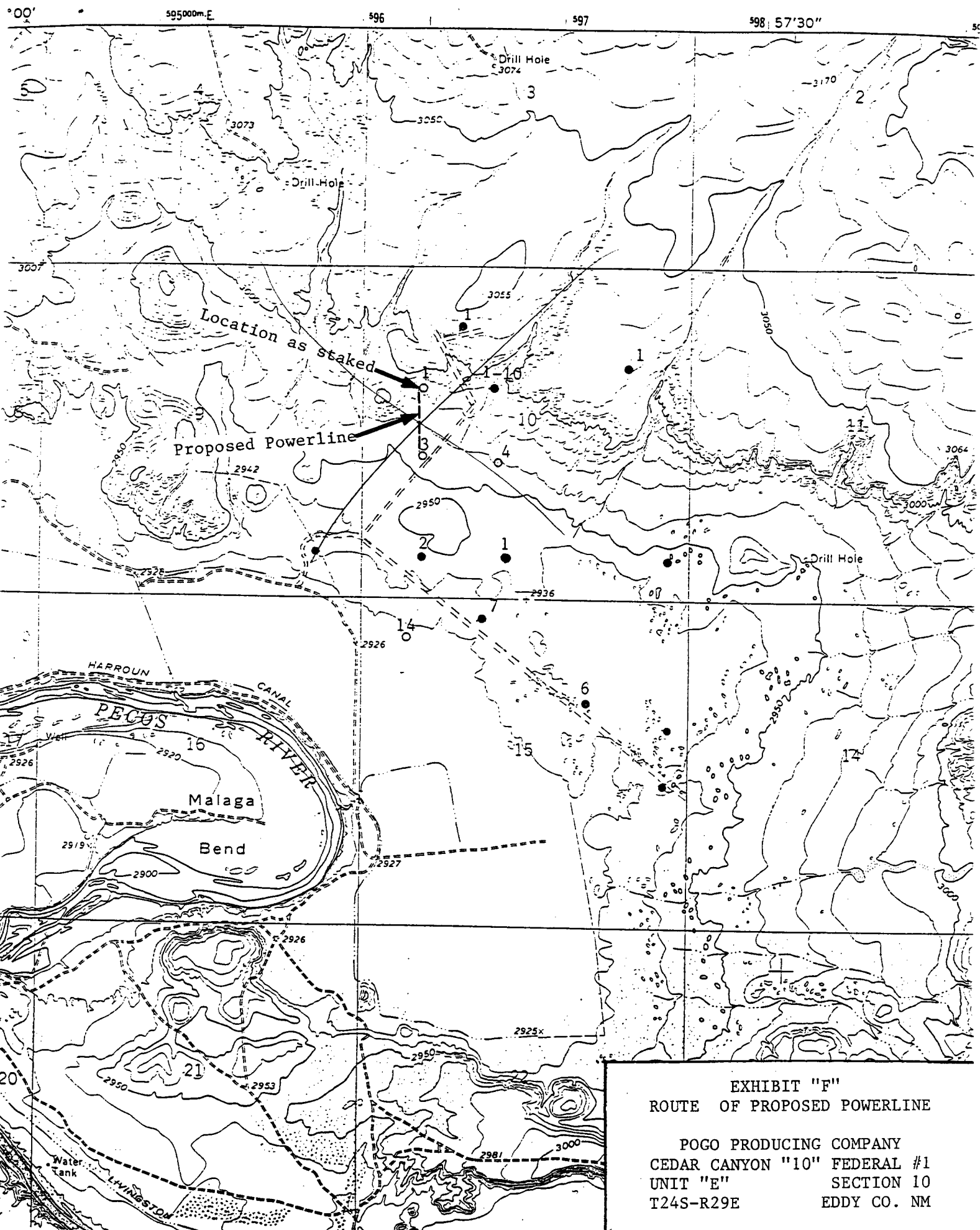


EXHIBIT "E-1"  
CHOKE MANIFOLD & CLOSING UNIT

POGO PRODUCING COMPANY  
CEDAR CANYON "10" FEDERAL #1  
UNIT "E" SECTION 10  
T24S-R29E EDDY CO. NM

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

OPERATOR NAME: POGO PRODUCING COMPANY

ADDRESS: P.O. BOX 10340

CITY,STATE, & ZIP: MIDLAND, TEXAS 79702-7340

The above operator accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below.

Lease No: NM-81616

Well name: RIVER BEND "10" FEDERAL #1

Legal Description of land: SW/4 of NW/4 SECTION 10 T24S-R29E EDDY CO. NM

Bond coverage: BLANKET

B.L.M. Bond File No.: WY-0405

Authorized Signature

*Joe T. Garcia*

Title: Agent

Date: 01/20/04