

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL  DEEPEN

b. TYPE OF WELL

OIL WELL  GAS WELL  OTHER  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 915-685-8100

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface  
1980' FNL & 330' FWL SEC. 35 T22S-R32E LEA CO. NM  
At proposed prod. zone SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 30 miles East of Carlsbad New Mexico.

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

330'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

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

1320'

19. PROPOSED DEPTH

9100'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3700' GR.

22. APPROX. DATE WORK WILL START\*

WHEN APPROVED

PROPOSED CASING AND CEMENTING

**CARLSBAD CONTROLLED WATER BASIN**

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
25"	20" Conductor	NA	40'	Cement to surface with Redi-mix
17 1/2"	H-40 13 3/8"	48	800' <sup>1125</sup>	840 Sx. circ. <sup>1125</sup> surface
11"	J-55 8 5/8"	32	4700'	1500 Sx. " <sup>1125</sup> "
7 7/8"	J-55 5 1/2"	17 & 15.5	9100'	2000 Sx. (2 stages) TOC 3500'

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 <sup>1125</sup> 800'. Run and set <sup>1125</sup> 800' of 13 3/8" H-40 48# ST&C casing, cement with 840 Sx. of Class "C" cement + additives, circulate cement to surface.
3. Drill 11" hole to 4700'. Run and set 4700' of 8 5/8" 32# J-55 ST&C casing. Cement with 1500 Sx. of Class "C" cement + additives, circulate cement to surface.
4. Drill 7 7/8" hole to 9100'. Run and set 9100' of 5 1/2" casing as follows: 3100' of 5 1/2" 17# N-80 LT&C, 5000' of 5 1/2" 15.5# J-55 LT&C, 1000' of 5 1/2" 17# N-80 LT&C. Cement in two stages DV tool at 6000'±. Cement first stage with 1000 Sx. of Class "H" + additives, second stage cement with 1000 Sx. of Class "C" cement + additives estimate top of cement 3500' from surface.

**APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS**

OPER. OGRID NO. 17891  
PROPERTY NO. 13275  
POOL CODE 51683  
EFF. DATE 2-22-01  
API NO. 30-025-35418

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data or deepen directionally, give pertinent data on ~~location~~ and measured and true vertical d

tone. If proposal is to drill or

SIGNED Scott Janice TITLE Agent DATE 11/14/00

(This space for Federal or State office use)

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 \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

\*See Instructions On Reverse Side

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

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

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

DISTRICT IV  
P.O. Box 2088, Santa Fe, NM 87504-2088

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

OIL CONSERVATION DIVISION

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-35418</b>		Pool Code 51683	Pool Name RED TANK-BONE SPRING
Property Code 13275	Property Name RED TANK "35" FEDERAL		Well Number 2
OGRID No. 17891	Operator Name POGO PRODUCING COMPANY		Elevation 3700

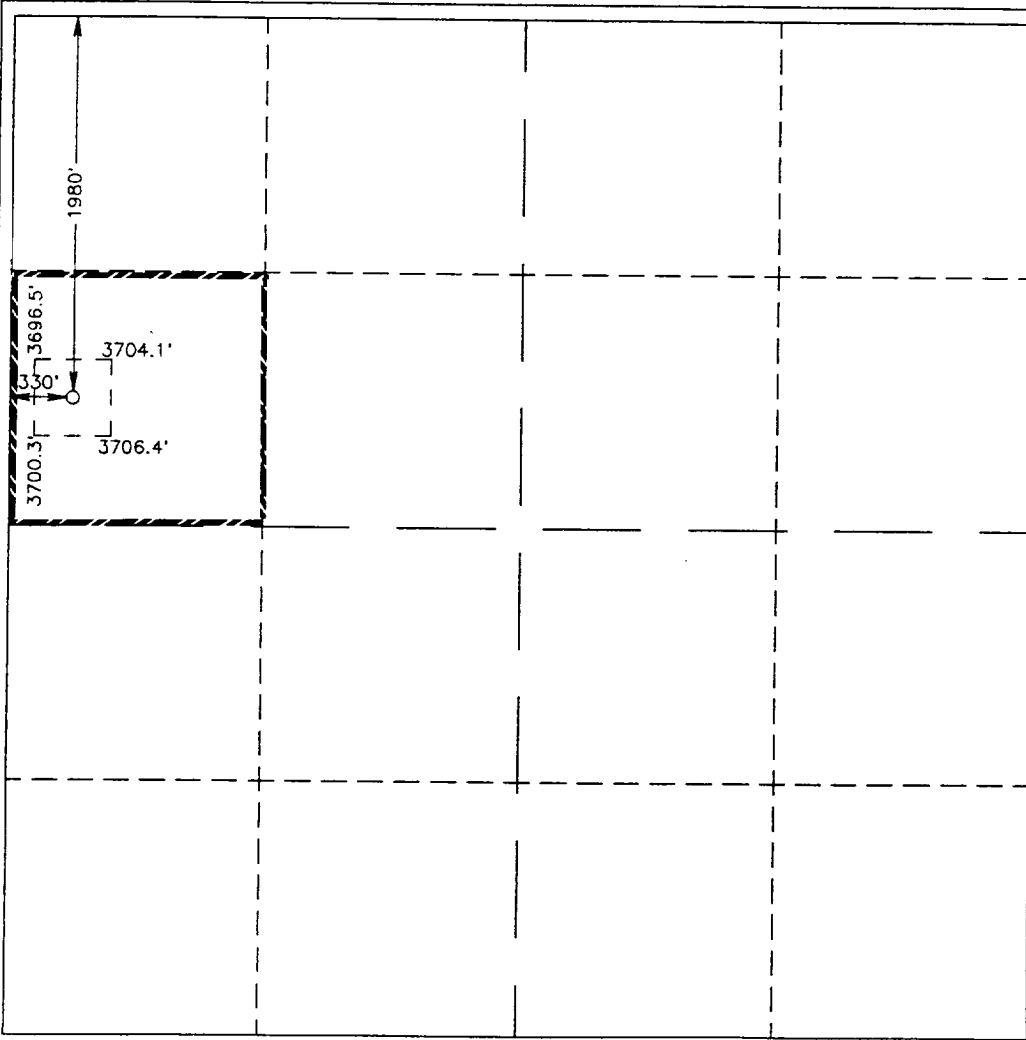
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	35	22 S	32 E		1980	NORTH	330	WEST	LEA

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



**OPERATOR CERTIFICATION**

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

*Joe T. Janica*  
Signature  
Joe T. Janica  
Printed Name  
Agent  
Title  
11/14/00  
Date

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**SURVEYOR CERTIFICATION**

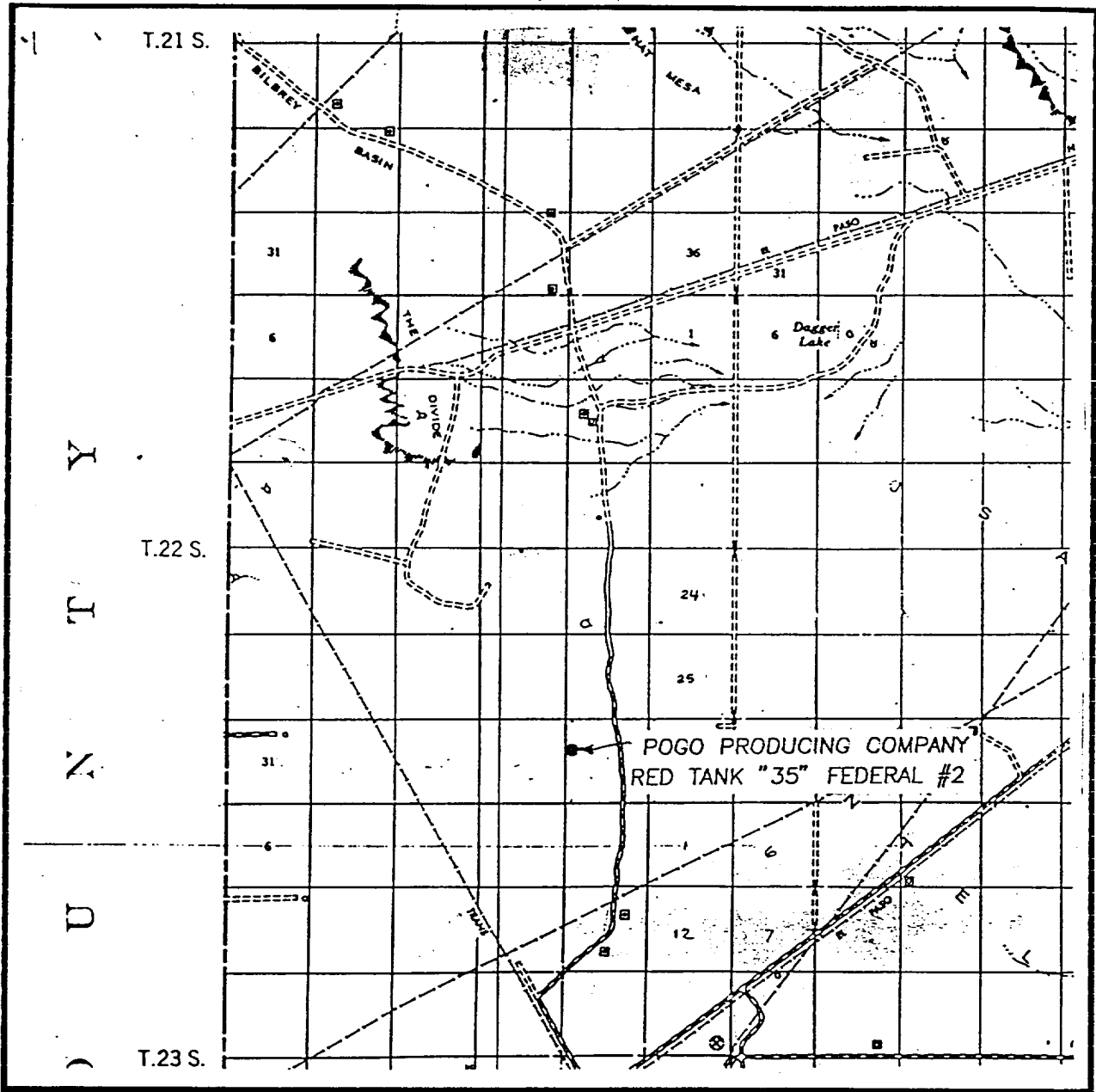
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 1, 2000  
Date Surveyed JLP

Signature & Seal of Professional Surveyor.  
*Ronald J. Eidson*  
W.O. Num. 00-11358

Certificate No. RONALD J. EIDSON, 3239  
PROFESSIONAL SURVEYOR EIDSON, 12641

# VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 35 TWP. 22-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1980' FNL & 330' FWL

ELEVATION 3700

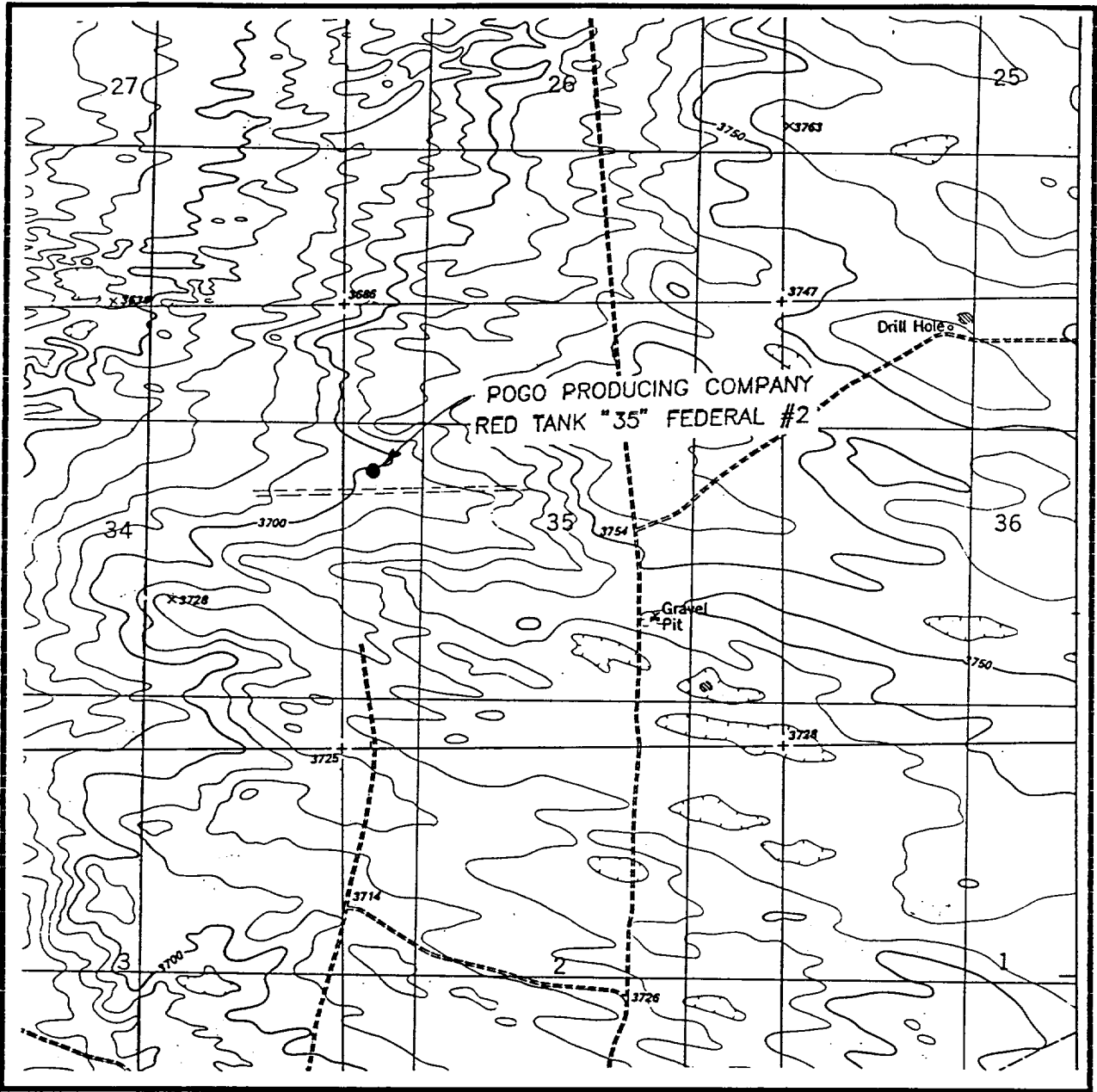
OPERATOR POGO PRODUCING COMPANY

LEASE RED TANK "35" FEDERAL

**JOHN WEST SURVEYING  
HOBBS, NEW MEXICO**

**(505) 393-3117**

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL - 10'

SEC. 35 TWP. 22-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1980' FNL & 330' FWL

ELEVATION 3700

OPERATOR POGO PRODUCING COMPANY

LEASE RED TANK "35" FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

BOOTLEG RIDGE, N.M.

**JOHN WEST SURVEYING  
HOBBS, NEW MEXICO**

**(505) 393-3117**

APPLICATION TO DRILL

POGO PRODUCING COMPANY  
 RED TANK "35" FEDERAL # 2  
 UNIT "E" SECTION 35  
 T22S-R32E LEA CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

1. Location: 1980' FNL & 330' FWL SEC. 35 T22S-R32E LEA CO. NM
2. Elevation above Sea Level: 3700' 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: 9100'
6. Estimated tops of geological markers:

Rustler Anhydrite	790'	Brushy Canyon	7380'
Delaware Lime	4775'	Bone Spring	8825'
Cherry Canyon	6075'		

7. Possible mineral bearing formations:

Delaware	Oil
Bone Spring	Oil

8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25"	0-40	20	NA	NA	NA	Conductor
17½"	0-800'	13 3/8"	48	8-R	ST&C	H-40
11"	0-4700'	8 5/8"	32	8-R	ST&C	J-55
7 7/8"	0-9100'	5½"	17 & 15.5	8-R	LT&C	N-80 & J-55

APPLICATION TO DRILL

POGO PRODUCING COMPANY  
 RED TANK "35" FEDERAL # 2  
 UNIT "E" SECTION 35  
 T22S-R32E LEA CO. NM

9. Cementing and Setting Depth:

20"	Conductor	Set 40' of 20" conductor pipe 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 840 Sx. of Class "C" cement + additives, circulate cement to surface.
8 5/8"	Intermediate	Set 4700' of 8 5/8" 32# J-55 ST&C casing. Cement with 1500 Sx. of Class "C" cement + additives, circulate cement to surface.
5 1/2"	Production	Set 9100' of 5 1/2" casing as follows: 3100' of 5 1/2" 17# N-80 LT&C, 5000' of 5 1/2" 15.5# J-55 LT&C, 1000' of 5 1/2" 17# N-80 LT&C casing. Cement in Two stages, DV Tool at 6000'±. Cement first stage with 1000 Sx. of Class "H" cement + additives, Cement second stage with 1000 Sx. of Class "C" cement + additives, estimate top of cement 3500' from surface.

10. Pressure Control Equipment: Exhibit "E". A 900 Series 1500 PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor. BOP unit will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. BOP will be nipped up on 13 3/8" casing and will be operated at least once each 24 Hr. period while drilling and blind rams will be operated when out of hole during trips. Flow sensor, PVT, full opening stabbing valve and upper kelly cock will be utilized. No abnormal pressure or temperature is expected while drilling.

11. Proposed Mud Circulating System:

Depth	Mud Wt.	Visc,	Fluid Loss	Type Mud
40-800'	8.6-8.8	29-34	NC	Fresh water spud mud adding paper to control seepage.
800-4700'	10.1-10.3	29-34	NC	Brine water using paper to control seepage and high viscosity sweeps to clean hole.
4700-9100'	8.5-8.7	29-38	NC	Fresh water use paper to control seepage and high viscosity sweeps to clean hole.

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

APPLICATION TO DRILL

POGO PRODUCING COMPANY  
RED TANK "35" FEDERAL # 2  
UNIT "E" SECTION 35  
T22S-R32E LEA CO. NM

12. Testing, Logging and Coring Program:

- A. Open hole logs: Dual - Induction, SNP-Density, Gamma Ray, caliper from TD to 4700'.
- B. Run Gamma Ray, Neutron from 4700' to surface.
- C. Mud logger on hole from 4700' to TD.
- D No cores or DST's are planned at this time.

13. Potential Hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H<sub>2</sub>S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 4250 PSI, estimated BHT 160° .

14. Anticipated Starting Date and Duration of Operation:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 28 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15. Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The BONE SPRING pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.

## HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and 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"
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<sub>2</sub>S has on tubular goods and other mechanical equipment.
9. If H<sub>2</sub>S 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<sub>2</sub>S scavengers if necessary.

SURFACE USE PLAN

POGO PRODUCING COMPANY  
RED TANK "35" FEDERAL # 2  
UNIT "E" SECTION 35  
T22S-R32E LEA CO. NM

1. EXISTING ROADS. Area map, Exhibit "B" is a reproduction of the New Mexico General Hi-way Co. Map. Exhibit "C" is a reproduction of a topographic map. Existing roads and proposed roads are shown on each exhibit. All roads will be maintained in a condition equal to or better than existed prior to start of construction.
  - A. Exhibit "A" shows the proposed development well as staked.
  - B. From Hobbs New Mexico take U.S. High-Way 62-180 West toward Carlabad NM. go 38 miles to Co. Road C-29, turn South go 14 miles to Mills Ranch Road turn East and follow well traveled road for 5.2 miles turn Southeast go 1.7 miles to Pogo Red Tank "34" Fed. # 1. Turn Southeast go .3 miles turn East go .2 miles and location is on the North side of road.
  - C. Pipelines that are necessary for oil, gas & water transportation to central battery will be laid along existing R-O-W or along road R-O-W. Powerlines necessary to furnish power to produce this lease will be constructed along road or existing R-O-W.
  
2. PLANNED ACCESS ROADS - Approximately 100 ' of new road will be constructed.
  - A. the access road will be crowned and ditched to a 12'00" wide travel surface with a 40' right-of-way.
  - B. Gradient on all roads will be less tha 5.00%.
  - C. No turnouts will be 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 Lopography.
  
3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"
  - A. Water wells - One approximately 1.75 miles Northwest.
  - 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  
RED TANK "35" FEDERAL # 2  
UNIT "E" SECTION 35  
T22S-R32E LEA CO. NM

4. If, upon completion, the well is a producer, Pogo Producing Company will furnish maps or plats showing On Well Pad facilities and Off Well Pad facilities (if needed) on a Sundry Notice before construction of these facilities starts.

5. LOCATION AND TYPE OF WATER SUPPLY

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

6. SOURCE OF CONSTRUCTION MATERIALS

If needed, construction materials will be obtained from the drill site's excavations or from a local source. These materials will be transported over the access route as shown on Exhibit "C".

7. METHODS FOR HANDLING WASTE DISPOSAL

- A.
  1. Drill cuttings will be disposed of in the reserve pit.
  2. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and deposited in an approved sanitary landfill.
  3. Salts remaining after completion of the well will be picked up by the supplier, including broken sacks.
  4. Sewage from trailer houses will drain into holes with minimum depth of 10'00". These holes will be covered during drilling and backfilled upon completion. A "porta John" will be provided for the rig crews. This will be properly maintained during the drilling operations and removed upon completion of the well.
- B. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for backfilling. In the event drilling fluids will not evaporate in a reasonable period of time they will be transported by tank truck to a state approved disposal site. Pits will then be broken out to speed drying.

Water produced during testing of the well will be disposed of in the reserve pit. Oil produced during testing of the well will be stored in test tanks until sold and hauled from the site.

8. ANCILLARY FACILITIES

No camps or airstrips will be constructed.

POGO PRODUCING COMPANY  
RED TANK "35" FEDERAL # 2  
UNIT "E" SECTION 35  
T22S-R32E LEA CO. NM

## 9. WELL SITE LAYOUT

- A. Exhibit "D" shows location and rig layout.
- B. This exhibit indicates proposed location of reserve and trash pits; and living facilities.
- C. Mud pits in the active circulating system will be steel pits and 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 PVC or polyethylene line. 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 recountered 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  
RED TANK "35" FEDERAL # 2  
UNIT "E" SECTION 35  
T22S-R32E LEA CO. NM

11. OTHER INFORMATION:

- A. Topography consists of sand dunes with a slight dip toward the West. Deep sandy soil supports native grasses, mesquite, and shinnery Oak.
- B. Surface is owned by the Bureau of Land Management U.S. Department of Interior. Surface is used for grazing of livestock and is leased to ranchers for this purpose.
- C. An archaeological survey will be conducted and copies of the survey will be filed in the Carlsbad Office of The Bureau of Land Management.
- D. There are no dwellings or habitation within three miles of this location.

12. OPERATORS REPRESENTATIVE:

Before construction:

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

During and after construction:

POGO PRODUCING COMPANY  
P.O. BOX 10340  
MIDLAND, TEXAS 79702-7340  
OFFICE PHONE 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 route; 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 with the operations proposed herein will be performed by Pogo Producing company, its contractors/subcontractors is in the conformity 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 statement.

NAME : Joe T Janica  
DATE : 11/14/00  
TITLE : Agent

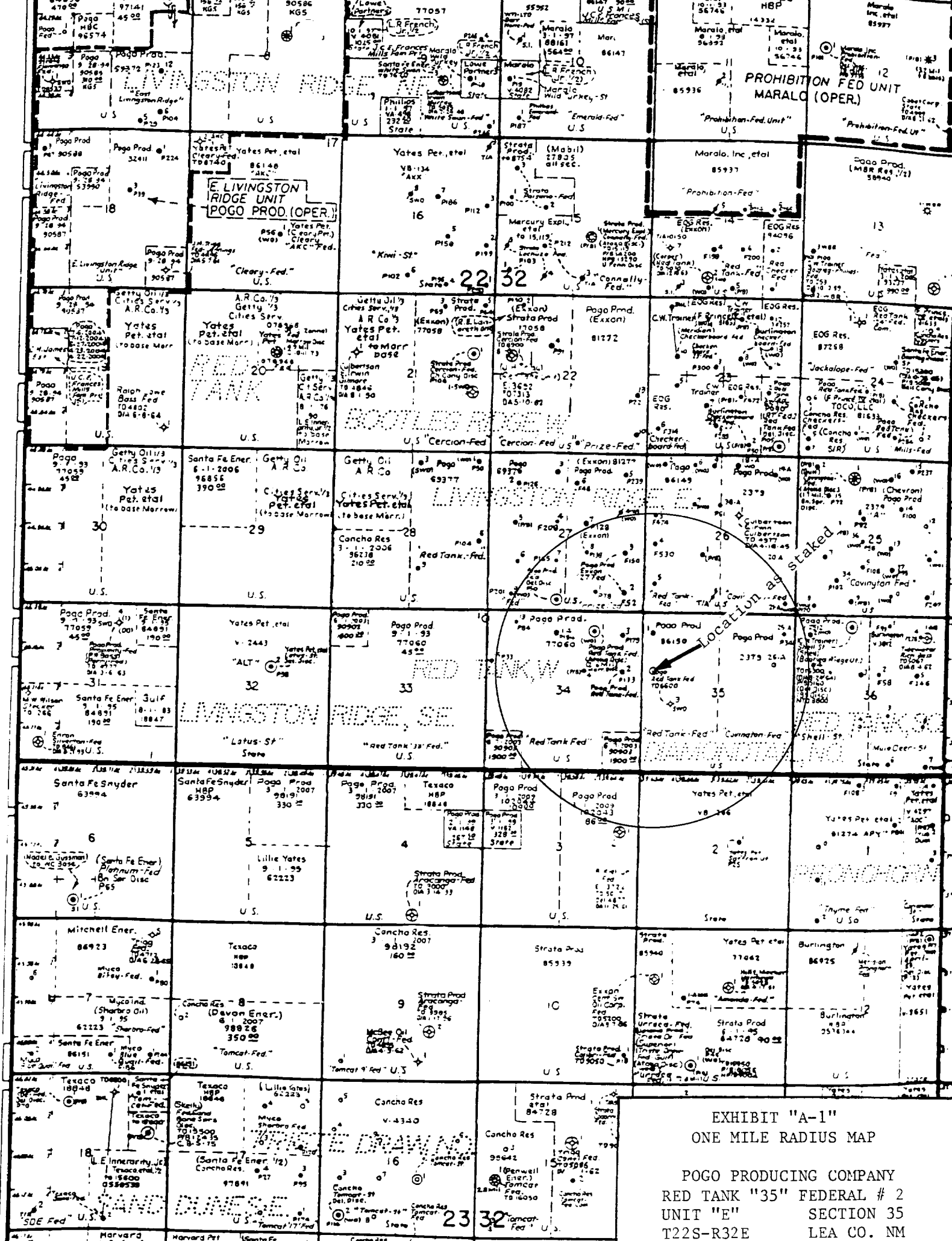


EXHIBIT "A-1"  
 ONE MILE RADIUS MAP  
 POGO PRODUCING COMPANY  
 RED TANK "35" FEDERAL # 2  
 UNIT "E" SECTION 35  
 T22S-R32E LEA CO. NM

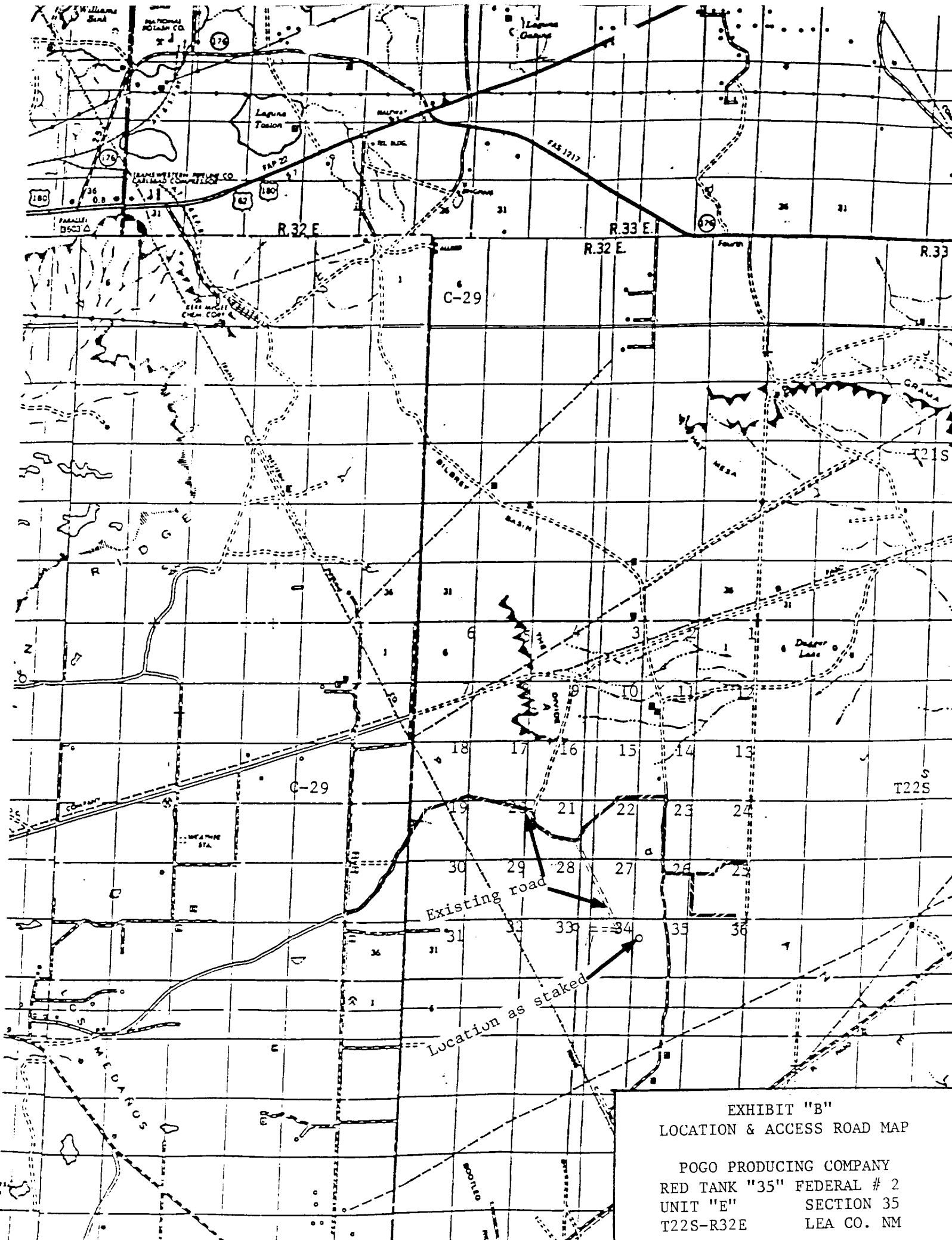


EXHIBIT "B"  
LOCATION & ACCESS ROAD MAP

POGO PRODUCING COMPANY  
 RED TANK "35" FEDERAL # 2  
 UNIT "E" SECTION 35  
 T22S-R32E LEA CO. NM

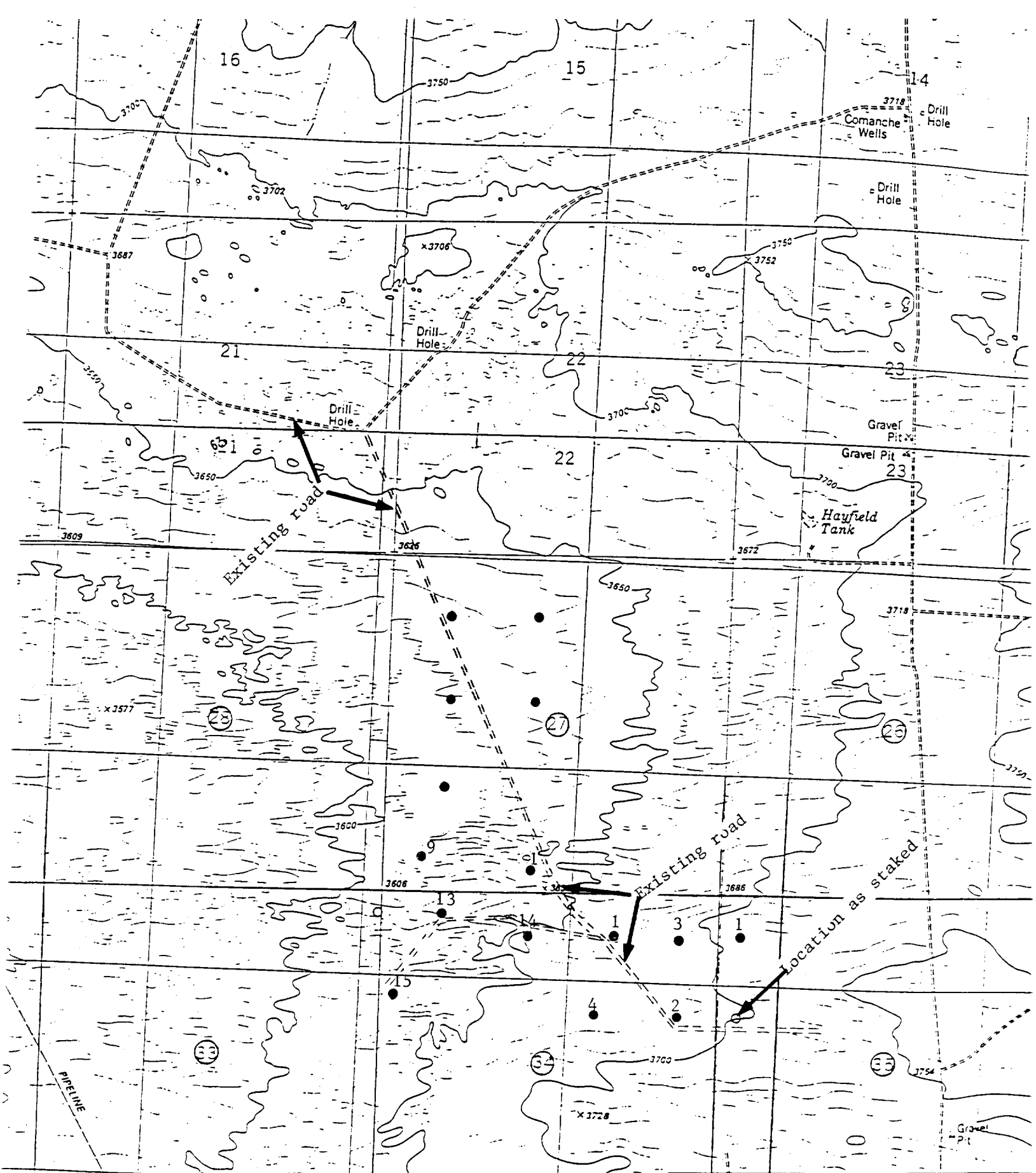
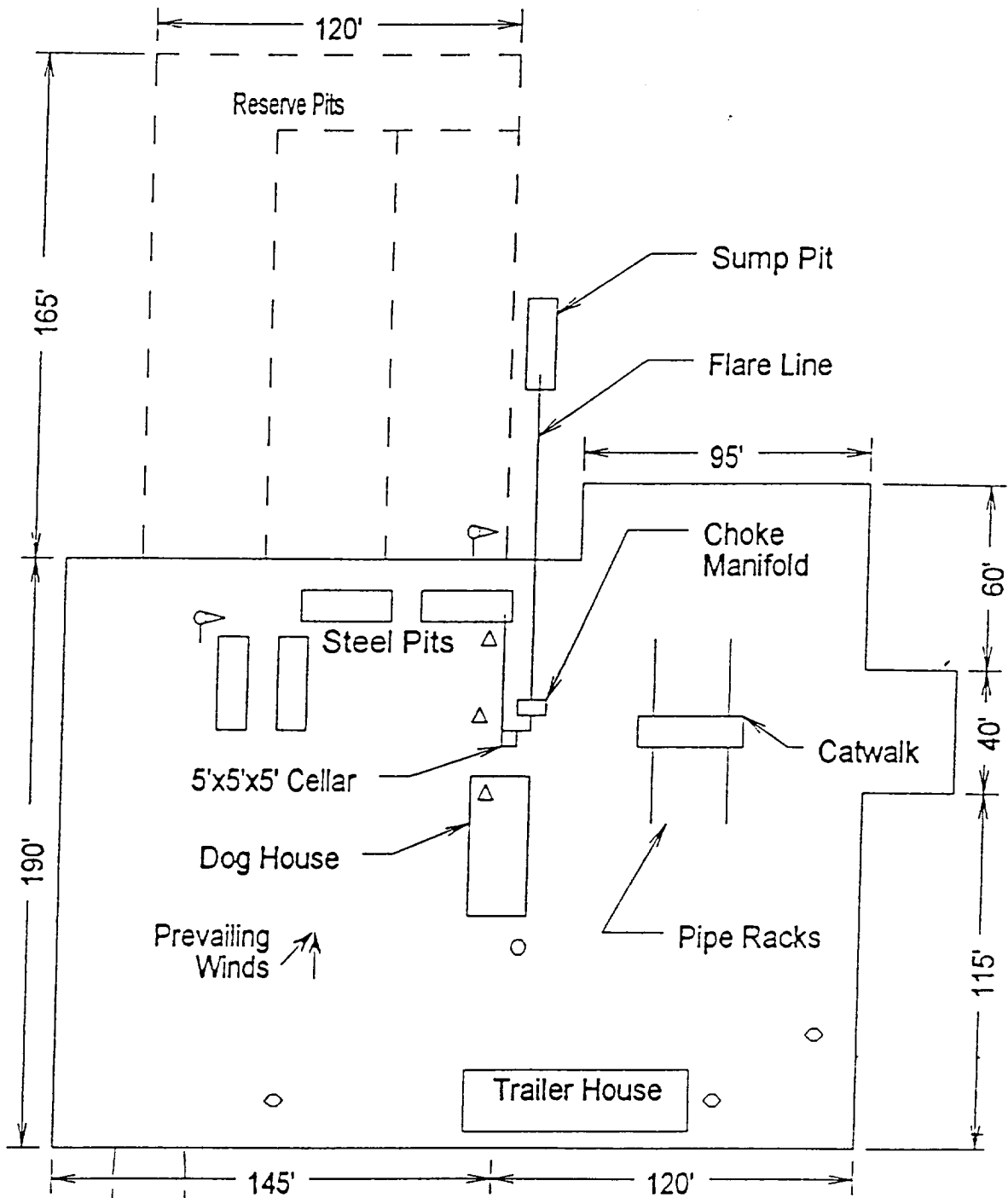


EXHIBIT "C"  
 TOPOGRAPHIC MAP SHOWING  
 ROADS & DIRECTIONS TO  
 POGO PRODUCING COMPANY  
 RED TANK "35" FEDERAL # 2  
 UNIT "E" SECTION 35  
 T226 R22E LEA CO. NM





Access Road

- ⤴ 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  
 RED TANK "35" FEDERAL # 2  
 UNIT "E" SECTION 35  
 T22S-R32E LEA CO. NM

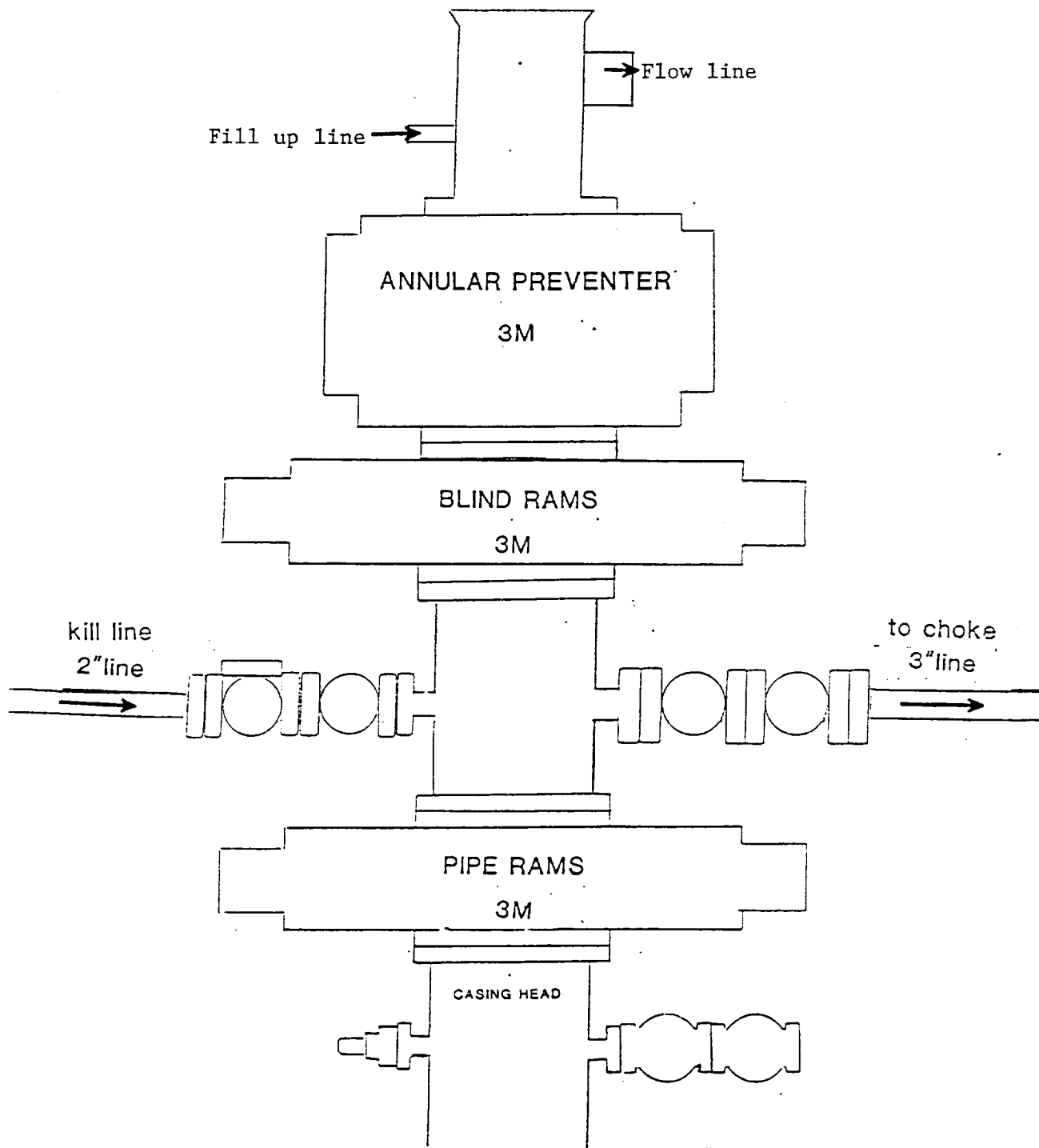
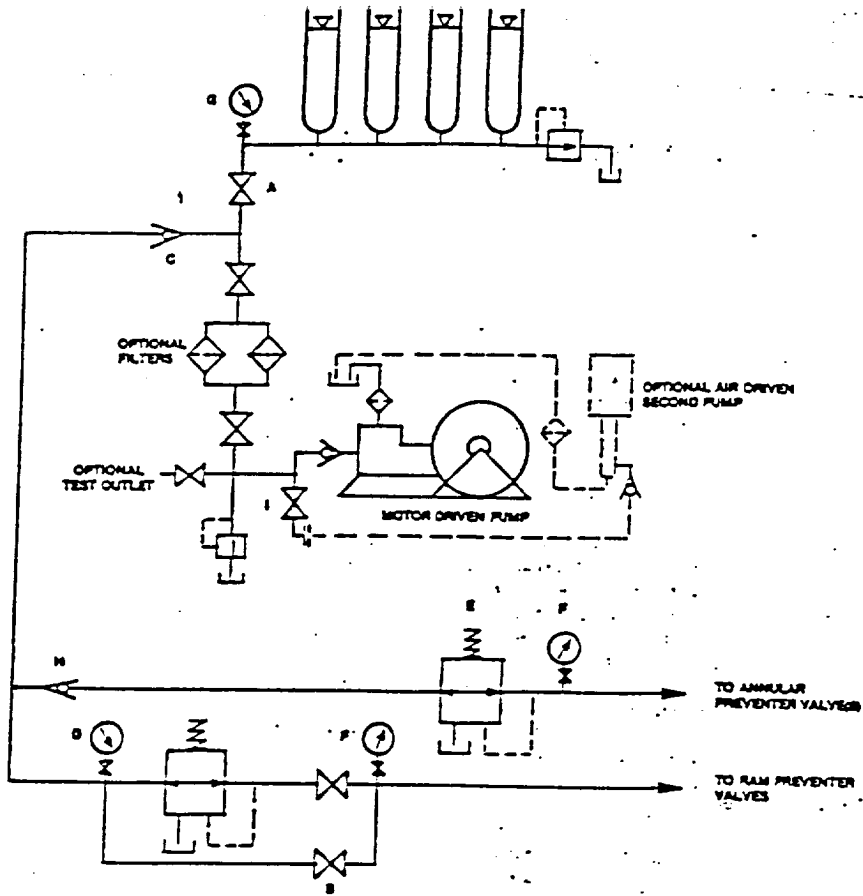


EXHIBIT "E"  
 SKETCH OF B.O.P. TO BE USED ON

POGO PRODUCING COMPANY  
 RED TANK "35" FEDERAL # 2  
 UNIT "E" SECTION 35  
 T22S-R32E LEA CO. NM



POGO PRODUCING CO  
3M CHOKE MANIFOLD

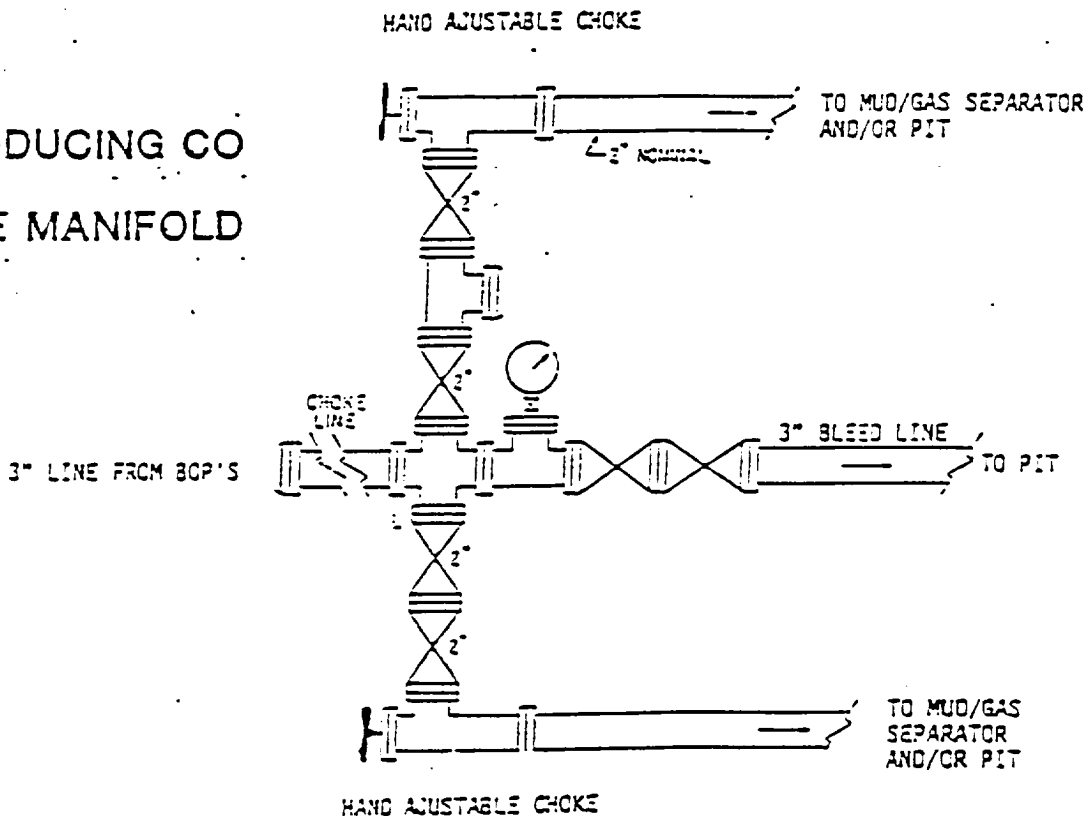


EXHIBIT "E-1"  
CHOKE MANIFOLD & CLOSING UNIT

POGO PRODUCING COMPANY  
RED TANK "35" FEDERAL # 2  
UNIT "E" SECTION 35  
T22S-R32E LEA CO. NM

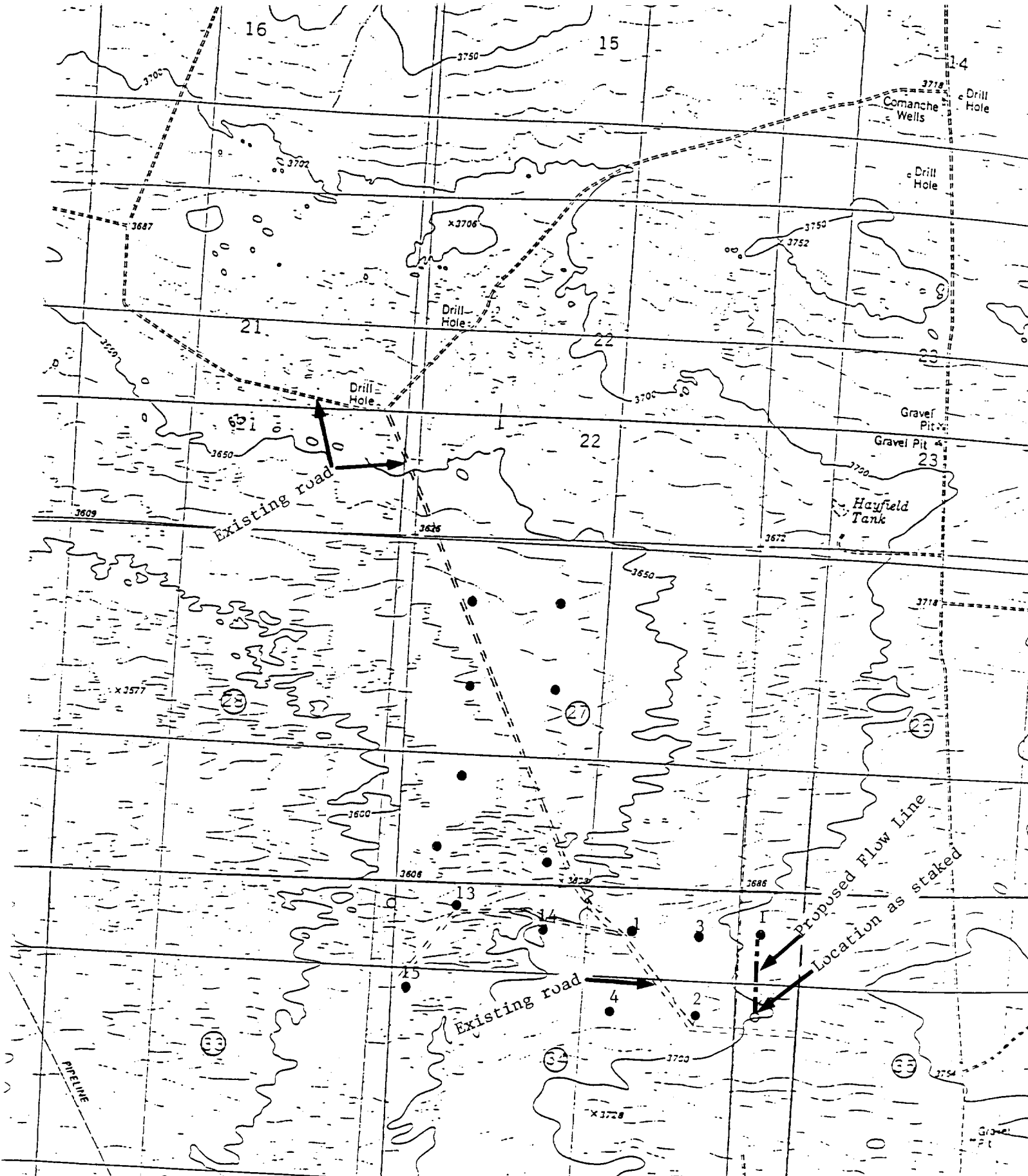


EXHIBIT "F"  
 ROUTE OF PROBABLE  
 POWERLINES & PIPELINES

POGO PRODUCING COMPANY  
 RED TANK "35" FEDERAL # 2  
 UNIT "E" SECTION 35  
 T22S R22E T14N CO. NM