

(July 1992)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

(Other instructions on reverse side)

OMB NO. 1004-0136
Expires: February 28, 1995LEASE DESIGNATION AND SERIAL NO.
NM-107395**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 432-685-8140)

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 (432-685-8100)

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

At surface

330' FSL & 990' FEL SECTION 29 T23S-R33E LEA CO. NM

At proposed prod. zone SAME

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

Approximately 15 Miles West of Jal New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

330'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED

40

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

3700'

19. PROPOSED DEPTH

12,000'

20. ROTARY OR CABLE TOOLS

ROTARY

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

3674' GR.

22. APPROX. DATE WORK WILL START*

WHEN APPROVED

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	Conductor 20"	NA	40'	Cement to surface W/Redi-mix
17½"	H-40 13 3/8"	48#	750'	850 Sx. Circulate to surface
11"	J-55, S-80 8 5/8"	32#	4950'	1600 Sx. " " "
7 7/8"	P-110 5½"	17#	12,000'	2000 Sx. Est Top Cement 5000' FS

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.

2. Drill 17½" hole to 750'. Run and set 750' of 13 3/8" 48# H-40 ST&C casing. Cement with 850 Sx. of Class "C" cement + ½# Flocele/Sx., + 2% CaCl, circulate cement to surface. Nipple up 3000 PSI BOPE on 13 3/8" casing, test with rig pumps.

3. Drill 11" hole to 4950. Run and set 4950' of 8 5/8" casing as follows: 450' of 8 5/8" 32# S-80 ST&C, 4500' of 8 5/8" 32# J-55 ST&C casing. Cement with 1600 Sx. of Class "C" Light Weight cement + additives, circulate cement to surface. Nipple up 5000PSI B.O.P. on the 8 5/8" casing and use 3rd party to test BOP Equipment.

4. Drill 7 7/8" hole to 12,000'. Run and set 12,000' of 5½" 17# P-110 LT&C casing. Cement with 1000 Sx. of Class "C" Light Weight cement + additives, 1000 Sx. of Class "H" Premium Plus cement + additives. Estimate top of cement 5000' from surface.

Witness Surface &
Intermediate Casing

NATION WIDE BONE WYB 000238

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 drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED James Stovall TITLE Agent

DATE 07/14/06

(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 area which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

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

ACTING

FIELD MANAGER

APPROVED BY /s/ James Stovall

TITLE

DATE

SEP 22 2006

*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

BUREAU OF LAND MGMT
CARLSBAD FIELD OFFICE

POGO PRODUCING COMPANY

2006 AUG 17 PM 12: 58

August 15, 2006

RECEIVED

Bureau of Land Management
Carlsbad Resources Area Headquarters
Attn: Duncan Whitlock
620 East Greene Street
Carlsbad, New Mexico 88220-6292

VIA FACSIMILE (505) 885-9264
AND U.S. MAIL

Re: BRINNINSTOOL PROSPECT
Lea County, New Mexico
FOXGLOVE 29 FEDERAL No 2 WELL
330' FSL and 990' FEL Section 29
T-23-S, R-33-E, N.M.P.M.

Gentlemen:

Please be advised that on August 10, 2006, Pogo Producing Company, as Operator, and Chris Brininstool, Trustee of the William H. Brininstool Trust, surface owner, did agree upon terms and conditions concerning surface use and damages in connection with the captioned well.

Should you have any questions regarding this matter, please do not hesitate to contact our office.

Very truly yours,

POGO PRODUCING COMPANY

R. Scott McDaniel
District Landman

RSM/dkr

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 86240

DISTRICT II
1501 W. GRAND AVENUE, ARTESIA, NM 88210

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-38519	Pool Code 59900 ✓	Pool Name TRIPLE "X" BONE SPRING
Property Code 33531	Property Name FOXGLOVE 29 FEDERAL	Well Number 2
OGRID No. 017891	Operator Name POGO PRODUCING COMPANY	Elevation 3674'

Surface Location

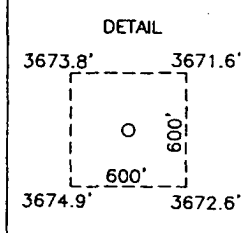
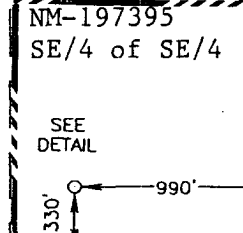
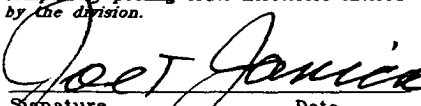
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	29	23-S	33-E		330	SOUTH	990	EAST	LEA

Bottom Hole Location If Different From Surface

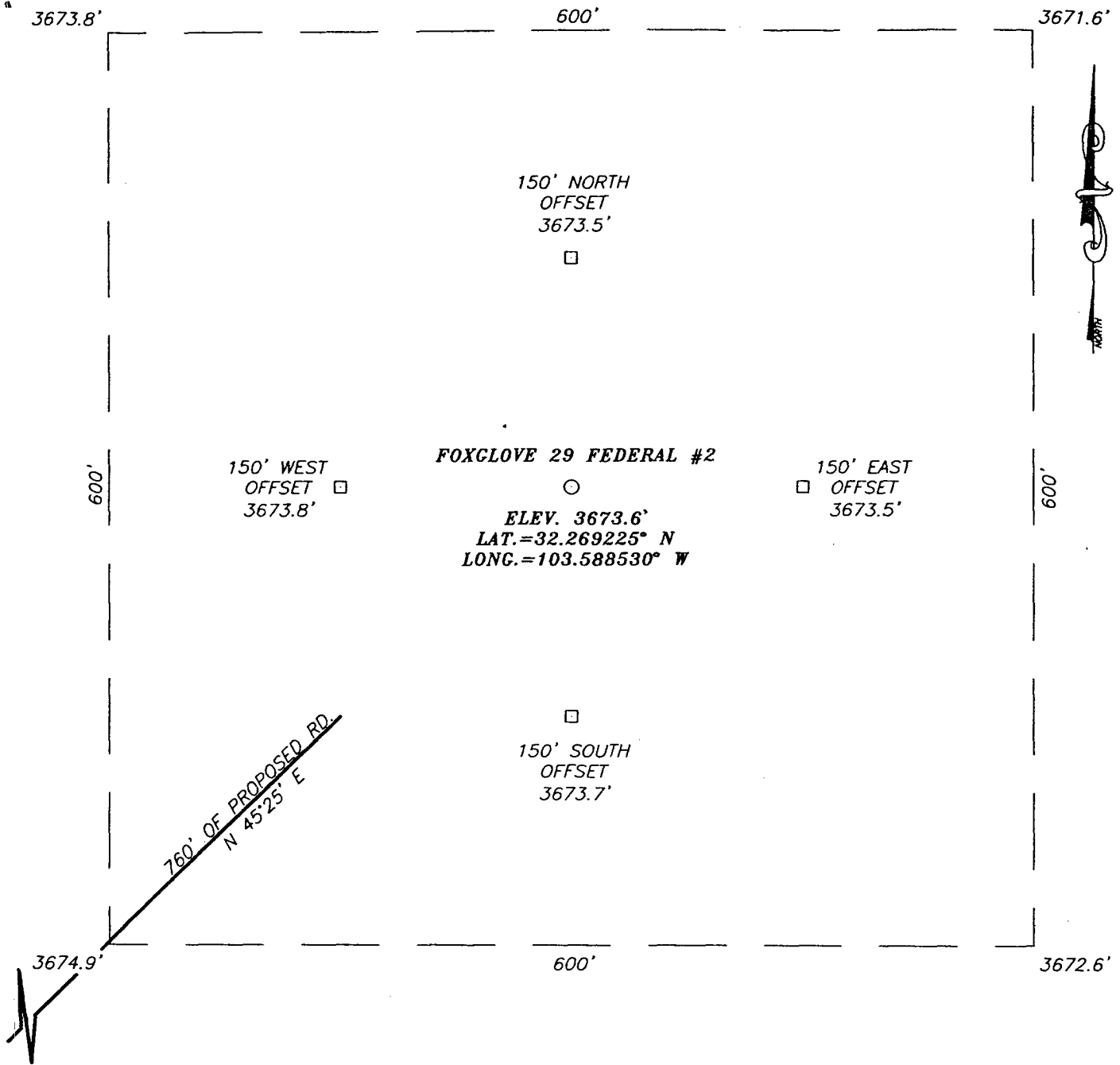
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40 /	Joint or Infill	Consolidation Code	Order No.
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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

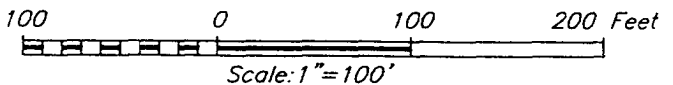
	GEODETIC COORDINATES NAD 27 NME Y=462460.6 N X=730210.8 E LAT.=32.269225° N LONG.=103.588530° W		OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature _____ Date 07/14/06 Joe T. Janica Printed Name Agent
			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 14, 2006 Date Surveyed _____ MR Signature _____ Seal of Professional Surveyor Professional Surveyor GARY H. EIDSON 6/21/06 06.11.1017 Certification No. GARY, EIDSON 12641 RONALD P. EIDSON 3239

SECTION 29, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

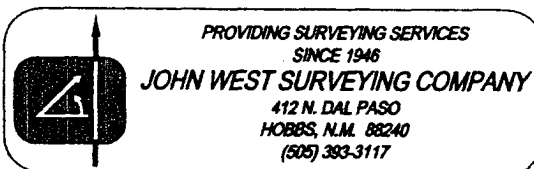
FROM THE INTERSECTION OF CO. RD. #J-21
(DELAWARE BASIN RD.) AND CO. RD. #J-2 (XL
ROAD), GO WEST ON XL RD. APPROX. 4.4 MILES.
VEER RIGHT AND GO NORTHWEST (PAST RANCH
HOUSE) APPROX. 0.1 MILE. TURN LEFT ON TWO
TRACK ROAD AND GO SOUTHWEST APPROX. 0.1
MILE. THIS LOCATION IS APPROX. 50 FEET NORTH.



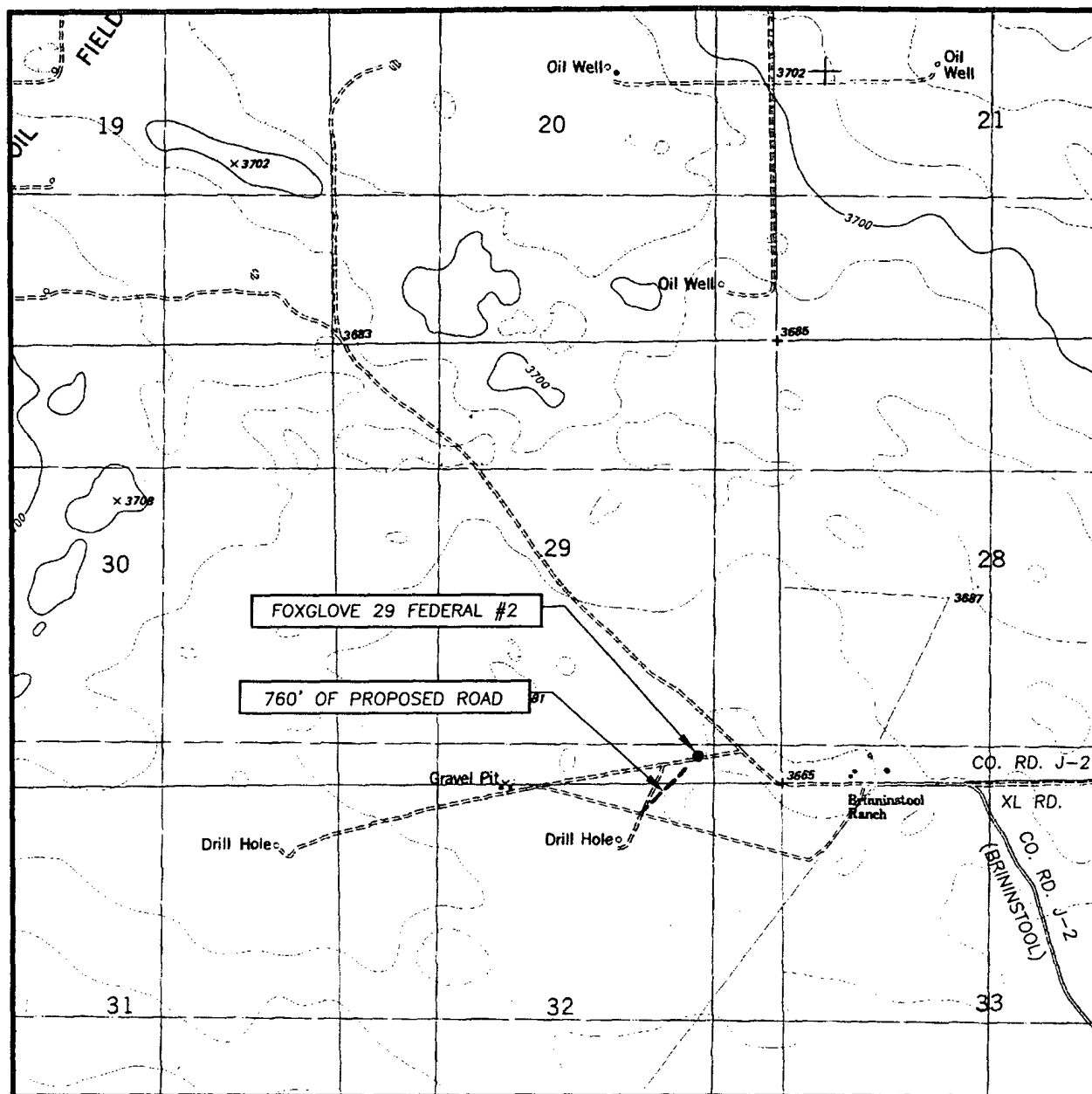
POGO PRODUCING COMPANY

FOXGLOVE 29 FEDERAL #2
LOCATED 330 FEET FROM THE SOUTH LINE
AND 990 FEET FROM THE EAST LINE OF SECTION 29,
TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 06/14/06	Sheet 1 of 1 Sheets		
W.O. Number: 06.11.1017	Dr By: M.R.	Rev 1:N/A	
Date: 06/19/06	Disk: CD#6	06111017	Scale: 1"=100'



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
TIP TOP WELLS, N.M. - 10'

SEC. 29 TWP. 23-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

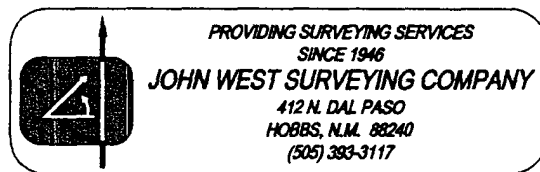
DESCRIPTION 330' FSL & 990' FEL

ELEVATION 3674'

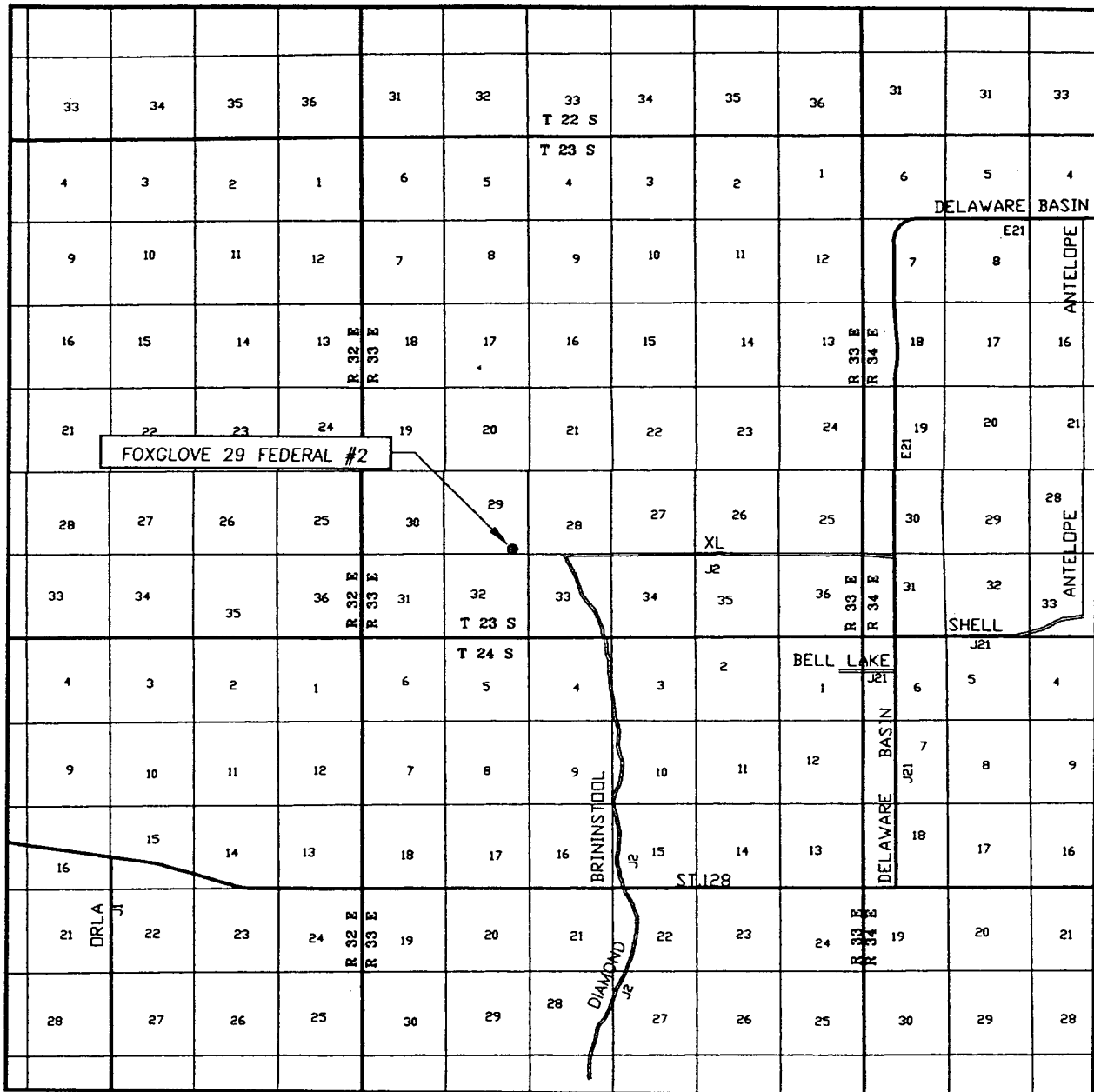
OPERATOR POGO
PRODUCING COMPANY

LEASE FOXGLOVE 29 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
TIP TOP WELLS, N.M.



VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 29 TWP. 23-S RGE. 33-E

SURVEY N.M.P.M.

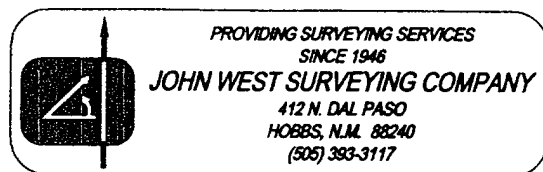
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 330' FSL & 990' FEL

ELEVATION 3674'

POGO
OPERATOR PRODUGING COMPANY

LEASE FOXGLOVE 29 FEDERAL



APPLICATION TO DRILL

POGO PRODUCING COMPANY
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E 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: 330' FSL & 990' FEL SECTION 29 T23S-R33E LEA CO. NM

2. Elevation above Sea Level: 3674' 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: 12,000'

6. Estimated tops of geological markers:

Rustler Anhydrite	1200'	Cherry Canyon	5997'
Basal Anhydrite	4874'	Manzanita	6278'
Delaware Lime	5130'	Brushy Canyon	7368'
Bell Canyon	5162'	1st Bone Spring	8972'

7. Possible mineral bearing formations:

1st Bone Spring Sd. Oil

8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
26"	0-40	20"	NA	NA	NA	Conductor
17½"	0-750'	13 3/8"	48#	8-R	ST&C	H-40
11"	0-4950'	8 5/8"	32#	8-R	ST&C	S-80 J-55
7 7/8"	0-12,000'	5½"	17#	8-R	1t7c	P-110

Witness Surface &
Intermediate Casing

APPLICATION TO DRILL

POGO PRODUCING COMPANY
 FOXGLOVE "29" FEDERAL #2
 UNIT "P" SECTION 29
 T23S-R33E LEA CO. NM

9. CEMENTING & CASING SETTING DEPTHS:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface	Set 750' of 13 3/8" 48# H-40 ST&C casing and cement with 850 Sx. of Class "C" cement + 1/2# Flocele/Sx, + 2% CaCl, circulate cement to surface.
8 5/8"	Intermediate	Set 4950' of 8 5/8" 32# S-80 & J-55 ST&C casing. Cement with 1600 Sx. of Class "C" Light Cement + additives, circulate cement to surface.
5 1/2"	Production	Set 12,000' of 5 1/2" 17# P-110 LT&C CASING. Cement with 1000 Sx. of Class "H" Premium Plus cement + additives, tail in with 1000 Sx. of Class "C" cement + additives, estimate top of cement 5000' from surface.

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. to be nipped up on the 13 3/8" casing and tested with rig pumps. Exhibit "E-1" shows a Series 1500 B.O.P. 5000 PSI working pressure B.O.P. to be nipped up on the 8 5/8" casing and tested by a 3rd party tester per API specifications. The B.O.P. will be operated at least once in each 24 hour period, and blind rams will be worked when the drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will be utilized. Exhibit "E-2" shows a hydraulically operated closing unit and a 3" 5000 PSI choke manifold with adjustable chokes. No abnormal pressures or temperatures are expected while drilling this well.

11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-750'	8.4-8.7	29-34	NC	Fresh water spud mud add paper to control seepage.
750-4950'	10.0-10.2	29-38	NC	Brine water add paper to control seepage, and use high viscosity sweeps to clean hole.
4950-12,000'	8.4-8.7	30-40	NC*	Fresh water use high viscosity sweeps to clean hole. If water loss control is necessary use a Polymer mud system to control same.

* In order to prevent damage to the formation, run open hole logs, DST's, and casing water loss may be required.

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

APPLICATION TO DRILL

POGO PRODUCING COMPANY
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA CO. NM

12. LOGGING, CORING, & TESTING PROGRAM:

- A. Open hole logs: Dual Induction, LDT, SNP, MSFL, Gamma Ray and Caliper from TD back to the 8 5/8" casing shoe.
- B. Cased hole logs; Gamma Ray, Neutron from 8 5/8" casing shoe back to surface.
- C. Mud logger will be rigged up on the hole after the * 5/8" casing is set at 4950' and remain on the hole to TD.
- D. 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 H²S in this area. If H²S 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 6000 PSI, and Estimated BHT 195°.

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 45 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 3rd 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 H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
2. H₂S Detection and Alarm Systems
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
3. Windsock and/or wind streamers
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
 - C. There should be a windsock at entrance to location.
4. Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H₂S present in dangerous concentration. Only emergency personnel admitted to location.
5. Well control equipment
 - A. See exhibit "E"
6. Communication
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
7. Drillstem Testing
 - A. Exhausts will be watered.
 - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - C. If location is near any dwelling a closed D.S.T. will be performed.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

8. Drilling contractor supervisor will be required to be familiar with the effects H_2S has on tubular goods and other mechanical equipment.
9. If H_2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H_2S scavengers if necessary.

SURFACE USE PLAN

POGO PRODUCING COMPANY
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA 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 Eunice New Mexico take Delaware Basin Road to the junction with State Hi-way 128, turn Right go 3.3± miles, turn Right go 4 miles, to Ranch House Bear Left follow caliche road .6 miles turn Right (Northeast) on new road 900' to well location. - -
 - C. Exhibit "C" shows proposed roads and possible powerline routes if the well is completed as a producer.
2. PLANNED ACCESS ROADS: Approximately 900' 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 - Water well located approximately 1.5 miles East.
 - 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
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA 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. Exhibit "C" shows proposed routes of roads, flowlines and powerlines.

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 minimum 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 further 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
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA CO. NM

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the proposed well site layout.
- B. This Exhibit shows the location of reserve pit, sump pits, and living facilities.
- C. Mud pits in the active circulating system will be steel pits and the reserve pits will be unlined unless subsurface conditions encountered during pit construction indicate that a plastic liner is required to contain lateral migration.
- D. If needed the reserve pits will be lined with polyethelene. The pit liner will be no less than 6 mils thick and the liner will be extended at least 3 feet over the top of the dikes and secured in place to keep edge of liner in place.
- E. The reserve pit will be fenced on three sides and fenced with four strands of barbed wire during drilling and completion phases. The 4th side will be fenced after drilling operations are complete and the drilling rig has moved out. If the well is a producer the mud pits will remain fenced in until the mud has dried up enough to break out the pits and reclaimed according to BLM requirements.

10. PLANS FOR RESTORATION OF SURFACE:

Rehabilitation of the location and reserve pits will be allowed to dry properly, fluids may be moved and disposed of in accordance with article 7-E 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 future erosion. In case of the well completed as a producer the drilling pad will be necessary to construct production facilities. After the area has been shaped and contoured top soil from the spoil pile will be placed over the disturbed area to the extent possible so that revegetation procedures can be accomplished to comply with the BLM specifications.

If the well is a dry hole the pad and road area will be contoured to match the existing terrain. Top soil will be spread to the extent possible and revegetation will be carried out according to the BLM specifications.

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
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA CO. NM

11. OTHER INFORMATION:

- A. Topography consists of low lying sand dunes with a slight dip to the West. The deep sandy soil supports shinnery oak, native grasses, and an occasional mesquite tree.
- B. The surface is owned by The U.S. Department of Interior and is administered by The Bureau of Land Management. The surface is used for the grazing of livestock and the production of Oil & Gas.
- C. An archaeological survey will be conducted on the location and roads the results will be filed in report form and filed with the Bureau of Land Management Field Office in Carlsbad New Mexico.
- D. There is a dwelling (Ranch House) approximately 1.5 miles East of location.

12. OPERATOR'S 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
RICHARD WRIGHT
OFFICE Ph. 432 -685-8140

13. CERTIFICATION: I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and the 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 are 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 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 report.

NAME

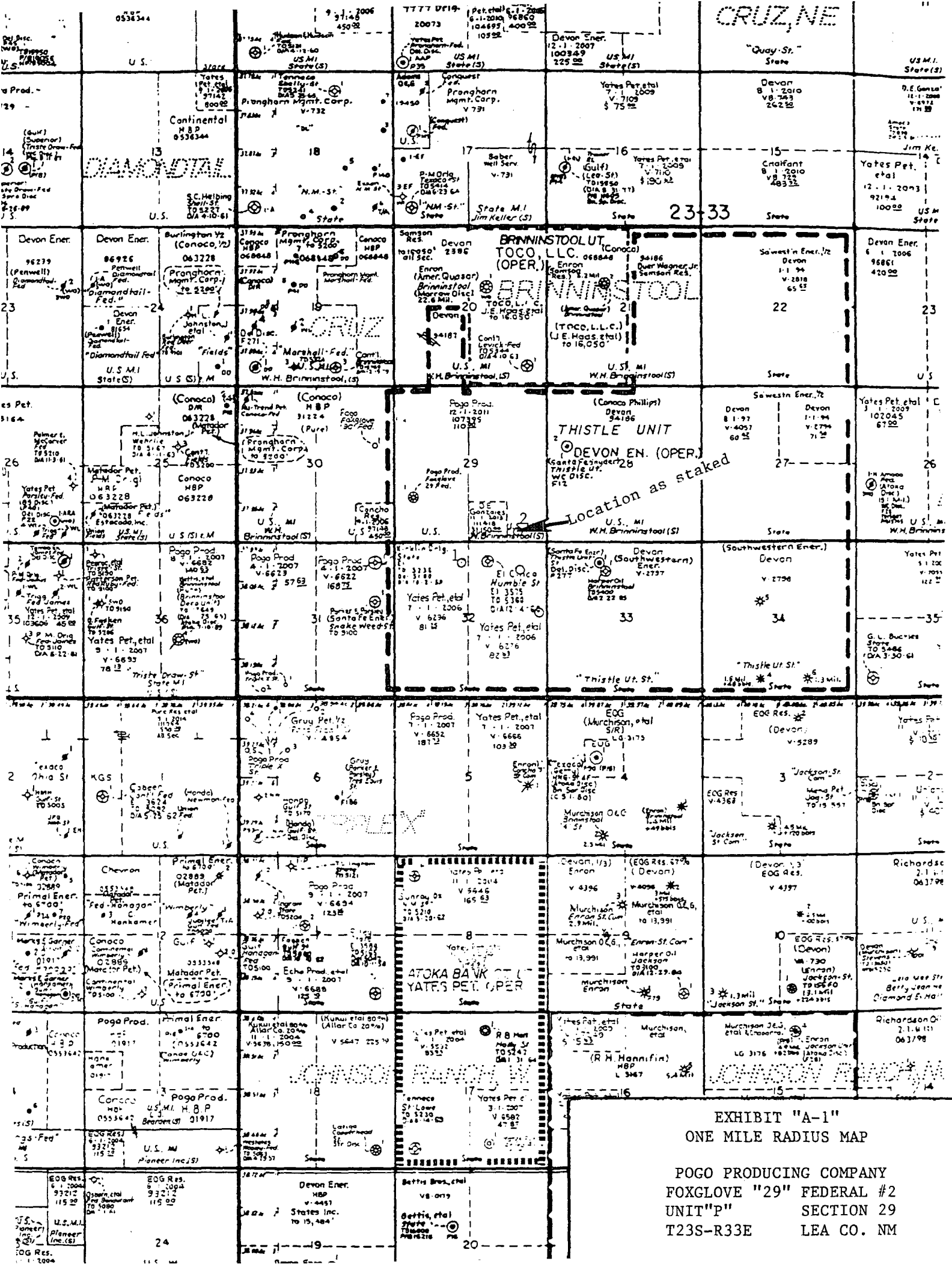
: Joe T. Janica

DATE

: 07/14/06

TITLE

: Agent



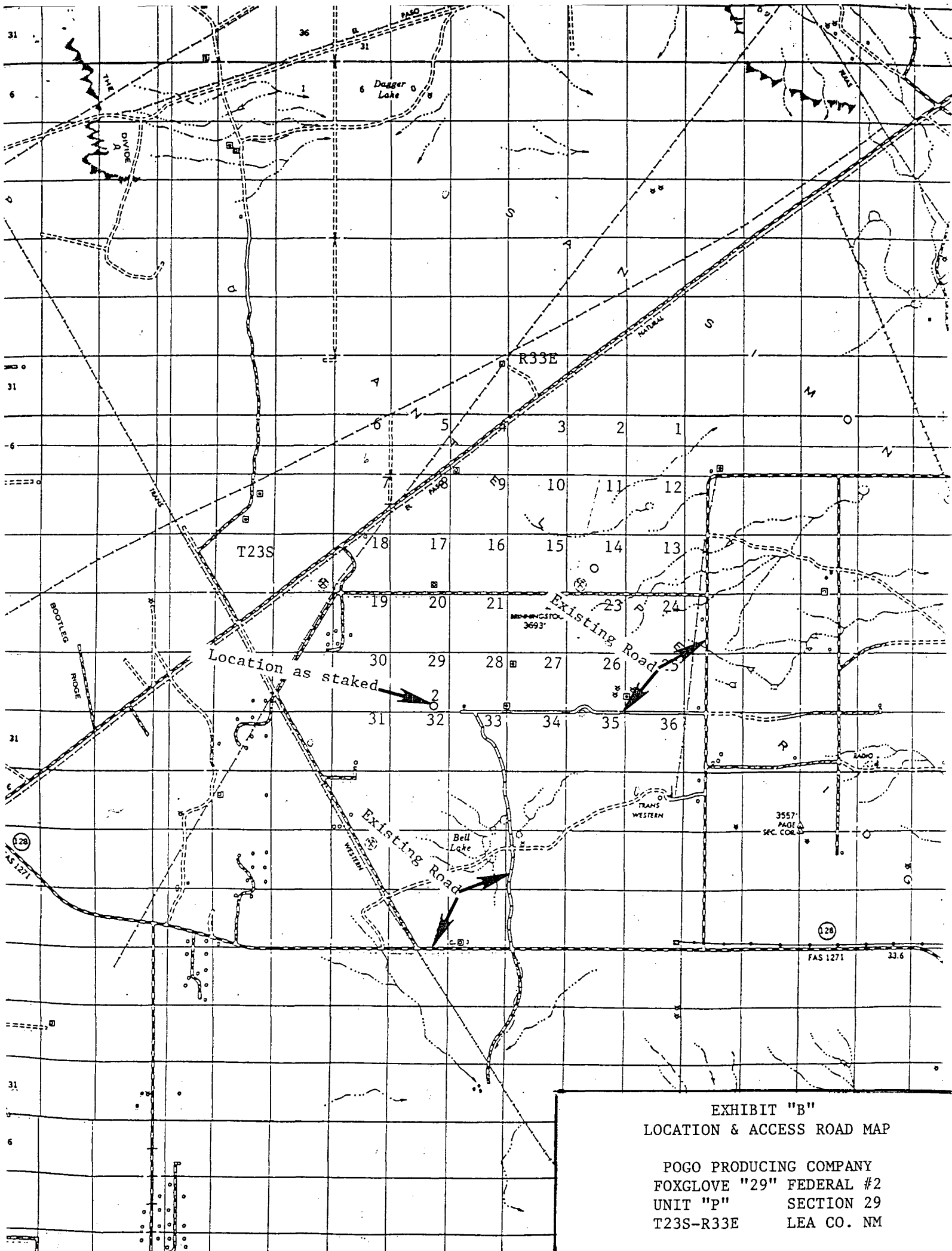


EXHIBIT "B"
LOCATION & ACCESS ROAD MAP

POGO PRODUCING COMPANY
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA CO. NM

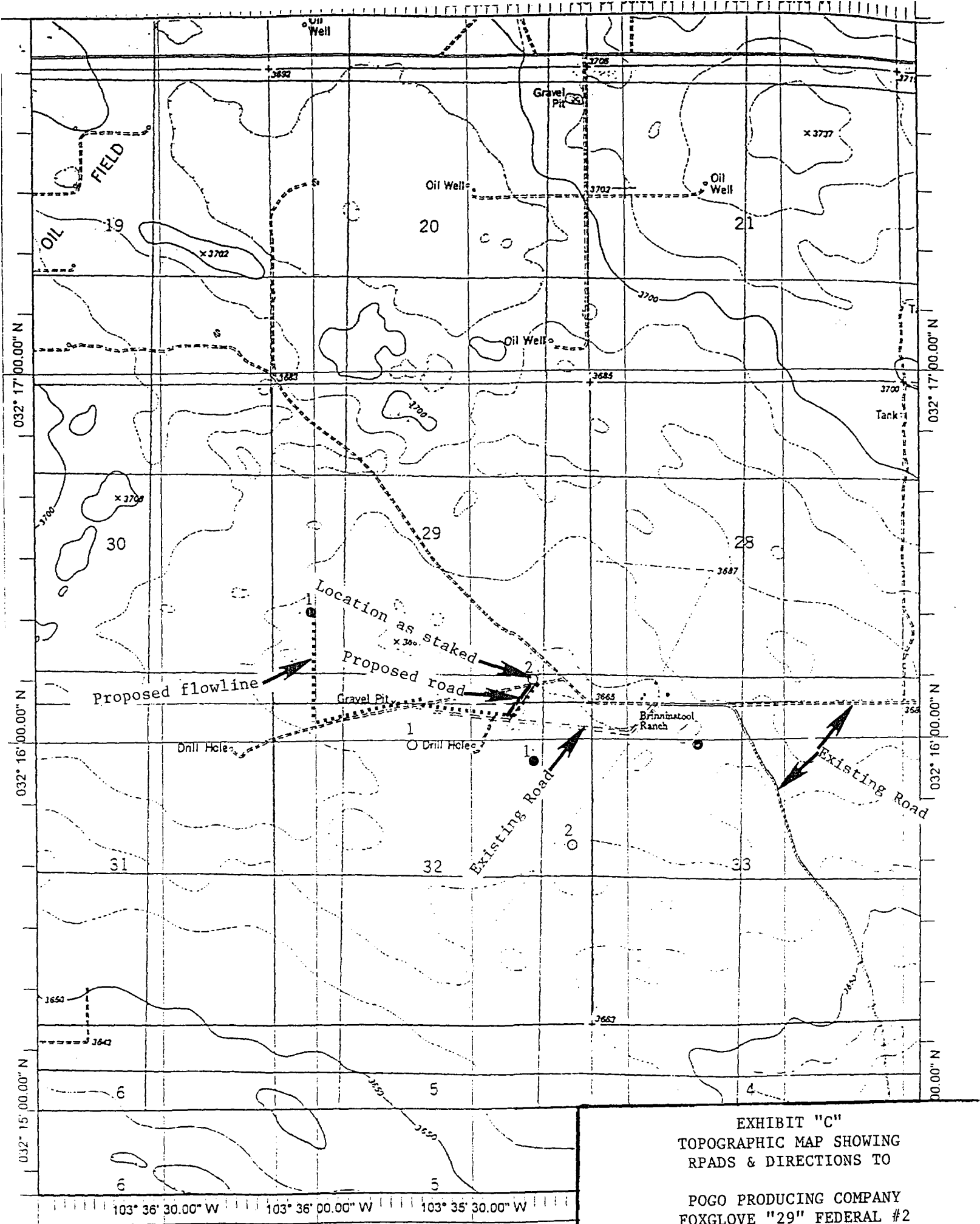
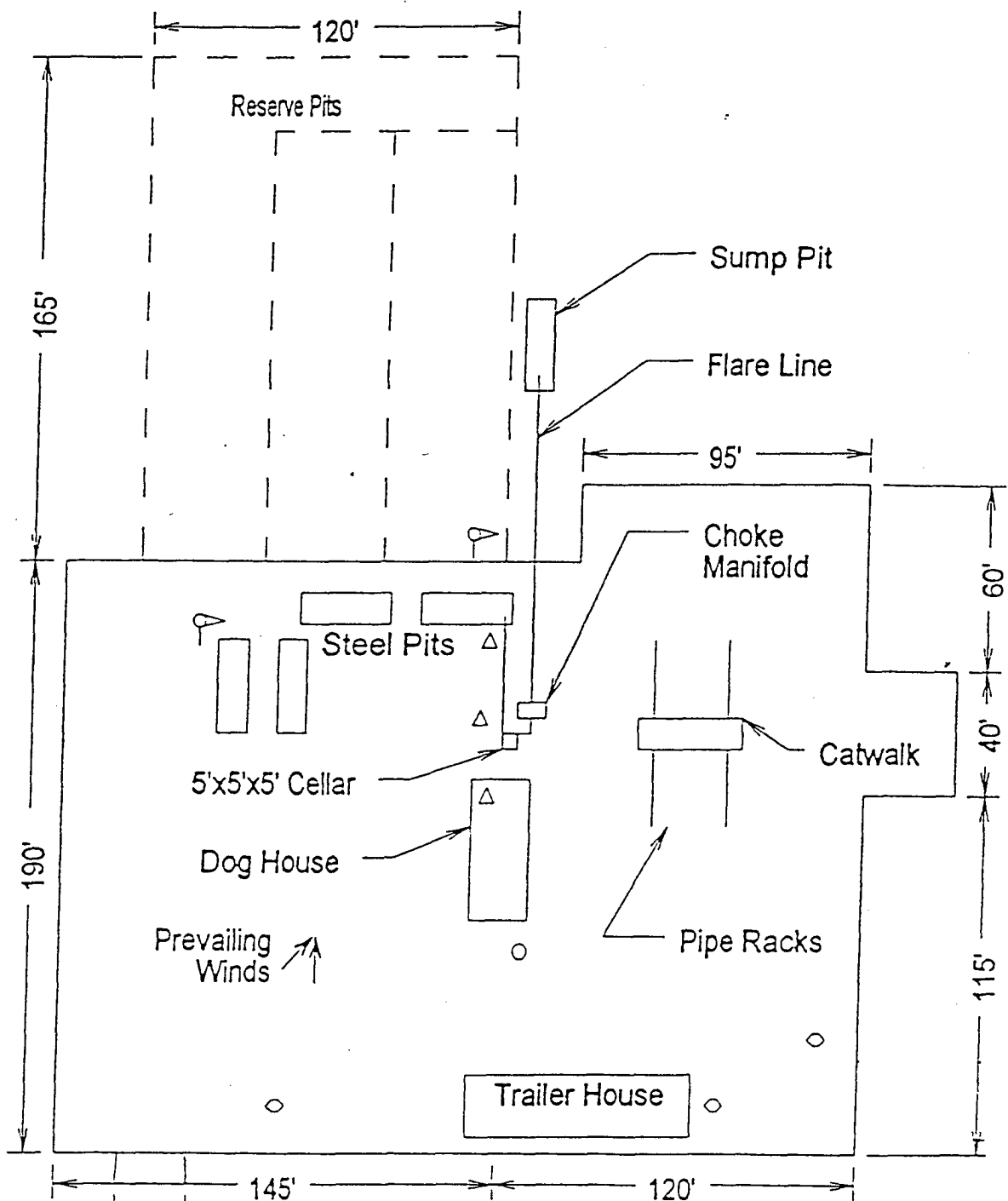


EXHIBIT "C"
TOPOGRAPHIC MAP SHOWING
ROADS & DIRECTIONS TO

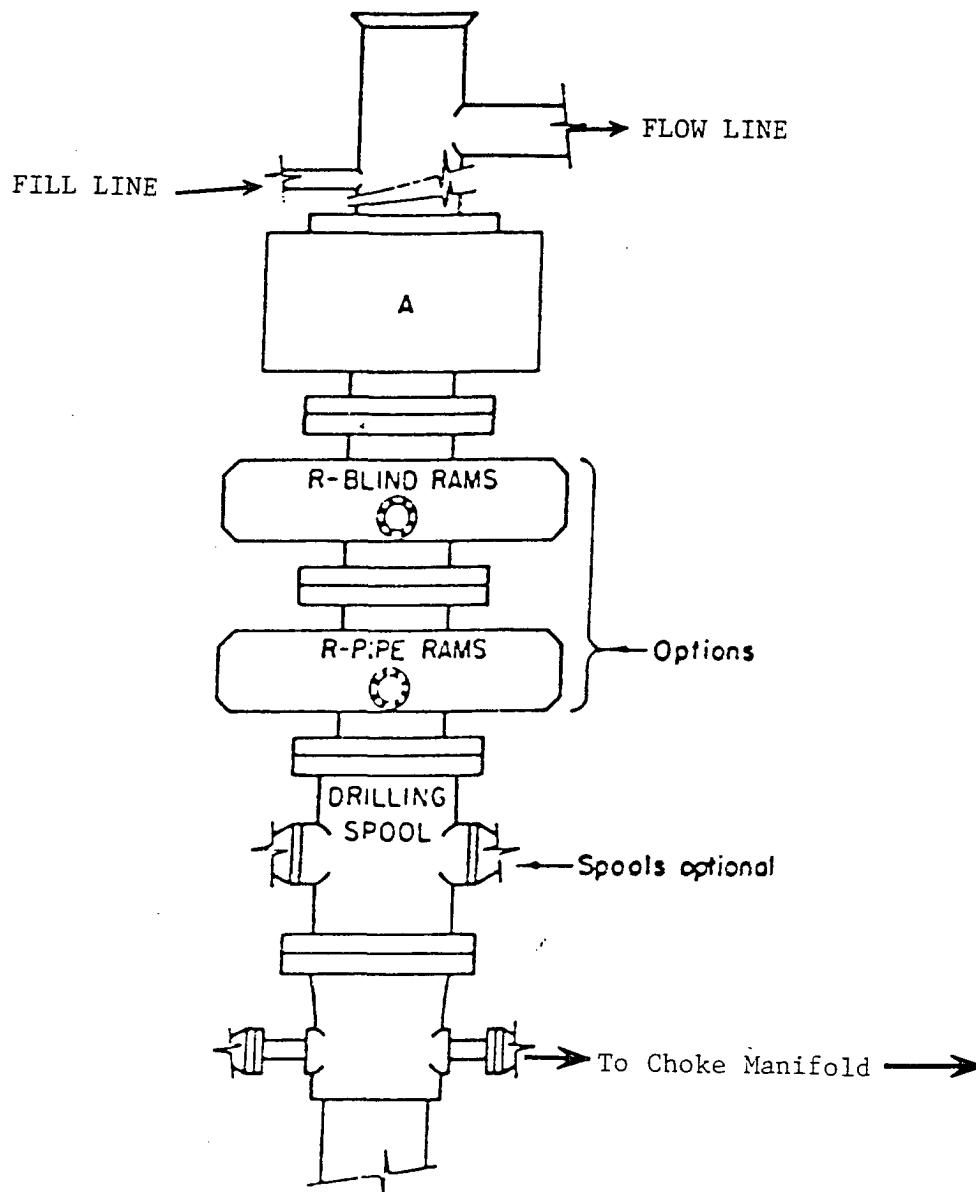
POGO PRODUCING COMPANY
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA CO. NM



- 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 LAYOUT PLAT

POGO PRODUCING COMPANY
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA CO. NM

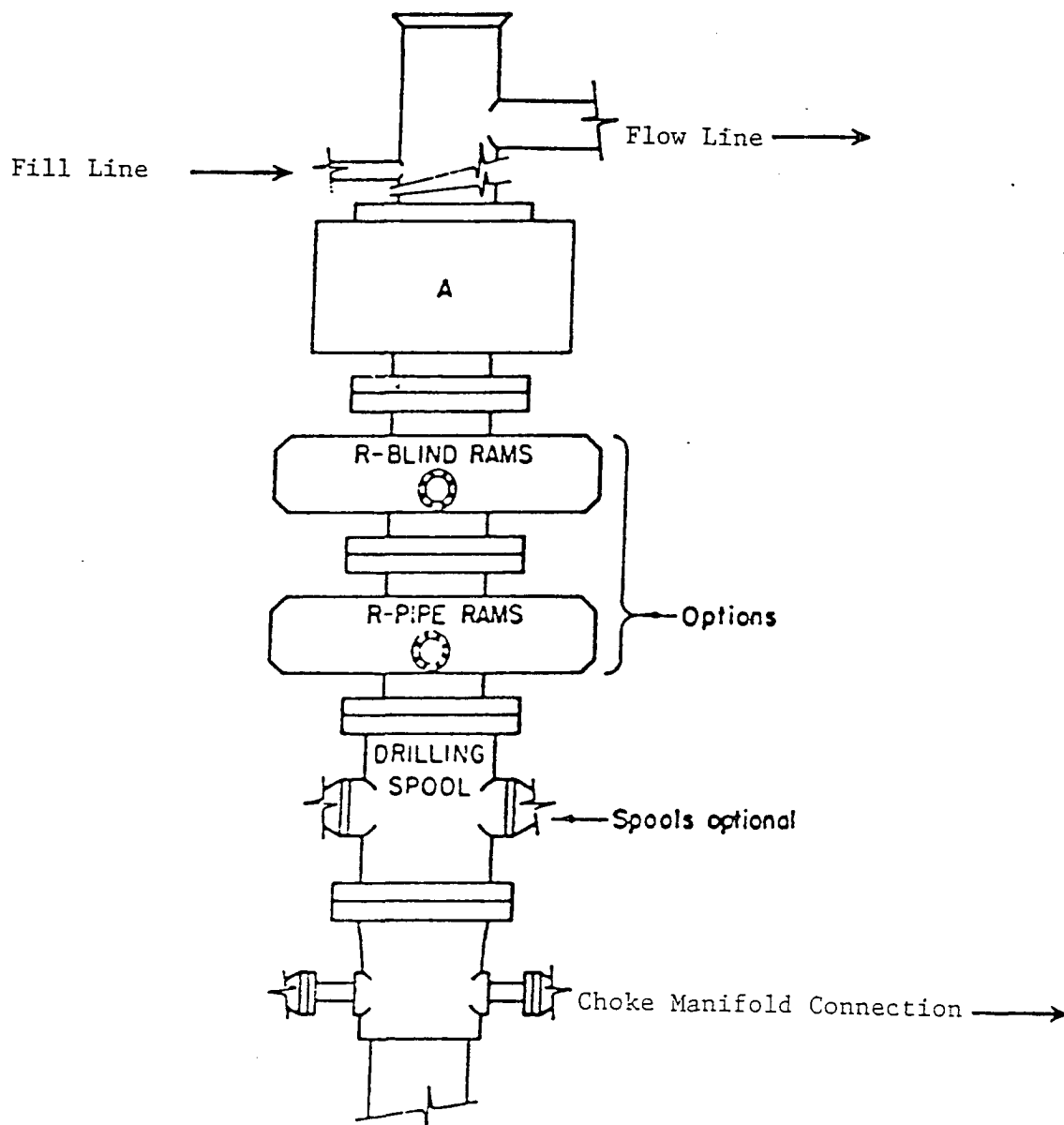


ARRANGEMENT SRRA

900 Series
3000 PSI WP

EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON
3000 PSI

POGO PRODUCING COMPANY
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA CO. NM



ARRANGEMENT SRRA

1500 Series
5000 PSI WP

EXHIBIT "E-1"
SKETCH OF B.O.P. TO BE USED ON
5000 PSI

POGO PRODUCING COMPANY
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA CO. NM

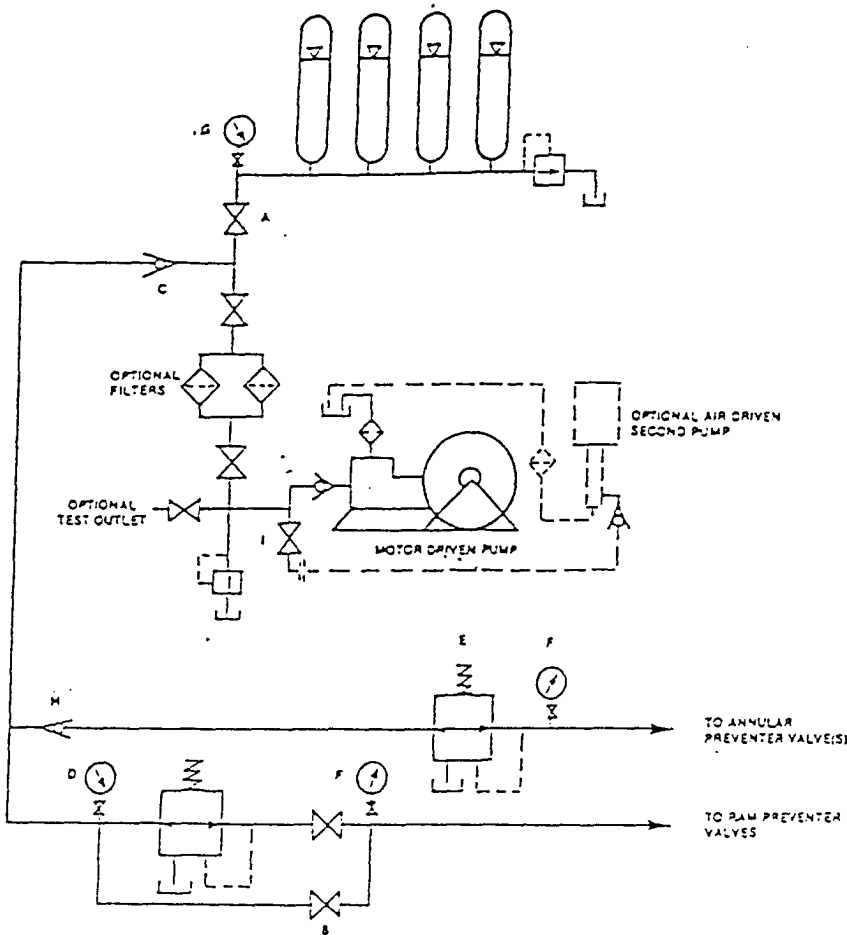


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.

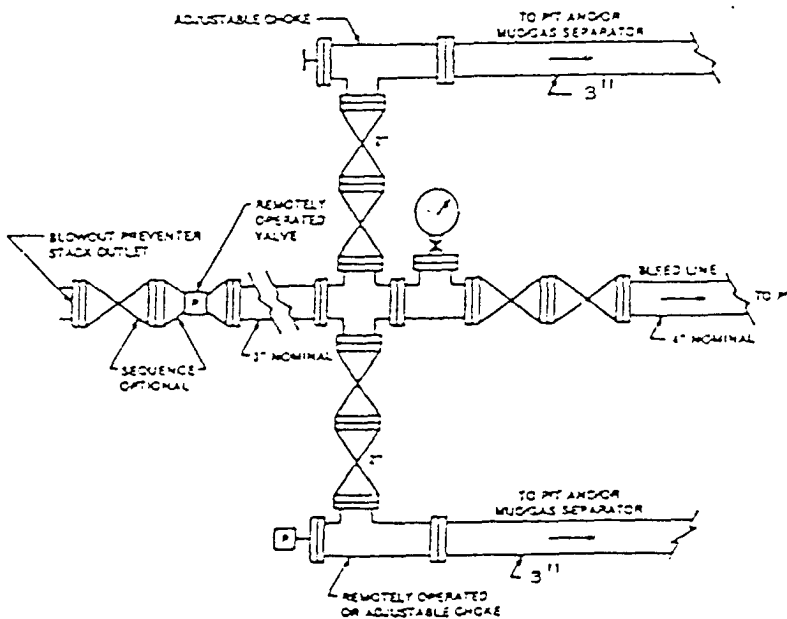


FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service — surface installation.

EXHIBIT "E-2"
CHOKE MANIFOLD & CLOSING UNIT

POGO PRODUCING COMPANY
FOXGLOVE "29" FEDERAL #2
UNIT "P" SECTION 29
T23S-R33E LEA CO. NM

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: POGO Producing Company
Well Name & No. 2-Foxglove "29" Federal
Location: 330FSL, 990FEL, Section 29, T-23-S, R-33-E
Lease: NM-107395

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5972 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: 13-3/8 inch 8-5/8 inch 5-1/2 inch

C. BOP tests

2. A Hydrogen Sulfide (H₂S) Drilling Plan should be activated prior to drilling into the Delaware Formation. A copy of the plan shall be posted at the drilling site. **Hydrogen Sulfide reported in Section 18 measuring 2000 in STVs.**

3. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

7. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

II. CASING:

1. The 13-3/8 inch surface casing shall be set at 750 feet (Lea County alternative), below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string. **Fresh water must be used to the top of the Rustler.**

2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is circulate cement to the surface.

Possible lost circulation in the Delaware and Bone Spring formations. Possible water flows in the Salado, Castile, Delaware, and Bone Spring.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is cement shall extend upward a minimum of 200 feet into the intermediate casing.

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13-3/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling the surface and intermediate casing shall be 3M psi. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling below the 8-5/8 inch casing shall be 5M psi.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- A variance to test the 3M to the reduced pressure of ____psi with the rig pumps is approved.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

ALTERNATIVE CONDITIONS OF APPROVAL - DRILLING

Drilling Fluids, Casing and Cementing Requirements for Most of Lea County:

Casing and Cementing

Surface casing is to be set at a sufficient depth to protect useable water zones and cement circulated to surface. In areas where the salt section (Salado) is present, surface casing should be set at least 25 feet into the top of the Rustler Anhydrite and cement circulated to the surface.

As an alternative, surface casing may be set through the Santa Rosa Formation or other potable water bearing zones and circulate cement to surface. For wells requiring an intermediate casing string, such string shall be cemented to the ground surface. In the case where intermediate casing is not required the operator shall case and cement the production hole to the ground surface.

While drilling from the surface casing to the Rustler formation it is recommended that operators periodically sweep the hole with viscous low water loss pills to help build a filter cake across useable water zones in the redbeds.

Drilling Fluid

Fresh water or fresh water spud mud shall be used to drill to surface casing depth. If surface casing is set at a lesser depth than the top of the Rustler formation, fresh water spud mud may be used to drill down to the first salt in the Rustler Formation. after which brine or fresh water may be used.

Non-toxic or biodegradable water based polymers, drilling paper, starch and gels may be used in the mud system in order to retard seepage into the redbeds.

Two to five percent diesel or crude oil may be used in the redbed section in order to control heaving shales and mudstones.

Caustics and Lime shall not be used in the red beds but may be added when the Rustler formation is reached. However, sodium carbonate maybe used for alkalinity or ph control while drilling the redbeds above the Rustler formation.

Additionally, questions of whether an additive may be used should be referred to the Roswell Field office.

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

Form C-144
March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Pogo Producing Company Telephone: 432-685-8100 e-mail address: wrightc@pogoproducing.com
Address: P. O. Box 10340, Midland, TX 79702-7340
Facility or well name: Foxglove 29 Federal #2 API #: 30-025-38519 U/L or Qtr/Qtr P Sec 29 T 23S R 33E
County: Lea Latitude 32.269225N Longitude 103.588530W NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit

Type: Drilling ☒ Production ☐ Disposal ☐
Workover ☐ Emergency ☐
Lined ☒ Unlined ☐
Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume
16000 bbl

Below-grade tank

Volume: _____ bbl Type of fluid: _____
Construction material: _____
Double-walled, with leak detection? Yes ☐ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet	(20 points)
50 feet or more, but less than 100 feet	(10 points)
100 feet or more	(0 points) 0

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes	(20 points)
No	(0 points) 0

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet	(20 points)
200 feet or more, but less than 1000 feet	(10 points)
1000 feet or more	(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) Indicate disposal location:

onsite ☐ offsite ☐ If offsite, name of facility _____ (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 09/28/06

Printed Name/Title Cathy Wright, Sr. EngTech Signature Cathy Wright

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Date: 10/11/06
Printed Name/Title CHRIS WILLIAMS - DIST. SUPERV Signature Chris Williams

9/21/2006

Water
ResourcesNational Water Information System:
Web Interface

Data Category:

Site Information

Geographic Area:

New Mexico

GO

Site Map for New Mexico

USGS 321611103321601 23S.33E.26.42100

Available data for this site

Site map

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

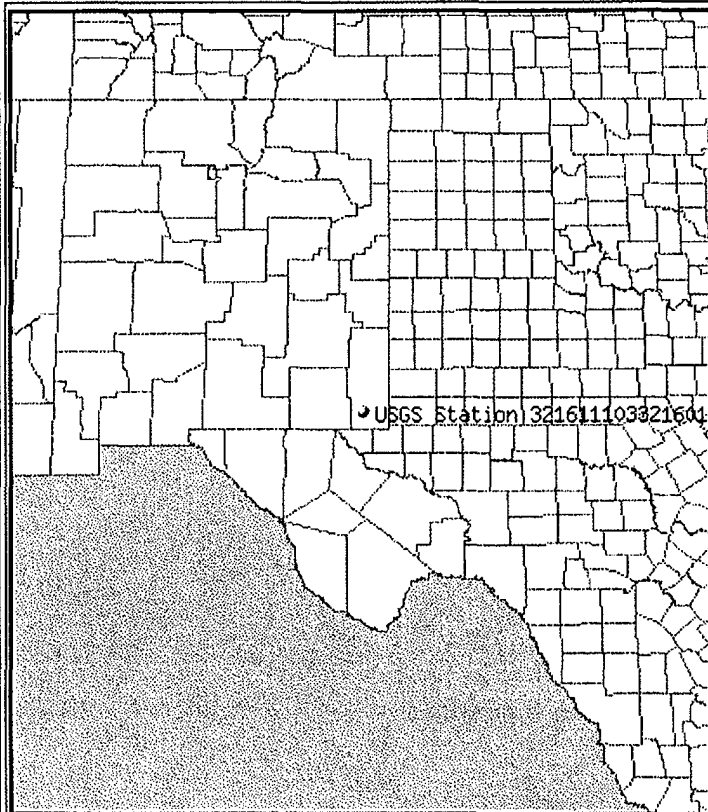
Latitude 32°16'11", Longitude 103°32'16" NAD27

Land-surface elevation 3,644.00 feet above sea level NGVD29

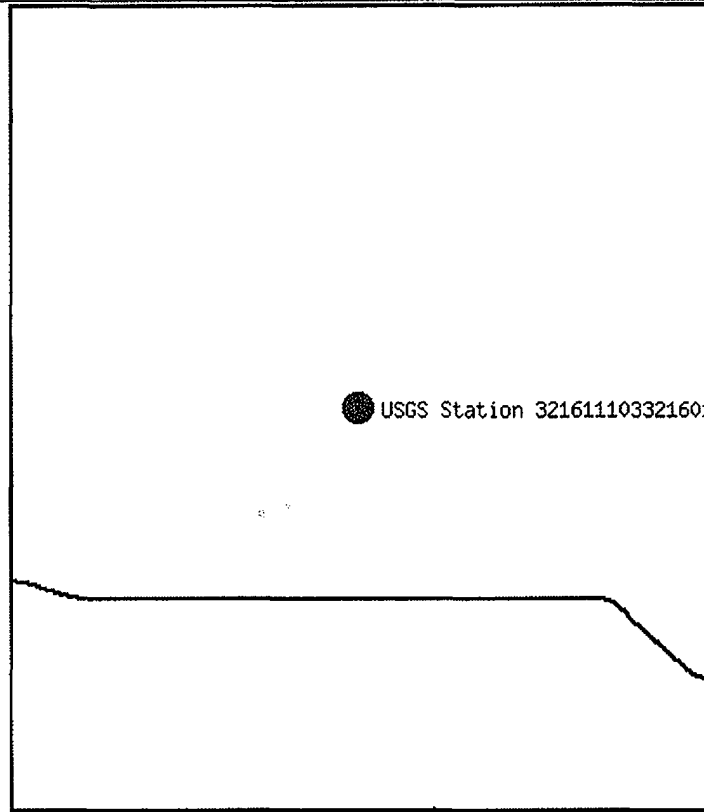
The depth of the well is 190 feet below land surface.

This well is completed in the CHINLE FORMATION (231CHNL) local aquifer.

Location of the site in New Mexico.



Site map.



ZOOM IN 2X, 4X, 6X, 8X, or ZOOM OUT 2X, 4X, 6X, 8X.

Maps are generated by US Census Bureau TIGER Mapping Service.

[Questions about data?](#)[Feedback on this web site](#)

NWIS Site Inventory for New Mexico: Site Map

<http://waterdata.usgs.gov/nm/nwis/nwismap?>

Retrieved on 2006-09-29 09:11:43 EDT

Department of the Interior, U.S. Geological Survey

http://nwis.waterdata.usgs.gov/nm/nwis/nwismap/?site_no=321611103321601&[Top](#)[Explanation of terms](#)

9/29/2006

Water
Resources

National Water Information System:
Web Interface

Data Category:

Ground Water

Geographic Area:

New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321611103321601

[Save file of selected sites to local disk for future upload](#)

USGS 321611103321601 23S.33E.26.42100

Available data for this site

Ground-water: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'11", Longitude 103°32'16" NAD27

Land-surface elevation 3,644.00 feet above sea level NGVD29

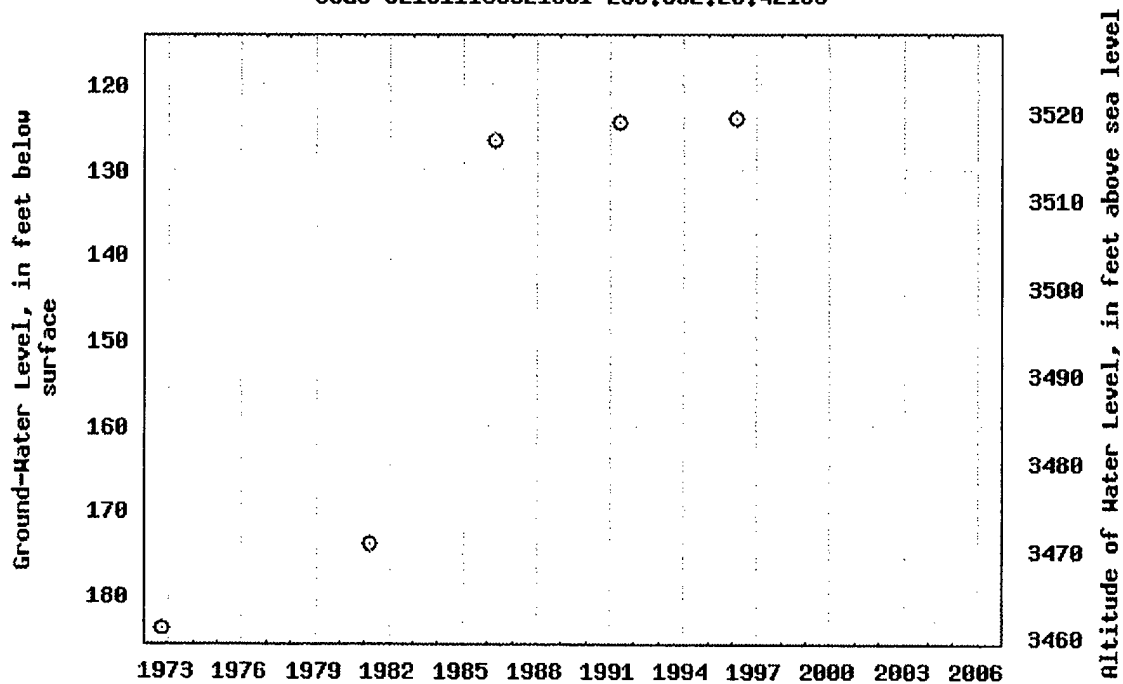
The depth of the well is 190 feet below land surface.

This well is completed in the CHINLE FORMATION (231CHNL) local aquifer.

Output formats

[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

USGS 321611103321601 23S.33E.26.42100



Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

[Download a presentation-quality graph](#)

Questions about data?

[Top](#)

http://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/?site_no=321611103321601&

9/29/2006

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.

Input Data

Lat1		Lon1	
32:16:11	N	103:32:16	W
Lat2		Lon2	
32.269225	N	103.588530	W

Output

Course 1-2	Course 2-1	Distance
269.349711	89.3226150	2.574974357

Distance Units: Earth model:

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

Lat1		Lon1	
0:00.00	N	0:00.00	W
Course 1-2		Distance 1-2	
360		0.0	