Form 3160-3
(July 1992)

OPER. OGRID NO. 17891 — ICATE.
PROPERTY NO. 22506 — ions on e)
POOL CODE
EFF. DATE 3/2/98
API NO. 30-025-34378

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

UNITI
DEPARTMENT
BUREAU OF L

APPLICATION FOR PE

5. LEASE DESIGNATION AND SERIAL NO.: NM- 85935

6. IF INDIAN, ALOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐

b TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER — SINGLE ZONE ☒ MULTIPLE ZONE ☐

8. FARM OR LEASE NAME, WELL NO.: Arrow "36" Federal No. 2

2. NAME OF OPERATOR: Pogo Producing Company

9. API WELL NO.:

3. ADDRESS AND TELEPHONE NO.: P.O. Box 10340, Midland, Texas 79702

10. FIELD AND POOL, OR WILDCAT: Wildcat (Bone Springs)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FSL & 660' FWL of Section 36

11. SEC., T., R., OR BLK. AND SURVEY OR AREA: Section 36, T-21S, R-32E

At proposed prod. zone: Same Unit L

SECRETARY'S POTASH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE.: 35 miles east of Carlsbad, New Mexico

12. COUNTY OR PARISH: Lea Co. — 13. STATE: N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
660'	640	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
1320'	9100'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3679' Ground Level

CARLSBAD CONTROLLED WATER BASIN

22. APPROX. DATE WORK WILL START*: Upon Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14-3/4"	10-3/4" H-40	32.75#	750'	600 sx Class "C"(Circulate)
9-7/8"	7-5/8" J-55	26.40#	4,950'	1200 sx (Circulate)
6-3/4"	4-1/2" J-55,N-80	11.60#	9,100'	1200 sx (4700')

WITNESS

The Operator proposes to drill to a depth sufficient to test the Delaware and Bone Springs for oil. Specific programs are outlined in the following attachments:

DRILLING PROGRAM
SURFACE USE AND OPERATING PLAN
EXHIBIT "A" - ROAD MAP
EXHIBIT "B" - EXISTING WELL MAP
EXHIBIT "C" - LOCATION AND DEDICATION PLAT
EXHIBIT "C-1" - TOPO MAP
EXHIBIT "D" - DRILLING RIG LAYOUT
EXHIBIT "E" - 3M BOP EQUIPMENT

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

acs 2/12/98

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

24.

SIGNED Joan M. C. Rodgers TITLE Agent DATE 1/12/98

(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 /s/ Sheldon Hitchcock TITLE Acting State Director DATE 2-19-98

*See Instructions On Reverse Side

Title 18 U.S.C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DRILLING PROGRAM

Attached to Form 3160-3

Pogo Producing Company

Arrow "36" Federal No. 2
1980' FSL & 660' FWL
Unit Letter L, NW/SW
Section 36, T21S, R32E
Lea County, New Mexico

1. **Geologic Name of Surface Formation:** Permian

2. **Estimated Tops of Important Geologic Markers and**
3. **Estimated Depths of Fresh Water, Oil, and Gas:**

Formation	Depth	Fluid Content
Permian	Surface	Fresh water at ±250'
Rustler Anhydrite	500'	-----
Top of Salt	900'	-----
Delaware Lime	4740'	-----
Bell Canyon	4890'	-----
Bone Springs	8740'	Oil
Total Depth	9100'	

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 10-3/4" casing at 750' into the Rustler anhydrite and circulating cement to surface. Potash will be protected by the setting of 7-5/8" intermediate casing at 4950' and circulating cement to surface. 4-1/2" production casing will be set at TD, and cement will be tied back to at least 200' into the 7-5/8" intermediate casing, thus ensuring that all zones are adequately isolated. The pore pressure gradient is normal (+8.4 ppg) down through the Delaware. No abnormal pressures are anticipated.

4. **Casing and Cementing Program**

Hole Size	Casing From	To	Casing OD	Weight, Grade, Coupling
14-3/4"	0'	750'	10-3/4"	32.75# H-40 STC
9-7/8"	0'	4950'	7-5/8"	26.40# J-55 STC
6-3/4"	0'	1000'	4-1/2"	11.60# N-80 LTC
6-3/4"	1000'	7500'	4-1/2"	11.60# J-55 LTC
6-3/4"	7500'	9100'	4-1/2"	11.60# N-80 LTC

All used casing will be drifted and hydrostatically tested to at least 90% of new pipe rating.

Minimum Design Factors: Collapse 1.125, Burst 1.1, Tension 1.7

10-3/4" surface casing set at 750'
The surface casing will be set into the Rustler anhydrite to protect all fresh water formations.
Centralize the bottom 3 joints and every 4th joint to surface.
Cement to surface with 500 sx of Class "C" cement.

7-5/8" intermediate casing set at 4950'
The intermediate casing will be set within 100' of the top of the Delaware to isolate all salt stringers. Centralize the bottom 3 joints and every third joint thereafter. Cement to surface with 1200 sx Class "C" cement.

4-1/2" production casing set at 9100'
Centralize the bottom 3 joints and every third thereafter to the bottom of the intermediate casing. Cement to tie back into 7-5/8" intermediate casing at least 200'. Cement with 1200 sx Class "H" cement.

5. **Minimum Specifications for Pressure Control:**

9-7/8" hole

The following BOP equipment will be nippled up on the 10-3/4" casing and used continuously until TD is reached for the 9-7/8" hole.

The blowout preventer equipment (BOP) shown in Exhibit E will consist of a 3000-psi WP double ram type preventer. BOP will be hydraulically operated. H2S trim will not be required.

Before drilling out from under the 10-3/4" surface casing, all BOP's and accessory equipment will be tested to 1500 psi. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

BLM method to calculate minimum BOP requirements:
(.052)(10.0 ppg)(4950') - (0.22 psi/ft)(4950') = 1485 psi
Minimum BOP requirements: 2M BOP stack and manifold system

6-3/4" hole

The following BOP equipment will be nippled up on the 7-5/8" casing and used continuously until TD is reached for the 6-3/4" hole.

The blowout preventer equipment (BOP) shown in Exhibit E will consist of a 3000-psi WP double ram type preventer. BOP will be hydraulically operated. H2S trim will not be required.

Before drilling out from under the 7-5/8" intermediate casing, the BOP and accessory equipment will be tested to 2000 psi. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

BLM method to calculate minimum BOP requirements:
(.052)(8.4 ppg)(9100') - (0.22 psi/ft)(9100') = 1973 psi
Minimum BOP requirements: 2M BOP stack and manifold system

6. **Proposed Mud System:**

The well will be drilled to TD with a combination of fresh water and 10# brine. The applicable depths and properties of this system are as follows:

Depth	Type	Weight (ppg)	Viscosity (sec)	Water Loss (cc)
0-750'	Fresh water	8.4	28	NC
750'-4950'	Brine	10.0	29	NC
4950'-TD	Fresh	8.4	28-32	20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation requirements will be kept at the wellsite at all times.

7. **Auxiliary Well Control and Monitoring Equipment:**

a) A kelly cock will be kept in the string at all times.

b) A full opening drill pipe stabbing valve (TIW/inside BOP) with proper drill pipe connections will be on the rig floor at all times.

c) An electronic pit volume totalizer system will not be used. The drilling fluids system will be visually monitored at all times.

d) A mudlogging unit might be monitoring drilling penetration rate and hydrocarbon shows from 4950' to TD.

8. **Logging, Testing, and Coring Program:**

a) Drillstem tests will be run on the basis of drilling shows.

b) The electric logging program will consist of:
   1) 6-3/4" hole - Gamma ray, dual induction log, compensated neutron and litho-density logs.

c) No conventional cores are planned. Selected intervals may be sidewall cored based upon shows and openhole logs.

d) Further testing procedures will be determined after the 4-1/2" production casing has been cemented at TD.

9. **Abnormal Conditions, Pressures, Temperatures, and Potential Hazards:**

No abnormal pressures, temperatures, or other potential hazard are anticipated.

No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported, or are known to exist at this depth in this area. No major lost circulation zones have been reported in offsetting wells.

The maximum anticipated bottom hole pressure is approximately 3940 psi. (9100' x .433 psi/ft = 3940 psi.)
The maximum anticipated bottom hole temperature is 118° F.

10. **Anticipated Starting Date and Duration of Operations:**

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is February 20, 1998. Once commenced, the drilling operation should be complete in 15 days. If the well is productive, an additional 30 days will be required for completion, testing, and installation of permanent facilities.

SURFACE USE AND OPERATING PLAN

Attached to Form 3160-3

Pogo Producing Company

Arrow "36" Federal No. 2
1980' FSL & 660' FWL
NW/SW Unit Letter L
Section 36, T21S, R32E
Lea County, New Mexico

Located:	35 miles east of Carlsbad, New Mexico
Federal Lease Number:	NM-85935
Lease Issued:	N/A
Acres in Lease:	640 acres
Record Lessee:	Pogo Producing Company
Surface Ownership:	U.S.A.
Grazing Permittee:	J.C. Mills P.O. Box 190 Abernathy, Texas 79311
Pool:	Wildcat (Delaware/Bone Springs)
Pool Rules:	The 40 acre oil well spacing rules apply to this location, being 330' to the nearest side boundary or 1/4-1/4 section line, nor closer than 330' to the nearest well capable of producing from the same formation.
Exhibits:	A. Road Map B. Existing Wells Map C. Well Location and Acreage Dedication Plat C-1. Topo Map D. Drilling Rig Layout Diagram E. BOP Equipment

1. **Existing Roads:**

a) The well site and elevation plat for the proposed well is shown in Exhibit C. It was staked by John West Engineering, Hobbs, N.M.

b) All roads to the location are shown on Exhibit B. The existing roads are illustrated in black and are adequate for travel during drilling and production operations. Upgrading of the road prior to drilling will be done where necessary as determined during the onsite inspection.

c) Directions to Location: Go east of Carlsbad, New Mexico on Highway 62/180 30 miles to Highway 176. Turn right and go east-southeast 6 miles to caliche road heading south. Go south on caliche road 5.6 miles to pipeline road on right. Turn right and go west southwest 4500' to flagging on right side of road. This is the beginning of the access road.

d) Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. **Proposed Access Road:**

Exhibit C-1 shows the new access road to be constructed and is illustrated in green. The proposed access road as shown in Exhibit C-1 has been centerline flagged by John West Engineering, Hobbs, N.M. The road will be constructed as follows:

a) Length and Width: The access road will be 1577' long and 15' wide.

b) Surfacing Material: Caliche material will be used to surface the proposed road. It will be watered, compacted, and graded. Caliche will be obtained from either the reserve pit or a borrow pit on the proposed location as described in Item 6 of the Surface Use and Operating Plan.

c) Drainage Design: The new road will be crowned at the center to direct drainage to ditches on both sides of the roadway with turnout ditches to be constructed as required. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. BLM may specify any additions or changes during the onsite inspections.

d) Culverts: None required.

e) Cuts and Fills: A slight amount of leveling will be required as the access road crosses several small sized sand dunes on the way to the proposed location.

f) Gates and Cattle Guards: There will be no gates or cattleguards needed at this location.

3. **Location of Existing Wells:**

Exhibit No. B shows all existing wells within a one-mile radius of this well.

4. **Location of Existing and/or Proposed Facilities:**

a) Pogo Producing Company does not operate a production facility on the Arrow "36" Federal lease. A battery will be set up on well #1.

b) If the well is productive, contemplated facilities will be as follows:

A polyline will be laid alongside approved access roads to battery.

c) An electric power line will be constructed as shown on Exhibit C-1.

5. **Location and Type of Water Supply:**

The well will be drilled with a combination of brine and fresh water mud system as outlined in the drilling program.

The water necessary for drilling operations will be purchased and trucked to the wellsite, or will be moved to the wellsite by way of a temporary pipeline laid on the ground alongside existing and proposed roads.

6. **Source of Construction Materials:**

Caliche needed for the road and well pad will be taken from the proposed reserve pit. An alternate plan will be to obtain caliche from a borrow pit located within the 400' x 400' archaeologically cleared tract at the proposed well site. If sufficient quality or quantity of caliche is not available, it will be transported to the proposed road and well site from an existing BLM approved caliche pit. The BLM will be notified and consulted if caliche must be obtained off location.

7. **Method of Handling Waste Disposal:**

a) Drill cuttings will be disposed into the reserve pit.

b) Drilling fluids will be contained in the reserve pit. The reserve pit will be an earthen pit, approximately 150' x 150' x 6' deep and fenced on three sides prior to drilling. The fourth side will be fenced immediately following rig removal. The reserve pit will be lined with plastic (5-7 mil thickness) to minimize loss of drilling fluids.

c) Water produced from the well during completion may be disposed into the reserve pit or a steel tank (depending upon rates).

d) Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.

e) Oil produced during testing will be stored in steel test tanks until sold.

f) Trash, waste paper, garbage, and junk will be placed in a trash bin located on the drill site pad. It will be transported to an approved landfill for disposal within 30 days after completion of drilling and/or completion of operations. All waste material will be contained to prevent scattering by the wind.

g) A portable chemical toilet will be provided on the location for human waste during the drilling and completion operations.

8. **Ancillary Facilities:**

No other facilities will be built as a result of the operations on this well.

9. **Well Site Layout:**

a) Exhibit D shows the relative location and dimensions of the well pad, mud pits, reserve pit, location of the major rig components, and location of parking areas.

b) Cut and fill requirements will be minor, but clearing and leveling of the well site will be necessary. Topsoil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection.

c) The reserve pit will be lined with a high quality plastic sheeting (5-7 mil thickness).

d) The pad and pit area are staked and flagged.

10. **Plans for Reclamation of the Surface:**

a) After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. The pit area will be allowed to dry before reclamation. If the borrow pit is constructed, the cuttings in the reserve pit will be deep buried in the borrow pit, and the reserve pit and borrow pit will be broken out, filled, and leveled. The location will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.

b) Three sides of the reserve pit will be fenced prior to and during drilling operations. The borrow pit will be fenced on all four sides after the location is built. At the time the rig is removed, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from being entrapped in the pits. The fencing will remain in place until the pits are cleaned up and leveled.

c) After abandonment, all equipment, trash, and junk will be removed and the well site will be cleaned.

d) Topsoil removed from the drill site will be used to re-contour the pit area to the original natural level. The disturbed area will be revegetated by reseeding during the proper growing season with a seed mixture of native grasses as recommended by the BLM.

11. **Other Information:**

a) Topography: The land surface in the area is undulating with small sand dunes. In the immediate area of the well site, the land slope is to the southwest.

b) Soil: Topsoil at the well site is loamy sand.

c) Flora and Fauna: The vegetation cover is moderate. It includes range grasses, weeds, scrub oak bushes, and mesquite bushes. Wildlife in the area is that typical of a semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, hawks, dove, quail, and other small birds.

d) Ponds and Streams: There are no ponds or streams in the immediate area of the proposed location.

e) Residences and Other Structures: There are no occupied dwellings or other structures within a mile of the proposed well site.

f) Archaeological, Historical, or other Cultural Sites: None are known of in the area. An Archaeological survey has been conducted.

g) Land Use: Grazing, oil and gas production, and wildlife habitat.

h) Surface Ownership: U.S.A.

12. **Operator's Representative:**

Richard L. Wright
Division Operations Supervisor
Pogo Producing Company
P.O. Box 10340
Midland, Texas 79702
(915) 685-8100

13. **Certification**:

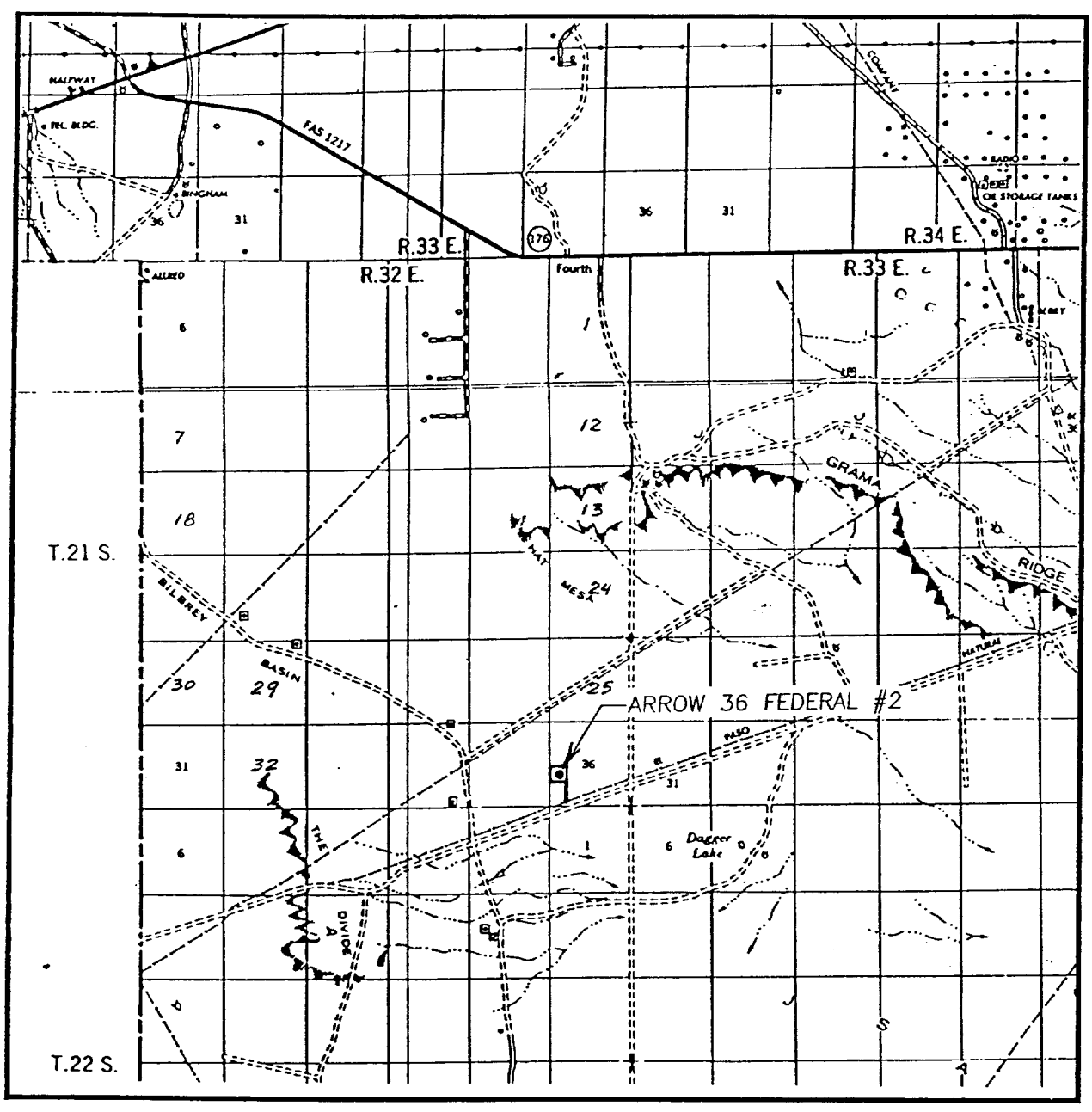
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Pogo Producing Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U. S. C. 1001 for the filing of false statement.

1-12-98
Date

James M.C. Ritchie, Jr.
Agent

Enclosures

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 36 TWP. 21-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1980' FSL & 660' FWL

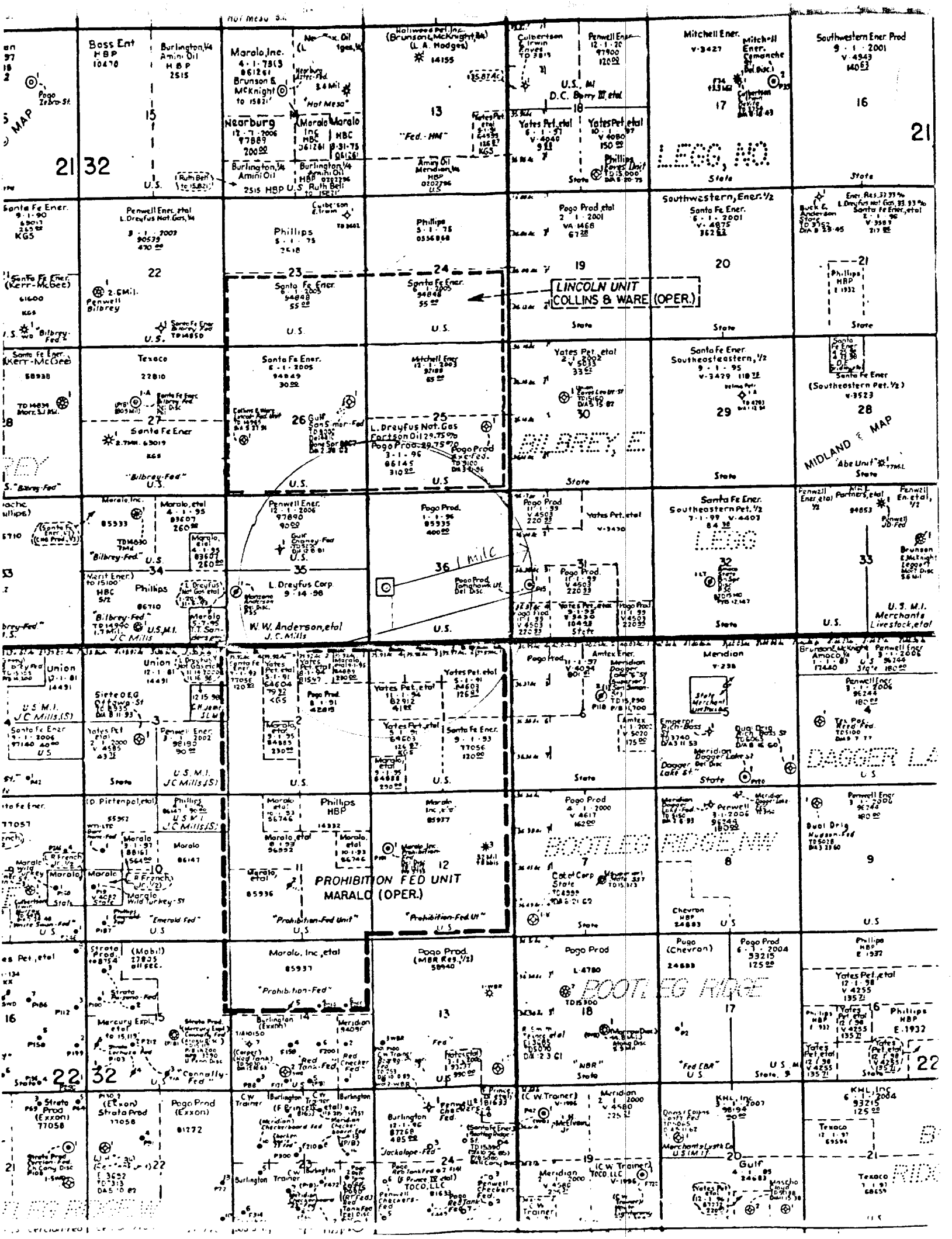
ELEVATION 3679'

OPERATOR POGO PRODUCING CO.

LEASE ARROW 36 FEDERAL

EXHIBIT "A"

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


Hot Meso
Bass Ent HBP 10470
Burlington Amini Oil HBP 2515
Marolo, Inc. 4-1-78 B 061261 Brunson & McKnight to 15821
Nearburg 12-1-2006 97869 200 00
Marolo Inc HBC B-31-75 061261
Burlington Amini Oil HBP 2515 HBP U.S. Ruth Bell to 15821
Hollwood Prt. Inc. (Brunson, McKnight, &al) (L. A. Hodges) 14155
Amini Oil Meridian HBP 0202796 U.S.
Culbertson & Irwin Pawell TD 3815
U.S. Mi D.C. Berry III, etal
Yates Pet, etal 6-1-97 V-4940 9 00
Yates Pet, etal 10-1-97 V 4080 150 00
Phillips Lewis Unit TD 15,000
Mitchell Ener. V-3427
Mitchell Ener. Comanche Fed. (Del. Disc.)
Southwestern Ener. Prod 9-1-2001 V-4943 140 63
Santa Fe Ener. 9-1-90 69019 265 00 KGS
Penwell Ener. etal L. Dreyfus Nat. Gas, 1/4 9-1-2003 90539 470 00
Phillips 5-1-75 2518
Phillips 5-1-75 0556868
Pogo Prod, etal 2-1-2001 VA-1468 67 28
Southwestern, Ener. 1/2 Santa Fe. Ener. 6-1-2001 V-4875 362 63
Buck E. Anderson Store TD 3552 DIA 8 23 45
Santa Fe Ener. etal 2-1-96 V-3987 217 00
Santa Fe Ener. (Kerr-McGee) 61600 KGS
Penwell Bilbrey
Santa Fe Ener. 6-1-2005 94848 55 00
LINCOLN UNIT COLLINS & WARE (OPER.)
Phillips HBP E 1932
Santa Fe Ener. (Kerr-McGee) 58938 TD 14836
Texaco 22810
Santa Fe Ener. 2.7 MM. 69019 565
"Bilbrey-Fed" U.S.
Santa Fe Ener. 6-1-2005 94849 30 00
Gulf Cons. Mor-Fed TD 3500 DIA 2 36 62
L. Dreyfus Nat. Gas Fortson Oil 29.75% Pogo Prod. 29.75% 3-1-96 86145 310 00 Pogo Prod Certified TD 3100 DIA 3-1-96
Mitchell Ener 12-1-2003 97188 85 00
Yates Pet, etal 2-1-2002 V 5033 33 00
Santa Fe Ener Southeastern, 1/2 9-1-95 V-3429 118 75
Santa Fe Ener (Southeastern Pet. 1/2) V-3523
MIDLAND MAP
Abe Unit 77 M.L.
Morale, Inc. 85933
Morale, etal 4-1-95 B 36607 260 00
Merit Ener. to 15100 HBC 5/2 86710
Phillips
L. Dreyfus Nat. Gas etal
Morale etal 4-1-95 B 36607 260 00
"Bilbrey-Fed" U.S.M.I. J.C. Mills
Penwell Ener. 12-1-2006 97890 90 00
Gulf Chaney-Fed DIA 12 8 81
L. Dreyfus Corp 9-14-98
W. W. Anderson, etal J. C. Mills
Pogo Prod. 1-1-96 85935 400 00
36 1 MILE
Pogo Prod Tonghouse Ut. Del. Disc.
Pogo Prod 12-1-99 V 4503 220 33
Yates Pet, etal V-3430
Pogo Prod. 12-1-99 V 4503 220 33
Pogo Prod 12-1-99 V 4503 220 33
Yates Pet, etal 9-1-95 V 3430 184 98 Strata
Pogo Prod V 4503 220 33
Santa Fe Ener. Southeastern Pet. 1/2 7-1-99 V-4403 84 38
Pawell Ener. etal 1/2
Pawell Partners, etal 94853
Pawell Ener. etal, 1/2
Pawell J.D. Fed
Brunson & McKnight Logan Mort. Disc 56 MI.
U.S.M.I. Merchants Livestock, etal
Union 12-1-81 14491
Siete O&G Offstamp-St TD 8335 DIA 8 11 93
U.S.M.I. J.C. Mills (S)
Santa Fe Ener 9-1-2006 97840 40 00 U.S.
Yates Pet, etal 2-1-2000 V 4585 63 33
Pawell Ener. 3-1-2002 96192 90 00
U.S.M.I. J.C. Mills (S)
Yates Pet, etal 5-1-91 B 64604 79 32 KGS
Pogo Prod. 8-1-91 42815
Morale, etal 9-1-95 B 64885 230 00
Yates Pet, etal 5-1-91 B 64603 126 67 KGS
Morale, etal 9-1-95 B 64888 230 00
Yates Pet, etal 11-1-94 B 2912 41 82
Santa Fe Ener. 9-1-93 77056 120 00
Pogo Prod 4-1-97 V 4034 90 00
Amtex Ener. 12-1-2002 V 5020 175 00
Meridian V-238
Brunson, McKnight Amoco 1/2 1-1-83 17440
Pawell Ener. 3-1-2006 96244 180 00
Pawell Ener. 3-1-2006 96244 180 00
Tex Pac Ward Fed. TD 5100
Dual Drlg Hudson-Fed TD 5028 DIA 3 23 60
D. Pietenpol, etal U.S.M.I. J.C. Mills (S)
Morale 3-1-97 B 8816 564 00
Morale Wild Turkey-St
Morale 86147
Emerald Fed
Morale, etal 8-1-93 96992
Phillips HBP 14332
Morale, etal 10-1-93 B 64746
Morale, etal 85936
PROHIBITION FED UNIT MARALO (OPER.)
"Prohibition-Fed Unit"
Morale Inc, etal 85937
"Prohibition-Fed Ut"
Pogo Prod 4-1-2000 V 4617 162 00
Cabot Corp State TD 4990
BOOTLEG RIDGE
Chevron HBP 24683 U.S.
Pawell Ener 3-1-2006 96244 180 00
Dual Drlg Hudson-Fed TD 5028 DIA 3 23 60
Strata Prod. 8754 (Mobil) 27825 oil sec.
Mercury Expl. etal to 15,119
Burlington (Exxon) 7/A10150
Meridian 94097
Red Tanks-Fed
Connally-Fed
Morale, Inc, etal 85937
"Prohibition-Fed"
Pogo Prod. (MBR Req. 1/2) 58940
MBR
Fed
Pogo Prod L-4780
BOOTLEG RIDGE
Pogo (Chevron) 24683
Pogo Prod 6-1-2004 93215 125 00
"NBR" State
"Fed EBA" U.S.
Phillips HBP E 1932
Yates Pet, etal 12-1-98 V 4255 135 71
Strata Prod (Exxon) 77058
Strata Prod (Exxon) 77058
Pogo Prod (Exxon) 81272
C.W. Trainer
Burlington Trainer
Burlington 12-1-96 87768 485 00
"Jackalope-Fed"
Pogo Red Tanks Fed #2 #4 (Del) TOCO, LLC
Pawell Checkers-Fed
Pawell Checkers Fed
Red Tanks Fed
(C.W. Trainer) Meridian 2-1-2000 V 4580 225 31
Meridian (C.W. Trainer) TOCO, LLC V-1996
KHL, Inc 6-1-2007 98194 20 00
Merchants Lyst & Co U.S.M.I.
KHL, Inc 6-1-2004 93215 125 00
Texaco 12-1-97 69594
Gulf 4-1-95 24683
Texaco 7-1-97 68659

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, N.M. 87504-2089

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-34318	✓	WILDCAT (DELAWARE/BONE SPRINGS)

Property Code	Property Name	Well Number
22506	ARROW 36 FEDERAL	2

OGRID No.	Operator Name	Elevation
017891	POGO PRODUCING CO.	3679'

Surface Location

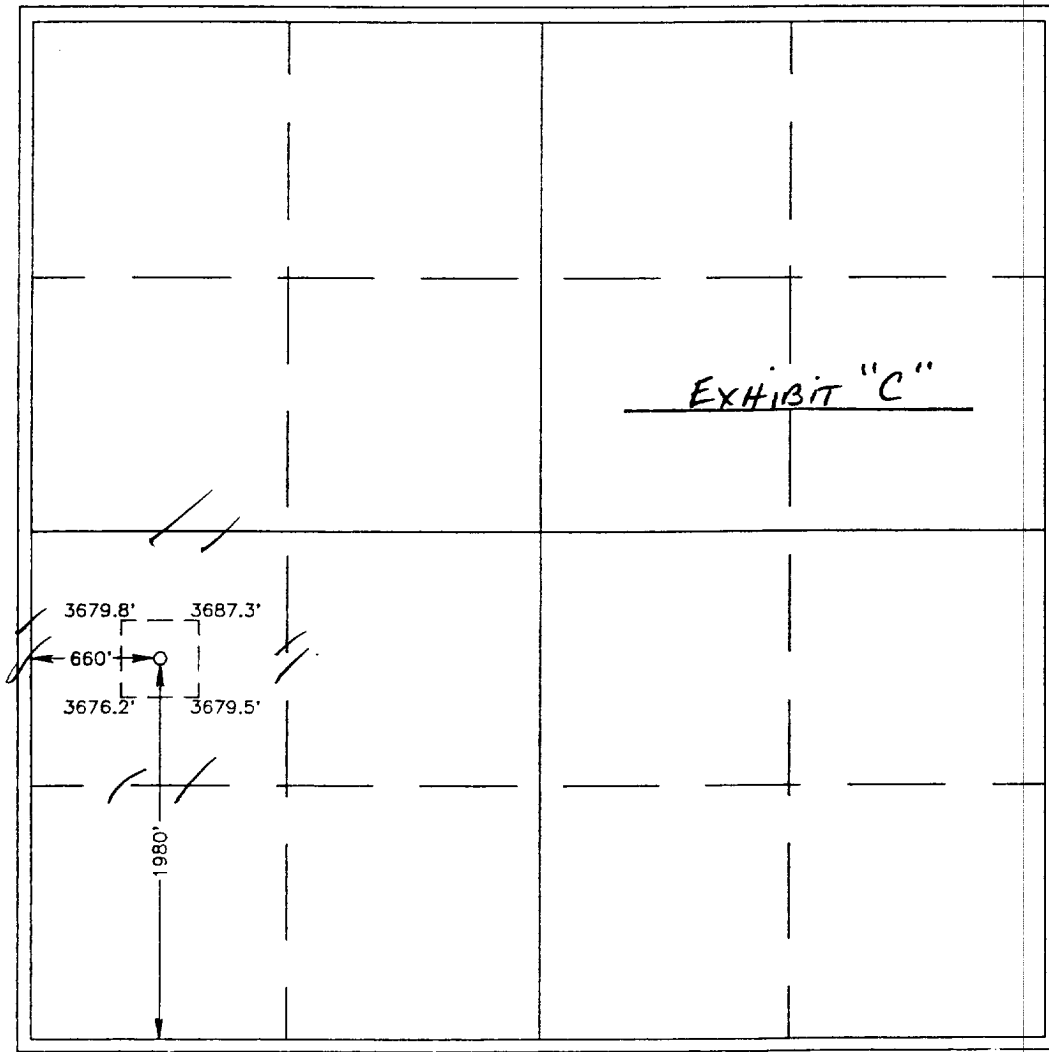
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	36	21 S	32 E		1980	SOUTH	660	WEST	LEA

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	Joint or Infill	Consolidation Code	Order No.
40			

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.

James M.C. Ritchie Jr.
Signature

James M.C. Ritchie Jr.
Printed Name

Agent
Title

1-12-98
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 supervison, and that the same is true and correct to the best of my belief.

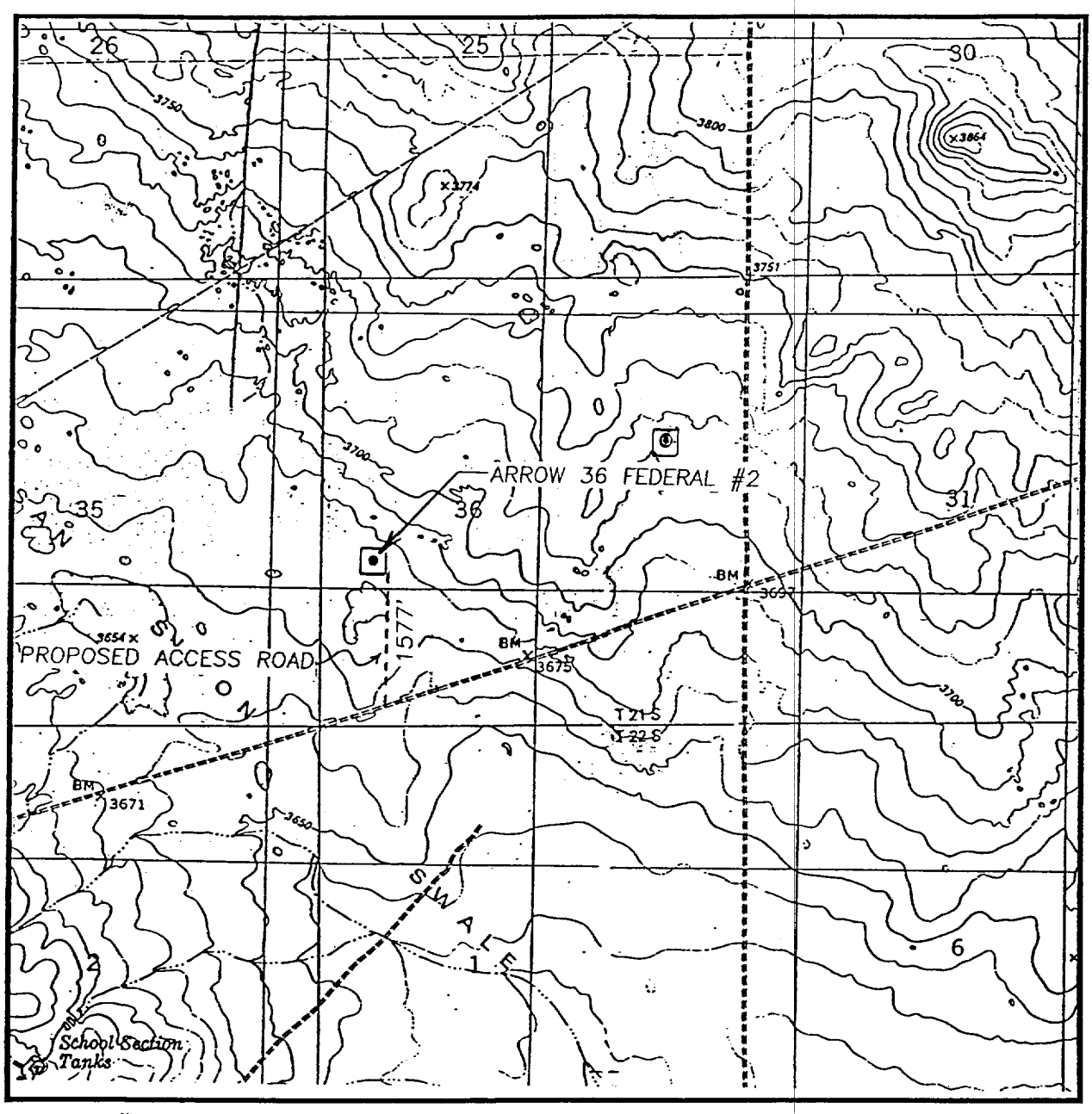
DECEMBER, 31 1997
Date Surveyed CDG

Signature & Seal of Professional Surveyor
RONALD J. EIDSON
NEW MEXICO
Ronald J. Eidson 01-07-98

97-11-2109

Certificate No. RONALD J. EIDSON 3239
GARY L. EIDSON 12641

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL – 10'

SEC. 36 TWP. 21-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1980' FSL & 660' FWL

ELEVATION 3679'

OPERATOR POGO PRODUCING CO.

LEASE ARROW 36 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

GRAMA RIDGE, THE DIVIDE, NM

EXHIBIT "C-1"

JOHN WEST ENGINEERING

HOBBS, NEW MEXICO

(505) 393-3117

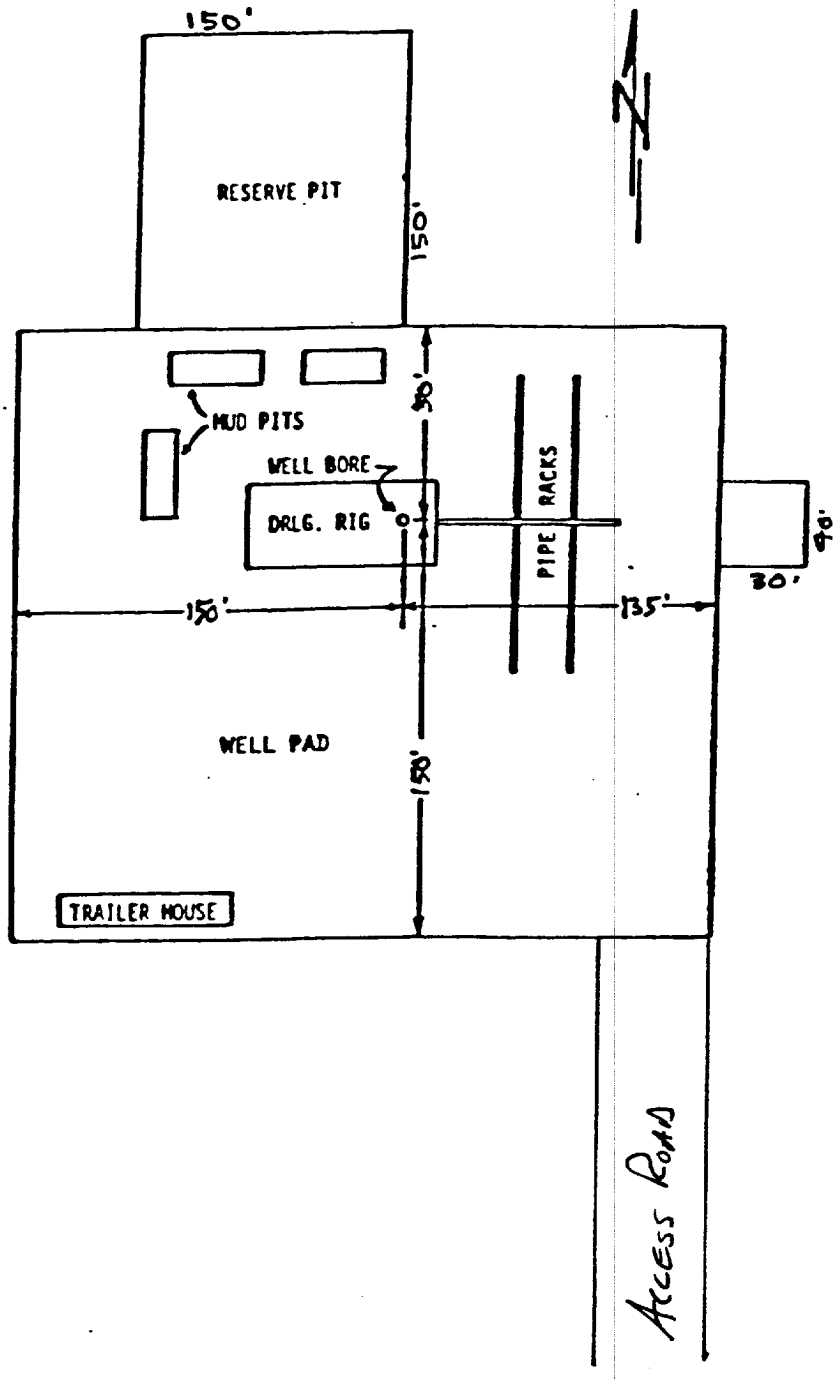


EXHIBIT "D"

Pogo Producing Company

ARROW "36" FED. No. 2

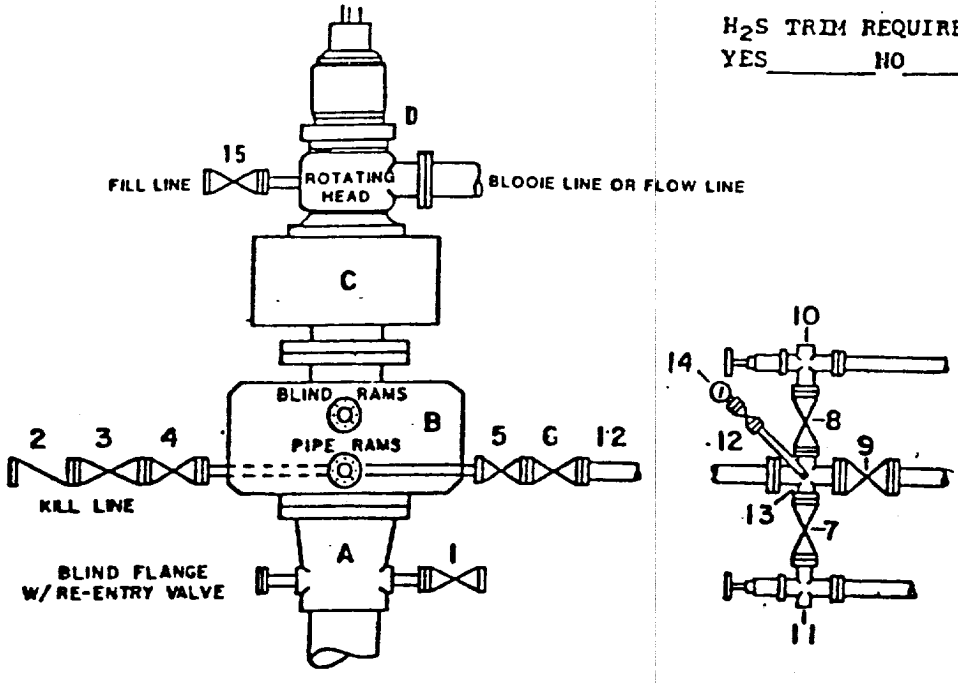
DRILLING RIG LAYOUT

SCALE: None

DRILLING CONTROL

CONDITION III-B 3000 PSI WP

H_2S TRIM REQUIRED
YES_____ NO_____



DRILLING CONTROL

MATERIAL LIST - CONDITION III - B

A	Wellhead
B	3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where substructure height is adequate, 2 - 3000# W.P. single ram preventers may be utilized with 3000# W.P. drilling spool with 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line. The drilling spool is to be installed below the single ram type preventers).
C	3000# W.P. Annular Preventer with 1" steel, 3000# W.P. control lines.
D	Rotating Head with fill up outlet and extended Blooie line.
1,3,4, 7,8,	2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
2	2" minimum 3000# W.P. back pressure valve.
5,6,9	3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
12	3" minimum Schedule 80, Grade B, seamless line pipe.
13	2" minimum x 3" minimum 3000# W.P. flanged cross.
10,11	2" minimum 3000# W.P. adjustable choke bodies.
14	Cameron Mud Gauge or equivalent (location optional in Choke line).
15	2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

SCALE	DATE	EST. NO	DRG NO.
DRAWN BY			
CHECKED BY			
APPROVED BY			

EXHIBIT E

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Operators Name	Pogo Producing Company
Street or Box	P.O. Box 10340
City, State	Midland, Texas
Zip Code	79702

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

Lease No. NM- ~~85935~~ 85935

Legal Description of Land: NW/SW of Section 36, T-21S, R-32E

Formation(s) (if applicable): Delaware / Bone Springs

Bond Coverage: (State if individual bonded or another's bond) Individual

BLM Bond file No. 0405

Authorized Signature: Richard L Wright

Title: Division Operations Supr.

Date: 1-12-98