

HOBBS OFFICE COPY  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instruction  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.

30-085-28113

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM - 17239
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Pogo Producing Company			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 10340 Midland, Texas 79702			8. FARM OR LEASE NAME Federal 18
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1980' FSL & 1996' FWL At proposed prod. zone 1980' FSL & 1996' FWL			9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20 miles southwest of Jal, New Mexico			10. FIELD AND POOL, OR WILDCAT Wildcat
15. LOCATION OF NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1980'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 18, T-26-S, R-34-E
16. NO. OF ACRES IN LEASE 1869.2			12. COUNTY OR PARISH Lea
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			13. STATE New Mexico
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3850'			19. PROPOSED DEPTH 5500'
20. ROTARY OR CABLE TOOLS Rotary			21. APPROX. DATE WORK WILL START* 12/20/82
22. ELEVATIONS (Show whether DF, RT, GR, etc.) 3372.3 GR			

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24	900'	700 sx Circulated
7 7/8	5 1/2	14 & 15.5	5500'	800 sx circulated

Proposal is to drill a well to adequately test the Delaware formation. Cement will be circulated to surface on the 8 5/8" surface casing and the 5 1/2" production casing.

Completion or abandonment will be performed in accordance with prudent practices and regulatory requirements.

Natural gas on this lease is not dedicated

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DEC 6 1982

U.S. GEOLOGICAL SURVEY  
HOBBS, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 <u>James R. Henry</u> TITLE <u>Division Engineer</u> DATE <u>11/30/82</u>		
(This space for Federal or State office use)		
(Orig. Sgd.) GEORGE H. STEWART		
PERMIT NO.	APPROVAL DATE	
DEC 17 1982		
APPROVED BY	TITLE	DATE
JAMES A. GILLHAM	DISTRICT SUPERVISOR	

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HONORARY

APPLICATION FOR DRILLING  
 POGO PRODUCING COMPANY  
 FEDERAL 18 NO. 1  
 LEA COUNTY, NEW MEXICO

In conjunction with permitting the captioned well for drilling in Section 18 T-26-S, R-34-E, Lea County, New Mexico, Pogo Producing Company submits the following in accordance with U.S.G.S. (NTL-6) letter dated July 1, 1976:

1. The surface formation is Quarternary sand and gravel.
2. Estimated tops of geologic markers as follows:
 

Dewey Lake Red Beds -----	460'
Rustler Anhydrite -----	863'
Delaware Lime -----	5257'
Delaware Sand -----	5297'
3. The depth at which oil, gas, or water are expceted is: 5297'
4. Casing program and cement:
 

8 5/8"	24# K-55 ST&C @ 900' w/700 sx Class C w/2% CaCl <sub>2</sub> plus 1/4# Flocele per sx. (Circ).
5 1/2"	14 & 15.5# K-55 ST&C @ 5500' w/600 sx Lite with 1/4# Flocele per sx plus 5# gilsonite per sx plus 200 sx Class C w/2% CaCl <sub>2</sub> (Circ).
5. Circulating Medium:
 

An earthen pit will be used to hold drilling fluids and cuttings. The drilling mud program is as follows:

Natural mud to 900'.	Seepage will be controlled with paper.
Brine water to 5500'	with a viscous sweep prior to logging.
6. One DST is planned for the Delaware Sand.
7. Ten foot samples of cuttings will be caught from the base of the surface pipe (900') to total depth.
8. Adequate electrical and resistivity logs will be run from total depth to the base of the surface casing at 900'. The gamma ray will be run to the surface.
9. No abnormal temperatures or additional hazards are expected to be encountered.
10. The anticipated starting date is December 20, 1982 with the completion expected by February 1, 1983.

CASING DESIGN

<u>CASING SIZE</u>	<u>SETTING DEPTH</u>		<u>WEIGHT</u>	<u>GRADE</u>	<u>JOINT</u>
	<u>FROM</u>	<u>TO</u>			
8 5/8"	0	900	24	K-55	ST&C
5 1/2"	0	5300	14	K-55	ST&C
5 1/2"	5300	5500	15.5	K-55	ST&C

## MULTIPOINT SURFACE USE AND OPERATION PLAN

POGO PRODUCING COMPANY

FEDERAL 18 NO. 1

1980' FSL &amp; 1996' FWL SEC. 18, T-26-S, R-34-E

LEA COUNTY, NEW MEXICO

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OIL & GAS  
GENERAL INVESTIGATIVE SERVICE  
DOWNEY, CALIFORNIA

This plan is submitted with the Application For Permit To Drill the captioned well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of drilling operations.

1. Existing Roads:

Existing roads in the vicinity of the planned well are shown on Exhibit A, attached. The well is located 20 miles Southwest of Jal, New Mexico. No additional improvement or maintenance of existing roads will be required.

2. Planned Access Roads:

From the existing road running down the east side of section 18, an access road will be constructed running West 1200'. The new road will be constructed 12' wide of Caliche compacted to 9 inches in depth. The center line of the access road has been staked and flagged.

3. Location of Existing Wells:

No producing wells in a 2 mile radius. P & A wells include nine Delaware Sand tests. Pogo has just finished drilling the Mosbacher 20 - 1 a 20,100' Fusselman test. See Exhibit B.

Sec. 9, T-26-S, R-34-E, - Wilson's Yates Fed. #1 drilled and abandoned  
5/7/63

Sec. 20, T-26-S, R-34-E, - Wilson's Leon Fed. #1 drilled and abandoned  
1/15/63

Sec. 18, T-26-S, R-34-E, - Kirklin's Gulf Fed. #1 drilled and abandoned  
7/8/61

Sec. 19, T-26-S, R-34-E, - Continental's Bradley #1 P & A in 1961

Sec. 19, T-26-S, R-34-E, - Continental's Bradley #2 drilled and abandoned  
4/7/59

Sec. 13, T-26-S, R-33-E, - Hill & Meekers Hall Fed. #1 drilled and  
abandoned 6/22/59

Sec. 13, T-26-S, R-33-E, - Continental's Bradley #1 drilled and  
abandoned 1/25/61

Sec. 25, T-26-s, R-33-E, - Hill & Meeker's Elloit Fed. #1 drilled and  
abandoned 9/8/59

Sec. 25, T-26-S, R-33-E, - Tennico's Del-Lea-Fed #1 drilled and  
abandoned 10/15/71

Sec. 20, T-26-S, R-34-E, - Pogo's Mosbacher 20 - 1 drilled and waiting  
on completion.

4. Location of Existing and/or Proposed Facilities:

There are no existing facilities on the lease at present. If production is established, producing facilities and tank battery will be constructed on the drilling pad and no additional surface disturbance will be required.

5. Location and Type of Water Supply:

Brine and fresh water used in the drilling of the well will be purchased and trucked to the well site over existing roads as shown on Exhibit A.

6. Source of Construction Materials:

Caliche will be added to the roadway and drilling pad and will be obtained from a Federal pit located in the SW  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  Sec. 21, T-26-S, R-33-E. The pit is 5 miles North of proposed drilling location. See Exhibit A.

Page 2.

7. Method of Handling Waste Disposal:

- A. Drilling cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits. Oil produced during tests will be stored in steel test tanks until sold. Water produced during tests will be disposed of in the drilling pits.
- C. Sewage will be collected in a pit at least 6' deep below an outside latrine. Suitable chemicals will be added to aid decomposition of the waste material and then back filled following completion of the well. A portable toilet will be utilized with waste picked up by a vacuum truck and removed from the area.
- D. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit C.
- E. All trash and debris will be buried or removed from the wellsite within 30 days after cessation of drilling or completion operations.

8. Ancillary Facilities:

None required.

9. Well Site Layout:

- A. Exhibit C shows the relative location and dimensions of the well pad, mud pits, reserve pits, trash pit and major rig components.
- B. The proposed well site is situated on flat land and will require only minimal levelling.
- C. The reserve pit will be lined.
- D. The pad and access road have been staked and flagged.

10. Plans for Restoration of the Surface:

- A. After completion of drilling and/or completion operations, all equipment and other materials not needed will be removed. Pits will be filled after sufficient drying time and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing condition.
- B. All unguarded pits containing fluids will be fenced until filled.
- C. After abandonment of the well, surface restoration will be in accordance with the agreement BLM regulations. Rehabilitation will be accomplished within 90 days after abandonment.

11. Other Information:

- A. Terrain - The well site will be situated on a gently rolling plain which trends to the southwest. This area is one of low hummocks, to 1.0 m in height, interspersed with denuded areas and, less frequently, very shallow deflation basins. The aeolian-deposited sandy soils are internally drained and belong to the Typic Torripsamment subgroup. Occasional caliche inclusions are also present, as are gravel-sized chert and quartzite cobbles on a less frequent basis.
- B. Floristics - The plant community on this landform consists of an overstory of Prosopis juliflora, Yucca glauca, Quercus havardii, Acacia constricta, Opuntia macrocentra, and Opuntia leptocaulis. Forbs include Gutierrezia sarothrae and Croton sp. The Gramineae family is represented by Chloris cuculata, Cenchrus incertus, Lycurus phleoides, Muhlenbergia spp., and Bouteloua sp.

Pogo Producing Company  
Federal 18 No. 1  
1980' FSL & 1996' FWL  
Sec. 18, T-26-S, R-34-E  
Lea County, New Mexico

Page 3.

- C. Ponds and Streams - None.
- D. Occupied Dwellings - None.
- E. Cultural Resources - No cultural resources were recorded.
- F. Land Use - Grazing and hunting in season.
- G. Surface Ownership - The surface in Section 18 is Federal land and the current grazing lessee is Dinwiddie Cattle Company.

Dinwiddie Cattle Company  
P.O. Box 374  
Roswell, New Mexico 88201

12. Operator's Representatives:

W.E. Barnes  
#9 Sunnygrove  
Odessa, Texas 79762  
Home Phone - (915) 362-7935

Bill J. Williams  
2821 Metz Drive  
Midland, Texas 79701  
Home Phone - (915) 694-2215  
Office Phone - (915) 682-6822

13. Certification:

I hereby certify that I or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently 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 and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

1-2-3-82  
Date

James R. Henry  
James R. Henry  
Division Engineer  
Pogo Producing Company

NEW MEXICO CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION

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Supersedes C-124  
11/1/82

NOV 29 1982

Pogo Producing Co.

Fed. 18

MIDLAND

1

K

18

26 South

34 East

Lea

9

1980

South

1996

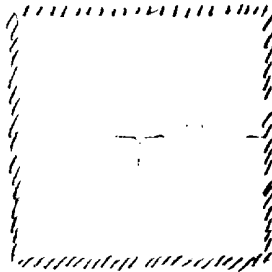
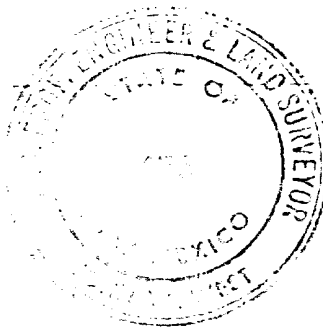
West

3372.3

Delaware

Wildcat

40



*James R. Henry*

James R. Henry

Division Engineer

Pogo Producing Company

11/30/82

I hereby certify that the well location shown on this plan was plotted from the lines of survey and is correct to the best of my knowledge and belief.

November 27, 1982

*John W. West*

John W. West, N.M. #676

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION

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Form O-121  
Superceded C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

NOV 29 1982

Pogo Producing Co.

Fed. 18

MIDLAND

K

18

26 South

34 East

Lea

1960

South

1996

West

3372.3

Delaware

Wildcat

40

Plat 2 is attached to the subject section, showing the location of the well.

The well is located at the intersection of the section line and the section line, and is identified by the name of the well.

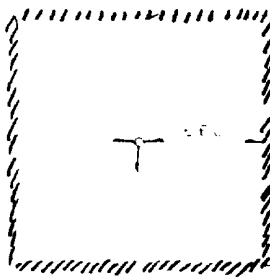
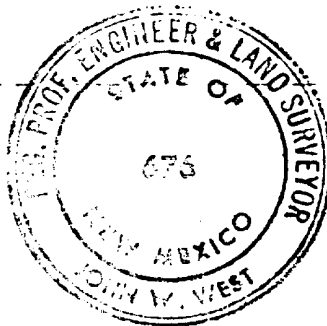
The well is located at the intersection of the section line and the section line, and is identified by the name of the well.

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The well is located at the intersection of the section line and the section line, and is identified by the name of the well.

**ILLEGIBLE**



I hereby certify that the information shown here is true and complete to the best of my knowledge and belief.

*James R. Henry*

James R. Henry

Division Engineer

Pogo Producing Company

11/30/82

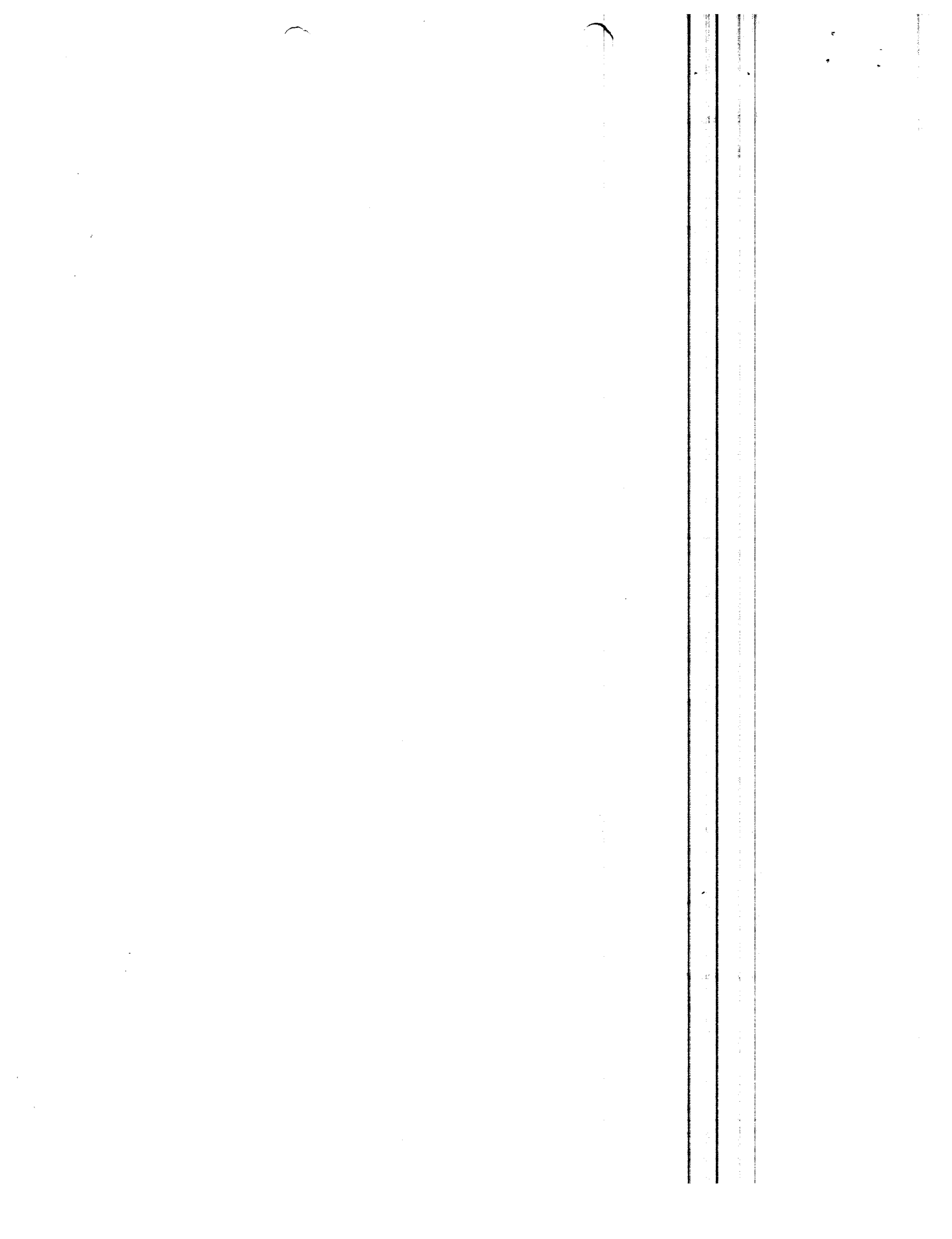
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

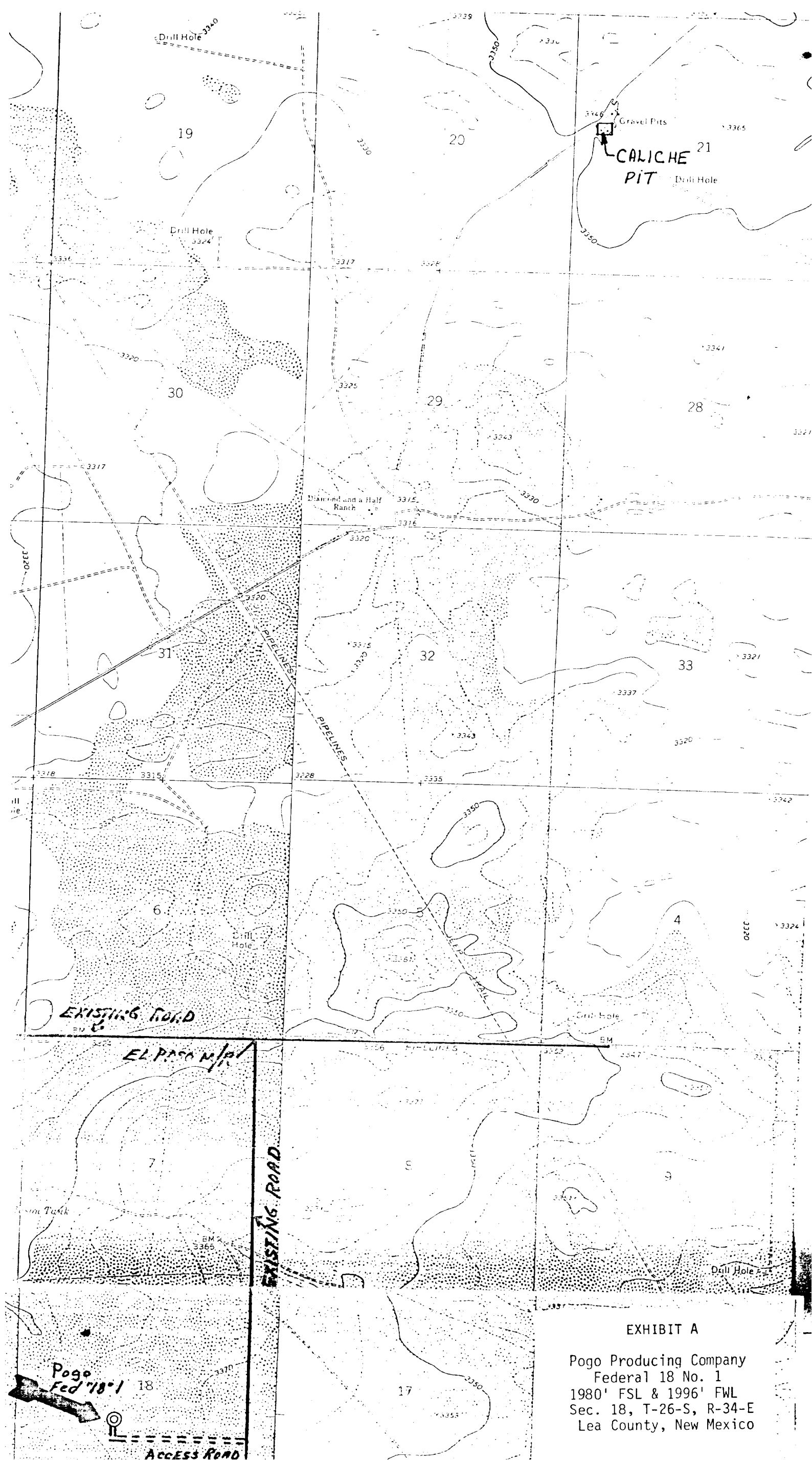
November 27, 1982

*John W. West*

John W. West, N.M. #676







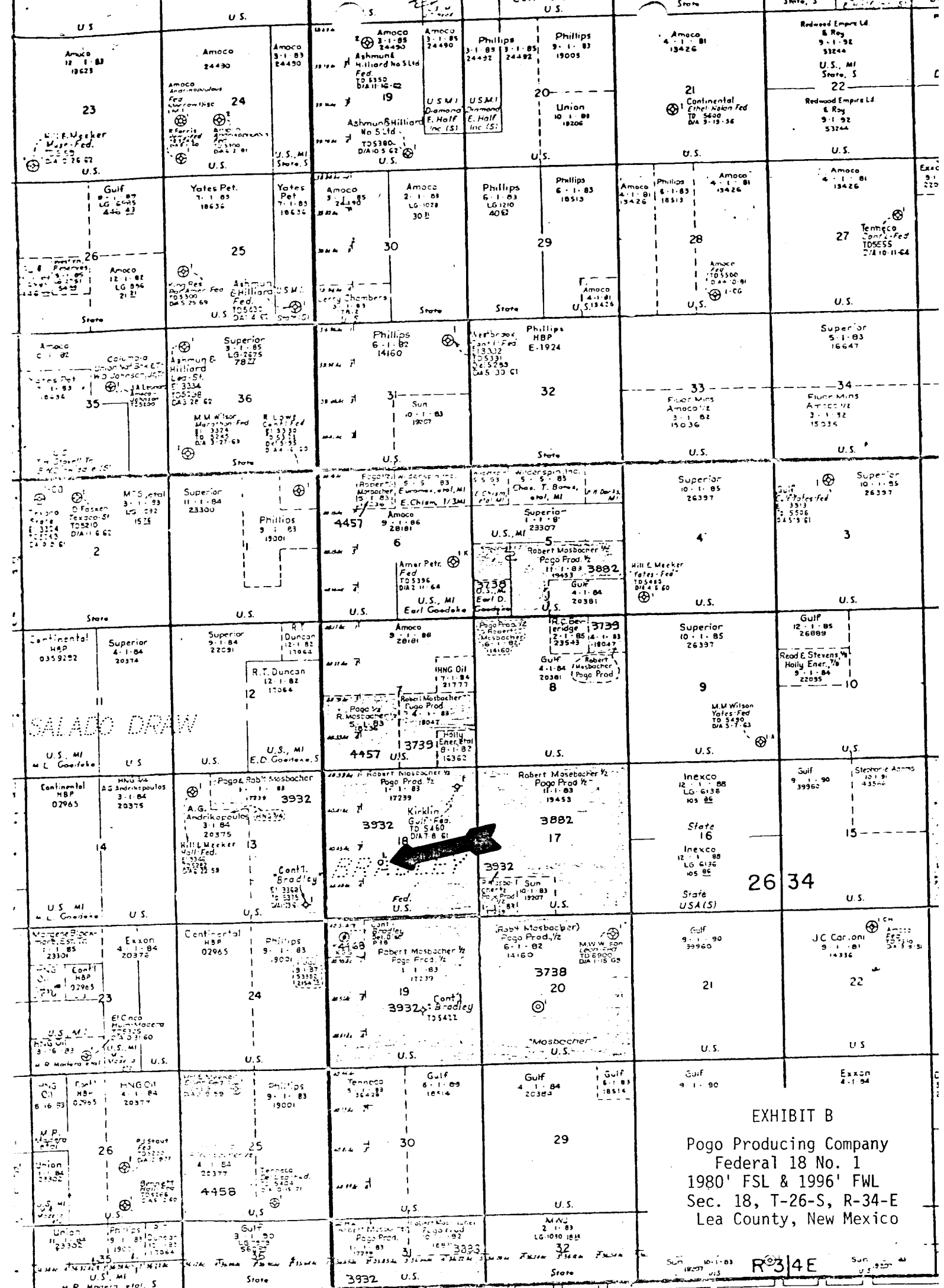


EXHIBIT B  
Pogo Producing Company  
Federal 18 No. 1  
1980' FSL & 1996' FWL  
Sec. 18, T-26-S, R-34-E  
Lea County, New Mexico

R34E

# N T E X A S

NOV 1 1992 Own

- LEGEND
- Wellcut - 500' or Discovery
  - Location
  - Abandoned Location
  - Completed - Producing Oil
  - Completed - Producing Gas
  - Dry & Abandoned
  - Slant Lettering - Fee
  - Vertical Lettering - Lease

West LEAK  
SCALE



Eng. & Survey Co. Federal Lands Map  
not removed until new lease issued.

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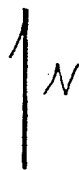
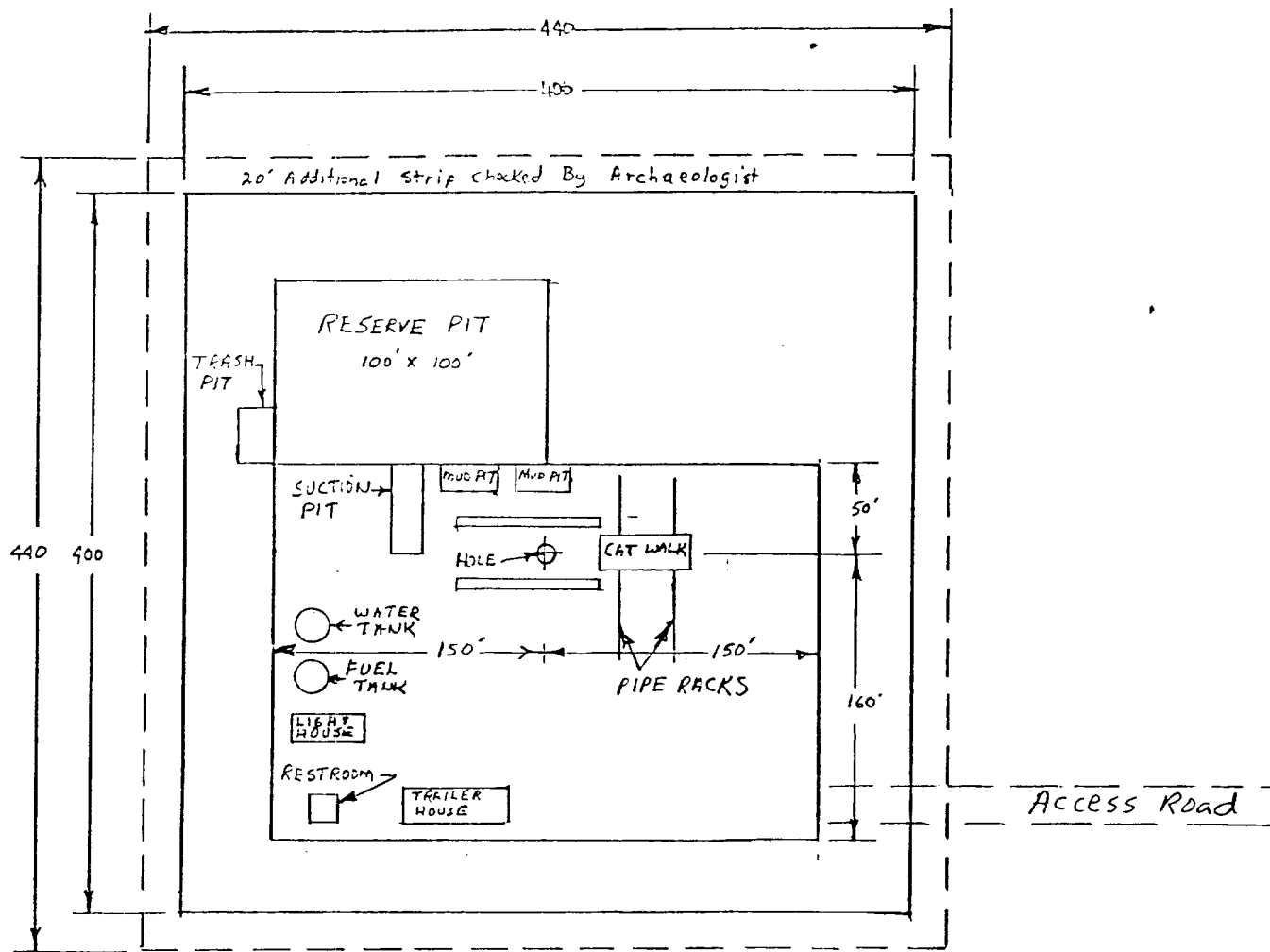


EXHIBIT C  
 Pogo Producing Company  
 Federal 18 No. 1  
 1980' FSL & 1996' FWL  
 Sec. 18, T-26-S, R-34-E  
 Lea County, New Mexico

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HOBBY OFFICE



United States Department of the Interior

OFFICE OF THE SECRETARY  
Minerals Management Service

ROSWELL DISTRICT

SPECIAL APPROVAL STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

POGO PRODUCING COMPANY  
1 Federal 18  
NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec 18 T26S R34E  
Lea County, New Mexico  
Lease No. NM-17239

THE SPECIAL STIPULATIONS CHECK MARKED BELOW ARE APPLICABLE TO THE ABOVE-DESCRIBED WELL AND APPROVAL OF THIS APPLICATION TO DRILL IS CONDITIONED UPON COMPLIANCE WITH SUCH STIPULATIONS IN ADDITION TO THE GENERAL REQUIREMENTS. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PURSUANT TO TITLE 30 CFR 290.

- ☒ A. The Minerals Management Service office is to be notified at:

- ☐ (505) ~~622-1532~~ <sup>624-1790</sup> Roswell  
☐ (505) ~~756-9838~~ Artesia <sup>746-9838</sup>  
☒ (505) ~~393-5146~~ <sup>3612</sup> Hobbs

in sufficient time for a representative to witness:

- ☒ 1. Spudding  
☒ 2. Cementing casing

8 7/8 inch  
5 1/2 inch  
\_\_\_\_\_ inch

- ☐ 3. BOP tests

- ☒ B. At least one working day prior to constructing the well pad, access roads and/or related facilities, the operator or dirt contractor shall notify the authorized officer of the surface management agency. The surface management agency may be contacted at:

- ☒ BLM phone (505) 887-6544 Carlsbad, New Mexico  
☐ BLM phone (505) 622-7670 Roswell, New Mexico

☐ \_\_\_\_\_  
He shall also notify the surface management agency within two working days after completion of earth-moving activities.

- ☒ C. Roads in the area of operation of this authorization will require surfacing.

- ☒ D. 8 7/8" surface casing should be set in the Rustler Anhydrite formation and cement circulated to the surface. If surface casing is set at a lesser depth, the \_\_\_\_\_ casing must be cemented from the casing shoe to the surface or cemented to the surface through a stage tool set at least 50 feet below the top of the Rustler after cementing around the shoe with sufficient cement to fill to the base of the salt section.

- ☒ E. Before drilling below the 8 7/8" casing, the blowout preventer assembly will consist of a minimum of ~~one annular type~~ and two ram type preventers.

- ☒ F. Minimum required fill of cement behind the 5 1/2" casing is to Circulate To Surface.

- ☒ G. After setting the 8 7/8" casing string and before drilling into the DELTA formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures ~~by an independent service company~~. Any equipment failing to test satisfactorily shall be repaired or replaced. ~~This office should be notified in sufficient time for a representative to witness the tests and shall be~~

☐ H. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- ☐ 1. A recording pit level indicator to determine pit volume gains and losses.
- ☐ 2. A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
- ☐ 3. A flow sensor on the flow-line to warn of any abnormal mud returns from the well.

☒ I. A kelly cock will be installed and maintained in operable condition.

☐ J. A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the Minerals Management Service, P.O. Box 26124, Albuquerque, New Mexico 87125. The effective date of the agreement must be prior to any sales.

☒ K. Above ground structures, not subject to applicable safety requirements shall be painted. The paint color is to simulate:

- ☒ Sandstone Brown, Fed. Std. 595-20318 or 30318
- ☐ Sagebrush Gray, Fed. Std. 595-26357 or 36357
- ☐ \_\_\_\_\_

☐ L. A Gamma Ray-Compensated Neutron log is required from the base of the salt section to the surface with cable speed not to exceed 30 feet per minute.

M. Rehabilitation

☒ At least 3 working days prior to commencing any of the following rehabilitation activities, the operator shall notify the appropriate surface managing agency, shown in part B.

☒ 1. Upon the conclusion of drilling and completion operations when mud pits are dry they will be leveled, plastic will be removed and area reseeded with mixture No. #2 shown on last page of General Requirements.

☒ 2. Following the down-hole plugging and abandonment of all operation:

☒ a. The drill pad and 1200 feet miles of access road shall be ripped to a minimum of 12" in depth. Ripping shall be on the contour with rips being approximately 3 feet or less apart.

☒ b. The drill site and 1200 feet miles of access road will be reseeded with mixture No. #2 shown on the last page of the General Requirements.

☒ c. All ripped surfaces are to be protected from vehicular travel by constructing a dead-end ditch and earthen barricade at the entrance to these ripped areas. The barricade is to be constructed using spoil material from the ditch and should be of sufficient magnitude to discourage vehicle entry.

☐ d. Private Surface: Abandonment stipulations to coincide with operator-landowner agreement. (Where no agreement exists, BLM will be requested to provide abandonment stipulations.)

☒ e. The surface location is to be cleaned and leveled.

☒ 3. Modifications in the rehabilitation stipulations made necessary by unforeseen circumstances or improvements in rehabilitation methods may be made when the Notice of Intention to Abandon is filed.

☐ N. Other:

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Minerals Management Service  
South Central Region  
P. O. Drawer 1857  
Roswell, New Mexico 88201

CER NO R-134-83

## NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator/Project Name Pogo Producing Company/No. 1 FEDERAL "18"  
Project Type DRILL DEVELOPMENT OIL WELL  
Project Location 20 MILES SOUTHWEST OF JAL, 1980' FSL + 1996' FWL (SE 1/4 SW 1/4)  
SEC. 18, T. 26 S., R. 34 E., LEM COUNTY, NEW MEXICO  
Lease Number NM-17239  
Date Project Submitted DECEMBER 6, 1982

FIELD INSPECTIONDate DECEMBER 13, 1982

Field Inspection  
Participants

RAY FOSTER - MMS

## CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A.	Federal or State Agency			Local and Private Correspondence	Previous NEPA documents	Other Studies and Reports	Staff Expertise	Onsite Inspection (date)	Other
	Correspondence	Phone Calls	Meetings						
1. Public health and Safety					1,8	2,3,4	X	12-13-82	
2. Unique Characteristics	BLM 12-17-82				1,8	4,5,6	X	12-13-82	
3. Environmentally Controversial	BLM 12-17-82				1,8	2,3,5	X		
4. Uncertain and Unknown Risks					1,8	2,4			
5. Establishes Precedent					8	2,4	X	12-13-82	
6. Cumulatively Significant					8	2,4	X	12-13-82	
7. National Register Historic Places	BLM 12-17-82				1,8	5,6		12-13-82	
8. Endangered or Threatened Species	BLM 12-17-82				1,8	5			
9. Violate Federal, State, Local or Tribal Laws						2,5,7	X		

12-17-82  
Date Prepared

Ray J. Foster  
Signature of Preparer

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

12-17-82  
Date

Georgette Stewart  
District Supervisor

REFERENCES:

CER NO R-134-83

1. Bureau of Land Management Environmental Assessment Record NM 060-81-088
2. Application for Permit to Drill, Form 9-331C and drilling plan
3. Operator's Surface Use Plan
4. Resource Evaluation memorandum (Geologist Report)
5. Bureau of Land Management no effects memorandum and concurrence, and applicable standard and/or special stipulations.
6. Archeological report
7. Minerals Management Service Special Approval Stipulations
8. Related Environmental Assessments: *EA NO. R-024-82 dated 4/29/82.*
9. Minerals Management Service Mining Branch, Carlsbad, New Mexico

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