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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.

DISTRICT I P.O. Box 1980, Hobbs, NM 86240

DISTRICT II P.O. Drawer DD, Artemia, NM 86210

DISTRICT III 1000 Rio Brazos Ed., Aztec, NM 67410 State of New Mexico

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Energy, Minerals and Natural Resources Depar.

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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SUPPLEMENTAL DRILLING DATA

POGO PRODUCING COMPANY Sundance Federal "10" Well No. 2

1. <u>SURFACE FORMATION:</u> Quatemary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	600'
Delaware	4150
Cherry Canyon	5050'
Brushy Canyon	6350'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONE:

Delaware

4. PROPOSED CASING AND CEMENTING PROGRAM:

JOINT
STC
STC
STC
STC
LTC
LTC
LTC

OII

MINIMUM DESIGN FACTORS: Collapse 1.125 Burst 1.1 Tension 1.7

13 3/8" casing is to be set at approximately 600' in 17-1/2" hole. Casing to be cemented with 350 sacks of Light cement tailed in with 200 sacks of Class "C", 2% CaCl. Cement to circulate.

8 5/8" casing is to be set at approximately 4100' in 11" hole. Casing is to be cemented with 1000 sacks of Light cement tailed in with 200 sacks of Class "C", 1% CaCl. Cement to circulate.

5 1/2" casing is to be set at 8500' in 7 7/8" hole. Casing is to be cemented with 300 sx of Light cement followed by 900 sacks of Class "H" cement. Cement to tie back to 8 5/8" casing.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling the 11" hole, will be either a 3000 psi working pressure double ram type preventer or a 3000 psi working pressure annular type preventer.

Blowout prevention equipment, while drilling below the 8 5/8" casing seat, will be a 3000 psi working pressure BOP stack. A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 600 feet:	Fresh water spud mud. Viscosity 30 to 36 as required for hole cleaning.
600 feet to 4100 feet	Brine conditioned as necessary for control of viscosity. Weight 9.8 to 10. PH -9 to 10. Viscosity 32 to 36.
4100 feet to T.D.:	Water based drilling fluid conditioned as necessary for control of weight, viscosity, ph and water-loss. Weight 9 to 10. Visocity 38 - 45. ph 9-10. Filtrate while drilling pay zone 6-15.

7. AUXILIARY EQUIPMENT:

A mudlogging trailer will be used while drilling below Intermediate casing.

8. TESTING, LOGGING, AND CORING PROGRAMS:

Drill Stem tests will be made when well data indicate a test is warranted.

It is planned that electric logs will include GR-CNL- Density logs ans GR-DLL logs.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERTURES, OR HYDROGEN SULFIDE GAS:

None anticipated. Expected bottom hole pressure is approximately 3500 psi. Expected bottom hole temperture is approximately 125 degrees Fahr

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 45 days.







3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

SURFACE USE AND OPERATIONS PLAN

<u>FOR</u>

POGO PRODUCING COMPANY SUNDANCE "10" FEDERAL WELL No. 2 330' FNL & 2310' FWL of Section 10, T-24S, R-31E EDDY COUNTY, NEW MEXICO

LOCATED:

20 miles east of Loving, New Mexico.

FEDERAL LEASE NUMBER: NM-70895

LEASE DATE:

July 1, 1985

ACRES IN LEASE

RECORD LESSEE:

Pogo Producing Company

SURFACE OWNERSHIP:

Federal.

40

GRAZING PERMITTEE:

J.R. Engineering P.O. Box 12237 Odessa, Texas 79768

POOL:

Wildcat (Delaware)

POOL RULES

Statewide. 40 acres for oil.

EXHIBITS:

A. Road Map

B. Plat showing Existing wells and Existing roads

C. Drilling Rig Layout

D. Topo Plat

1. EXISTING ROADS

A. Exhibit "A" is a portion of a road map showing the location of the proposed well as staked. The proposed location can be reached by going east on Highway 128 from Highway 31 approximately 16.8 miles to cattleguard on south side of road. Take caliche road south approximately 1.7 miles. Turn west and go approximately 2600'. Location is 990' south from this point. See Exhibit "D" for more detailed view of road and location.

B. Exhibit "B" shows existing pertinent roads in the vicinity of the proposed reentry. Existing roads are color coded.

2. PLANNED ACCESS ROADS:

A. Length and Width: The access road will be 12' wide and approximately 990' long. See Exhibit "B".

B. Surfacing Material: Caliche. Compacted and watered.

C. Maximum Grade: Approximately one percent.

D. <u>Turnouts:</u> Not needed.

E. Drainage Design: The access road is crowned so that the water runs off to the sides.

F. <u>Culverts:</u> None needed.

G. Cuts and Fills: None necessary.

H. Gates and Cattle Guards: There will be no need for cattleguards or gates.

3. LOCATION OF EXISTING WELLS:

A. Existing wells in the immediate area are shown on Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Production from this well will be delivered to a lease tank battery located on the pad of well # 1. Flowlines from this well will be 3" SDR-11 laid on top of the ground and will follow the access road. See Exhibit "B".

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is not planned that a water well will be drilled. Water necessary for drilling operations will be purchased and trucked to the well site, or will be moved to the well site by a temporary pipeline laid on the ground alongside existing and proposed roads.

11. OTHER INFORMATION:

A. <u>Topography:</u> The land surface in the area is undulating and duny. In the immediate area of the well site, land slope is to the northwest.

B. Soil: Top soil at the well site is loamy sand.

C. <u>Flora and Fauna:</u> The vegatative cover is moderate and includes mesquite, shinnery oak, yucca, weeds and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.

D. Ponds and Streams: There are no ponds, lakes or streams in the area.

E. <u>Residences and Other Structures</u>: There are no occupied dwellings or other structures within a mile of the proposed well site.

F. <u>Archaeological</u>, <u>Historical</u>, and <u>Cultural Sites</u>: An archeological reconnaissance is to be accomplished and a report furnished.

G. Land Use: Grazing and wildlife habitat.

H. Surface Ownership: Federal

12. OPERATOR'S REPRESENTATIVE:

Richard L. Wright Division Operations Supervisor Pogo Producing Company P.O. Box 10340 Midland, Texas 79702 (915) 682-6822

13. <u>CERTIFICATION</u>:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route: that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Pogo Producing Company 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 19 U.S.C. 1001 for the filing of a false statement.

7/25/94

Date:

James M.C. Ritchie, Jr. íaent

VICINITY MAP



3448', ELEVATION 3465'

OPERATOR POGO PRODUCING CO.

LEASE _____ SUNDANCE 10 FED.



