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1000 DATE 7-25-94 APPROVED BY DICHOURD L. HONLIS THE APPROVED BY DICHOURD L. HONLIS THE *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 freudulent statements or representations as to any matter within its jurisdiction.

APPLICATION TO DEILL

Samson Resources Co. Federal 11-20-34 # 5 330' FWL & 2310' FNL Sec. 11 T2OS-R34E Lea co. New Mexico

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. Location: 330' FWL & 2310' FNL Sec. 11 T20S-R34E Lea Co. New Mexico

2. Elevation Above Sea Level: Gr. 3651

- 3. Geologic Name of Surface Formation: Quaternery Aeolian Deposits
- 4. <u>Drilling Tools and Associated Equipment:</u> Conventional rotary drilling rig using mud for the circulation medium.

5. Proposed Drilling Depth: 6350'

6. Estimated Geological Marker Tops:

| Rustler Anhydrite | 1550 | Top Delaware | 5530 |
|-------------------|------|---------------|------|
| Top Salt | 1670 | Delaware Sand | 5880 |
| Base of Salt | 3160 | | |

7. Possible Mineral Bearing Formation:

Oil bearing Delaware

8. Casing Program:

| Hole Size | Interval | OD Csg | Weight Thread Grade Condition |
|-----------|----------|--------|-------------------------------|
| 24" | 0-40' | 20" | .3 Wall Thickness New |
| 12½" | 0-1600 | 9 5/8" | 36# K-55 8R ST&C New |
| 7 7/8" | 0-6350 | 5½" | 17# K-55 8R LT&C New |

APPLICATION TO DRILL

Samson Resources Co. Federal 11-20-34 #5 Sec. 11 T20S-R34E Lea Co. New Mexico

9. Cementing and Setting Depth:

| 20" | Conductor | Set 40' of 20" csg. cement to surface with Redi-mix |
|--------|----------------|---|
| 9 5/8" | Surface Casing | Set 1600' of 9 5/8 csg. Cement with 500 Sx. of light cement Tail in with 200 Sx. Class "C" + 2% CaCl circulate to surface. |
| 5½" | Production | Set 6350' of 5½"csg. cement with 650 Sx. light cement Tail in with 200 Sx. Class "H cement |

10. Pressure Control Equipment: Exhibit "E". A Blow-out Preventer (no less than 900 series 3000 psi working pressure) consisting of double ram type preventer with annular type preventor, all units will be hydraulically operated. Exhibit "E-1" Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be nippled up on 9 5/8 casing and remain on well until casing is run and cemented. BOP will be tested as well as choke manifold. BOP will be worked at least once each day while drilling and blind ram will be worked on trips when no drill pipe is in hole. Flow sensor PVT, full opening stabbing valve and upper kelley cock will be utilized.

11. Proposed Mud Circulating System:

| Depth | Mud Wt. | Mud Visc. | Fluid Loss | Type Mud |
|-----------|---------|-----------|------------|---|
| 0-1600 | 8.8-9.5 | 30-38 | NC | Fresh water spud mud use paper for seepage |
| 1600-4600 | 10-11 | 29-35 | NC | Brine Water and use paper for seepage control. |
| 4600-6350 | 10-11.5 | 30-38 | 12-15 | Brine Water with starch for |

water loss control. In order to run casing viscosity may have to be raised and water loss may be required to be lowered to 8cc or less depending on hole conditions. Samson Resources Co. Federal 11-20-34 # 5 Sec. 11 T20S-R34E Lea Co. New Mexico

- 12. Testing, Logging and Coring Programs:
 - (A) Possible MSCT-Rotary Coring Tool 10 cores
 - (B) No DST'S planned
 - (C) CNL, Gamma Ray Caliper TD-Surface DLL, MSFL Gamma Ray, Litho Density TS-4350
- 13. Potential Hazards:

No abnormal pressures of temperature zones expected (nothing abnormal in offset wells or other wells in the area). Hydrogen sulfide gas is not anticipated however, precautions for detection will be observed. No major lost circulation is expected (none reported in this area). H2S contingency attached "13-A".

- 14. Anticipated Starting Date and Duration of Operation: Road and location construction will begin after BLM approval of APD. Anticipated date 8-15-94 Drilling expected to take 10 to 12 days. If production casing is run an additional 30 days to complete and construct surface facility and place well on production.
- 15. Other Facets of Operations: After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The Delaware pay will be perforated and stimulated. The well will be swab tested and potentialed as Oil well.

DISTRICT I P.O. Box 1980. Hobbs. NM 58240

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico

Energy, Minerals and Natural Resources Department

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

GARY L. JONES.

7977

OIL CONSERVATION DIVISION

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

C AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 125-3 2619 37584 LEA DELAWARE NORHTEAST **Property** Code Property Name Well Number 9908 FEDERAL 11-20-34 5 OGRID No. **Operator** Name Elevation 20165 SAMSON RESOURCES 3651' Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Ε 11 20 S 34 E 2310 NORTH 330 WEST LEA Bottom Hole Location If Different From Surface UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Dedicated Acres 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. 2310' auces Signature <u>Joe</u> T Janic Printed Name Agent Title 3651.0° 3653.6' 07/05/94 ٦. Date 350 649.8 3652.0 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 at my belief. JUNE 22, 199 Date Survey Signa Jure /& Seal of ai Surygyou Profession 5 \frown fessiont v 074 Certificate No. JOHN W. WEST 676 RONALD J. EIDSON, 3239



ARRANGEMENT SRRA

900 Series 3000 PSI WP

> EXHIBIT "E" SAMSON RESOURCES CO. B.O.P. SKETCH TO BE USED ON FEDERAL 11-20-34 #5 330' FWL & 2310' FSL SEC. 11 T20S-R34E LEA CO. NM