UNITED STATES DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

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CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO. _

APPROVED BY _

APPROVED AS AMENDED

DISTRICT ENGINEER

TITLE _

OIL CONSERVALIGE DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Revised 10-1-78

All distances must be from the outer boundaries of the Section. Well No. 1.cose 1 Irene Whitney Hixon Development Company County Ranae Township Section Unit Letter San Juan 21 25 North 11 West Actual Footage Location of Well: West feet from the 1850 feet from the South Dedicated Acreage: Producing Formation Pool Ground Level Elev. Basin Dakota Dakota Acres 6583 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes;" type of consolidation Both tracts to be communitized upon Yes Yes completion of the well. If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. este Aldrich L. Kuchera Position Petroleum Engineer Company Hixon Development Company April 5, 1983 NOO-C-14-20-5244 NOO-C-14-20-5243 NAVAJO ALLOTTED NAVAJO ALLOTTED knowledge of believe of the house of the hou Date Surveyed March 29, 1983 1850 Registered Professional Engineer and/or Land Surveyor Edgar L. Risenhoover, L.S. 1500 1000 2000

APPLICATION FOR PERMIT TO DRILL HIXON DEVELOPMENT COMPANY BASIN DAKOTA IRENE WHITNEY WELL NO. 1 1850' FSL, 1650' FWL SECTION 21, T25N, R11W SAN JUAN COUNTY, NEW MEXICO

Other NTL-6 Pertinent Data is as follows:

1. Estimated Log Tops -

Ojo Alamo	290'
Pictured Cliffs	1440'
Cliffhouse	2190'
Menefee	2690 '
Point Lookout	3880'
Mancos	4090'
Upper Gallup	4910'
Lower Gallup	5020'
Greenhorn	5765'
Dakota	5890 '

2. Estimated Depths of Water, Oil and Gas -

Fresh Water - Water well drilling in this area show the Ojo Alamo to be dry.

 $\frac{\text{Gas Sands}}{\text{are dispersed from about } 80'$. Gas sands and 16,800 ppm NaCl water

3. Weight and Type of Mud to be Used -

Surface - 0-200'; drill with spud mud. Spud mud will be an Aquagel/line slurry, mixed to a 40-50 sec/qt viscosity.

Production Hole - A Dextrid/Cellex low solids mud or equivalent will be used. Any hardness will be treated with soda ash. Mud weight and drilled solids will be controlled.

Mud properties will be as follows:

Mud Weight - 8.4 - 8.8#/gallon Viscosity - 34 - 45 sec/qt Plastic Viscosity - 4 - 8 cps Yield Value - 3 - 6#/100 sq. ft. Fluid Loss - 8 - 12 cc's/API pH - 8.3 - 8.5 Solids Content - 5-1/2% maximum Annular Velocity - 120 FPM

Note: Bottom hole pressure gradient is 7.25#/gallon. Fracture gradient is 11.45#/gallon. We do not anticipate any drilling problems.

- 4. Open Hole Logs Induction Electric Survey and Caliper, Gamma Ray, Compensated Density Neutron.
- 5. Cased Hole Logs Gamma Ray CCL and Cement Bond Log.

