

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-25746  
5. LEASE DESIGNATION AND SERIAL NO.  
NOO-C-14-20-5243

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Hixon Development Company

3. ADDRESS OF OPERATOR

P.O. Box 2810, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1850' FSL, 1650' FWL, Section 21, T25N

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

25 miles south of Farmington

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

160

17. NO. OF ACRES ASSIGNED

TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6190'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6583' GLE

22. APPROX. DATE WORK WILL START\*

May 1, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to administrative  
appeal pursuant to 30 CFR 290.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	
12-1/4"	8-5/8"	24#	300'	300 sacks
7-7/8"	5-1/2"	15.5#	6190'	400 sacks

It is proposed to drill the subject Basin Dakota well.

It will be evaluated on the basis of open hole logs.

Please refer to the attached NTL-6 data.

RECEIVED  
JUN 17 1983  
OIL CON. DIV.  
DIST. 3

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 [Signature] TITLE Petroleum Engineer

DATE March 28, 1983

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

APPROVED  
DATE  
AS AMENDED

JUN 17 1983  
JAMES F. SIMS  
DISTRICT ENGINEER

NMOCC

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-102  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

Operator Hixon Development Company		Lease Irene Whitney		Well No. 1
Unit Letter K	Section 21	Township 25 North	Range 11 West	County San Juan
Actual Footage Location of Well: 1850 feet from the South line and 1650 feet from the West line				
Ground Level Elev. 6583	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage: 5 320 Acres	

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?

☐ Yes ☒ No If answer is "yes," type of consolidation Both tracts to be communitized upon 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.

RECEIVED  
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OIL CON. DIV.  
DIST. 3RECEIVED  
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DIST. 3NOO-C-14-20-5243  
NAVAJO ALLOTTEDNOO-C-14-20-5244  
NAVAJO ALLOTTED

## CERTIFICATION

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

Name  
Aldrich L. Kuchera  
Position  
Petroleum Engineer  
Company  
Hixon Development Company  
Date  
April 5, 1983

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

Date Surveyed  
March 29, 1983

Registered Professional Engineer  
and/or Land Surveyor

*Edgar L. Risenhoover*  
Certificate No. 5979  
Edgar L. Risenhoover, L.S.

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.

Gas Sands - 80'-3700'. Gas sands and 16,800 ppm NaCl water are dispersed from about 80' to 3700'.

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.

