

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

API 30-045-22024

6. LEASE DESIGNATION AND SERIAL NO.

NM 012711

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

5. FARM OR LEASE NAME

Howell

9. WELL NO.

#2A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesa Verde

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Sec. 10, T30N, R8W

12. COUNTY OR PARISH 13. STATE

San Juan New Mexico

## 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

Tenneco Oil Company

## 3. ADDRESS OF OPERATOR

1860 Lincoln St., Suite 1200, Denver, Colorado 80203

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

At surface

800' FSL and 1730' FEL

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST POST OFFICE\*

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

MAR 26 1976

18. DISTANCE FROM PROPOSED LOCATION  
TO NEAREST WELL, DRILLING, COMPLETED  
OR APPLIED FOR, ON THIS LEASE, FT.OIL CON. COM.  
DIST. 3

## 16. NO. OF ACRES IN LEASE

330.30

## 19. PROPOSED DEPTH

5040'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

E/330.30

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5773' GL

## 22. APPROX. DATE WORK WILL START\*

upon approval

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	200' +	Suff. to circulate to surface.
8 3/4"	7"	23#	2975' +	Suff. to cement back to surface csg.
6 1/8"	4 1/2"	10.5#	2725' - 5040' +	Suff. to cement back to 7" csg.

Plan to drill well as follows:

1. MIRURT, drill 12 1/4" hole to +200'.
2. Set and cement 9 5/8" casing to +200' & cement with suff. cement to circ. to surface.
3. Drill out with 8 3/4" bit to + 2975' feet.
4. Run 7" casing and cement back to surface casing.
5. Drill out of 7" using gas as the circulating fluid, do not drill more than 10' below the 7" casing shoe until the hole has dried up completely and is dusting.
6. Drill the hole to T.D., log the hole dry as requested by drillsite geologist.
7. Run 4 1/2" liner to T.D., load hole with mud and cement liner back to top of 4 1/2". Set liner hanger and POH w/drill pipe.
8. This well will be completed through casing perforations and stimulated as necessary to establish commercial production.
9. Clean up area.

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

Div. General Manager

DATE

3-24-76

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*[Signature]*

\*See Instructions On Reverse Side

ST NWU from old Card

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MAR 25 1976

U. S. GEOLOGICAL SURVEY  
WASHINGTON

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

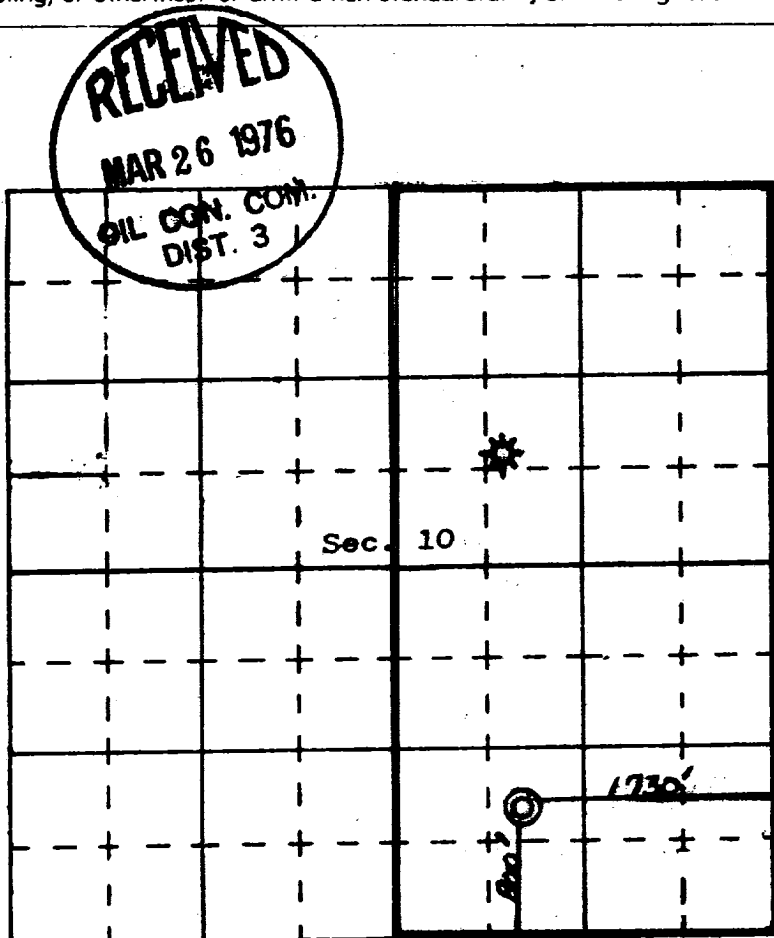
Operator <b>TENNECO OIL COMPANY</b>			Lease <b>HOWELL</b>		Well No. <b>2-A</b>
Unit Letter <b>0</b>	Section <b>10</b>	Township <b>30 NORTH</b>	Range <b>8 WEST</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well: <b>800</b> feet from the <b>SOUTH</b> line and <b>1730</b> feet from the <b>EAST</b> line					
Ground Level Elev. <b>5773</b>	Producing Formation <b>Blanco Mesaverde</b>		Pool <b>Blanco Mesaverde</b>	Dedicated Acreage: <b>130.30</b>	<b>6/2</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 ..... Communitization .....

If answer is "no," list the owners and tract descriptions which have actually 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 Commission.



**CERTIFICATION**

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

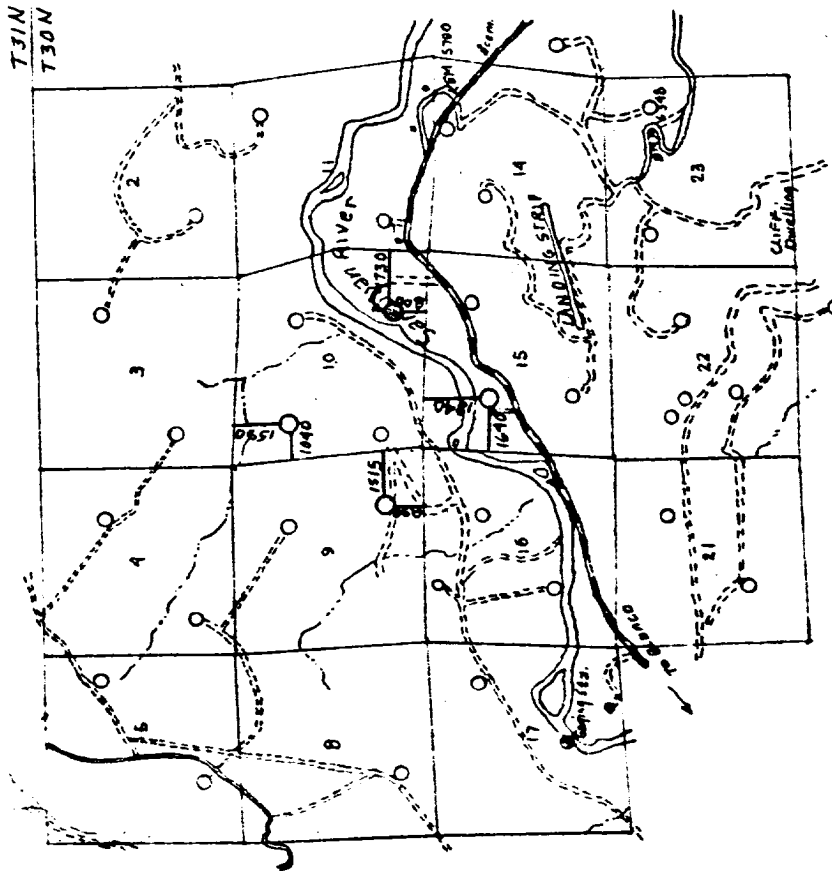
Name T. H. Drake  
 Position \_\_\_\_\_  
 Company Production Clerk  
 Date Tenneco Oil Co.  
3/23/76

I hereby certify that the information 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.

11 March, 1976  
 Date Surveyed \_\_\_\_\_  
James P. Leese  
 Registered Professional Engineer  
 and/or Land Surveyor  
**James P. Leese**

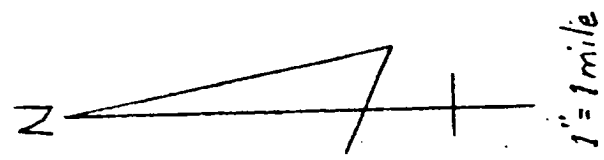
1463  
 Certificate No.

T31N  
T30N



RBW

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OIL CON. COM.  
DIST. 3



Howell 2-A

Vicinity Map for

Tenneco Oil Company

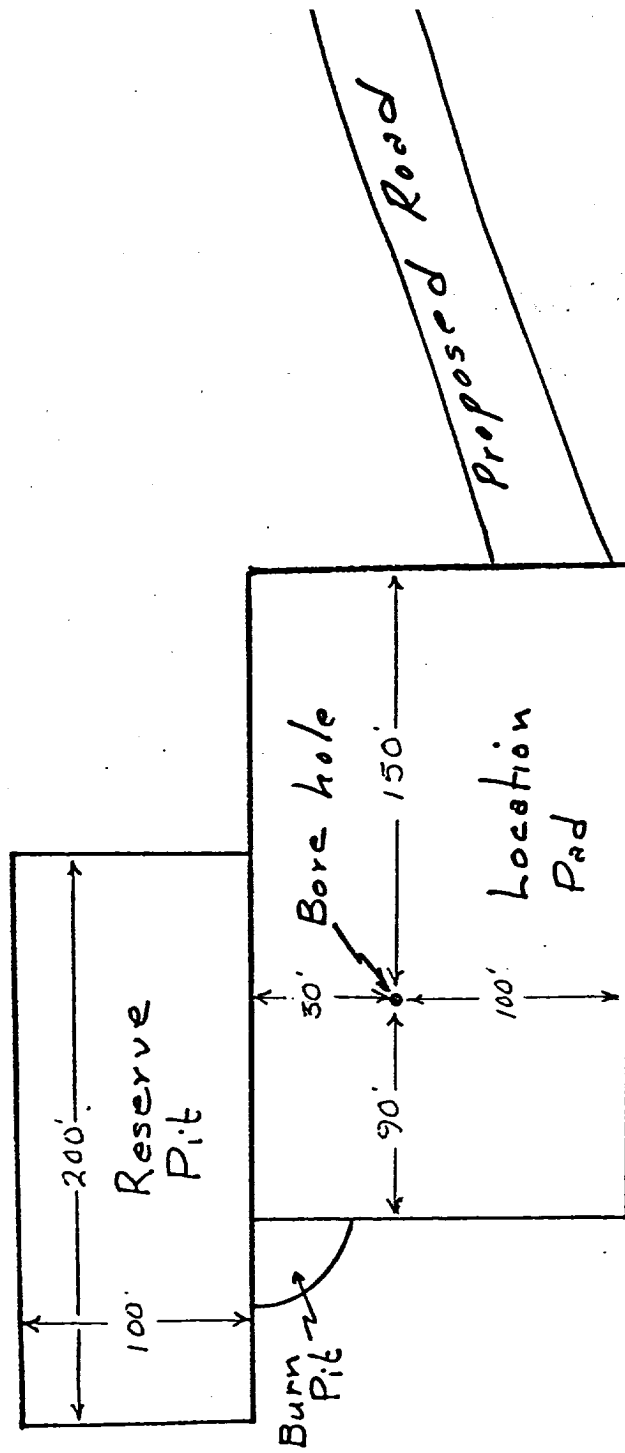
Showing

Well locations in SE 1/4 of Sec 9;  
NW 1/4 of Sec 10; SE 1/4 of Sec 10; NW 1/4  
of Sec 15; T30N, RBW, NMPM,  
San Juan County, New Mexico  
Scale: 1" = 1 Mile

Date: 15 March 1976

San Juan Engineering Company  
Farmington, New Mexico

RIG LAYOUT  
Howell 2-A



Howell #2A

SURFACE USE PLAN

1. Shown on attached map.
2. Shown on attached map. Approximately 400' of 14' wide road will be required.
3. Shown on attached map.
4. Shown on attached map.
5. This is expected to be a dry gas well, therefore, a tank battery will not be required.
6. Water will be hauled from the San Juan River or nearest wash.
7. All waste material will be buried in reserve pit at time of location clean up.
8. No camps will be associated with this operation.
9. No airstrip will be built for this operation.
10. Shown on attached diagram.
11. Upon completion or abandonment of this well, the location will be cleaned and levelled and a dry hole marker placed, if applicable.
12. The location is sandy, rocky, typical for the area. Vegetation is sage brush.



Howell #2A

7 POINT WELL CONTROL PLAN

1. Surface casing: 9 5/8", 24#, approximately 200, grade K-55, new condition.
2. Casinghead will be 10", 900 Series, 3,000 psi rating.
3. Intermediate casing - 7", 20#, K-55, will be set at ± 2975' and cemented to surface casing.
4. Blowout preventors: Hydraulic, double ram, 10". One set of rams will be provided for each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2" with variable choke.
5. Auxiliary equipment:
  - (1) Kelly cock will be in use at all times.
  - (2) Stabbing valve to fit drill pipe will be present on floor at all times.
  - (3) Mud monitoring will be visual, no abnormal pressures are anticipated in this area.
  - (4) Rotating head will be used when drilling with gas.
6. Anticipated bottom-hole pressure:

This is an area of known pressure. Maximum anticipated pressure at 5700' T.D. is 1200 psi.
7. Drilling Fluids:

0 - 200' Spud mud

200' - 2975' Gel water - low solids as needed to maintain good conditions.

2975' - T.D. Compressed gas

