

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Order Form No. 100-101-100

Form No. 100-101-100

30-085-23258

5. LEASE DESIGNATION AND SERIAL NO.

SF-079232- NM 03549

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Bolack

9. WELL NO.

3

10. FIELD AND POOL OR WILDCAT

Dakota Basin

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

Sec. 20, T28N, R8W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

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

Tenneco Oil Company

3. ADDRESS OF OPERATOR

720 South Colorado Blvd., Denver, CO 80222

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

At surface

810' FSL, 1000' FWL Unit M

At proposed prod. zone

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

See Point 1B Surface Use Plan

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

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

6660'

20. ROTARY OR CABLE TOOLS

Rotary

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

5821 G.L.

22. APPROX. DATE WORK WILL START*

January 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	9-5/8"	36#	250'	Sufficient to circulate to surface.
7-7/8"	4-1/2"	10.5#	T.D.	Sufficient to circulate to surface.

1. The geologic name of the surface formation is Tertiary San Jose.

2&3 Formation Tops (estimated)

Fruitland	+ 1825'	Mancos	+ 4550'
Pictured Cliffs	+ 2150'	Gallup	+ 5520'
Lewis Shale	+ 2220'	Greenhorn	+ 6310'
Mesa Verde:		Graneros	+ 6370'
Cliffhouse	+ 3750'	Dakota A	+ 6410'
Menefee	+ 3780'	T.D.	+ 6660'
Point Lookout	+ 4400'		

Possible oil or gas producer

4. Run 9-5/8" OD, K-55 new casing to + 250' and circulate cement to surface. Run 4-1/2" OD, K-55 new casing to + 6660' with cement in two stages. Place DV tool (+4600') and cement with sufficient volume to circulate to surface. Tail in first stage with 200 SX neat. Casinghead will be API approved type (10").

5. 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. BOP's will be installed, tested-and in working order before drilling below surface casing and shall be maintained ready for use until drilling operations are completed. BOP's, drills, and tests will be recorded in the IADC Drilling report. They shall be checked every 24 hours. All rig equipment will be tested to above BOE ratings.

6. 0-250' Spud mud with sufficient viscosity to clean hole and run casing. 250' - T.D. - low solid weight 8.9-F.V. 30/36 - water loss 10/15. Quantities will vary as conditions vary.

7. Auxiliary Equipment

- Kelly cock will be in use at all times.
- Stabbing valve to fit drill pipe will be present on floor at all times.
- Mud monitoring will be visual, no abnormal pressures are anticipated in this area.
- Floats at bits.
- Drill string safety valve(s) to fit all pipe in the drill string will be maintained on the rig floor while drilling operations are in progress.
- Rotating head will be used while drilling with gas.

8. No cores will be taken. GR-FDC-CNL-Caliper-T.D. to base of Mesa Verde. GR-Induction SP-SN-T.D. to surface casing.

9. No abnormal pressures or temperatures are anticipated. See point #5 for blowout prevention equipment.

10. The drilling of this well will take approximately ten days. The gas is not yet contracted.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give pertinent 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 prevention program, if any.

24.

SIGNED

TITLE

Div. Production Manager

DATE

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

ok Frank

NEW MEXICO OIL COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-107
Supersedes C-1,
Effective 1-1-67

All distances must be from the outer boundaries of the Section

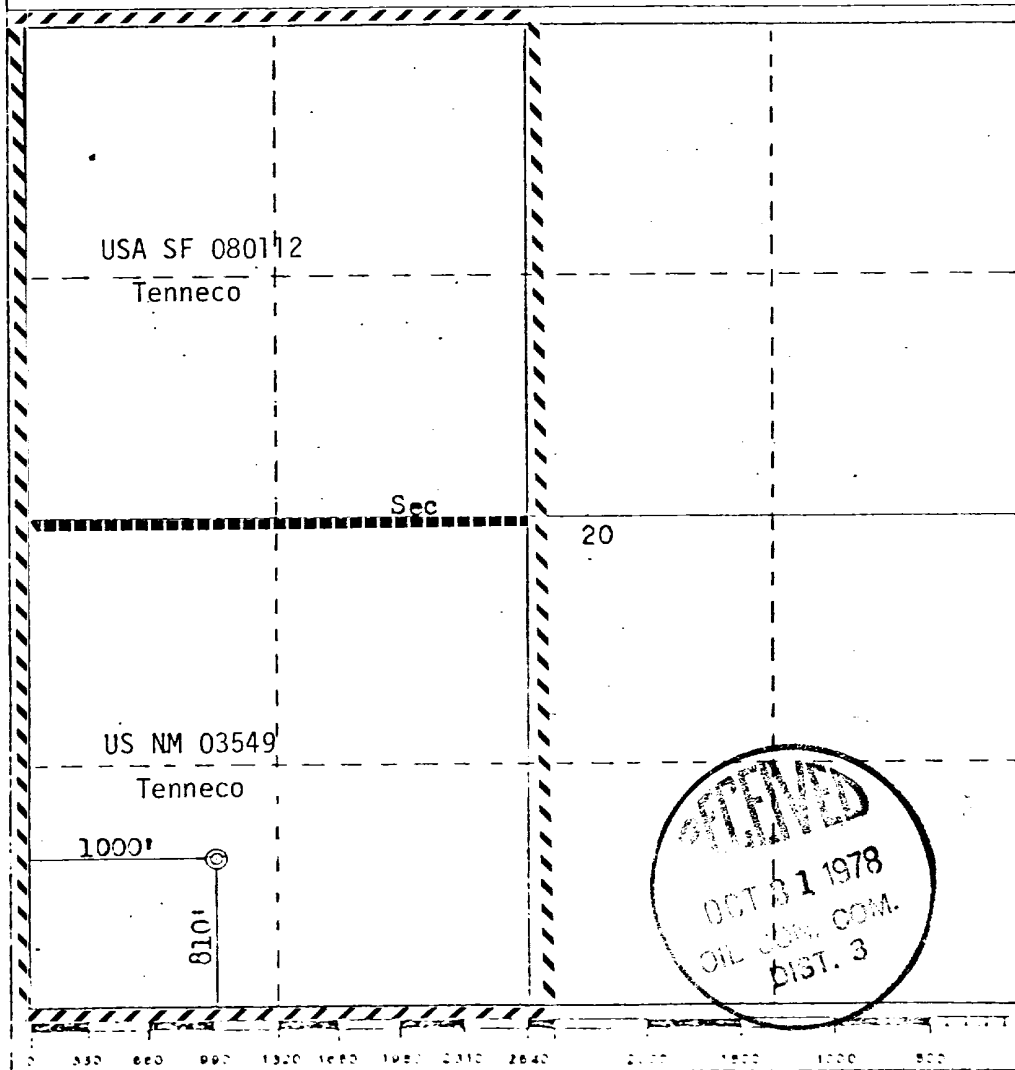
Lessee TENNECO OIL COMPANY		Lease BOLACK		Well No. 3
Section M	Section 20	Township 28N	Range 8W	County San Juan
Actual Postage Location of Well:				
810	feet from the South	line and	1000	feet from the West
Ground Level Elev. 5821	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage: 320	

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 _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) Communitization is in progress.

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 J. A. Rush
Position Environmental Coordinator
Company Tenneco Oil Company
Date October 23, 1978

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed September 21, 1978
Registered Professional Surveyor and Oil Well Locator
Fred B. Herrick
Commission No. 3950