

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-095-35467
SF-078194
IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

2. TYPE OF WELL: OIL ☐ GAS ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

3. NAME OF OPERATOR: Tenneco Oil Company

4. ADDRESS OF OPERATOR: Box 3249, Englewood, CO 80155

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.):
At proposed prod. zone: 1050' FNL, 790' FWL
Same

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 5 mi SE of Aztec, NM

7. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 790'

8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL (Drilling completed or applied for on this lease, ft.):

9. ELEVATIONS (Show whether DF, RT, GR, etc.): 6307' GR

10. NO. OF ACRES IN LEASE: 2450.28

11. PROPOSED DEPTH: 7350'

12. NO. OF ACRES ASSIGNED TO THIS WELL: ~~320~~ W 304.57

13. ROTARY OR CABLE TOOLS: Rotary

14. APPROX. DATE WORK WILL START: ASAP

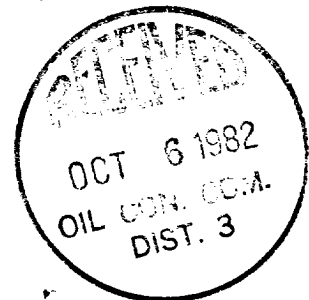
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	±250'	Circ to surface
8-3/4"	7"	23#	±3400'	2-stage - circ to surface
6-1/4"	4-1/2"	11.6#, 10.5#	±7350'	Circ to liner top

See attached drilling procedure

Gas is dedicated

RECEIVED



15. 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.

SIGNED: Ken Russell TITLE: Sr. Production Analyst DATE: August 26, 1982

(This space for Federal or State office use)

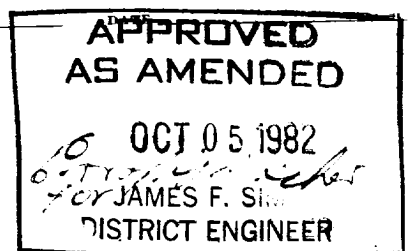
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

(NW 3-3/4 for original well)

OK



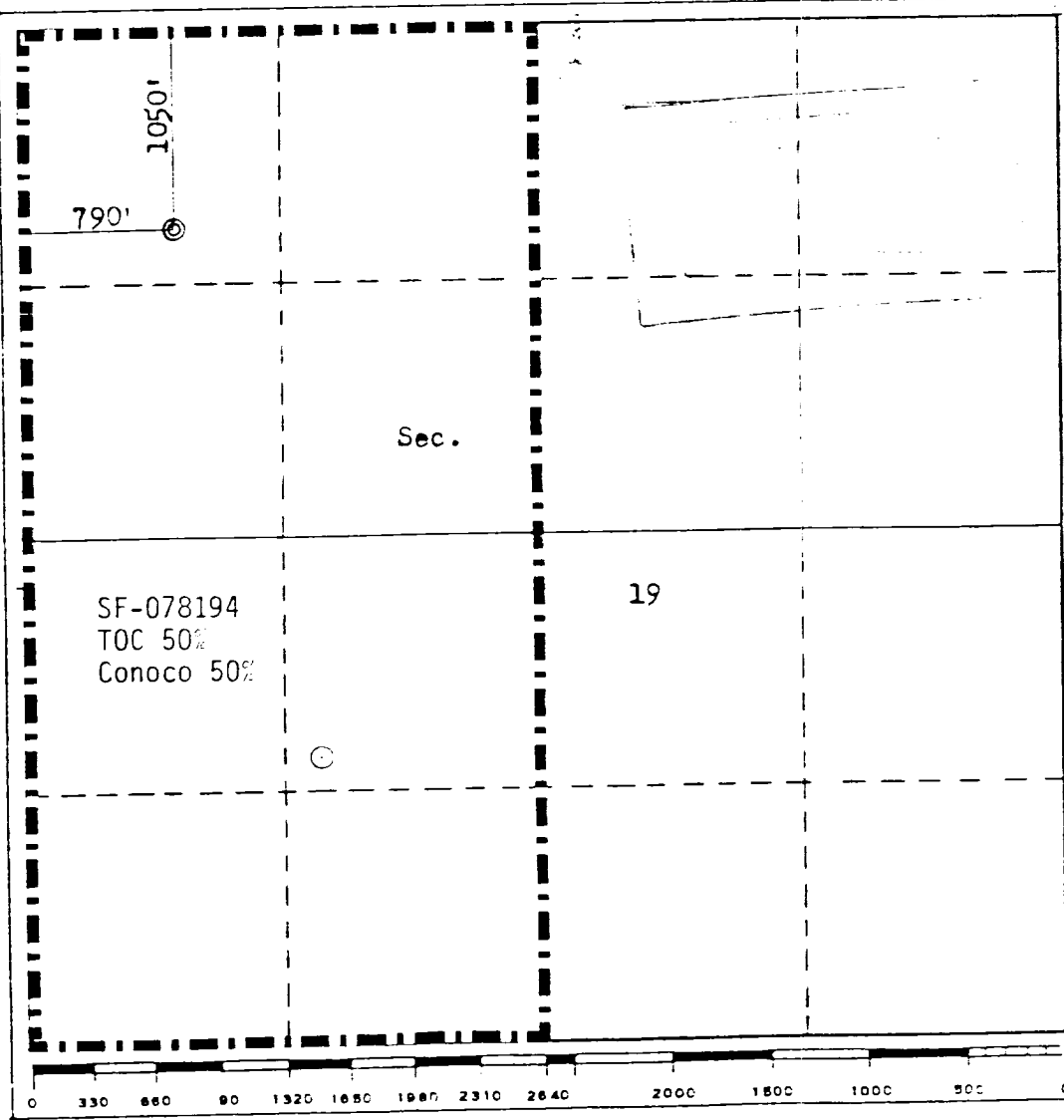
All distances must be from the corner to the line of the Section

Operator TENNECO OIL COMPANY		Lease LUDWICK "A"		Well No. 15	
Unit Letter D	Section 19	Township 30N	Range 10W	County San Juan	
Actual Footage Location of Well: 1050 feet from the North line and 790 feet from the West line					
Ground Level Elev. 6307	Producing Formation Dakota	Pool Basin Dakota		Dedicated Acreage 320 W 304.57 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 _____

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 Commission.



CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name	<i>Ken Russell</i>
Position	Senior Production Analyst
Company	Tenneco Oil Company
Date	July 29, 1982
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	July 7, 1982
Registered Professional Engineer and/or Land Surveyor	<i>Fred B. Kerr Jr.</i>
Certificate No.	3950