

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. SF 078046	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Tenneco Oil Company			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 3249, Englewood, CO 80155			8. FARM OR LEASE NAME Hughes	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1050' FSL, 810' FEL At proposed prod. zone Same			9. WELL NO. 4E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 11.6 miles SE of Blanco, New Mexico			10. FIELD AND POOL, OR WILDCAT Basin Dakota	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg unit line, if any) 810'			11. SEC. T., R., M., OR S.E. AND SURVEY OR AREA I Sec 29, T29N, R8W	
16. NO. OF ACRES IN LEASE 2538.24			12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL E/320			13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 7530'			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6420' ground			22. APPROX. DATE WORK WILL START* January 1982	

## 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'	Circulate cement to surface
8 3/4"	7"	23#	±3573'	Circulate cement to surface
6 1/4"	4 1/2"	10.5#, 11.6#	±7530'	Circulate cement to liner top

See attached drilling program.

Gas is dedicated.

Reserve pit will be lined with bentonite to prevent seepage.



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 Don H. Morrison TITLE Production Analyst DATE August 14, 1981  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

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

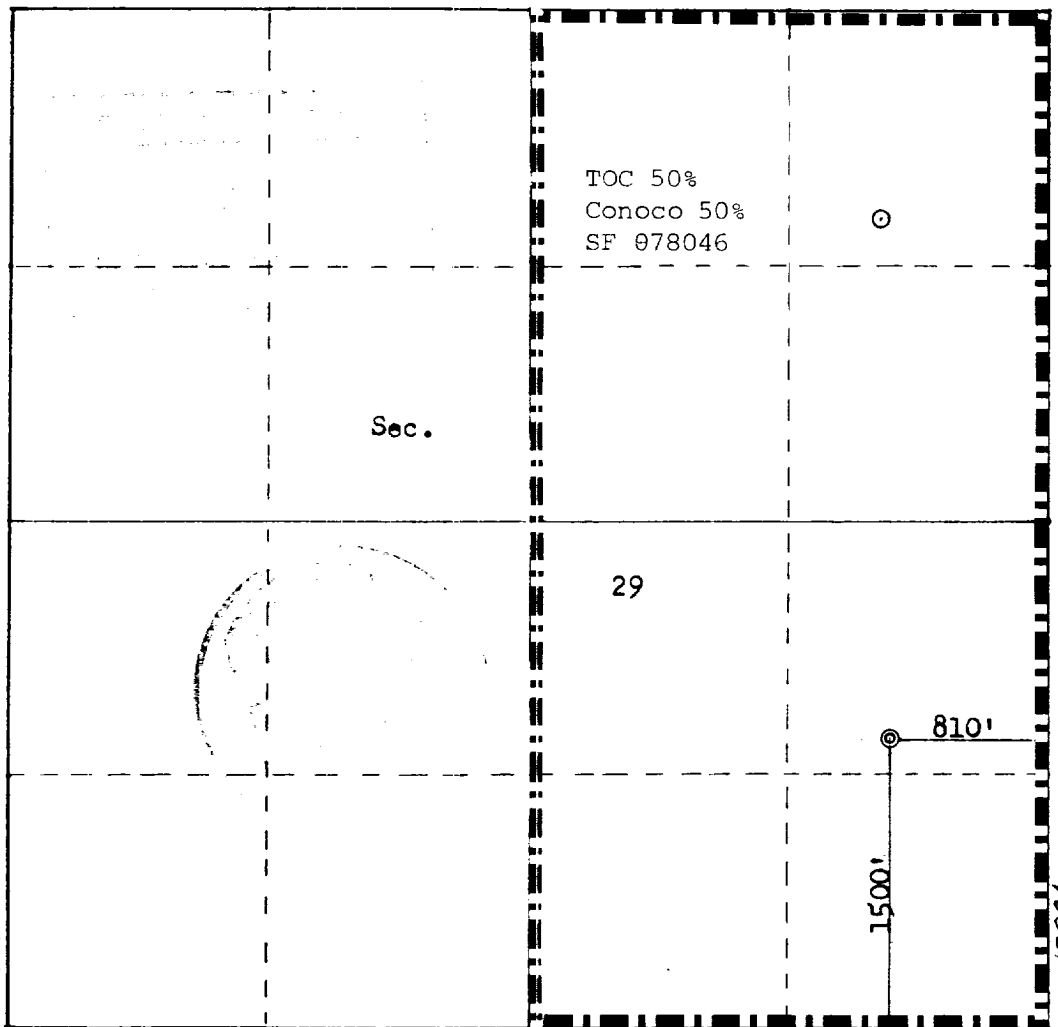
Operator <b>TENNECO OIL COMPANY</b>		Lease <b>HUGHES</b>		Well No. <b>4E</b>
Unit Letter <b>I</b>	Section <b>29</b>	Township <b>29N</b>	Range <b>8W</b>	County <b>San Juan</b>
Actual Footage Location of Well: <b>1500</b> feet from the <b>South</b> line and <b>810</b> feet from the <b>East</b> line				
Ground Level Elev. <b>6420</b>	Producing Formation <b>Dakota</b>	Pool <b>Basin Dakota</b>	Dedicated Acreage: <b>320</b> 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 \_\_\_\_\_

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.



Scale: 1"=1000'

5150' long

CERTIFICATION

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

*Don H. Morrison*  
Name

Don H. Morrison  
Position

Production Analyst  
Company

Tenneco Oil Company  
Date

July 21, 1981

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.

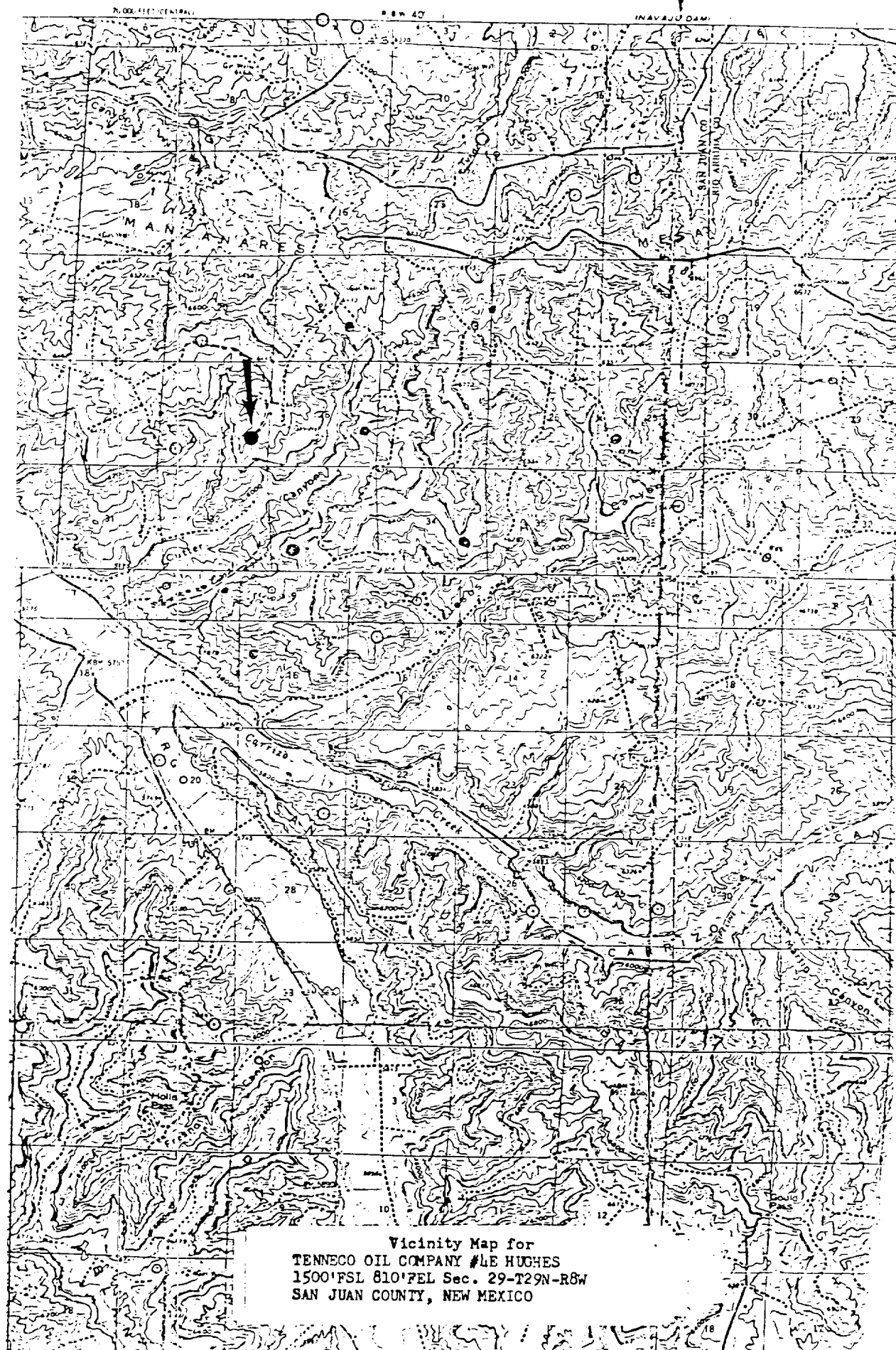
Date Surveyed

July 14, 1981  
Registered Professional Engineer and Land Surveyor

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

Certificate No. 3950  
State of New Mexico

STATES  
OF THE INTERIOR  
AL SURVEY



Vicinity Map for  
TENNECO OIL COMPANY #LE HUGHES  
1500'FSL 810'FEL Sec. 29-T29N-R8W  
SAN JUAN COUNTY, NEW MEXICO