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5A. Indicate Type of Lease
STATE ☒ PEE ☐

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. 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
6800 Park Ten Blvd, Suite 200 North San Antonio, Texas 78213

4. Location of well
UNIT LETTER D LOCATED 660 FEET FROM THE North LINE

AND 660 FEET FROM THE West LINE OF SEC. 32 TWP. 16S RGE. 34E NMPM

7. Unit Agreement Name

8. Farm or Lease Name

State LF 32

9. Well No.

1

10. Field and Pool, or Wildcat

Und. Kennitz Atoka Morrow

12. County

Lea

19. Proposed Depth 13,300'	19A. Formation Morrow	19B. Rotary or C.T. Rotary
21. Elevations (Show Elevation DR, RI, etc.) 4120' GR	21A. Kind & Status Plug. Bond Blanket	22. Approx. Date Work will start April 1, 1983

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	13 - 3/8"	48#	± 380'	400 sxs	Circ. to surf
11"	8 - 5/8"	32#	4500'	Lead 1271/Tail	400 Circ. to surf
7 7/8"	5 - 1/2"	17#	13300'	786 sxs	top @ 9000'

1. PRIOR TO MIRU - SET + 40' of 20" CONDUCTOR (NOTIFY NMOCC PRIOR TO SPUDDING).
2. DRILL 17-1/2" HOLE TO + 400 W/SPUD MUD. PUMP SWEEPS AS HOLE DICTATES, SPOT 50 BBLs HIGH VIS PILL ON BITM PRIOR TO POOH.
3. POOH AND RUN & CMT 13-3/8" CSG. CENTRALIZE AS NEEDED. CIRC CMT TO SURFACE. PREPARE TO REDIMIX OR 1" CMT TO SURFACE AS REQUIRED BY NMOCC. NOTIFY NMOCC BEFORE CMT. WOC AS REQUIRED BY STATE. NU WHILE WOC.
4. CO 13-3/8" CSG & WELD ON 13-3/8" X 13-5/8" -- 3M CSG HD. TEST SAME TO 50% CSG COLLAPSE. NU BOPE (3M ANNULAR PREVENTER) & DIVERTER LINE.
5. PU 11" BIT AND SLICK BHA. RIH TO FC. PRIOR TO DRILLING OUT TEST BOP'S AND CSG TO 500# FOR 30 MIN.
6. DRILL 11" HOLE TO 4500' (SAN ANDRES). SWEEP HOLE AS REQUIRED. PRIOR TO PULLING OUT OF HOLE SPOT 50 BBLs HIGH VIS PILL.

(OVER)

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed [Signature] Title Division Drilling Engineer Date March 9, 1983

(This space for State Use)

ORIGINAL SIGNED BY EDDIE SEAY

OIL & GAS INSPECTOR

APPROVED BY _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

MAR 18 1983

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 9/18/83
UNLESS DRILLING UNDERWAY

4-7218 NSL

7. POOH. RUN & CMT 8-5/8" CSG. CENTRALIZE PIPE AS NEEDED. CIRC CMT TO SURFACE. PREPARE TO 1" CMT TO SURFACE AS REQUIRED BY NMOCC. TEMPERATURE SURVEY MAY BE REQUIRED.
8. SET 8-5/8" SLIP & SEAL ASSEMBLY IN CSG HD (SET 80% IN COMPRESSION). CO 8-5/8" CSG, NU 13-5/8" 3M x 11" 5M CSG SPOOL. TEST SAME TO 50% CSG COLLAPSE. NU BOPE, CHOKE MANIFOLD, ROTATING HEAD. TEST RAMS & MANIFOLD TO 5000#; HYDRIL TO 75% OF RATING. WOC ONLY IF REQUIRED AFTER PU BHA & TRIP TO SHOE.
9. PU 7-7/8" BIT & REQUIRED (SLICK) BHA AND RIH TO TOP OF COLLAR AND TEST CST TO 1000 PSI. DRILL OUT CMT, F/C, F/S, DRILL 30' ON NEW FORMATION. TEST SHOE TO 11 PPG EMW.
10. DRILL 7-7/8" HOLE TO 13,300' RE-TEST BOPE WITH INDEPENDENT TESTING COMPANY ON LAST TOOH PRIOR TO DRILLING BELOW 11,000'. INCREASE MUD WEIGHT TO 11 PPG BEFORE DRILLING ATOKA-MORROW ZONES (12,500' - TD).
11. LOG PER GEOLOGIST.
12. RUN 5-1/2" PRODUCTION STRING OR P&A.