

30-025-29634

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5A. Indicate Type of Lease
STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Type of Work		7. Unit Agreement Name	
Type of Well		8. Farm or Lease Name	
DRILL <input checked="" type="checkbox"/>	DEEPEN <input type="checkbox"/>	State QE 13	
OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	9. Well No.	
OTHER		#1	
Name of Operator		Under West Range Lake	
Tenneco Oil Company		Wildcat-Devonian	
Address of Operator		12. County	
7990 IH 10 West, San Antonio, TX 78230		Lea	
Location of Well		19. Proposed Depth	
UNIT LETTER N	LOCATED 1980	13,000	
FEET FROM THE west LINE		15A. Formation	
660		Devonian	
FEET FROM THE south LINE OF SEC. 13		20. Rotary or C.T.	
TWP. 12S		Rotary	
RCE. 34E		21A. Kind & Status Plug. Bond	
NMPM		Blanket	
Elevations (Show whether DT, RT, etc.)		21B. Drilling Contractor	
4133' GR		Unknown	
22. Approx. Date Work will start			
3/10/86			

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"	54.5#	350'	370 sxs Class C	surface
12 1/4"	8 5/8"	32 #	4200'	1400 sxs Class C	surface
7 7/8"	5 1/2"	17#	13000'	830 sxs Class H	10,000'

1. MIRU drilling rig.
2. PU 17 1/2" bit and drill surface hole to 350'+/- w/fresh water spud mud. (Be sure that Ogalla aquifer has been completely drilled before stopping to run casing.) Possible loss returns could exist in this interval. Dry drill if necessary, pump paper sweep prior to POOH.
3. Run 13 3/8" casing as follows: 13 3/8" float shoe, 1 jt. 13 3/8" casing, 13 3/8" baffle collar, casing to surface. Cement as per cement program attached.
4. CO casing after sufficient WOC time. NU 13 3/8" x 13 5/8"-3M casing head. NU 13 5/8"-5M SRRA preventers. (This is minimum acceptable BOP hook-up.) NU diverter system.
5. Test wellhead to 50% of casing collapse. Test BOP's (except annular) to working pressure. Test manifold to 5000 psi and all valves. Function test all valves (open and close). Test annular preventer to 50% of W.P.

Continued on back of page

ABOVE SPACE DESCRIBE PROPOSED PROGRAM. IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTION ZONE. GIVE SHOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNED Don Lindsey TITLE Drilling Engineer DATE 2/10/86

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

PROVED BY DISTRICT 1 SUPERVISOR TITLE _____ DATE MAR 25 1986

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

6. PU DC's & DP. RIH. Test casing to 600 psi for 30 minutes. Test is satisfactory if pressure drops no more than 10%. Insure that cement has been in place at least 18 hours before initiating test.
7. Drill out FE and drill 12 1/4" hole to 4200'. (Insure that San Andres zone has been topped before stopping to run casing.) POOH.
8. RU loggers and log as directed by Geologist.
9. Make conditioning trip after logging.
10. RU casing crews and run 8 5/8" casing. Cement as per cementing recommendation. Reciprocate pipe while cementing. Stage cement this string. Stage tool should be positioned above any loss circulation zones or below any corrosive zones to insure pipe is adequately protected. Set 20% of casing weight on bottom.
11. Cut off 8 5/8" casing. NU 13 5/8"-3M x 11"-5M casing spool. Test spool to 80% of casing collapse. Install 13 5/8" BOP's as hooked up in Step No. 4. Test BOP's as per Step No. 5. RU mudlogger prior to drilling out.
12. PU 7 7/8" bit. GIH. Drill out DV tool and clean out to FE. Test casing to 1500 psi. Insure that cement has been in place at least 18 hours before initiating test. Drill out casing.
13. Drill to 13,000'. (NOTE: Possible DST's in Ranger Lake Zone +/-10,200' and in Devonian at 12,800'+/-.)
14. Log as directed by Geologist.
15. If well is productive, run and cement 5 1/2" casing.
16. Cement tops should be picked by Geologist. Stage tools will be run should it be necessary to cover a large interval with cement. Have water samples sent in for analysis prior to cementing.
17. If well is to be P&A'd, contact NMOCC, for P&A procedures. Get tops of potential zones from Geologist prior to his departure from the location. Set plugs in accordance with NMOCC requirements. Release rig.

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