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NOV 4 1985  
SAN ANTONIO, NEW MEXICO 87501O. C. D.  
ARTESIA, OFFICE

5A. Indicate Type of Lease
STATE <input checked="" type="checkbox"/> FEDERAL <input type="checkbox"/>
5. State Oil & Gas Lease No.

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

a. Type of Work	DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>	7. Unit Agreement Name
b. Type of Well	OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>	8. Farm or Lease Name
2. Name of Operator	Tenneco Oil Company ✓	State RL 16
3. Address of Operator	7990 IH 10 West, San Antonio, Tx 78230	9. Well No.
4. Location of Well	UNIT LETTER M LOCATED 330 FEET FROM THE south LINE	10. Field and Pool, or Wildcat
	NO 330 FEET FROM THE west LINE OF SEC. 16 TWP. 11S RGE. 28E NMPM	Wildcat - <i>Dominican</i>
		12. County
		Chaves
	19. Proposed Depth	15A. Formation
	7200'	Devonian
		20. Rotary or C.T.
		Rotary
1. Elevations (Show whether DT, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor
3669.5 GR	Blanket	Unknown
		22. Approx. Date Work will start
		11-15-85

## 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
11"	8 5/8"	24#	1900'	400 sxs Lite	surface
7 7/8"	5 1/2"	15.5#	7200'	715 sxs Class H	400'

- Construct suitable location.
- MIRU.
- Drill 17 1/2" hole to +/-350'.
- SLMOOH. Run and set 350' of 13 3/8", K55, 54.5#, STC surface casing. Centralize and cement as per cementing program. Slack off weight of casing to leave in full compression.
- WOC 8 hours.
- Cut off 13 3/8" casing and install 13 3/8" x 13 5/8" 3M SOW casing head w/2-2" LPO, 1-2" 3M ball valve and 1-2" bull plug.
- NU 3M SRRA BOPE w/manifold. Test weld, wellhead, blind rams and choke manifold to 500 psi. Witness all tests. Test wellhead weld w/wellhead serviceman.
- RIH w/11" bit and BHA to top of cement. Test casing and pipe rams to 500 psi. Test is okay if there is less than 10% reduction in pressure in 30 minutes.
- RU H<sub>2</sub>S equipment.

APPROVAL VALID FOR 180 DAYS  
PERMIT EXPIRES 5-5-86  
UNLESS DRILLING UNDERWAY

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 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 Don Lindsey Title Drilling Engineer Date October 30, 1985

(This space for State Use)

Original Signed By  
Mike WilliamsAPPROVED BY Oil & Gas Inspector DATE NOV 5 1985

CONDITIONS OF APPROVAL, IF ANY:

10. Drill out float equipment and cement very cautiously.
11. RU mudloggers by 1000'.
12. Drill 11" hole to 1900' according to the Mud Program.
13. Circulate and condition hole to run 8 5/8" intermediate casing.
14. SLMOOH.
15. Run and cement 8 5/8" K55, 24#, STC intermediate casing as per cementing program.
16. WOC 8 hours.
17. Cut off 8 5/8" casing and 13 3/8" wellhead. Install 8 5/8" x 11" 3M SOW wellhead. Orange peel 13 3/8" casing to 8 5/8" casing with a 1" nipple and valve on the 13 3/8" casing.
18. NU same BOPE, manifold and hydril w/pipe rams on bottom. Yellow-jacket test BOP to working pressure and hydril to 75% working pressure. Test SOW head to 1000 psi. Witness all tests.
19. RIH w/7 7/8" bit and BHA to top of cement. Test casing to 1500 psi.
20. Drill out float equipment and cement very cautiously.
21. Drill 7 7/8" hole to 7200'. SLM OOH. Run logs according to Logging Program and SWD. \*NOTE: Be prepared to run DST in the Devonian.
22. If DST is to be run RIH w/7 7/8" bit and BHA. Circulate and condition hole to DST if needed.
23. PU, MU and RIH w/DST tools. Try to be on bottom and ready to open tool at daybreak. Run DST as per SWD. POOH w/DST tools.
24. RIH w/7 7/8" bit and BHA. If well is to be cased, circulate and condition hole to run 5 1/2" production casing. If well is to be P&A'd, have geologist pick all geologic tops from electric logs and consult NMOCC for proper P&A procedure.
25. POOH and LD DP and DC's.
26. RU and run 5 1/2", K55, 15.5#, STC production casing. Cement and centralize according to Cement Program. Calculate final cement volumes based on open hole caliper.
27. ND BOP's. Set slips on 5 1/2" casing and cut off same. Install tubing head.
28. Release rig and MORT.