Form 3160-5
November 1983)
Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: SF-079319

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

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FARMINGTON RESOURCE AREA

1. OIL WELL ☐ GAS WELL ☒ OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Tenneco Oil Company

8. FARM OR LEASE NAME: Schwerdtfeger A

3. ADDRESS OF OPERATOR: P. O. Box 3249, Englewood, CO 80155

9. WELL NO.: 3E

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1800' FSL, 800' FWL

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 6, T27N R8W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5921' GR

12. COUNTY OR PARISH: San Juan

13. STATE: NM

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Dual to PC				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Tenneco requests permission to dual to the Pictured Cliffs Formation according to the attached detailed procedure.

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OIL CON. DIV.
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE Senior Regulatory Analyst DATE 11/20/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE NOV 26 1985

CONDITIONS OF APPROVAL, IF ANY:

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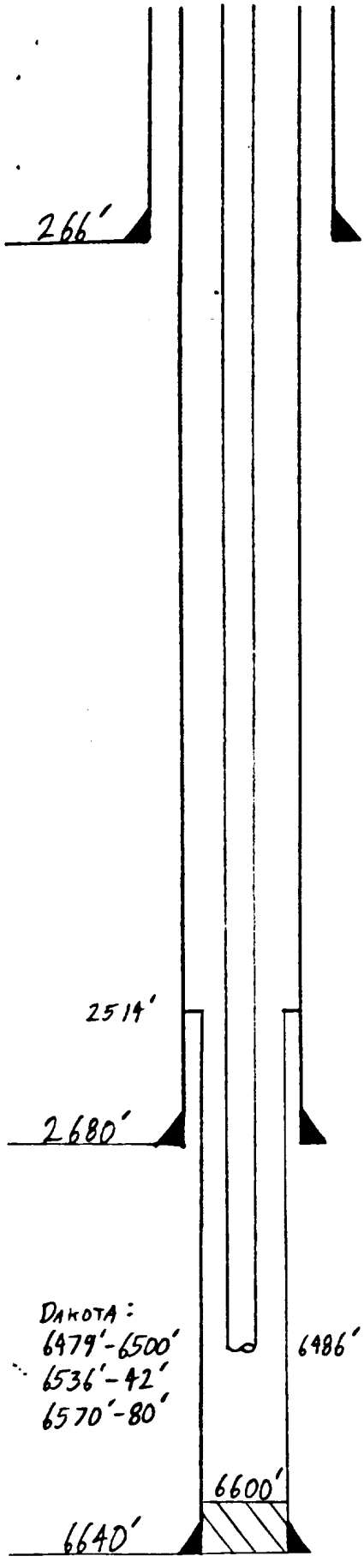
FARMINGTON RESOURCE AREA

*See Instructions on Reverse Side

NMOCC

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



LEASE Schwerdtfeger
WELL NO. A3E

CASING:

9 5/8 "OD, 36 LB, K-55 CSG. W/ 250 SX
TOC @ surface HOLE SIZE 12 1/4" DATE: 2/13/81
REMARKS circ. cmt to surf.

7 "OD, 23 LB, K-55 CSG. W/ 550 SX
TOC @ _____. HOLE SIZE 8 3/4 DATE: 2/15/81
REMARKS Lost rtns 64 BBLS into displacement

_____ "OD, _____ LB, _____ CSG. W/ _____ DATE: _____ SX
TOC @ _____. HOLE SIZE _____ DATE _____
REMARKS _____

TUBING:

2 3/8 "OD, 4.7 LB, J-55 GRADE, 8 RD, N/A CPLG
LANDED @ 6486 . SN, PACKER, ETC. N/A

_____ "OD, _____ LB, _____ GRADE, _____ RD, _____ CPLG
LANDED @ _____. SN, PACKER, ETC. _____

Liner
TOL: 2514', W/BOTTOM SET @ 6640'
41/2" OD, 10.5 LB, K-55 CSG. W/ 500 SXS.
TOC @ TOL, HOLE SIZE 6-1/4", DATE 2/20/81.
REMARKS: REVERSED OUT 10 bbls CMT FROM LINER HANGER.

PUMP _____ RODS _____ ANCHOR _____

DETAILED PROCEDURE:

1. Check location for anchors, install if necessary. Lay ~~blow~~ dn lines to pit and start blowing well down.
2. MIRUSU. Kill w/1% KCL wtr if necessary, remove WH and install BOP.
3. RIH w/2-3/8" tbg and tag fill, CO to PBTD with nitrogen foam if necessary. POOH w/2-3/8" tbg.
4. RIH on WL W/A 7" Model "D" w/expendable plug in place and set at 2500'. Dump 2 sxs sand on pkr. ~~Load hole w/2% KCL wtr and PT to 3500 psig.~~

622

PT to 500psi, Change out wellhead then PT to 3500 psi.

/

PROCEDURE – PAGE 2

LEASE NAME: Schwerdtfeger WELL NUMBER: A3E

5. NDBOP, and single csg head. Install a dual casing head and NDBOP. PT to 3500 psig.
6. MIRUWL. Run GR/CBL/CCL from 2500' to TOC. Run a GR-CCL-CNL log from 2500' up to 500' and telecopy results to Denver for perforation identification.
7. RIH w/tbg to BOT perf, spot 500 gal of DI 7-1/2" HCL across the perfs and POOH w/2-3/8" tbg.
8. Perforate the Pictured Cliffs intervals per Denver's instruction using 4" hollow carrier csg guns w/120 degree phasing and 2 JSPF. Displace spot acid.
9. RIH w/a 7" fullbore pkr on 2-3/8" tbg and set pkr 150' above the top perforation. Load the annulus w/2% KCL wtr and PT to 1500 psig. Bleed off to 500 psig and monitor for communication during the acid job.
10. Break down the perfs and establish and inj. rate and pressure using 2% KCL wtr. SD and record ISIP.
11. Acidize w/20 gals of 25% weighted HCL per perf and 50% excess 7/8" 1.1 S.G. RCN ball slrs. Pump @ max rate w/max STP 3500 psig. Overdisplace acid 2 bbls past btm perf.
12. Release the pkr and RIH past the perfs to knock the balls off. PUH w/the pkr 1 jt above the top perforation and blow hole dry w/nitrogen. POOH w/pkr and tbg.
13. Foam fracture the Pictured Cliffs formation dn csg using 70% quality nitrogen foam and 20# Gel/1000 gal. 2% KCl WATER. Rate to be specified w/ max STP 3500 psig.
    Design to be furnished by Denver Office based on net feet of P.C. pay encountered. See attached design graph for rate and volumes.
14. Shut in for 2 hrs and FTCU overnite through a 1/2" tapped bull plug.
15. RIH w/ long stg of 2-3/8" tbg w/mule shoe jt on btm, SN 1 jt of bottom w/ exp check in place, blast jts across from P.C. and remainder of tbg.
16. CO to Mod "D" packer, knock out plug and RIH w/remainder of 2-3/8" tbg, spacing out seal assbly and blast jts so the the tbg is landed ± 6500'.
17. PU short string of 1-1/4" tbg w/beveled collars, an oranged peeled, perforated sub on btm, SN 1 jt off btm and pmp out plug in place, RIH and land btm of tbg at bottom of P.C. perfs.
18. NDBOP and NUWH.
19. Load long string half full w/2% KCL wtr, drop steel ball and pump out exp check w/ nitrogen. Swab in if necessary. FTCU.
20. Pump out plug from short string. Kick around w/nitrogen and FTCU.
21. RDMOSU.