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-078336-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Barrett

9. WELL NO.: 12

10. FIELD AND POOL, OR WILDCAT: Blanco Pictured Cliffs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 19, T31N, R9W

12. COUNTY OR PARISH: San Juan | 13. STATE: NM

RECEIVED
BLM
87 DEC 10 AM 9:07
FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

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.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: Tenneco Oil Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface:
~~1600' FNL, 1600' FEL~~
1790 FNL 1690 FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6500' GL

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)			X				

(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 complete the referenced well according to the attached detail procedures.

RECEIVED
DEC 31 1987
OIL CON. DIV.
DIST. 3

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

SIGNED David Hiatt TITLE Sr. Administrative Analyst DATE 12/4/87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
DEC 29 1987
James F. Edwards
FOR AREA MANAGER

NMOCD

*See Instructions on Reverse Side

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 Barrett
WELL NO. 12

CASING:

8 5/8 "OD, 32 LB, K-55 CSG/W 200 SX
TOC @ circ . HOLE SIZE 12 1/4 DT: 11/1/87
REMARKS

4 1/2 "OD, 11.6 LB, K-55 CSG/W 200/635 SX
TOC @ circ . HOLE SIZE 7 7/8 DT: 11/5/87
REMARKS DV @ 2486

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

TUBING:

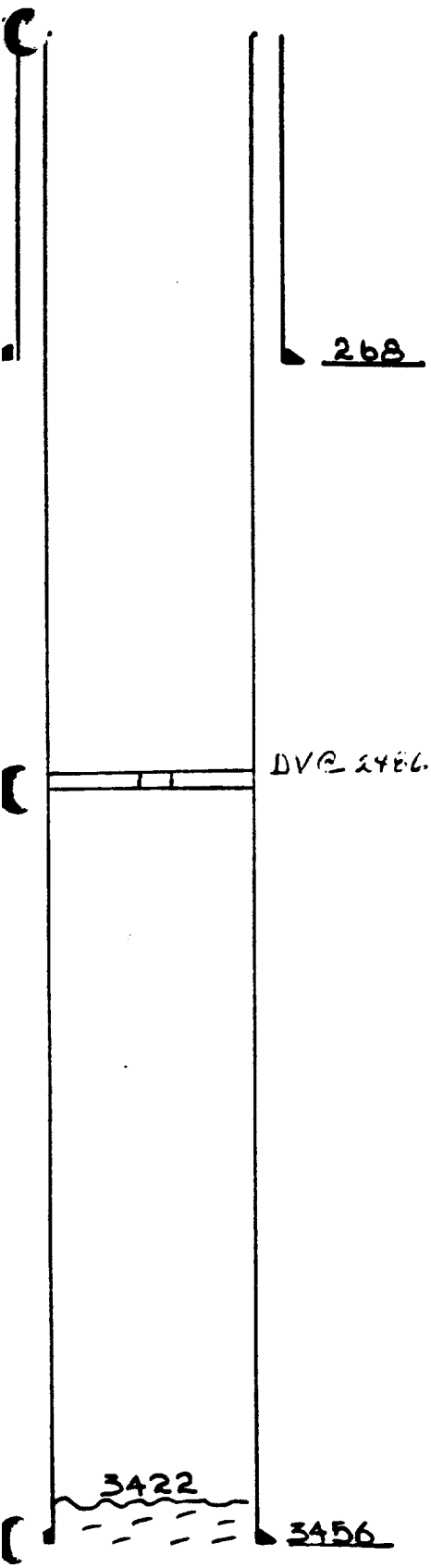
"OD, LB, GRADE, RD, CPLG
LANDED @ . SN, PACKER, ETC.

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

PUMP RODS ANCHOR

DETAILED PROCEDURE:

1. MIRUSU. NDWH. NUBOP.
2. RIH w/3-7/8" bit on 2-3/8" tbg. DO DV @ 2486. CO to PBTD @ 3422'. PT csg to 3500 psi. Roll hole w/ 2% KCl wtr. POOH
3. MIRU wireline CO. Run GR/CCL. Perforate the following interval w/a 3-1/8" csg gun loaded w/2-.42" JSPF.
   3338-3400' 62' 124 holes
   Tie into Gearhart CDL dated 11/4/87 for depth control.
   Est rate into perfs in KCL.
4. RIH w/tbg and pkr. Set pkr @ 3250'. PT csg to 500 psi.
5. MIRU Service Co. Acidize perfs w/1000 gals 15% HCL foamed to 70Q. Flush to perfs w/foam. Pump @ 10 BPM and 4000 psi max. Flow well back and test. Record rates and call Denver.



DETAILED PROCEDURE - PAGE TWO

6. POOH LD tbg and pkr.
7. Slick wtr/fracture treat as follows:
   20,000 gal pad
   6,000 gal 1/2 ppg 20/40
   8,000 gal 1 ppg 20/40
   10,000 gal 1 1/2 ppg 20/40
   23,000 gal 2 ppg 20/40
   Flush to top perf w/slick wtr.
   Total 67,000 gal
   72,000# 20/40 sand
   Pump all fluid @ 50 BPM and 4000 psi max pressure. SI overnight if positive, WHP.
8. RIH w/1-1/4" tbg. CO sand to PBTD. PUH land tbg @ 3300'. NDBOP, NUWH. Swab well in and test.
9. SI for AOF.

2235

expected P_s =

$(.65)(3350) + 670 - 1507 =$ 1340 psi

alternate foam design:

15000 gal pad
5000 gal @ 1 ppg
8000 gal @ 2 ppg
12000 gal @ 3 ppg
5000 gal @ 4 ppg

45000 gal
77 m# 20/40