

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

SF-078566

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Storey LS

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 27, T28N R8W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

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 BUREAU OF LAND MANAGEMENT

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations.)

See also space 17 below.)  
At surface

890' FNL, 1550' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

6088' GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANE

(Other) sidetrack & run casing, recomplete

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(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 sub-surface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Tenneco requests permission to sidetrack, run casing and recomplete the referenced well according to the attached detailed procedure.

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

SIGNED

TITLE Senior Regulatory Analyst

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

\*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.

RECEIVED

JAN 07 1986

OIL CON. DIV.  
DIST. 3

DATE

12/27/85

DATE

JAN 03 1986

FARMING COUNTY

0717/

LEASE Storey LS

WELL NO. 1

CASING:

9 5/8 "OD, 36 LB, J-55 CSG.W/ 300 SX

TOC @ surf. HOLE SIZE DT: 4/2/54

REMARKS Circulated cmt. to surface.

7 "OD, 20/23 LB, J-55 CSG.W/ 500 SX

TOC @ 2360. HOLE SIZE DT: 4/12/54

REMARKS TOC by temp. survey

"OD, LB, CSG.W/ DT: SX

TOC @ . HOLE SIZE DATE

REMARKS

TUBING:

2 3/8 "OD, 4.7 LB, J-55 GRADE, 8 RD, EUE CPLG

LANDED @ 4821'. SN, PACKER, ETC.

"OD, LB, GRADE, RD, CPLG

LANDED @ . SN, PACKER, ETC.

PUMP RODS ANCHOR

DETAILED PROCEDURE:

1. Prepare location by blading and installing anchors, if necessary. Install blowdown lines and blow well down.
2. MIRUSU. Kill tbg w/1% KCL water
3. NDWH. NU 6" 3000 psi BOPE.
4. POOH laying down tubing. Visually inspect tbg on trip out. Note: If tbg is stuck, do not pull over 40K# as tbg may be in very poor condition RIH w/jet cutter and attempt first shot at least 100' below the 7" csg shoe.

2 3/8" - 4.7# TBL

320'

4135'

4840'

4821'

5. Set Baker cement retainer at 3945' (approx. 200' above the 7" csg shoe.) PU stinger, crossover, 2-7/8" drill pipe and TIH. Fill hole and PT BS to 1000 psi.
6. Squeeze open hole w/300 sxs Class B w/1% CaCl<sub>2</sub> (sidetrack plug). Sting out and reverse tbg clean. TOOH and LD stinger.
7. NDBOP and tbghd, NU 11"-2M x 11"-2M casing spool and BOPE. PT stack, blind and pipe rams to 1000 psi.
8. TIH w/6-1/4" bit and drill collars. Unload hole w/N<sub>2</sub>. Drill out cement retainer, and dress off open hole plug to 15' below the 7" csg shoe. Blow hole clean and TOOH.
9. RU to drill w/gas. PU knuckle joint kick-off assembly. TIH. Survey as needed, make kickoff and angle building run.
10. Open hole to 6-1/4". Drill to TD w/air or foam. POOH for logs.
11. RUWL and run GR-DIL and GR-CDL-Caliper over entire open hole. TIH to TD, blow hole clean, POOH laying down, and RU to run csg.
12. Run 4-1/2" 10.5# K-55 STC csg as a long string as follows: guide shoe, float collar one jt up with 3 centralizers.
13. Cement as follows: Precede cement w/10 BBLS mud flush. Cement 4-1/2" in place using sufficient volume of 50:50 pozmix + 1/4# /sx flocele to raise cement to  $\pm$  2500'.
14. Set slips w/full csg weight. NDBOP and cut off 4-1/2" csg. NU tubinghead.
15. Load BS w/corrosion inhibited water and PT to 1000 psi. RDMORT.
16. MIRUSU. NUBOPE.
17. PU 3-7/8" bit, csg scraper, 2-3/8" 4.7# J-55 EUE 8 rd tbg and tally in hole. Roll hole w/ 1% KCL water. PT csg to 3500 psi.
18. Spot a sufficient quantity of 7-1/2% DI HCL to cover the perforated interval + 200'. POOH. LD bit and scraper.
19. RUWL. Run GR-CCL fr PBTD to 150' above the highest pay. Perf the Lower Mesaverde under lubricator from the top interval down using a 3-1/8" hollow carrier csg gun loaded 2 JSPF @ 120° phasing.
20. Acidize down csg w/20 gal per perf of 15% wgt'd HCL containing 600# NACL/1000 gal & 1.5 l.l SG RCN ball sealers per perforation. Displace at maximum rate w/MSP less than 3500 psi.

/

PROCEDURE - PAGE 2

LEASE NAME: Storey LS WELL NUMBER: 1

21. RIH w/ junk basket on WL to recover ball slrs.
22. RU & frac Lower Mesaverde w/slickwater containing 1% KCL, .5 gal /1000 gal friction reducer and 2500#/ft 20/40 sand @ 1 BPM /perf; fluid/sand design below. Flush to 10 BBLS shy of top perf and close blind rams ASAP if well is on vacuum. Otherwise, obtain ISIP, 5 & 15 minute ISIP. Close Rams.
23. RUWL and RIH w/Baker 4-1/2" RBP. Set approx. 50' above top perf. Dump 2 sx frac sand on RBP, load csg w/1% KCL water. PT RBP to 3500 psi.
24. TIH w/2-3/8" tbg to BOTTOM OF NEXT INTERVAL and spot a sufficient quantity of 7-1/2% DI HCL to cover the top perf + 200'. POOH.
25. RUWL. Perforate the Upper Mesaverde under lubricator from the top interval down using a 3-1/8" hollow carrier csg gun loaded w/2 JSPF @ 120 degrees phasing.
26. Acidize down csg w/20 gal per perf of 15% wgt'd HCL containing 600# NaCl/1000 gal and 1.5 l.1 SG RCN ball sealers per perforation. Displace at max rate w/MSP less than 3500 psi.
27. RIH w/junk basket on wireline to recover ball sealers.
28. RU and frac Upper Mesaverde w/slickwater containing 1% KCL, .5 gal /1000 gal friction reducer, and 2500#/ft 20/40 sand @ 1 BPM/perf; fluid/sand design below. Flush to 10 BBLS shy of top perf. Shut blind rams ASAP if well is on vacuum. Otherwise, obtain ISIP, 5 and 15 minute ISIP, and close rams.
29. Retrieve RBP.
30. TIH w/2-3/8" production string w/pump out plug on bottom and SN 1 jt up.
31. CO to PBTD w/nitrogen foam. PU and set bottom of tbg within 20' of lowest perforation. Land tbg and NUWH.
31. Kick well around w/nitrogen and FTCU.
33. RDMOSU.

Mesaverde Frac Design

1. 2500# 20/40 sand per ft. net pay.
2. 1 BPM per perforation.
3. Fluid to contain 1% KCL, .5 gals/1000 gal friction reducer.
4. Schedule
  - 2 csg volume @ 1/2 ppg 20/40 sand
  - 2 csg volume @ 1 ppg 20/40 sand
  - 2 csg volume @ 1-1/2 ppg 20/40 sand
  - remains @ 2 ppg 20/40 sd