

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-010989	
2. NAME OF OPERATOR Tenneco Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 3249, Englewood, CO 80155		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1500' FSL, 850' FEL		8. FARM OR LEASE NAME Fields LS	
14. PERMIT NO.		9. WELL NO. 2A	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6226' GL		10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Sec. 25, T32W, R11W	
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.)*		12. COUNTY OR PARISH San Juan	
		13. STATE NM	

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AUG 28 1985

BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

RECEIVED

SEP 03 1985

OIL CORP. DIV.  
DIST. 3

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

SIGNED

*John M. Kelly*

TITLE Senior Regulatory Analyst

DATE

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

AUG 29 1985

*John M. Kelly*  
FARMINGTON RESOURCE AREA

\*See Instructions on Reverse Side

NMOC

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APR 18 1964

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APR 18 1964  
APR 18 1964

Fields LS 2 A  
Workover Procedure

6/13/85

Casing:

9-5/8" OD, 32.3#, H-40 Csg w/224 cu.ft.  
TOC @ Surface. Hole Size- 12-1/4" 7/12/77  
Remarks \_\_\_\_\_

7" OD, 20.0#, K-55 Csg w/455 cu.ft.  
TOC @ 1300 '. Hole Size- 8-3/4" 7/16/77  
Remarks \_\_\_\_\_

4-1/2" OD, 10.5#, K-55 Csg w/185 cu.ft.  
TOC @ 3000 '. Hole Size- 6-1/4" 7/19/77  
Remarks: External Csg Pkr @ 5296'.

Tubing:

2-3/8" OD, 4.7#, J-55 Grade, Brd EUE Cplg  
Landed @ 5292'. S/N @ \_\_\_\_\_.

Purpose:

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To stimulate the existing zone and perforate and frac additional Mesaverde pay. Also, to reduce BHFP by pulling the 2-3/8" tubing and flowing up the 4-1/2" casing.

Status:

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Currently completed naturally in the Point Lookout. The 4-1/2" casing is cemented from above the external casing packer @ 5296' to approximately 3000'. Below the ECP the casing is free. Currently producing 1.5 MMCFD.

Detailed Procedure:

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1. After flowing the well for 5 or more days, RU B&R for a 72 hour bottom hole pressure buildup. Continue to flow well for at least 4 hours after landing the bomb to get a BHFP. RU a two pen pressure recorder to tubing and annulus. SI for BHPBU. Get static gradients at end of test.

2. Prepare location by blading and installing anchors, if necessary. Move in 20 400 BBL tanks and fill with 1% KCL water. NU and stake down blowdown lines to both wing valves. Tee into one wing valve to pump KCL water into annulus.

3. MIRUCU. Kill tubing and annulus.

Procedure (continued)

- 4. While continuing to pump slowly down the annulus, NDWH and NU 6" 3000 psi BOP and 6" 3000 psi X 6" 2000 psi double studed adapter. (Not required if BOP has ring groove for 2000 psi flange.) Have 2-3/8" X 1-1/4" crossover and 2500' of 1-1/4" 10rd tubing delivered to location.
- 5. Pressure test 7" X 4-1/2" annulus to 750 psi. Install 3000 psi guage. Trip in and tag PBTD. Talley DOH standing back tubing. Visually inspect tubing on trip out. Replace any bad joints, PU 3-7/8" bit, and TIH. CO to PBTD with N2 foam if necessary. TDOH standing back tubing.
- 6. RUWL. Perforate the Point Lookout under lubricator at 5385, 5374, 5346-60, and 5316-21 using 3-1/8" hollow carrier csg guns loaded 2 JSPF @ 120 phasing. Correlate to Schlumberger TDT log run 7/24/77.
- 7. Acidize down casing with 2000 gal of 15% unweighted HCL. Displace at maximum rate with MSP < 2500 psi.
- 8. RU and frac Point Lookout with slickwater containing 1% KCL as per design from pressure buildup analysis. Fluid/sand schedule to follow. Flush to 5 bbls shy of top perf & close blind rams ASAP.
- 9. RUWL & RIH w/ Baker wireline set 4-1/2" RBP. Set @ 5230' KB. Dump 1 sx sand on RBP, load casing with 1% KCL water, & PT to 2500 psi.
- 10. TIH with 2-3/8" tubing & spot 250 gals of 7-1/2% DI HCL @ 5168'. POOH.
- 11. RUWL. Perforate the Menefee under lubricator at 5158-68, 5071-76, 5056-64, and 4986-90 using 3-1/8" hollow carrier csg guns loaded 2 JSPF @ 120 phasing. Correlate to Schlumberger TDT log run 7/24/77.
- 12. Acidize down casing with 1000 gal of 15% weighted HCL containing 80 1.1 SG RCN ball sealers. Displace at maximum rate with MSP < 2500 psi.
- 13. RIH with junk basket on wireline to knock off and recover ball sealers.
- 14. RU and frac Menefee with slickwater containing 1% KCL, 15#/1000 gal friction reducer and 2500#/ft 20/40 sand @ 1 BPM/perf.

Stage	Gals	#/Gal
=====	=====	=====
1	14600	Pad
2	10000	1/2
3	10000	1
4	10000	1-1/2
5	18700	2
6	3100	Flush

Estimated rate -55 BPM. MSP - 2500 psi. Flush to 5 bbls shy of top perf & close blind rams ASAP.

15. SWION.

Procedure (continued)

16. RUWL & RIH w/ Baker 4-1/2" wireline set RBP. Set @ 4970' KB. Dump 1 ex sand on RBP, load casing with 1% KCL water, & PT to 2500 psi.
17. TIH with 2-3/8" tubing to 4940' & spot 350 gals of 7-1/2% DI HCL. POOH.
18. RUWL. Perforate the Cliffhouse under lubricator at 4916-40, 4878- 4912 with 1 JSPF @ 180 phasing and 4870-74, 4856-60, 4811, 4804, 4799, 4708, 4660-62, 4588, and 4554-64 with 2 JSPF @120 phasing using 3-1/8" hollow carrier csg guns. Correlate to Schlumberger TDT log run 7/24/77.
19. Acidize down casing with 3300 gal of 15% weighted HCL containing 160 1.1 SG RCN ball sealers. Displace at maximum rate with MSP < 2500 psi.
20. RIH with junk basket on wireline to knock off and recover ball sealers.
21. RU and frac Cliffhouse with slickwater containing 1% KCL, 15#/1000 gal friction reducer and 2500#/ft 20/40 sand.

Stage	Gals	#/Gal
=====	=====	=====
1	35600	Pad
2	9800	1/2
3	9800	1
4	9800	1-1/2
5	89300	2
6	3000	Flush

Estimated rate -90 BPM. MSP - 2500 psi. Flush to 5 bbls shy of top perf & close blind rams ASAP.

22. SWION.
23. TIH with 2-3/8" tubing with BP retrieving head. CO to upper BP with N2 foam. Latch onto and POOH with BP. Repeat for lower BP. TIH and CO to 5465'. Pull up above perms and shut down to allow sand behind the 4-1/2" to settle out. TIH and CO. Repeat if necessary. TOOH laying down 2-3/8" tubing. PU 1-1/4" 2.4# J-55 10rd production tubing open ended. Talley in hole and land tubing @ ~ 2500'. NUWH.
25. Open well to pit and FTCU.