## UNUTED STATES

5.	LEASE
	SF-081098-A

DEPARTMENT OF THE INTERIOR	SF-081098-A			
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME			
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME			
1. oil gas Other	Florance 9. WELL NO.			
2. NAME OF OPERATOR	4A			
Tenneco Oil Company  3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT NAME Blanco Mesaverde			
P.O. Box 3249, Englewood, CO 80155	11. SEC., T., R., M., OR BLK. AND SURVEY OR			
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	Sec. 10, T20N, R9W			
below.) AT SURFACE: 1080' FNL, 1605' FWL	12. COUNTY OR PARISH 13. STATE			
AT TOP PROD. INTERVAL:	San Juan NM			
AT TOTAL DEPTH:	14. API NO.			
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	THE PROPERTY OF THE PROPERTY O			
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 6100' GR			
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	0100 dix			
TEST WATER SHUT-OFF				
REPAIR WELL	(NOTE: Report results of multiple completion or zone			
PULL OR ALTER CASING   MAD o a	change on Form 3-330./			
CHANGE ZONES  ABANDON*  (other)  CHANGE BUREAU OF LAND IN THE PROPERTY OF LAND	MANAGEMENT DURCE AREA			
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stating including estimated date of starting any proposed work. If well is a measured and true vertical depths for all markers and zones pertine.				

Tenneco request permission to dual the above referenced well by re-completing in the Fruitland Coal Formation according to the attached detailed procedure.



OIL CON. DIV. DIST. 3

	(2.3.7.	
Subsurface Safety Valve: Manu. and Typ	e	Set @ Ft.
18. I hereby certify that the foregoing is SIGNED	true and correct  TITLE Sr. Prod. Analyst	DATE 3/2/84
	(This space for Federal or State office use)	
APPROVED BY	TITLE	- DATE - PRUTTE
c'h 7	*See Instructions on Reverse Side	RESTATE A MANAGE PULL
	MINIOCO	RESTAREA MANAGETER

10			
	010		
	235 100 @ 5277 SN. ISTOFF 10FM		
3134:_A	23.	- To.	∠•293 <sup>3</sup>
		4457	Jen's
		4756 4857	MESNIEDE PERS

19. If necessary, frac Upper Coal down csg using 70% quality foamed  $N_2$  w/30#/1000 gal gel. Pump @ 20 BPM w/max STP = 3500 psi as follows:

7,000 gal PAD

3,000 gal 1 ppg 20/40

5,000 gal 2 ppg 20/40

5,000 gal 3 ppg 20/40

5,000 gal 4 ppg 20/40

Total Volumes: 25,000 gal foam & 48,000 # sd.

- 20. SI for 2 hrs. Then FTCU thru 1/2" tapped bull plug overnight.
- Test.
  21. RIH w/tbg & retrieving head. \*CO to % @ 2750' w/foam. Release & POOH w/B.P.
- 22. RIH w/2-3/8" long string w/seal assy, blast jts, S.N. & pmp-thru expendable check, C.O. w/ foam to Model "D", knock out pkr plug. Land tbg @ \$280' ± .
- 23. RIH w/2-3/8" short string w/S.N. & pmp-out plug in orange-peeled perf'd sub. Land @ 2860'.
- 24. Drop ball & pmp out long string plug, return M.V. to prod. Swab if Recessary
- 25. Pump out short string plug, kick around  $w/N_{\rm b}$ .
- 26. Flow Coal to clean up, then Si for AOF.
- 27. Run rods & install pumping-Unit if Coal is wet.

LEASE_ Florance						
		WELL NO.	48	<del></del>		
"00,_	36	LB,_	K-55	_csg.w/_	225	_sx
Surfac	:e					
,00	26	LB,_	K-55	_CSG.W/_	300	_sx
Surfac	: e					
_ <b>"O</b> D	10.5	LB,_	K-55	_csg.w/_	240	_sx
	<del></del>	<del></del>				
	Surfac _"OD,_ Surfac _"OD	Surface  "OD, 26  Surface	WELL NO.  "OD, 36 LB,  Surface  "OD, 26 LB,  Surface  "OD. 10.5 LB,	WELL NO. 4A  "OD, 36 LB, K-55  Surface  "OD, 26 LB, K-55  Surface  "OD. 10.5 LB, K-55	WELL NO. 4A  "OD, 36 LB, K-55 CSG.W/  Surface  "OD, 26 LB, K-55 CSG.W/  Surface  "OD. 10.5 LB, K-55 CSG.W/	WELL NO. 4A  "OD, 36 LB, K-55 CSG.W/ 225  Surface  "OD, 26 LB, K-55 CSG.W/ 300  Surface  "OD. 10.5 LB, K-55 CSG.W/ 240

## **DETAILED PROCEDURE:**

- MIRUSU. Kill Mesaverde w/1% KCL wtr. NDWH. NUBOPE. Pook. Check PBTD; CO if necessary, POOH w/tbg.
- 3. Run GR/Neutron log from surface to T.O.L.

(telecopy results to Denver).

4. RIH w/7" Model "D" pkr w/expendable plug on wireline. Set @ 2900'.
P.T. csg & pkr to 3000 psi. Dump 2 sx sand on

top. CHANGE OUT WELLHEAD.

6. Perforate Lower Fruitland Coal 1 JSPF using 4" csg gun & premium charge in the following intervals: 2864-2883', 2827'-2862', 2785-2803' (76' total).

Note: These intervals Upper Coal intervals are based on offset logs. Actual depths may be slightly different, depending on results of GR/Neutron run.

RIH w/tbg 7" pkr & S.N. Set @ 2350'.

Establish rate w/1% KCl wtr, then acidize perfs w/2000 gal 15% HCl, nitrify acid w/500 SCF/BBL.

FTCU thru 1/2" tapped bull plug. Swab in if necessary. Test well, then POOH w/tbg.

10. If necessary, frac Lower Fruitland Coal down csg w/70% quality foamed N<sub>2</sub> w/30# gel pump 0 20 BPM w/max STP = 3000 psi as follows:

> 20,000 gal PAD 8,000 gal 1 ppg 20/40 12,000 gal 2 ppg 20/40 15,000 gal 3 ppg 20/40 17,000 gal 4 ppg 20/40

Total Volumes: 72,000 gal foam & 145,000# sd.

- 11. Shut in for 2 hrs, then FTCU thru 1/2" tapped bull plug, overnight.
- 12. RIH w/tbg & CO to perfs if necesary. Test. Pool.
- 13. RIH w/wireline set tbg-retrievable B.P. Set @ 2750' + (exact depth determined from GR log.). 14. PT B.P. to 3000 psi. Dump 2 sx sand on top.
- 15. Perforate Upper Coal 1 JSPF using 4" csg gun: premium charges in the following intervals: 2685-2709' (24' total).
- 16. RIH w/tbg, 7" pkr & S.N. set @ 2650.
- 17. Establish rate w/1% KCl wtr, then acidize Upper Coal w/750 gal 15% HCl, nitrify w/500 SCF/bbl.
- 18. FTCU thru 1/2" tapped bull plug. Swab in if necessary., Test well. Then POOH w/tbg.

३ 705 0 5277 - TO.L = 2933 3/34 4755 4157 53/8