

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12/20/85																																																																															
Company TENNECO OIL CO.				Correction																																																																															
Pool BLANCO Basin Dakota				Formation MESA VERDE																																																																															
Completion Date		Total Depth 7453		Plug Back TD 7443																																																																															
				Elevation																																																																															
Casing Size 7" 4 1/2" 2 3/8"				Perforations: From 7246 To 7418																																																																															
Well No. 20M				Farm or Lease Name SCHWERTFEGER A LS																																																																															
Type Well - Single - Bradenhead - G.C. or G.O. Multiple				Packer Set At 5415																																																																															
Producing Thru				State NEW MEXICO																																																																															
Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a																																																																															
L H		C _g % CO ₂ % N ₂ % H ₂ S		Prover Meter Run Taps																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h_w</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>1.</td> <td>2x6x.75</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1395</td> <td></td> <td>822</td> <td></td> <td rowspan="5">3 hours</td> </tr> <tr><td>2.</td><td></td><td></td><td></td><td></td><td></td><td></td><td>58</td><td></td><td>822</td><td>50</td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>						FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	1.	2x6x.75						1395		822		3 hours	2.							58		822	50	3.											4.											5.										
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RATE OF FLOW CALCULATIONS																																																																																			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd																																																																												
1	11		70	1.010	1.195	1.0065	935																																																																												
2.																																																																																			
3.																																																																																			
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5.																																																																																			
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ R																																																																														
1	.10	510	1.29	.987	JAN 21 1986 OIL CON. DIST. 3																																																																														
2.																																																																																			
3.																																																																																			
4.																																																																																			
5.																																																																																			
$P_c = 1407$ $P_c^2 = 979649$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0050$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0037$																																																																														
NO.	P _i	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 938$																																																																														
1		70	4900	974749																																																																															
2.																																																																																			
3.																																																																																			
4.																																																																																			
Absolute Open Flow 938 Mcfd @ 15.025					Angle of Slope θ			Slope, n .75																																																																											
Remarks:																																																																																			
Approved by Division _____ Conducted by: _____ Calculated By: _____ Checked By: _____																																																																																			