

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-23-86			
Company TENNECO OIL CO.				Convection			
Pool BASIN				Formation DAKOTA		Unit	
Completion Date		Total Depth 7560		Plug Back TD 7514		Elevation	
Farm or Lease Name MOORE							
Csg. Size 7" wt. 4 1/2"		Set At 3351 7557		Perforations: From 7296 To 7434		Well No. 11	
Trq. Size 2 3/8"		Set At 7420		Perforations: From To		Unit Sec. Twp. Rge. E 35 32N 11W	
Type Well - Single - Bordenhead - G.C. or G.O. Multiple				Packer Set At		County SAN JUAN	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g	
						State NEW MEXICO	
L		H		Cg .700		% CO ₂	
						% N ₂	
						% H ₂ S	
						Prover	
						Meter Run	
						Taps	

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.	
SI							2160		2220	
1.	2x6x.75						82		504	52
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf/d
1	11		94	1.008	1.195	1.0101	1258
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.14	512	1.30	.980						
2.										
3.										
4.										
5.										

NO.	P _i	P _w	P _w ²	P _e ² - P _w ²
1		516	266256	4715568
2				
3				
4				
5				

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.0564$

(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.0420$

AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1311$

APR 29 1986

RECEIVED

OIL CON. DIV.

DIST. 3

Absolute Crm Flow 1311		Mscf @ 15.025		Angle of Slope @		Slope, n .75	
Remarks:							

Approved By Division	Conducted By:	Calculated By:	Checked By:
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