

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-13-86			
Company TENNECO OIL CO.				Connection					
Pool BASIN				Formation DAKOTA				Unit	
Completion Date		Total Depth 7190		Plug Back TD 7145		Elevation		Farm or Lease Name LACKEY B LS	
Csg. Size 7" 4 1/2"		WI. d		Set At 5290 7190		Perforations: From 6966 To 7140		Well No. 12 E	
Trq. Size 2 3/8"		WI. d		Set At 6726		Perforations: From To		Unit Sec. Twp. Rge. F 21 28 9	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple						Packer Set At 5056		County SAN JUAN	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State NEW MEXICO	
L		H		Gg .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.	Temp. °F	Duration of Flow
1.	2x6x.75						1090				3 hours
2.							86			52	
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	11		98	1.008	1.195	1.0101	1311
2.							
3.							
4.							
5.							

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

P _c 1102 P _c ² 214404		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0469$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0349$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1.		98	9604	204800	
2.					
3.					
4.					
5.					

Absolute Open Flow 1356 Mcfd @ 15.025		Angle of Slope @		Slope, n = .75	
Remarks:					

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