

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-4-82	
Company Jerome P. McHugh				Connection	
Pool Gavilan				Formation Pictured Cliffs	
Completion Date 9-14-82		Total Depth 3615'		Plug Back TD 3560'	
				Elevation 7434'	
Csg. Size 4 1/2"		Wt. 10.5#		d 4.052	
Set At 3585		Perforations From 3527 To 3556		Well No. 2	
Ting. Size 1 1/2"		Wt. 2.4#		d 1.380	
Set At 3520'		Perforations From open ended To		Unit K 36 25N 2W	
Type Well - Single - Bordenhead - G.C. or G.O. Multiple single - gas				Packer Set At none	
Producing Thru tubing		Reservoir Temp. °F p		Mean Annual Temp. °F	
				Baro. Press. - P _a	
L		H		Cg 0.61	
				% 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
1.					
2.					
3.	2"		5/8"	11	48
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
1.					
2.					
3.	8.5417		23	1.0117	0.9918
4.					
5.					
NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio
1.					Mc/ubl.
2.					A.P.I. Gravity of Liquid Hydrocarbons
3.					Specific Gravity Separator Gas
4.					Specific Gravity Flowing Fluid
5.					Critical Pressure
					Critical Temperature
$P_c = 740$ $P_c^2 = 547,600$ (1) $\frac{P_c^2}{R^2 - R_w^2} = 1.072$ (2) $\left[\frac{P_c^2}{R^2 - R_w^2} \right]^n = 1.061$					
NO.	P _i	P _w	R _i	R _w	R _i - R _w
1.					
2.					
3.		192	36864	510736	
4.					
5.					
$AOF = Q \left[\frac{R^2}{R^2 - R_w^2} \right]^n = 209$					
Absolute Open Flow				Angle of Slope	
209				.85	
Remarks: Light spray of water					
Initiated By Division		Conducted By: Dugan		Checked By:	