

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

10-17-83

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-7-83							
Company Robert L. Bayless				Connection None							
Pool Undesignated Farmington				Formation Farmington		Unit S. 9					
Completion Date 9-14-83		Total Depth 1325		Plug Back TD 850		Elevation 5811 G.L.					
Csg. Size 2-7/8"		Wt. 6.5		Set At 1325'		Perforations: From 671 To 798					
Trq. Size 1.660		Wt. 2.4		Set At 686		Perforations: From To					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		Well No. #1					
Producing Thru Tubing		Reservoir Temp. *F #		Mean Annual Temp. *F		Baro. Press. - P _a 12 psi (est.)					
L		H		G _g .65 (est.)		% CO ₂ %					
				% N ₂ %		% H ₂ S %					
				Prover		Meter Run Taps					
FLOW DATA				TUBING DATA		CASING DATA					
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
SI	23 days						371		371		
1.	2 inch .500						5	58°	56		3 hours
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, Mcfd				
1	5.4315		17	1.0019	.9608	1.007	90				
2.											
3.											
4.											
5.											
NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.					Specific Gravity Separator Gas _____ X X X X X X X X						
3.					Specific Gravity Flowing Fluid _____ X X X X X						
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.						
5.					Critical Temperature _____ R _____ R						
P _c 383 P _c ² 146,689					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.03255$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.02760$						
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 92$						
1		68	4624	142,065							
2											
3											
4											
5											
Absolute Open Flow 92 Mcfd @ 15.025					Angle of Slope @			Slope, n .85			
Remarks: Well produced a fine mist of water											
Approved By Division			Conducted By: Joe Elledge			Calculated By: Kevin McCord			Checked By: Robert L. Bayless		