

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☐ Special					Test Date 8-26-80	
Company Pioneer Production Corp.				Connection		
Pool Basin Dakota				Formation Dakota		Unit
Completion Date 7-24-80		Total Depth 6338'		Plug Back TD '6285'		Elevation 5604' GL
Ceq. Size 4-1/2"		Wt. 11.6#		Set At 6329' RKB		Perforations: From 6089 To 6223
Tbg. Size 1-1/4"		Wt. 2.3#		Set At 6016' RKB		Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - gas					Packer Set At	
Producing Thru tbg.		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a
L		H		G _g		% CO ₂ % N ₂ % H ₂ S Prover
						Meter Run Taps
FLOW DATA					TUBING DATA	
Casing Data					Duration	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F
1.						
2.						
3.	2" x 1/2"			45		60°
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	Rate of Flow Q, Mcfd
1.						
2.						
3.	5.5242		57	1.000		115
4.						
5.						
NO.	P _t	Temp. °R	T _t	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	
$P_c = 1112$ $P_w^2 = 1,236,544$ (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4820$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{75} = 1.3432$						
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 427 \text{ AOF}$	
1.						
2.						
3.		642	412,164	824,380		
4.						
5.						
Absolute Open Flow 427 CAOF					Mcf @ 15.025	
Angle of Slope θ					Slope, n	
Remarks						
Approved By Division						
Conducted By						
Calculated By						
Checked By						