

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

RECEIVED
SEP 04 1984

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-28-84	
Company Southern Union Exploration				Connection	
Pool Blanco				Formation Mesa Verde	
Completion Date 7-30-84		Total Depth 6248		Plug Back TD 6225	
Csg. Size 4.500		Wt. 10.5		d 4.052	
Set At 6233		Perforations: From 5532 To 6154		Well No. D-19	
Thg. Size 2.0625		Wt. 3.25		d 1.751	
Set At 6190		Perforations: From To		Unit I	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single-Gas				Packer Set At	
Producing Thru Tubing				County Rio Arriba	
Reservoir Temp. °F 0				State New Mexico	
Mean Annual Temp. °F				Baro. Press. - P _a	
L 6178		H		G _g	
% CO ₂		% N ₂		% H ₂ S	
Prover Choke		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	
SI			.750				1175		1265		7 days
1.						78	200		870		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	12.3650		212	.9831	.9393	1.021	2471
2.							
3.							
4.							
5.							

NO.	P _t	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 _____ 680 Est
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _c 1277	P _c ² 1630729	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9122$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6261$
NO.	P _t ²	P _w	P _w ²
1		882	777924
2			
3			
4			
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4019$

Absolute Open Flow	4019	Mcfd @ 15.025	Angle of Slope θ	Slope, n	75
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Remarks: It took 9 minutes for well to unload-well was blowing medium to heavy mist of Frac water at end of test. Corrected Copy-Corrected Perf tops

Approved By Division	Conducted By: <i>Edmund M. Adams</i>	Calculated By: <i>Steve A. Halderson</i>	Checked By:
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