

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-28-84	
Company Southern Union Exploration				Connection		
Pool Blanco				Formation Mesa Verde		RECEIVED AUG 31 1984 OIL CON. DIV. DIST. 3
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 6043 To 6154	
Tub. Size 2.0625		Wt. 3.25	d 1.751	Set At 6190	Perforations: From To	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Single-Gas				Packer Set At		Form or Lease Name Jicarilla
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a
L 6178		H	Cg	% CO ₂	% N ₂	% H ₂ S
Prover Choke		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
SI			750			
1.						78
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}
1	12.3650		212	.9831	.9393	1.021
2.						
3.						
4.						
5.						
NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas .680 Est 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	
$P_c = 1277$ $P_c^2 = 1630729$						
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.9122$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6261$	
1		882	777924	852805		
2						
3						
4						
5						
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4019$						
Absolute Open Flow 4019				Mcf @ 15.025		Slope, n .75
Remarks: It took 9 minutes for well to unload- well was blowing medium to heavy mist of Frac water at end of test.						
Approved By Division		Conducted By:		Calculated By: <i>Lawrence Hudson</i>		Checked By: