

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5/6/80			
Company Supron Energy Corporation				Connection Southern Union Gathering Company					
Pool Fulcher Kutz				Formation Pictured Cliffs				Unit	
Completion Date 3/20/80		Total Depth 1811		Plug Back TD 1769		Elevation 5643		Farm or Lease Name Angel Peak "B"	
Coq. Size 4.500	Wt. 9.50	d 4.090	Set At 1802	Perforations From 1587 To 1605		Well No. 29			
Trq. Size 2.0625	Wt. 3.25	d 1.750	Set At 1660	Perforations From No Perforations		Unit Sec. Twp. Rge. K 25 28N 11W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single						Packer Set At ---		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L 1649	H	G _g 0.620	% 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	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	2"		3/4"				195		195		7 days
1.							20	62°	95		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		32	0.9981	0.9837	1.000	382
2.							
3.							
4.							
5.							

NO.	P _f	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 _____ 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

$P_c = 207$ $P_c^2 = 42,849$					$(1) \frac{P_c^2}{P_e^2 - P_w^2} = 1.3646$		$(2) \frac{P_c^2}{P_e^2 - P_w^2} = 3024$	
NO.	P _f ²	P _w ²	P _e ²	P _e ² - P _w ²	$AOF = Q \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 498$			
1		107	11,449	31,400				
2								
3								
4								
5								

Absolute Open Flow 498		Mcf @ 15.025		Angle of Slope θ		Slope, n 0.85	
Remarks:							

Approved by Division	Conducted By: Clifton Gates	Calculated By: Kenneth E. Roddy	Checked By:
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