

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/20/81	
Company Supron Energy Corporation				Connection	
Pool Basin				Formation Dakota	
Completion Date 4/13/81		Total Depth 7069		Plug Back TD 7033	
				Elevation 5941 G	
Csg. Size 5.500		ID 4.778		Perforations: From 6692 To 6834	
Tub. Size 1.900		ID 1.610		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 6496	
Producing Thru Tubing				County San Juan	
Reservoir Temp. °F 8		Mean Annual Temp. °F		State New Mexico	
L		H		Prover	
Gg est. .650		% CO ₂		% N ₂	
				% H ₂ S	
				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	
1.			.750	22		63	1482	22	63		7 days 3 Hrs.
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. Compens. Factor, F _{sp}	Rate of Flow O. Mfd
1.	12.365		34	.9971	.9608	1.0000	403
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/hbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1194 P _c ² 2232036			
NO.	P _r	P _w	P _w ² P _c ² - P _w ²
1.	1156	113	12860 2219176
2.			
3.			
4.			
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0058$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 405$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0043$

Absolute Open Flow	405	Mcf @ 15.025	Angle of Slope @	Slope, n .75
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Remarks:

Approved by Division	Conducted By: CRW	Calculated By: <i>AR Kendrick</i>	Checked By:
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