

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/25/81	
Company Supron Energy Corporation				Connection	
Pool Basin				Formation Dakota	
Completion Date 4/17/81		Total Depth 7017		Plug back TD 6935	
				Elevation 6312 G	
Csg. Size 4.500		Wt. 10.50		d 4.052	
Set At 7016		Perforations: From 6638 To 6788		Well No. 9E	
Thq. Size 1.995		Wt. 4.70		d 1.901	
Set At 6631		Perforations: From To		Unit Soc. Twp. Rge. H-14-26N-8W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	
Producing Thru Tubing				County San Juan	
Reservoir Temp. °F p		Mean Annual Temp. °F		State New Mexico	
L		H		Cg est. .650	
% 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							2226		2226		8 days
1.			.750	126		68	126	68	752		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 Compress. Factor, F _{pv}	Rate of Flow Mcf/d
1	12.3650		138	.9924	.9608	1.0000	1627
2.							
3.							
4.							
5.							

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

$P_c = 2238$					$P_c^2 = 5008644$									
NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1319$					(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0974$				
1		764	583696	4424948										
2														
3														
4														
5														

AOF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1785$
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Absolute Open Flow	1785	Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Too wet to burn - estimated 2 Bbl condensate.

Approved by Division	Conducted By: CRW	Calculated By: AR Bendrick	Checked By:
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