

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/8/81	
Company Supron Energy Corp.				Connection	
Pool Basin				Formation Dakota	
Completion Date 3/21/81		Total Depth 7000		Plug Back TD 6967	
Elevation 6427 GR		Farm or Lease Name Newsom B			
Csq. Size 4.50	Wt. 11.60	d 4.000	Set At 7042	Perforations: From 6674 To 6814	
Trq. Size 1.900	Wt. 2.90	d 1.610	Set At 6699	Perforations: From To	
Type Well - Single - Braidedhead - G.C. or G.O. Multiple Single				Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F	
Baro. Press. - P _a		State New Mexico			
L	H	G _g est. .650	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Flow Line Size	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						1862		1862		17 days
1.		.750	76		53	76	53	708		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 Ft.	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		88	1.0068	.9608	1.0000	1053
2.							
3.							
4.							
5.							

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

P _c 1874	P _c ² 3511876	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1732$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1273$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		720	518400	2993476
2				
3				
4				
5				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1187$

Absolute Open Flow	1187	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Too wet to flare. Trace of condensate.

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