

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12/16/80				
Company Supron Energy Corp.				Connection					
Pool Ballard				Formation Pictured Cliffs				Unit	
Completion Date 12/8/80		Total Depth 2350		Plug back TD		Elevation 6350 G		Farm or Lease Name Nickson	
Coq. Size 2.875	Wt. 6.5	d 2.441	Set At 2346	Perforations: From 2122 To 2188		Well No. 18			
Trq. Size None	Wt.	d	Set At	Perforations: From To		Unit Sec. Twp. Rye. 0-14-26N-8W			
Type Well - Single - Bordenhead - G.C. or G.O. Multiple Single					Packer Set At		County San Juan		
Producing Thru Casing		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P ₀		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	-								492		8 Days
1.			.750	18		59			18		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 _{sp}	Rate of Flow Q, Mhd
1	12.365		30	1.0010	.9608	1.000	357
2.							
3.							
4.							
5.							

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

P _c 504	P _c ² 254016		
NO.	P _t ²	P _w	P _t ² - P _w ²
1	900	36	252743
2.			
3.			
4.			
5.			

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.0050$

AOF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 358$

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

Absolute Open Flow	358	Mhd @ 15.025	Angle of Slope (°)	Slope, r .85
Remarks				
Approved By Division	Conducted By	Calculated By	Checked By	