

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3/11/81			
Company Supron Energy Corporation (Hill)						Connection			
Pool Ballard						Formation Pictured Cliffs			
Completion Date 2/3/81		Total Depth 4500		Plug Back TD		Elevation		Farm or Lease Name Newsom B	
Cor. Size 4.50	Wt. 10.50	d 4.052	Set At 4839	Perforations: From 2026 To 2107		Well No. 20 (PC)			
Top. Size 2.375	Wt. 4.7	d 1.995	Set At 4271	Perforations: From To		Unit Sec. Twp. Rge. 1 5 - 26 - 8 W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G - G Multiple						Packer Set At 4245		County San Juan	
Producing Thru Casing		Reservoir Temp. °F θ		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.	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									496		35 days
1.		.750		121		56			121	56	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	12.365		133	1.0039	.9608	1.0000	1586
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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 508 P _c ² 258064				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1	17689	135	18289	239775
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0763$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1688$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0645$$

Absolute Open Flow 1688 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .85
Remarks: Dry throughout test.			
Approved By Division	Conducted By: CRW	Calculated By: <i>AK Kendrick</i>	Checked By: