

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3/20/81			
Company Supron Energy Corporation (Hill)				Connection					
Pool Ballard				Formation Pictured Cliffs				Unit	
Completion Date 3/6/81		Total Depth 7490		Plug Back TD		Elevation		Farm or Lease Name Newsom A	
Csq. Size 5.500	Wt. 17.00	d 4.892	Set At 7445	Perforations: From 2838 To 2876		Well No. 7E			
Tbg. Size 1.660	Wt. 2.40	d 1.380	Set At 2741	Perforations: From To		Unit Sec. Twp. Rge. B-10-26N-8W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G - G Multiple						Packer Set At 7114		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg 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							651		651		7 days
1.			.750	32		50	32	50	141		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		44	1.0098	.9608	1.0000	528
2.							
3.							
4.							
5.							

NO.	P _t	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.										

$P_c = 663$ $P_c^2 = 439569$						
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.054$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0458$
1	1936	150	22552	417017		
2.						
3.						
4.						
5.						

Absolute Open Flow <u>552</u> Mcfd @ 15.025 Angle of Slope θ Slope, n <u>.85</u>			
Remarks: <u>Trace of condensate and water in wellhead.</u>			
Approved By Division		Conducted By: <u>CRW</u>	Calculated By: <u>UP Hendrick</u>
		Checked By:	