

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5/16/81	
Company Supron Energy Corporation		Connection	
Well Blanco		Formation Mesaverde	
Completion Date 4/30/81	Total Depth 7000	Plug Back TD	Elevation 5978 G
Form or Lease Name Taliaferro		Well No. 5M	
Csg. Size 5.500	Wt. 17.00	d 4.892	Set At 6995
Perforations: From 6784 To 6898		Well No. 5M	
Tbg. Size 1.660	Wt. 2.40	d 1.380	Set At 4618
Perforations: From To		Unit Sec. Twp. Rge. I-30-31N-12W	
Type Well - Single - Broadhead - G.C. or G.O. Multiple G - G Multiple		Packer Set At 6750	County San Juan
Producing Thru Tubing	Reservoir Temp. °F P	Mean Annual Temp. °F	Baro. Press. - P ₀
State New Mexico		State	
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							1040		1040		16 days
1.			.750	127		53	127	53	762		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, F _{sp}	Rate of Flow Q, Mcfd
1	12.3650		139	1.0078	.9608	1.0000	1664
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	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A. 3
5.					Critical Temperature	R

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1	1052	774	599076	507628
2				
3				
4				
5				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 2.1801$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2986$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.7942$

Absolute Open Flow	2986	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:

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