

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-9-82			
Company Supron Energy Corporation				Connection Gas Company of New Mexico			
Pool Blanco				Formation Mesaverde		Unit	
Completion Date 2-16-82		Total Depth 7910		Plug back TD 7420		Elevation 6874	
Farm or Lease Name Jicarilla "F"				Well No. 6			
Csg. Size 5.500	Wt. 15.50	d 4.950	Set At 7910	Perforations: From 5621 To 5735			
Tbg. Size 2.0625	Wt. 3.25	d 1.750	Set At 5614	Perforations: No Perforations			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 3567		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12	
State New Mexico							
L 5604	H	G _g 0.650	% 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	2"		3/4"				1205				14 Days
1.							40	60°			3 Hours
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		52	1.0000	0.9608	1.000	618
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 1217 P _c ² 1,481,089				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1			18,301	1,462,788
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0125$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0093$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 624$

Absolute Open Flow 624	Mcf/d @ 15.025	Angle of Slope θ	Slope, n 0.75
---------------------------	----------------	------------------	------------------

Remarks: _____

Approved By Division	Conducted By: Doyal Parret	Calculated By: Kenneth E. Roddy	Checked By:
----------------------	-------------------------------	------------------------------------	-------------