

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-1-79	
Company SUPRON ENERGY CORPORATION				Connection El Paso Natural Gas Co.	
Pool Blanco				Formation Mesaverde	
Completion Date 9-20-79		Total Depth 4768		Plug Back TD 4734	
Elevation 5799 KB		Form or Lease Name Largo Federal			
Csg. Size 4.500	Wl. 13.00	d 4.356	Set At 2550	Perforations: From 3836 To 4606	
Fig. Size 1.900	Wl. 2.90	d 1.610	Set At 4419	Perforations: From No Perforations	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 3724	
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F 12	
L 4410		H		Prover	
Gg 0.650		% CO ₂		% N ₂	
% H ₂ S		Prover		Meter Run	
Tape		County San Juan			
State New Mexico		Unit Sec. Twp. Rge. C 34 29 N 9 W			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	2"		3/4"				657				7 days
1.							66	58 ⁰			3 hours
2.											
3.											
4.											
5.											

STATE 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		78	1.0019	0.9608	1.000	928
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	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 669		P_c^2 447,561								
NO	P_f^2	P_w	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.1256}{1}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0927}{1}$				
1			49,949	397,612						
2										
3										
4										
5										

$LOG = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1014}{1}$

Absolute Open Flow	1014	Mcf @ 15.025	Angle of Slope	Slope, n	0.75
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Remarks:

Approved By Division	Conducted By Bennie Brown	Calculated By Kenneth E. Roddu	Checked By
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