

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-3-81			
Company SUPRON ENERGY CORPORATION				Connection Gas Company of New Mexico					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 10-19-81		Total Depth 6148		Plug Back TD 6104		Elevation 7154		Farm or Lease Name McCroden "A"	
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 6148	Perforations: From 5814 To 6012		Well No. 3			
Tbg. Size 2.375	Wt. 4.70	d 1.995	Set At 5901	Perforations: From NO PERFORATIONS To		Unit Sec. Twp. Rge. P 8 25N 3W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single						Packer Set At ----		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L 5891	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"				1225		1342		7 days
1.							89	67°	478		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		101	0.9933	0.9608	1.000	1192
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										

$P_c = 1354$ $P_c^2 = 1,833,316$					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.1507}{1.1507 - 0.490} = 1.1110$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.1110}{1.1110 - 0.490} = 1.1110$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		490	240,100	1,593,216				
2								
3								
4								
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1324$					Absolute Open Flow 1324 Mcfd @ 15.025		Angle of Slope 0.75	
Remarks:								

Approved By Division	Conducted By: Steve Stevenson	Calculated By: Kenneth E. Roddy	Checked By:
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