

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type of Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-18-98		RECEIVED DEC - 9 1998 OIL CON. DIV. DIST. 3		
Company CAULKINS OIL COMPANY				Connection					
Pool South Blanco Tocito				Formation Tocito					
Completion Date 11-11-98		Total Depth 7635'		Plug Back TD 7623'		Elevation 6612 GR		Farm or Lease Well No. 1-F	
Csg. Size 7"	Wt. 26# & 23#	d	Set At 7623'	Perforations From 6860'		To 6871'			
Tbg. Size 2 3/8"	Wt. 4.7#	d	Set At 6860'	Perforations From 6856'		To 6860'		Unit Sec. Twp. Rge. K 33 27N 6W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple G. O. Multiple					Packer Set at 6927'		County Rio Arriba		
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Tape	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
No.	Prover Line Size	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		3/4"				1098		1100		7 day SI
1.						71		361		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcid
1.	14.1605		83	1.000	1.000	1.000	1175
2.							
3.							
4.							
5.							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
					Specific Gravity Separator Gas _____	
					Specific Gravity Flowing Fluid _____	
					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
					Critical Temperature _____ R _____ R	

P _c 1112		P _c ² 1,236,544			
No.	P _i ²	P _a	P _a ²	P _c ² - P _a ²	
1.	6,889	373	139,129	1,097,415	
2.					
3.					
4.					
5.					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1267$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0937$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1285$$

Absolute Open Flow	1285	Mcf @ 15.025	Angle of Slope	75	Slope, n
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Remarks: _____

Absolute By Division	Conducted By:	Calculated By:	Checked By:
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