

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-15-82			
Company Caulkins Oil Company				Connection					
Pool Blanco Mesa Verde				Formation Mesa Verde				Unit M	
Completion Date 7-08-82		Total Depth 7489		Plug Back TD 7489		Elevation 6628 GR		Farm or Lease Name Sanchez	
Csq. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7489	Perforations: From 5312 To 5030		Well No. 4E			
Tbg. Size 2 1/16"	Wt. 4.7	d 1.991	Set At 5484	Perforations: From 5484 To		Unit Sec. Twp. Rge. M 25 26N 6W			
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Gas- Gas Multiple						Packer Set At 5589		County Rio Arriba	
Producing Thru Yes <i> tubing</i>		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	G _g	% 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							1289		1277		7 Days
1.							188		617		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	14.1605		200	1.000	1.000	1.000	2,832
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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1301	P _c ² 1,692,601		
NO.	P _t ²	P _w ²	P _c ² - P _w ²
1	395,641		1,296,960
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.305$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.22$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,458$

Absolute Open Flow	3.485	Mcf @ 13.025	Angle of Slope @	75	Slope, n
Remarks:					

Approved By Division	Conducted By	Calculated By	Checked By
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