

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-31-81			
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 8-24-81		Total Depth 7800		Plug Back TD 7800		Elevation 6754 Gr.		Farm or Lease Name Breech E	
Coq. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7800	Perforations: From 7548 To 7751		Well No. 64M			
Tbg. Size 2 1/16"	Wt. 3.25#	d 1.751	Set At 7698	Perforations: From 7698 To		Unit J 1 26N 6W		Sec. Twp. Rye.	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas - Gas Multiple						Packer Set At 5787		County Rio Arriba	
Producing Thru Tubing		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							1603		PKR		7 Day SI
1.							69		PKR		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		81	1.000	1.000	1.000	1147
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	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.
5.					Critical Temperature	R

P _c 1615	P _c ² 2,608,225	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.052$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.03898$
NO. 1	P _t ² 6561	P _w ² 360	P _t ² - P _w ² 2,478,586
2.			
3.			
4.			
5.			

Absolute Open Flow 1191 Mcfd @ 15.025		Angle of Slope @ 75	Slope, n
Remarks:			

Approved By Division	Conducted By:	Calculated By:	Checked By:
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