

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-04-81				
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 8-28-81		Total Depth 7575		Plug Back TD 7575		Elevation 6600		Farm or Lease Name Breech C	
Coq. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7575	Perforations: From 7332 To 7538			Well No. 689E		
Thq. Size 2 1/16"	Wt. 3.25#	d 1.751	Set At 7447	Perforations: From 7447 To			Unit Sec. Twp. Rge. P 12 26N 6W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple					Packer Set At 5657		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	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							1763		PKR		7 Days SI
1.	3/4" choke						115		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 O, Mcfd
1	14.1605		127	1.000	1.000	1.000	1798
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	X X X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1775	P _c ² 3,150,625	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.109$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0807$
NO 1	P _r ² 16,129	P _w 556	P _w ² 309,758
2			
3			
4			
5			

Absolute Open Flow 1943 Mcfd @ 15.025		Angle of Slope @ 75	Slope, n
Remarks:			
Approved By Division			
Conducted By:		Calculated By:	
		Checked By:	