

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-30-80			
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 10-23-80		Total Depth 7549		Plug Back TD 7549		Elevation 6615		Farm or Lease Name Breech C	
Coq. Size 7"	Wt. 23 & 26#	d 6.276	Set At 7549	Perforations: From 7282 To 7520			Well No. 248E		
Tbg. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 7153	Perforations: From 7153 To			Unit Sec. Twp. Rye. D 13 26N 6W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple						Packer Set At 5520		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							1227		PKR		7 Days St
1.	3/4" Choke						121		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		133	1.000	1.000	1.000	1883
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	_____ Mcf/lbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	_____ Deg.
2.					Specific Gravity Separator Gas	_____
3.					Specific Gravity Flowing Fluid	_____
4.					Critical Pressure	_____ P.S.I.A.
5.					Critical Temperature	_____ °R

P _c 1,239 P _c ² 1,535,121				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	17,689	330	108,897	1,426,224
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.076$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1990$

(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.0567$

Absolute Open Flow	1,990	Mcfd @ 15.025	Angle of Slope @	75	Slope, n	
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Remarks:

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