

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-28-82				
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota				Unit M	
Completion Date 10-21-82		Total Depth 7444'		Plug Back TD 7444'		Elevation 6496'		Farm or Lease Name Breech B	
Coq. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7400	Perforations: From 7290 To 7098		Well No. 172 E			
Thq. Size 2 1/16	Wt. 3.25#	d 1.751	Set At 7301	Perforations: From 7301 To		Unit Sec. Twp. Rye. M 7 26N 6W			
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Gas and Gas Multiple					Packer Set At 5528		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	Tape	

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							1963		PKR		7 Days
1.							132		PKR		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, Mcfd
1	14.1605		144	1.000	1.000	1.000	2,039
2.							
3.							
4.							
5.							

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

P _c 1975 P _c ² 3,900,625				
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1	20,736	490	240,297	3,660,328
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0656}{1.0656 - 1.0656} = \dots$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0488}{1.0488 - 1.0488} = \dots$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2139}{2139 - 2139} = \dots$

Absolute Open Flow	2139	Mcf @ 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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