

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-31-97				
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date		Total Depth 7565'		Plug Back TD 7565'		Elevation 6917' GR		Farm or Lease Name Breech	
Coq. Size 5 1/2"	Wt. 15.5# 17#	d 4.892	Set At 7565'	Perforations: From 7328' To 7499'		Well No. 377			
Thq. Size 1 1/4"	Wt. 2.33	d 1.380	Set At 7411'	Perforations: From To		Unit Sec. Twp. Rge. M 23 26N 7W			
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Dual					Packer Set At 6981'		County Rio Arriba		
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gq	% 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							1600		PKR		7 day SI
1.	3/4"						82				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		94	1.000	1.000	1.000	1,331
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	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 1612	P _c ² 2,598,544		
NO.	P _t ²	P _w	P _t ² - P _w ²
1	8836	582	338,724
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_t^2 - P_w^2} = 1.149$$

$$(2) \left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.174$$

$$AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1,563$$

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Absolute Open Flow <u>1,563</u>	Mcf/d @ 15.025	Angle of Slope θ _____	Slope, n _____
Remarks: _____			