

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-02-80			
Company Caulkins Oil Company						Connection			
Pool Basin Dakota						Formation Dakota		Unit	
Completion Date 8-25-80		Total Depth 7392'		Plug Back TD 7392'		Elevation 6482'		Farm or Lease Name Breech E	
Coq. Size 7" & 4 1/2"	Wt. 23# 11.6	d 6.366 4.000	Set At 6641 7392	Perforations: From 7139 To 7376		Well No. 68E			
Tiq. Size 2 3/8"	Wt. 4.75	d 1.995	Set At 7270	Perforations: From 7270 To		Unit Sec. Twp. Rge. L 4 26N 6W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Gas Multiple						Packer Set At 5337'		County Rio Arriba	
Producing thru Tubing		Reservoir Temp. °F 185		Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico	
L 7270	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps Pipe	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51							2503		PKR		7 Days
1.							247		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		259	1.000	1.000	1.000	3,668
2.							
3.							
4.							
5.							

NO.	P _r	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 _____ °F _____ °F

P _c 2515	P _c ² 6,325,225		
NO.	P _i ²	P _w	P _i ² - P _w ²
1	67,081		102,162
2.			
3.			
4.			
5.			

$$(1) \frac{P_c^2}{P_i^2 - P_w^2} = 1.016$$

$$(2) \left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 1.012$$

$$AOF = Q \left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 3,713$$

Absolute Open Flow	3,713	Mcfd @ 15.025	Angle of Slope @ 75	Slope, n _____
Remarks:				

Approved By Division	Conducted By	Calculated By	Checked By
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