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MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR WELL

AUG 19 1983

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-10-83		OIL CON. DIV. DIST. 3	
Company Caulkins Oil Company				Connection			
Pool Basin Dakota				Formation Dakota		Unit	
Completion Date 8-3-83		Total Depth 7610'		Plug Back TD 7610'		Elevation 6754 GR	
Csg. Size 5 1/2"		Wt. 17# 15.5#		Set At 4.950 4.892		Perforations From 7342 To 7516	
Tbg. Size 1 1/2"		Wt. 2.90		Set At 1.900		Perforations From 7426 To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple				Packer Set At 5566'		Farm or Lease Name Breech "A"	
Producing thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		G _g		% CO ₂	
						% N ₂	
						% H ₂ S	
						Prover	
						Meter Run	
						Taps	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
51							7 Days
1.							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		119	1.000	1.000	1.000	1,685
2.							
3.							
4.							
5.							
NO.	P ₁	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 _____ 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 2205 P _c ² 4,862,025							
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.053$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.040$		
1	14,161	495	244,960	4,617,065			
2							
3							
4							
5							
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,752$							
Absolute Open Flow 1,752 Mcfd @ 15.025					Angle of Slope 75		Slope, n
Remarks:							
Approved by Division		Conducted by:		Calculated by:		Checked by:	