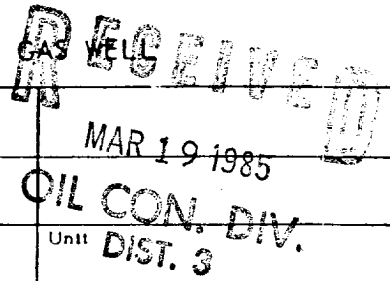


MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3/14/85	
Company Robert L. Bayless				Connection	
Pool Basin Dakota				Formation Dakota	
Completion Date 3/6/85		Total Depth 6187 ft		Plug Back TD 6139	
		Elevation 5681 RKB		Farm or Lease Name Coolidge Com	
Csq. Size 4.500	Wt. 11.5#/ft.	d 4.052	Set At 6183	Perforations: From 5912 To 6051	
Thg. Size 1.900	Wt. 2.9#/ft.	d 1.610	Set At 5941	Perforations: From To	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas - single				Packer Set At none	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
				Baro. Press. - P _a 12.0	
State NM		County San Juan			
L	H	G _g est .60	% 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.	
SI	8 days						1880		1880	
1.	2" x .750						233	66°F	541	
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	12.365		245	.9943	1.000	1.018	3066
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 _____ X X X X X X X X	
3.					Specific Gravity Flowing Fluid _____ X X X X X	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		553	305,809	3,273,855
2				
3				
4				
5				

P_c 1892 P_c² 3,579,664

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0934}{1.0693}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0693$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3279$

Absolute Open Flow	3279	Mcfd @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: was making considerable condensate

Approved By Division	Conducted By: Tom Smith	Calculated By: Kevin McGord	Checked By: Robert L. Bayless
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