

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 3-5-82			
Company M. R. SCHALK				Connection NEW COMPLETION			
Pool BASIN DAKOTA				Formation DAKOTA		Unit 3	
Completion Date 2-7-82		Total Depth 6359'		Plug Back TD		Elevation 6033'	
Csg. Size 4.500		Wt. 10.5#		Set At 6351'		Perforations: From 6172' To 6262'	
Thg. Size 2.375		Wt. 4.7#		Set At 6248'		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
State New Mexico							
L		H		G _g		% 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.	Temp. °F	
SI	2	x	.750				969		980		SIP
1.							48		269		
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		60	1.000	.9608	1.014	723
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 _____ 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

P _c 992 P _c ² 984064				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		281	78961	905103
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0872$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 770$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0647$$

Absolute Open Flow _____ 770 _____ Mcfd @ 15.025	Angle of Slope _____	Slope, n _____ 75 _____
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Remarks: _____

Approved By Division	Conducted By: R. E. Elliott	Calculated By: J. E. Evans	Checked By:
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