

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 3-26-81			
Company: Tom Bolack				Connection:					
Pool: Basin Dakota				Formation: Dakota				Unit:	
Completion Date: 3-12-81		Total Depth: 6847		Plug Back TD: 6806		Elevation: 5736		Farm or Lease Name: Tommy Bolack	
Crq. Size: 5 1/2	Wt. 15.5	d 4.95	Set At 6806	Perforations: From 6545 To 6738		Well No. 1			
Trq. Size: 2 1/16	Wt. 3.25	d 1.751	Set At 6504	Perforations: From N/A To		Unit Sec. Twp. Rge. M 1 30N 12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Dual - Dakota - Gallup				Packer Set At 6504		County: San Juan			
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g 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 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							2127		N/A	
1.	2" x 6" x 3/4"						72	32	N/A	
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 _{sc}	Rate of Flow Q, Mcfd
1	11		84	1.028	1.291	1.005	1232
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1.	.125	592	1.65	.990						
2.										
3.										
4.										
5.										

P _c 2139		P _c ² 4575		$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{4575}{4492.1} = 1.018$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.014$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		288	82.9	4492.1	
2					
3					
4					
5					

Absolute Open Flow 1249 Mcfd @ 15.025		Angle of Slope θ		Slope, n 0.75	
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Remarks: P_w calculated using "working pressure calculation" of form C-122A

Approved by Division	Conducted By: Alexander	Calculated By: Alexander	Checked By:
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