

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-05-81	
Company Jerome P. McHugh		Connection	
Pool Basin		Formation Basin Dakota	
Completion Date 5-26-81	Total Depth 7640'	Plug Back TD 7579'	Elevation 6430 G.L.
Coq. Size 4 1/2"	wt. 10.5	Set At 4.052	Perforations From 7315 To 7489
Trq. Size 1 1/2"	wt. 2.4	Set At 1.380	Perforations From To
Type Well - Single - Blindhead - G.G. or G.O. Multiple Single		Packer Set At	County San Juan
Producing Thru tubing	Reservoir Temp. °F	Mean Annual Temp. °F	State New Mexico
L	H	Gg	% 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							2520	67°	2537	67°	7 days
1.	3/4" positive choke						132	66°	1570	66°	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 Fg	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mscf/d
1	12.365		144	.9943	.9608	1.013	1723.12
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas-Liquid Hydrocarbon Ratio	At. Gravity of Liquid Hydrocarbons	Sp. Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

P _c 2549	P _c ² 6,497,401	(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.63$	(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.44$
NO	P _f	P _w	P _f ² P _f ² - P _w ²
1		1582	2,502,724 3,994,677
2			
3			
4			
5			

Absolute Open Flow 2482		Mold # 15.025	Angle of Slope	Slope, n .75
Remarks: Moderate mist of water throughout test				

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