

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1/15/88				
Company Robert L. Bayless				Connection None					
Pool Wildcat Pictured Cliffs				Formation Pictured Cliffs				Unit	
Completion Date 1/7/88		Total Depth 4150		Plug back TD 4071		Elevation 7533		Farm or Lease Name Jicarilla 516	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 4126	Perforations: From 3814 To 3882		Well No. #1			
Tng. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3879	Perforations: From To		Unit Sec. Twp. Rge. O 7 30N 2W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At None		County Rio Arriba		
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.0 psia (est)		State New Mexico	
L	H	Cg .65	% 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	8 days						640		642		
1.	2" x .750						12	60°	378		3 hrs.
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, Fpv	Rate of Flow Q, Mcfd
1	12.365		24	1.0000	1.240	1.000	368
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcf/bbl.	Deq.
1	.02		1.39	1.000								
2.												
3.												
4.												
5.												

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1	654	427,716	390	152,100	275,616
2.					
3.					
4.					
5.					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5519$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 535$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4529$

Absolute Open Flow	535	Mcfd @ 15.025	Angle of Slope @	Slope, n .85
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Remarks: Heavy mist of water produced during test.

Approved By Division	Conducted By: David Ball	Calculated By: Kevin McCord	Checked By:
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