

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 08-02-82	
Company Robert L. Bayless			Connection Gas Company of New Mexico		
Pool Ballard Pic. Cliffs			Formation Pictured Cliffs		Unit
Completion Date 07-20-82		Total Depth 2700 ft.		Plug Back TD 2670 ft.	Elevation 6738' GL
Farm or Lease Name AXI <i>Drucke D</i>					
Csg. Size 2.875	Wt. 6.5	d 2.441"	Set At 2692'	Perforations: From 2544 To 2609	
Well No. 6					
Thg. Size 1.660	Wt. 2.4	d 1.380"	Set At 2609'	Perforations: From To	
Unit M	Sec. 20	Twp. 24N	Rge. 4W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At none	
Producing Thru tubing		Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _g 12 psia (est)	
County Rio Arriba					
State New Mexico					
L	H	G _g .650	% 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	13 days						625		631	
1.	2 inch	.750	25				25	60°	95	
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	12.3650		37	1.000	.9608	1.007	443
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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 X X
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		107	11,449	402,000
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.02848$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.02416$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 454$

Absolute Open Flow	454	Mcfd @ 15.025	Angle of Slope @	Slope, n	0.85
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Remarks:

Approved By Division	Conducted By: John E. Larkin	Calculated By: Kevin H. McCord	Checked By: Robert L. Bayless
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