

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12/9/87	
Company Robert L. Bayless		Connection none	
Pool Wildcat		Formation Pictured Cliffs	
Completion Date 11/30/87	Total Depth 4150'	Plug Back TD 4098'	Elevation 7174' RKB
Farm or Lease Name Jicarilla #459		Well No. #2	
Csq. Size 4-1/2"	wt. 11.6	d 4.000	Set At 4144'
Perforations: From 3743' To 3796'		Well No. #2	
Tq. Size 1-1/2"	wt. 2.9	d 1.610	Set At 3767'
Perforations: From To		Unit Sec. Twp. Rye. E 20 30N 3W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple gas - single		Packer Set At none	
County Rio Arriba		State New Mexico	
Producing Thru tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 12.0 (est)
L	H	G _g .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	7 days						1087		1087		
1.	2 inch	.750					211	58°	588		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		223	1.002	1.240	1.023	3505
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.33		1.38	.956	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas .65 XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure 670 P.S.I.A. P.S.I.A.
5.					Critical Temperature 375 R R

P _c 1099	P _c ² 1,207,801	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.4246$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.3510$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		600	360,000	847,801
2.				
3.				
4.				
5.				

AOF = Q $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 4735$

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Absolute Open Flow 4735	Mcfd @ 15.025	Angle of Slope @	OIL CON. DIV. 85 DIST. 3
Remarks:			
Approved By Division	Conducted By: David Ball	Calculated By: Kevin H. McCord	Checked By: