

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 5/10/88	
Company Robert L. Bayless		Connection Bayless	
Pool Undesignated Pictured Cliffs		Formation Pictured Cliffs	
Completion Date 12/1/86	Total Depth 4136'	Plug back TD 4083'	Elevation 7136 GL
Farm or Lease Name Jicarilla 464		Well No. 1	
Csg. Size 4 1/2	Wt. 11/6	d 4.000	Set At 4128'
Perforations: From 3741 To 3826		Well No. 1	
Tng. Size 1 1/2	Wt. 2.9	d 1.610	Set At 3754'
Perforations: From To		Unit Sec. Twp. Rge. I 30 30N 3W	
Type Well - Single - Blindhead - G.C. or G.O. Multiple Gas - single		Packer Set At none	
Producing Thru		County Rio Arriba	
Reservoir Temp. °F 8		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P ₀ 12.0 (est)	
L	H	G _g	% CO ₂
		.65	% 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	7 days						525		525	
1.	2 inch	.750					145		420	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 O, Mcfd
1	12.365		157	1.000	1.240	1.015	2443
2.							
3.							
4.							
5.							

NO.	P _r	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	Critical Temperature
1	.23		1.39	.970						
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2}$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n$
1	537	432	186,624	101,745	2.8342	2.4242
2						
3						
4						
5						

Absolute Open Flow		Angle of Slope	
5922	Mcfd @ 15.025		Slope, n .85

Remarks: Special test of 464 #1 well after 13 months of production to compare to initial test of upper P.C. zone in Jicarilla 464 #2 well taken 4/29/88.

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