

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4/21/88	
Company Robert L. Bayless				Connection none		
Pool Undesignated Pictured Cliffs				Formation Pictured Cliffs		Unit
Completion Date 4/13/88		Total Depth 4077'		Plug back TD 3857'		Elevation 7101' RKB
Farm or Lease Name Jicarilla 458						
Csq. Size 4 1/2	Wt. 10.5/11.6	d 4.052	Set At 3907	Perforations: From 3716' To 3790'		Well No. 3
Tqg. Size 1 1/2	Wt. 2.9	d 1.610	Set At 3743	Perforations: From To		Unit Sec. Twp. Rye. H 7 30N 3W
Type Well - Single - Brdenhead - G.G. or G.O. Multiple gas - single				Packer Set At none		County Rio Arriba
Producing thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0 (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.	
SI	7 days						1066		1069	
1.	2 inch	.750					157	65°	625	
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650			169	1.240	1.016	2633
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.25		1.40	.968	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	1081	1,168,561			
1		637		405,769	762,792
2					
3					
4					
5					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.5320$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3784$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.4370$

Absolute Open Flow	3784	Mcf @ 15.025	Angle of Slope @	Slope, n .85
--------------------	------	--------------	------------------	--------------

Remarks:

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