

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12/8/86			
Company Robert L. Bayless				Connection none					
Pool Wildcat				Formation Pictured Cliffs				Unit	
Completion Date 12/1/86		Total Depth 4136 ft.		Plug Back TD 4083 ft.		Elevation 7136 ft. GL		Farm or Lease Name Jicarilla	
Csg. Size 4-1/2	Wt. 11.6	d 4.000	Set At 4128	Perforations: From 3741 To 3826		Well No. 464 #1			
Tbg. Size 1-1/2	Wt. 2.9	d 1.610	Set At 3754	Perforations: From To		Unit I 30 30N 3W			
Type Well - Single - Bradenhead - 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	G _g .65 (est.)	% 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						1202		1030	
1.	2 inch	.750					308	60°	860	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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		320	1.0000	.9608	1.032	3923
2.							
3.							
4.							
5.							

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

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.3369$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.7851$
1		872	760,384	325,380		
2						
3						
4						
5						

$P_c = 1042$ $P_c^2 = 1,085,764$				$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10,926$	
Absolute Open Flow _____ 10,926 _____ Mcfd @ 15.025				Angle of Slope @ _____ .85	

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