

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4/3/90		RECEIVED APR 09 1990 OIL CON. DIV DIST. 3		
Company Robert L. Bayless			Connection Independent Pipeline Company						
Pool East Blanco Pictured Cliffs			Formation Pictured Cliffs (upper only)						
Completion Date 3/21/88		Total Depth 4075'		Plug back TD 4019' RKB		Elevation 7014' GL		Farm or Lease Name Jicarilla 464	
Csg. Size 4 1/2"	Wt. 11.6	d 4.000	Set At 4064'	Perforations: From 3701' To 3738'		Well No. 4			
Tng. Size 1 1/2"	Wt. 2.9	d 1.610	Set At 3940'	Perforations: From To		Unit Sec. Twp. Rge. J 31 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	Gg .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.	Temp. °F	
SI	10 days						660		660		
1.	2 inch x .750						6	60°	78		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	12.365		18	1.000	1.240	1.014	280
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.027		1.39	.973	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

$P_c = 672$ $P_c^2 = 451,584$				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		90	8100	443,484
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0183$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0155$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 284$

Absolute Open Flow <u>284</u> Mcfd @ 15.025		Angle of Slope θ _____	Slope, n <u>.85</u>
---	--	-------------------------------	---------------------

Remarks: Upper zone only--well making small amounts of water and sand.

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