

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
APR 01 1986
OIL CON. DIV
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2/24/86		APR 01 1986 OIL CON. DIV DIST. 3	
Company Robert L. Bayless			Connection None				
Pool Undes. Fruitland Undes. Pic. Cliff			Formation P.C. and Fruitland				
Completion Date 8/5/85		Total Depth 6150		Plug back TD 1327		Elevation 5652' GL	
Csg. Size 2.875		Wt. 6.5		Set At 2.441		Well No. #1	
Perforations: From 846 To 1259		Perforations: From To		Unit A		Sec. Twp. Rge. 21 30 14	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single - commingled Fruitland & P.C.				Packer Set At None		County San Juan	
Producing Thru annulus		Reservoir Temp. °F .		Mean Annual Temp. °F .		Baro. Press. - P _a 12 psia - est.	
State New Mexico		L H		Cg .70 (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								197	
1.	2 inch X .750								9	70° F
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		21	.9905	.9258	1.007	240
2.							
3.							
4.							
5.							

O.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
					Specific Gravity Separator Gas _____ X X X X X X X X		
					Specific Gravity Flowing Fluid _____ X X X X X		
					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.		
					Critical Temperature _____ R _____ R		

P _c 209 P _c ² 43,681				(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.0357$		(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.0303$	
P _t ²	P _w	P _w ²	P _c ² - P _w ²				
	39	1506	42,175				
				AOF = Q $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 247$			

Absolute Open Flow 247 Fruitland & P.C. Mcfd @ 15.025		Angle of Slope @ _____		Slope, n 85	
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Remarks: NOTE: Fruitland and P.C. are both open for this test. From previous test and this test, zone tests are as follows: Fruitland Q = 195 AOF = 222
Pic. Cliff Q = 45 AOF = 25
(TOTALS: Q = 240 AOF = 247)

Approved By Division	Conducted By: Tom Smith	Calculated By: Kevin McCord	Checked By:
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