

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-25-93		10/ 1 1993	
Company Turner Production Company				Connection EPNG		CON. DIV./	
Pool Basin Fruitland				Formation Fruitland Coal		Unit DIST. 3	
Completion Date 10-18-93		Total Depth 4123'		Plug Back TD 3102		Elevation 7015	
Casing Size 4.500		WT. 10.5		Set At 4.052		4092	
Perforations: From 3082		To 3096		Well No. 1			
Tubing Size 2.375		WT. 4.7		Set At 1.995		3096	
Perforations: From		To		Unit I		Sec. 26 Twp. 26 Rge. 7	
Type Well - Single - Hardhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F A		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia	
State New Mexico		L		H		G _g	
% 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						280		370	
1.	2"		.500	10			10		36	
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	5.4315		22	1.000	.9608	1.000	119
2.							
3							
4.							
5.							

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

P _c 370 P _c ² 136900					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0171$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10128$	
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²				
1		48	2304	134596				
2								
3								
4								
5								

Absolute Open Flow 120 Mcfd @ 15.025					Angle of Slope θ _____		Slope, n _____	
Remarks: Mist of water throughout test								

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Mr. Fred Turner
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