

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 1-6-83		RECEIVED	
Company Amoco Production Company				Connection Not dedicated			
Pool Basin				Formation Dakota		Unit OIL CON. DIV. 1	
Completion Date 12-11-82		Total Depth 6400		Plug Back TD 6385		Elevation 5943	
Csq. Size 4.500		Wt. 10.5		Set At 6400		Perforations: From 6242 To 6348	
Thq. Size 2.375		Wt. 4.7		Set At 6347		Perforations: From open To ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 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	18 Days						580		583	
1.	2.375		.750				72		365	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		84	1.000	.9258	1.009	970
2.							
3.							
4.							
5.							

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

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	595	377	354025	142129	211896
2					
3					
4					
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6707$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4695$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1425$

Absolute Open Flow _____ 1425 _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n _____ .75 _____
---	------------------------	--------------------------

Remarks: _____

Approved By Division _____	Conducted By: _____	Calculated By: _____	Checked By: _____
----------------------------	---------------------	----------------------	-------------------