

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 8-9-85	
Company Amoco Production Co.			Connection Northwest Pipeline Corp.		
Pool Basin			Formation Dakota		
Completion Date 7-14-85		Total Depth 8546		Plug Back TD 8500	
Elevation 6780 GR		Farm or Lease Name Rosa Unit			
Csq. Size 4.500	Wt. 11.6	d 4.000	Set At 8546	Perforations: From 8290 To 8420	
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 8334	Perforations: From open To ended	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Commingled				Packer Set At 7841	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
				Baro. Press. - P _g	
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	24 days						2552		X	
1.	2.375		.750				138		X	
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 _{py}	Rate of Flow Q, Mcfd
1	12.365		150	1.000	.9258	1.017	1746
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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		348	121104	6452992
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0188$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0140$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1771$

P_c 2564 P_c² 6574096

Absolute Open Flow _____ 1771 _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n _____ .75
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Remarks: _____ Lite H2O

Approved By Division _____	Conducted By: B & R Services	Calculated By: J.J. Barnett	Checked By: _____
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