

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 3/18/85	
Company Amoco Production Co.		Connection El Paso Natural Gas co.	
Pool Basin		Formation Dakota	
Completion Date 3/8/85		Total Depth 6550	Plug Back TD 6512
		Elevation 5989 GR	
Csg. Size 7,000		Wt. 23	d 6.366
Set At 6544		Perforations: From 6322 To 6430	
Tbg. Size 2.375		Wt. 4.7	d 1.995
Set At 6435		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	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.	Temp. °F	
SI	7 days						625		1660		
1.	2.375.		.500				418		725		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	5.4315		430	1.000	.9258	1.054	2279
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

P _r 1672	P _w 2795584		
NO.	P _r	P _w	P _r ² - P _w ²
1		737	543169
2			
3			
4			
5			

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.2411$		(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1772$	
AOI = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2680$			

Absolute Open Flow 2680	Mcf/d @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: Lite H2O, Heavy condensate, Not flared

Approved By Division	Conducted By: Bryan Services	Calculated By: JJ Barnett	Checked By: JS
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