

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 6-12-85		Flac	
Company Amoco Production Co.		Connection El Paso Natural Gas Co.		846463-01-6	
Pool Basin		Formation Dakota		Unit	
Completion Date 5-23-85		Total Depth 6046		Plug Back TD 6001	
Casing Size 7.000		ID 6.366		Elevation 5781 GR	
Well No. 23		Set At 6046		Perforations: From 5844 To 5958	
Tubing Size 2.375		ID 1.995		Set At 5966	
Perforations: From open To ended		Unit P		Sec. 5 Twp. 27 R. 12	
Type Well - Single - Drilled - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
Baro. Press. - P _a		County San Juan		State New Mexico	
L	H	Cg	% 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						1985		2000		3 hrs.
1.	2.875		.750				845		1114		
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		857	1.000	.9258	1.100	10792
2.							
3.							
4.							
5.							

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NO.	R	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

P_c		2012		P_c^2 4048144															
NO	P_i^2	P_w	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4560$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3255$													
1		1126	1267876	2780268															
2																			
3																			
4																			
5																			

$AOI^* = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14305$

Absolute Open Flow	14305	Mcf/d @ 15.025	Angle of Slope	θ	Slope, n	.75
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Remarks: Flared, Lite Condensate, Med H2O

Approved By Division	Conducted By Bryan Services	Calculated By J.J. Barnett	Checked By RB
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