

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL 5-2-85

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 5-9-85		Flac	
Company Amoco Production Co.				Connection El Paso Natural Gas Co.		846274-01-7	
Pool Basin				Formation Dakota		Unit	
Completion Date 5-1-85		Total Depth 6405		Plug Back TD 6361		Elevation 6051 GR	
Farm or Lease Name Davies Gas Com "B"		Well No. 1E		Unit I		Sec. Twp. Rye 27 28 13	
Csq. Size 5.500		Wt. 15.5		Set At 4.950		Perforations: From 6230 To 6340	
Tbg. Size 2.375		Wt. 4.7		Set At 1.995		Perforations: From Open To Ended	
Type Well - Single - Brdenhead - 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		Gq		% 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						611		626		
1.	2.375		.750				128		336		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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		140	1.000	.9258	1.020	1634
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 _____ X X X X X X X X	
3.					Specific Gravity Flowing Fluid _____ X X X X X	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

P _c 638 P _c ² 407044					(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.4235$		(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.3032$	
NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²				
1		348	121104	285940				
2								
3								
4								
5								

Absolute Open Flow 2130 _____ Mcfd @ 15.025					Angle of Slope θ _____		Slope, n .75	
Remarks: flared, lite H ₂ O, lite condensate								

Approved By Division	Conducted By: Bryan Services	Calculated By: J. J. Barnett	Checked By: b
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