

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 3-24-82	
Company Amoco Production Company				Connection El Paso Natural Gas Company	
Pool Basin				Formation Dakota	
Completion Date 3-7-82		Total Depth 6445		Plug Back TD 6380	
				Elevation 5898 GL	
Csg. Size 5.500		Wt. 15.50		d 4.950	
Set At 6445		Perforations: From 6110 To 6220		Well No. 4E	
Tubg. Size 2.375		Wt. 4.7		d 1.995	
Set At 6204		Perforations: From open To ended		Unit Sec. Twp. Rge. C 17 27N 10W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing				County San Juan	
Reservoir Temp. °F θ		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.	
SI	7 Days						1442		1447	
1.	2.375		.750				.48		302	
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		60	1.000	.9258	1.007	692
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

$P_c = 1459$ $P_c^2 = 2128681$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0486$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0362$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		314	98596	2030085				
2								
3								
4								
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 717$				Absolute Open Flow 717 Mcfd @ 15.025		Angle of Slope θ _____ Slope, n .75	
Remarks:							

Approved By Division	Conducted By: J. J. Barnett	Calculated By: J. J. Barnett	Checked By:
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