

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 12-17-83		JAN 12 1984	
Company Amoco Production Company				Connection Gas Company of New Mexico			
Pool Basin				Formation Dakota		Unit	
Completion Date 11-23-83		Total Depth 6729		Plug Back TD 6686		Elevation 5926 GL	
Farm or Lease Name J. F. Day "E"		Well No. 1E		Perforations: From 6385 To 6572		Unit Sec. Twp. Rye.	
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 6729	Perforations: From open To ended		Unit Sec. Twp. Rye.	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6610			E 17 28 10	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F		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	28 Days						980		1220		
1.	2.375		.750				65		355		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mhd
1	12.365		77	1.000	.9258	1.009	889
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcl/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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		367	134689	1383135
2				
3				
4				
5				

P_c 1232 P_c² 1517824

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0974$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0722$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 953$

Absolute Open Flow 953 Mhd @ 15.025

Angle of Slope θ _____ Slope, n .75

Remarks: Drilled by TRHE - Completed
Med H₂O Med oil

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