

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-4-87	
Company Amoco Production Company		Connection	
Pool Bravo Dome		Formation Tubb	
Completion Date 1-12-81		Total Depth 2763	Plug Back TD 2699
		Elevation 4787	Unit BDCDGU
Csg. Size 5.50	Wt. 14	d 4.9	Set At 2763
Perforations: From 2263 To 2422		Well No. 2034-251F	
Tub. Size 2.875	Wt. 6.5	d 2.441	Set At 2216
Perforations: From To		Unit Sec. Twp. Rge. F 25 20 34	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 2216	County Union
Producing Thru Tubing	Reservoir Temp. °F 90	Mean Annual Temp. °F 50	Baro. Press. - P _g 12.25
State New Mexico			
L	H	Cg	% CO ₂ 100
			% N ₂ 0
			% H ₂ S. 0
Prover		Meter Run 4.0	Taps Flange

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.	
1.	4.026 x	2.125	197	23	60	196	60	0		24 hrs
2.	4.026 x	2.125	212	16	61	211	61	0		24 hrs
3.	4.026 x	2.125	224	11	62	223	62	0		24 hrs
4.	4.026 x	2.125	240	5	61	238	61	0		24 hrs
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.							1335
2.							1182
3.							1029
4.							757
5.							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					0	
2.						
3.						
4.						
5.						

A.P.I. Gravity of Liquid Hydrocarbons		Specific Gravity Separator Gas		Specific Gravity Flowing Fluid		Critical Pressure		Critical Temperature	
		1.529		XXXXXX		1072		496	
						P.S.I.A.		P.S.I.A.	
						R		R	

P _c 302.25		P _c ² 91,355	
NO.	F _t ²	P _w	P _w ²
1.		208.25	43,368
2.		223.25	49,840
3.		235.25	55,342
4.		250.25	62,625
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9037$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7930$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2394$			

Absolute Open Flow 2394		Mcf/d @ 15.025		Angle of Slope @ 42.2049		Slope, n 0.9069	
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Remarks: Test was run from a low flowing tubing pressure to a high flowing tubing pressure to minimize liquid loading effects.

Approved by Commission:	Conducted By: RANDY MAHANNAH	Calculated By: RICHARD ROETH	Checked By:
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