

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-10-87	
Company Amoco Production Company		Connection	
Pool Bravo Dome		Formation Tubb	
Completion Date 9-29-79		Total Depth 2625	Plug Back TD 2574
		Elevation 4811	Unit BDCDGU
Csg. Size 4.50	Wt. 9.5	d 4.1	Set At 2625
Perforations: From 2205 To 2500		Well No. 2034-081F	
Tub. Size 2.375	Wt. 4.5	d 1.995	Set At 2146
Perforations: From To		Unit F	
Type Well - Single - Blindhead - G.G. or G.O. Multiple Single		Packer Set At 2146	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	G _g	% 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.		Temp. °F
SI							309		0		24 hrs
1.	4.026 x	1.750		198	29	58	197	58	0		24 hrs
2.	4.026 x	1.750		207	24	59	206	59	0		24 hrs
3.	4.026 x	1.750		219	19	60	217	60	0		24 hrs
4.	4.026 x	1.750		234	13	61	232	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 _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							1014
2							914
3							876
4							748
5							

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

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

P _c 321.25	P _c ² 103,201
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NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7370$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7156$
1		209.25	43,786	59,415		
2		218.25	47,633	55,567		
3		229.25	52,555	50,645		
4		244.25	59,658	43,524		
5						

Absolute Open Flow 1740 Mcfd @ 15.025		Angle of Slope @ 44.3504		Slope, n 0.9776	
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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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