

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-20-87	
Company Amoco Production Company		Connection	
Pool Bravo Dome		Formation Tubb	
Completion Date 12-1-80		Total Depth 2590	Plug Back TD 2545
		Elevation 4823	Farm or Lease Name
Csg. Size 5.5	Wt. 14	d 4.9	Set At 2590
Perforations: From 2220 To 2460		Well No. 1934-031G	
Csg. Size 2.875	Wt. 6.5	d 2.441	Set At 2170
Perforations: From To		Unit G 3 19 34	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 2170	County Union
Producing Thru Tubing	Reservoir Temp. °F 90	Mean Annual Temp. °F 50	Baro. Press. - P _a 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.		Temp. °F
1.	4.026 x 2.00			195	31	60	197	60	0		24 hrs
2.	4.026 x 2.00			204	26	59	206	59	0		24 hrs
3.	4.026 x 2.00			215	19	61	216	61	0		24 hrs
4.	4.026 x 2.00			228	15	60	229	60	0		24 hrs
5.									0		24 hrs

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcd
1.							1363
2.							1262
3.							1123
4.							1005
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					0		1.529		1072	496
2.										
3.										
4.										
5.										

P _c 320.25 P _c ² 102,560				
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²
1.		209.25	43,785	58,775
2.		218.25	47,633	54,927
3.		228.25	52,098	50,462
4.		241.25	58,201	44,359
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7449$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2340$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7168$

Absolute Open Flow	2340	Mcd @ 15.025	Angle of Slope @	44.15	Slope, n	.9708
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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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