

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 2-5-81		Total Depth 2500	Plug Back TD 2417
Elevation 4696		Farm or Lease Name	
Csg. Size 5.5	Wt. 14	d 4.9	Set At 2500
Perforations: From 2164	To 2393		Well No. 1934-1416
Tub. Size 2.875	Wt. 6.5	d 2.441	Set At 2123
Perforations: From	To		Unit G 14 19 34
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single			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
1.	4.026 x	2.625	190	23	57	284	191	57	0		24 hrs
2.	4.026 x	2.625	197	20	58	199	58	0			24 hrs
3.	4.026 x	2.625	214	13	59	215	59	0			24 hrs
4.	4.026 x	2.625	225	10	59	227	59	0			24 hrs
5.											24 hrs

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow O, Mcd
1.							2240
2.							1988
3.							1735
4.							1570
5.							

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

NO.	P _i	P _w	P _w ²	P _c ² - P _w ²
1.	203.25	41,310	46,453	
2.	211.25	44,626	43,730	
3.	227.25	51,643	36,714	
4.	239.25	57,240	31,116	
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9021$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5252$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3088$

P_c 296.25 P_c² 87,764

Absolute Open Flow	3088	Mcd @ 15.025	Angle of Slope @	33.28	Slope, n	0.6565
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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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