

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 3-3-81	Total Depth 2582	Plug Back TD 2389	Elevation 4795
Csg. Size 5.50	Wt. 14	d 4.9	Set At 2582
Perforations: From 2163	To 2395		Well No. 2034-271G
Tub. Size 2.875	Wt. 6.5	d 2.441	Set At 2116
Perforations: From	To		Unit G
Type Well - Single - Blindhead - G.G. or G.O. Multiple Single		Packer Set At 2116	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	Gg	% 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.	
SI							286		0	
1.	4.026 x	2.50	192	22	59	194	59	0		24 hrs
2.	4.026 x	2.50	205	16	60	207	60	0		24 hrs
3.	4.026 x	2.50	217	11	62	219	62	0		24 hrs
4.	4.026 x	2.50	229	7	61	231	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							1851
2							1691
3							1513
4							1202
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas 1.529
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure 1072 P.S.I.A.
5.					Critical Temperature 496 R

P _c 298.25 P _c ² 88,953				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		206.25	42,539	46,414
2		219.25	48,070	40,882
3		231.25	53,476	35,476
4		243.25	59,170	29,782
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.9165$$

$$Q = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3015$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6291$$

Absolute Open Flow	3015	Mcf/d @ 15.025	Angle of Slope @	36.8799	Slope, n	0.7503
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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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