

NEW MEXICO OIL CONSERVATION COMMISSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-26-87	
Company Amoco Production Company		Connection	
Pool Bravo Dome		Formation Tubb	
Completion Date 6-20-81		Total Depth 2515	Plug Back TD 2466
Elevation 4665		Farm or Lease Name	
Csg. Size 5.50	Wt. 14	d 4.9	Set At 2515
Perforations: From 2107 To 2253		Well No. 1934-241G	
Tub. Size 2.875	Wt. 6.5	d 2.441	Set At 2122
Perforations: From To		Unit G 24 19 34	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2084	
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.	
SI										
1.	4.026 x	2.375		188	29	57	302		0	
2.	4.026 x	2.375		200	23	58	187	57	0	
3.	4.026 x	2.375		210	19	58	200	58	0	
4.	4.026 x	2.375		225	13	59	210	58	0	
5.							225	59	0	

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.							
2.							1976
3.							1745
4.							1605
5.							1426

NO.	P ₁	Temp. °R	T ₁	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					
2.							1.529		1072	496
3.										
4.										
5.										

NO.	P ₁ ²	P _w	P _w ²	P ₁ ² - P _w ²
1.		199.25	39,700	59,053
2.		212.25	45,050	53,703
3.		222.25	49,395	49,358
4.		237.25	56,287	42,466
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6722$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3290$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6652$

Absolute Open Flow	3290	Mcf @ 15.025	Angle of Slope °	44.76	Slope, n	.9919
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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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