

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 2-3-81		Total Depth 2481	Plug Back TD 2477
		Elevation 4800	Unit BDCDGU
Csg. Size 5.50	Wt. 14	d 4.9	Set At 2481
Perforations: From 2214	To 2474		Well No. 1934-151J
Perforations: From	To		Unit J
Sec. 15	Twp. 19	Rys. 34	
Type Well - Single - Rodhead - G.G. 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 _g 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							313		0	
1.	4.026 x	2.750	190	24	56	193	56	0	24 hrs	
2.	4.026 x	2.750	200	21	57	202	57	0	24 hrs	
3.	4.026 x	2.750	210	17	57	211	57	0	24 hrs	
4.	4.026 x	2.750	223	14	58	225	58	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 F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcd
1.							2504
2.							2371
3.							2233
4.							2050
5.							

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

P _c 325.25	P _c ² 105,787			
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1		205.25	42,127	63,660
2		214.25	45,903	59,884
3		223.25	49,840	55,947
4		237.25	56,287	49,500
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.6617$$

$$Q = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4121$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6459$$

Absolute Open Flow	4121	Mcd @ 15.025	Angle of Slope @	44.46	Slope, n	.9813
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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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