

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 2625	Plug Back TD 2578
		Elevation 4786	Unit BDCDGU
Csg. Size 5.50	Wt. 14	d 4.9	Set At 2625
Perforations: From 2172	To 2372		Well No. 1934-011F
Tog. Size 2.875	Wt. 6.5	d 2.441	Set At 2134
Perforations: From		To	
Type Well - Single - Packerhead - G.C. or G.O. Multiple Single		Packer Set At 2134	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	
SI											
1.	4.026	x	2.50	199	20	59	295		0		24 hrs
2.	4.026	x	2.50	207	17	59	199	59	0		24 hrs
3.	4.026	x	2.50	221	11	61	207	59	0		24 hrs
4.	4.026	x	2.50	234	8	60	220	61	0		24 hrs
5.							234	60	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, Mcfd
1.							
2.							1838
3.							1697
4.							1459
5.							1250

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

P _c 307.25		P _c ² 94,402		
NO	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		211.25	44,626	49,775
2		219.25	48,070	46,332
3		232.25	53,940	40,462
4		246.25	60,639	33,763
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8966$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3475$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8911$

Absolute Open Flow	3475	Mcfd @ 15.025	Angle of Slope θ	44.87	Slope, n	0.9955
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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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