

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 7-10-87	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome		Formation: Tubb	
Completion Date: 3-19-81		Total Depth: 2535	Plug Back TD: 2500
		Elevation: 4740	
Csg. Size: 5.50	Wt. 14	d 4.9	Set At 2535
Perforations: From 2136 To 2378		Well No. 2034-221K	
Tub. Size: 2.875	Wt. 6.5	d 2.441	Set At 2080
Perforations: From To		Unit Sec. Twp. Rge. K 22 20 34	
Type Well - Single - Rodenthead - G.G. or G.O. Multiple		Packer Set At 2080	County Union
Producing thru Tubing	Reservoir Temp. °F 90	Mean Annual Temp. °F 50	Baro. Press. - P _b 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.	
1.	4.026 x	2.625	187	31	57	187	57	0	0	24 hrs
2.	4.026 x	2.625	196	27	58	196	58	0	0	24 hrs
3.	4.026 x	2.625	210	21	59	210	59	0	0	24 hrs
4.	4.026 x	2.625	228	15	60	228	60	0	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, Mcd
1.							2540
2.							2285
3.							2197
4.							1899
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					0	
2.						
3.						
4.						
5.						

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²
1.	199.25	39,700	63,501		
2.	208.25	43,368	59,833		
3.	222.25	49,395	53,807		
4.	240.25	57,720	45,582		
5.					

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.6252$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.5268$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3878$

Gas Liquid Hydrocarbon Ratio 0

A.P.I. Gravity of Liquid Hydrocarbons

Specific Gravity Separator Gas 1.529

Specific Gravity Flowing Fluid X X X X X

Critical Pressure 1072 P.S.I.A.

Critical Temperature 496 R

Absolute Open Flow 3878	Mcd @ 15.025	Angle of Slope @ 41.0689	Slope, n 0.8714
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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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