

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		Unit BDCDGU
Completion Date 2-25-81		Total Depth 2590	Plug Back TD 2410		Elevation 4717
Csg. Size 5.5		Wt. 14	Set At 4.9	Perforations: From 2151 To 2358	
Tub. Size 2.875		Wt. 6.5	Set At 2.441	Perforations: From To	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Single				Packer Set At 2092	
Producing Thru Tubing		Reservoir Temp. °F 90	Mean Annual Temp. °F 50		Baro. Press. - P _a 12.25
L		H	Cg	% 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							299		0		24 hrs
1.	4.026 x	2.50		196	24	59	198	59	0		24 hrs
2.	4.026 x	2.50		211	18	59	213	59	0		24 hrs
3.	4.026 x	2.50		225	13	61	227	61	0		24 hrs
4.	4.026 x	2.50		239	8	60	242	60	0		24 hrs
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf/d
1.							1953
2.							1787
3.							1603
4.							1296
5.							

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

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²
1.	210.25	44,205	52,671	
2.	225.25	50,738	46,139	
3.	239.25	57,240	39,636	
4.	254.25	64,643	32,234	
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.8393 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5269$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2982$$

Absolute Open Flow 2982 Mscf/d @ 15.025 Angle of Slope @ 34.7833 Slope, n 0.6946

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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