

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	
Unit: BDCDGU		Form or Lease Name:	
Completion Date: 11-28-83	Total Depth: 2627'	Plug Back TD: 2505'	Elevation: 4470'
Csg. Size: 7.0	Wt.: 20	d: 6.331	Set At: 2627
Perforations: From 2073 To 2136	Well No.: 1935-251G		
Tag. Size: 3.5	Wt.: 9.5	d: 3.00	Set At: 2014
Perforations: From To	Unit: G Sec: 25 Twp: 19 Rge: 35		
Type Well - Single - Rodenhead - G.G. or G.O. Multiple: Single		Packer Set At: 2014	
Producing thru: Tubing		County: Union	
Reservoir Temp. °F: 90	Mean Annual Temp. °F: 50	Baro. Press. - P _b : 12.25	
State: New Mexico			
L: H: Gg: % CO ₂ : % N ₂ : % H ₂ S: 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
1.	4.026 x 1.50			225	26	61	226	61	0		24 hrs
2.	4.026 x 1.50			235	18	62	236	62	0		24 hrs
3.	4.026 x 1.50			241	13	63	241	63	0		24 hrs
4.	4.026 x 1.50			264	1	61	265	61	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.							743
2.							645
3.							523
4.							236

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

P _c : 303.25	P _c ² : 91,960					
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6127$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.605$
1.		238.25	56,763	35,197	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1936$	
2.		248.25	61,628	30,332		
3.		253.25	64,135	27,825		
4.		277.25	76,867	15,093		
5.						

Absolute Open Flow: 1936 Mcfd @ 15.025	Angle of Slope θ: 44.91	Slope, n: .9972
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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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