

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: 8-19-85									
Company: Amoco Production Company		Connection:									
Pool: Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area		Formation: Tubb									
Completion Date: 12-19-83		Unit: BDCDGU									
Total Depth: 2805		Farm or Lease Name:									
Plug Back TD: 2685		Elevation: 4750									
Csg. Size: 7	Wt.: 20	Set At: 2805	Perforations: From 2486 To 2534								
Thg. Size: 3.5	Wt.: 9.3	Set At: 2446	Perforations: From To								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At: 2414									
Producing Thru: Tubing		Baro. Press. - P _a : 12.2									
Reservoir Temp. °F: 90 @ 2510		Mean Annual Temp. °F: 50									
L: 2510 H: 2510 Gg: 1.529		% CO ₂ : 100 % N ₂ : 0 % H ₂ S: 0									
Prover: 4.0		Meter Run: 4.0 Taps: Flange									
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	4.026 x 1.25			195	35	59	318				
2.	4.026 x 1.25			219	25	60	195	50			24 hr
3.	4.026 x 1.25			222	23	60	219	50			24 hr
4.	4.026 x 1.25			240	17	60	222	50			24 hr
5.							240	50			24 hr
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1.											
2.							531				
3.							474				
4.							460				
5.							416				
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio: 0 Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons: 0 Deg. Specific Gravity Separator Gas: 1.529 Specific Gravity Flowing Fluid: X X X X X Critical Pressure: 1072 P.S.I.A. Critical Temperature: 547 R						
1.											
2.											
3.											
4.											
5.											
P _c : 330.2 P _c ² : 109.032					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.65$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.38$						
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²							
1.		207.2		66.100							
2.		231.2		55.579							
3.		234.2		54.182							
4.		252.2		45.427							
5.											
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 735$											
Absolute Open Flow: 735 Mcfd @ 15.025											
Angle of Slope θ: Slope, n: .65											
Remarks:											
Approved By Commission:											
Conducted By:											
Calculated By: D. D. Kimble											
Checked By:											