

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date: 4-19-85							
Company: Amoco Production Company			Connection:								
Pool: Bravo Dome Carbon Dioxide Unit - 640 acre area			Formation: Tubb		Unit: BDCDGU						
Completion Date: 12-27-83		Total Depth: 2582	Plug Back TD: 2500	Elevation: 4774	Farm or Lease Name:						
Csg. Size: 7	Wt.: 20	d:	Set At: 2582	Perforations: From 2159 To 2422							
Well No.: 2034 211L											
Tubg. Size: 3.5	Wt.: 9.3	d:	Set At: 2144	Perforations: From To							
Unit: L	Sec.: 21	Twp.: 20	Hje.: 34								
Type Well - Single - Brdenhead - G.G. or G.O. Multiple: Single				Packer Set At: 2113							
Producing Thru: Tubing			Reservoir Temp. °F: 90 @ 2291		Mean Annual Temp. °F: 50						
			Baro. Press. - P _a : 12.2		State: New Mexico						
L: 2291	H: 2291	G _g : 1.529	% CO ₂ : 100	% N ₂ : 0	% H ₂ S: 0						
Prover:			Meter Run: 4.0	Taps: Flange							
FLOW DATA			TUBING DATA		CASING DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							299				
1.	4.026 x 2.75			223	26	59	235.2	50			24 hr.
2.	4.026 x 2.75			223	26	58	235.2	50			24 hr.
3.	4.026 x 2.75			245	17	59	257.2	50			24 hr.
4.	4.026 x 2.75			269	9	59	281.2	50			24 hr.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1							2700				
2							2696				
3							2307				
4							1734				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ 0 _____ Mcf/bbl.						
1					A.P.I. Gravity of Liquid Hydrocarbons _____ 0 _____ Deg.						
2					Specific Gravity Separator Gas _____ 1.529 _____ X X X X X X X X X						
3					Specific Gravity Flowing Fluid _____ X X X X X _____						
4					Critical Pressure _____ 1072 _____ P.S.I.A. _____ P.S.I.A.						
5					Critical Temperature _____ 547 _____ R _____ R						
P _c 311.2		P _c ² 96.845									
NO	P _r	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.33$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.55$						
1		235.2		41.526							
2		235.2		41.526							
3		257.2		30.694							
4		281.2		17.772	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4194$						
5											
Absolute Open Flow 4194				Mcf/d @ 15.025				Angle of Slope θ _____		Slope, n .52	
Remarks: _____											
Approved by Commission:			Conducted By:			Calculated By: D. D. Kimble			Checked By:		