

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: 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:	
Csq. Size: 7	Wt.: 20	d:	Set At: 2582	Perforations: From 2159 To 2422		Well No.: 2034 211L			
Thq. Size: 3.5	Wt.: 9.3	d:	Set At: 2144	Perforations: From To		Unit Sec. Twp. Hje. L 21 20 34			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: 2113		County: Union	
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	Gg: 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		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				
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 Fg	Super Compress. Factor, Fpv	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	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	0
2					Specific Gravity Separator Gas	1.529
3					Specific Gravity Flowing Fluid	X X X X X
4					Critical Pressure	1072
5					Critical Temperature	547

P _c	311.2	P _c ²	96.845
NO	P _r	P _w	P _w ²
1		235.2	41.526
2		235.2	41.526
3		257.2	30.694
4		281.2	17.772
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.33$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4194$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.55$

Absolute Open Flow	4194	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	.52
Remarks:					
Approved by Commission:					
Conducted By:		Calculated By:		Checked By:	
		D. D. Kimble			