

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: 5-15-85	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area		Formation: Tubb	
Completion Date: 12-20-83	Total Depth: 2881'	Plug Back TD: 2747'	Elevation: 4618' GL
Csg. Size: 7"	Wt.: 20#	Set At: 2881'	Perforations: From 2412' To 2474'
Tbg. Size: 3-1/2"	Wt.: 9.3#	Set At: 2443'	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At: 2342	Unit: BDCDGU
Producing Thru: Tubing	Reservoir Temp. *F: 93% 2443	Mean Annual Temp. *F: 50	Baro. Press. - P _a : 12.2
L: 2443	H: 2443	G _g : 1.529	% CO ₂ : 100 % N ₂ : 0 % H ₂ S: 0
Prover: 4.0"		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 1.75			223	52	60	235.2	50			24 hrs
2.	4.026 x 1.75			250	31	60	262.2	50			24 hrs
3.	4.026 x 1.75			274	19	61	286.2	50			24 hrs
4.	4.026 x 1.75			297	11	60	309.2	50			24 hrs

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.							1347
2.							1131
3.							943
4.							741

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.	
1.					A.P.I. Gravity of Liquid Hydrocarbons 0	
2.					Specific Gravity Separator Gas 1.529	XXXXXX
3.					Specific Gravity Flowing Fluid XXXXX	
4.					Critical Pressure 1072 P.S.I.A.	
5.					Critical Temperature 547 R	

P _c 350.2	P _c ² 122.640		
NO.	P _r ²	P _w	P _w ²
1.	235.2		67.321
2.	262.2		53.891
3.	286.2		40.730
4.	309.2		27.035

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.82$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2001$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.486$

Absolute Open Flow 2001 Mcfd @ 15.025	Angle of Slope θ	Slope, n .66
Remarks:		
Approved By Commission: Conducted By: Calculated By: D. D. Kimble Checked By:		

1835 3616

46 7200

LOGARITHMIC 2 x 2 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

AOE = 2001

p, z, p, z

$$Q = MCF$$

100 1.5 2 2.5 3 4 5 6 7 8 9 1000 1.5 2 2.5 3 4 5 6 7 8 9 10