

**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: 8-26-85	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-Acre Area		Formation: Tubb	
Completion Date: 10-18-85		Total Depth: 2753	Plug Back TD: 2701
		Elevation: 4740	Unit: BDCDGU
Csg. Size: 7	Wt.: 15# 20#	Set At: 2757	Perforations: From 2436 To 2536
Tbg. Size: 3.5	Wt.: 9.3	Set At: 2347	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At: 2316	Well No.: 1833 091G
Single		County: Harding	Unit: G
Producing Thru Tubing	Reservoir Temp. °F: 90 @ 2486	Mean Annual Temp. °F: 50	Baro. Press. - P _a : 12.2
L: 2486	H: 2486	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		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 1.625			185	33	59	295				
2.	"	"	"	204	22	58	185	50			24-hr.
3.	"	"	"	223	12	58	204	"			"
4.	"	"	"	242	7	57	223	"			"
5.							242	"			"

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.							
2.							891
3.							759
4.							600
5.							477

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					0	0	1.529	X X X X X X X X	1072	547
2.										
3.										
4.										
5.										

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		197.2		55.484
2.		216.2		47.629
3.		235.2		39.053
4.		254.2		29.754
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1515$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7$

Absolute Open Flow: 1515	Mcfd @ 15.025	Angle of Slope θ	Slope, n: 1.0
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Approved By Commission:	Conducted By:	Calculated By: D. D. KIMBLE	Checked By:
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