

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		Unit: BDCDGU
Completion Date: 12-13-83		Total Depth: 2900'		Plug Back TD: 2814'		Elevation: 4647'
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2900'	Perforations: From 2434 To 2480		Well No.: 1834 351G
Tbg. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 2415'	Perforations: From To		Unit: G Sec: 35 Twp: 18 Rge: 34
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 2385'		County: Union
Producing Thru Tubing		Reservoir Temp. °F: 95° @ 2457'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2'
L: 2457'		H: 2457'	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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							338			
1.	4.026 x 2.00			218	47	61	230.2	50		
2.	4.026 x 2.00			244	29	60	256.2	50		
3.	4.026 x 2.00			270	18	61	286.2	50		
4.	4.026 x 2.00			281	12	61	293.	50		
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, F _{pr}	Rate of Flow Q, Mcfd
1							1741
2							1441
3							1207
4							1023
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					0	
2					0	
3					1.529	X X X X X X X X
4					1072	X X X X X
5					547	

P _c 350.2 P _c ² 122.640				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		230.2		69.648
2		256.2		57.002
3		286.2		40.730
4		293.2		36.674
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.76$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2785$$

Absolute Open Flow: 2785 Mcfd @ 15.025	Angle of Slope θ: _____	Slope, n: .83
Remarks: _____		
Approved By Commission: _____	Conducted By: _____	Calculated By: D. D. Kimble
		Checked By: _____

1834 3516

46 7200

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

AOF = 2785

P_1^2, P_2^2, P_{avg}^2

$$Q = MCF$$

