

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: 9/17/85	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome Carbon Dioxide Gas Unit-640 acre area				Formation: Tubb	
Completion Date: 12/28/83		Total Depth: 2820		Plug Back TD: 2700	
				Elevation: 4795	
Csg. Size: 7-		Wt.: 20		Set At: 2820	
Tbg. Size: 3-1/2		Wt.: 9.3		Set At: 2392	
Perforations: From 2470 To 2560				Well No.: 1833 021G	
Type Well - Single - Fractured - G.G. or G.O. Multiple				Packer Set At: 2384	
Producing Thru Tubing				Baro. Press. - P _a : 12.2	
Reservoir Temp. *F: 90 @ 2515		Mean Annual Temp. *F: 50		County: Harding	
L: 2515		H: 2515		State: New Mexico	
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.	
SI							375			
1.	4.026 x 2.125			187	28	59	187	50		
2.	4.026 x 2.125			207	27	59	207	50		24 hrs.
3.	4.026 x 2.125			237	20	59	237	50		24 hrs.
4.	4.026 x 2.125			256	15	59	256	50		24 hrs.
5.										24 hrs.

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							1456
2							1309
3							1235
4							1175
5							

NO.	P _t	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 X X X
4					Critical Pressure	1072 P.S.I.A.
5					Critical Temperature	547 R

P _c	387.2	P _c ²	149.924
NO.	P _t	P _w	P _w ²
1		199.2	110.243
2		219.2	101.875
3		259.2	82.739
4		268.2	77.993
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.36$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1762$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.21$$

Absolute Open Flow	1762	Mcf/d @ 15.025	Angle of Slope @	Slope, n	.62
Remarks:					
Approved By Commission:					
Conducted By:		Calculated By:		Checked By:	
		D. D. KIMBLE			