

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: 4-23-85	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome Carbon Dioxide Unit - 640 acre area				Formation: Tubb	
Completion Date: 3-18-81		Total Depth: 2708		Plug Back TD: 2670	
Elevation: 5003		Farm or Lease Name:			
Csg. Size: 5.5	Wt.: 14	d:	Set At: 2708	Perforations: From 2380 To 2641	
Trg. Size: 2-7/8	Wt.: 6.5	d:	Set At: 2220	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 2190	
Producing Thru: Tubing		Reservoir Temp. °F: 90.0		Mean Annual Temp. °F: 50	
Baro. Press. - P _a : 12.2		State: New Mexico			
L: 2511	H: 2511	G _q : 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							326			
1.	4.026 x 2.125			238	48	58	250.2	50		
2.	4.026 x 2.125			265	27	62	277.2	50		24 hr.
3.	4.026 x 2.125			282	17	61	294.2	50		24 hr.
4.	4.026 x 2.125			307	4	63	319.2	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							2052
2							1647
3							1333
4							676
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 P.S.I.A.
5.					Critical Temperature	547 R

P _c : 338.2	P _c ² : 114.379	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.21$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.86$
NO.	P _r ²	P _w	P _w ²
1	250.2		51.779
2	277.2		37.539
3	294.2		27.826
4	319.2		12.491
5			

Absolute Open Flow: 3808 Mcfd @ 15.025		Angle of Slope θ: .78
Remarks:		
Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble
		Checked By: