

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-63

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 7/2/98		API Number: 30-059-20377		
Company: Amoco Exploration & Production				Connection: Bravo Dome CO2 Plant			RTU Number: 4113		
Pool: N/A				Formation: Tubb			Unit: BDCDGU		
Completion Date: 5/15/98		Total Depth: 2315		Plug Back Depth: 2300		Elevation: 4656 KB		Farm or Lease Name: Bravo Dome	
Csg. Size: 5.50		Wt.: 14.0		Csg. Inside Dia.: 5.012		Set At: 2310		Perforations: From 2095 To 2246	
Tbg. Size: n/a		Wt.: n/a		Tbg. Inside Dia.: n/a		Set At: n/a		Perforations: From n/a To n/a	
Type well -Single-Bradenhead-G.G. or G.O. Multiple: Single					Packer Set At: n/a			County: Union	
Producing Through: Casing		Reservoir Temp, F: 95		Mean Annual Temp, F: 60		Baro. Press. - PSIA: 12.2		State: New Mexico	
Flow Channel, L: 2300		Depth, H: 2300		Gg: 1.5192		%CO2: 100		%N2: 0	
								%H2S: 0	
								Prover: ORIFICE	
								Meter Run: 4 inch	
								Taps: FLANGE	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Size	X	Stat. Press psig	Diff. Press. Hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI						168			24 hour
1.						159			60 MIN
2.						150			60 MIN
3.						141			60 MIN
4.						132			60 MIN
5.						0			

RATE OF FLOW CALCULATIONS								
NO.	Coefficient (24 Hours)	hw * Pm	Pressure Pm	Flow Temp. Factor, Ft	Gravity Factor, Fg	Super Compressibility Factor, Fpv	Rate of Flow Q, Mcfd	
							Values	Log(10)
SI							0	
1.							1233	3.0910
2.							1800	3.2552
3.							2383	3.3772
4.							2950	3.4698
5.							6596	AOF

NO.	P r	Temp. °R	T r	Z	Gas Liquid Hydrocarbon Ratio	N/A Mcf/bbl
1.					A. P. I. Gravity of Liquid Hydrocarbon <td>N/A Deg.</td>	N/A Deg.
2.					Specific Gravity Separator Gas <td>N/A</td>	N/A
3.					Specific Gravity Flowing Fluid <td>1.5192</td>	1.5192
4.					Critical Pressure <td>1072 P.S.I.A.</td>	1072 P.S.I.A.
5.					Critical Temperature <td>548 R</td>	548 R

Pc	209.012	Pc^2	43,686
NO.	P r^2	Pw	Pw^2
SI		209.0	43,686
1.		199.8	39,911
2.		190.7	36,350
3.		182.1	33,167
4.		174.0	30,291
5.			

Pc^2 - Pw^2: 0		Log(10): 3.5770	
(1) 4th test point: Pc^2 = 3.261		(2) 4th test point: P c^2 ^n = 2.236	
P c^2 - P w^2		P c^2 - P w^2	
4th test point: Q P r^2 ^n = 6,596 = AOF			
P c^2 - P w^2			

Absolute Open Flow: 6,596 Mcfd @ 15.025		Angle of Slope: 55.76		Slope, n = 0.681 (Cotangent)	
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Remarks:

Approved By Commission:	Conducted By: Automation	Calculated By: Spreadsheet	Checked By: Michael Preston
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