

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: 30-059-20376		
Company: Amoco Exploration & Production				Connection: Bravo Dome CO2 Plant			RTU Number: 4114		
Pool: N/A				Formation: Tubb			Unit: BDCDGU		
Completion Date: 5/13/98		Total Depth: 2260		Plug Back Depth: 2250		Elevation: 4605 KB		Farm or Lease Name: Bravo Dome	
Csg. Size: 5.50		Wt.: 14.0		Csg. Inside Dia.: 5.012		Set At: 2260		Perforations: From 2056 To 2200	
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: 2250		Depth, H: 2250		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						166			24 hour
1.						157			60 MIN
2.						149			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.							1116	3.0477	
2.							1713	3.2337	
3.							2328	3.3670	
4.							2925	3.4661	
5.							7918	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 206.6802		Pc^2 42,717				(1) 4th test point		(2) 4th test point	
NO.	P t^2	Pw	P w^2	Pc^2 - P w^2	Pc^2 - P w^2	Pc^2	3.426	P c^2 ^n	2.707
SI		206.7	42,717	0	Log(10)	P c^2 - P w^2		P c^2 - P w^2	
1.		197.2	38,898	3,819	3.5820				
2.		189.2	35,815	6,902	3.8390				
3.		181.3	32,879	9,837	3.9929				
4.		173.9	30,250	12,467	4.0958				
5.									

Absolute Open Flow: 7,918 Mcfd @ 15.025					Angle of Slope: 51.04		Slope, n = 0.809 (Cotangent)	
--	--	--	--	--	------------------------------	--	-------------------------------------	--

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

M.W.Preston - AOF_TEST.XLS