

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 8/10/98		API Number 30-059-20379	
Company Amoco Exploration & Production				Connection Bravo Dome CO2 Plant		RTU Number 4045	
Pool N/A				Formation Tubb		Unit BDCDGU	
Completion Date 6/9/98		Total Depth 2390		Plug Back Depth 2376		Elevation 4767 KB	
Farm or Lease Name Bravo Dome							
Csg. Size 5.50	Wt. 14.0	Csg. Inside Dia 5.012	Set At 2386	Perforations From 2178 To 2118		Well Number 1934-352-X	
Tbg. Size 3.50	Wt. FG	Tbg. Inside Dia 2.95	Set At 2155	Perforations From n/a To n/a		Unit Sec. Twp. Rge. SEC. 35. T-19, R-34	
Type well -Single-Bradenhead-G.G. or G.O. Multiple Single				Packer Set At 2151		County Union	
Producing Through Tubing		Reservoir Temp. F 95		Mean Annual Temp. F 60		Baro. Press. - PSIA 12.2	
State New Mexico							
Flow Channel, L 2376	Depth, H 2376	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	Stat. Press psig	Diff. Press. Hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI					181				24 hour
1.					179				60 MIN
2.					172				60 MIN
3.					158				60 MIN
4.					121				60 MIN
5.					0				

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hours)	$\frac{1}{hw} \cdot P_m$	Pressure Pm	Flow Temp. Factor, Ft	Gravity Factor, Fg	Super Compressibility Factor, Fpv	Rate of Flow Q, Mcfd
SI							Values
1.							0
2.							181
3.							808
4.							1455
5.							2347
							9462
							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	N/A Deg.
2.					Specific Gravity Separator Gas	N/A
3.					Specific Gravity Flowing Fluid	1.5192
4.					Critical Pressure	1072 P.S.I.A.
5.					Critical Temperature	548 R

Pc = 224.1687		Pc^2 = 50,252	
NO.	P w^2	Pw	P w^2
SI		224.2	50,252
1.		222.0	49,287
2.		217.8	47,431
3.		211.8	44,841
4.		194.1	37,690
5.			

Pc^2 - P w^2		Log(10)	
1.	0	2.9845	
2.	965	3.4504	
3.	2,821	3.7332	
4.	12,561	4.0990	
5.			

(1) 4th test point		(2) 4th test point	
Pc^2	4.000	Pc^2 - Pw^2	4.032
4th test point		4th test point	
Q P w^2 ^n	9,462	=	AOF

Absolute Open Flow 9,462	Mcf/d @ 15,025	Angle of Slope 44.84	Slope, n = 1.006 (Cotangent)
------------------------------------	----------------	--------------------------------	-------------------------------------

Remarks:

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