

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 8/28/98		API Number 30-059-20373	
Company Amoco Exploration & Production				Connection Bravo Dome CO2 Plant				RTU Number 2011	
Pool N/A				Formation Tubb				Unit BDCDGU	
Completion Date 6/2/98		Total Depth 2250		Plug Back Depth 2239		Elevation 4599 KB		Farm or Lease Name Bravo Dome	
Csg. Size 5.50	Wt. 14.0	Csg. Inside Dia 5.012	Set At 2249	Perforations From 2029 To 2178		Well Number 1935-202-E			
Tbg. Size 3.50	Wt. FG	Tbg. Inside Dia 2.95	Set At 2012	Perforations From n/a To n/a		Unit Sec. Twp. Rge. SEC. 20. T-19. R-35			
Type well -Single-Bradenhead-G.G. or G.O. Multiple Single						Packer Set At 2008		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 2239	Depth, H 2239	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.		Temp. °F
SI						168				24 hour
1.						165				60 MIN
2.						158				60 MIN
3.						146				60 MIN
4.						123				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.							300	2.4771
2.							820	2.9138
3.							1300	3.1139
4.							1950	3.2900
5.							7244	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		(1) 4th test point		(2) 4th test point	
NO.	P r^2	Pw	Pw^2	Pc^2 - Pw^2	Pc^2 - Pw^2	Pc^2 - Pw^2	Pc^2 - Pw^2
SI		209.0	43,686	0	Log(10)	4.353	3.715
1.		206.0	42,441	1,245			
2.		201.6	40,640	3,046			
3.		194.7	37,905	5,781			
4.		183.4	33,650	10,036			
5.							

4th test point		Q P^2 ^n		7,244 = AOF	
Pc^2 - Pw^2					

Absolute Open Flow	7,244	Mcfd @ 15,025	Angle of Slope	48.26	Slope, n =	0.892 (Cotangent)
Remarks:						

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