

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 30-059-20371		
Company Amoco Exploration & Production				Connection Bravo Dome CO2 Plant			RTU Number 4048		
Pool N/A				Formation Tubb			Unit BDCDGU		
Completion Date 6/4/98		Total Depth 2333		Plug Back Depth 2323		Elevation 4723 KB		Farm or Lease Name Bravo Dome	
Csg. Size 5.50	Wt. 14.0	Csg. Inside Dia 5.012	Set At 2331	Perforations From 2126 To 2270		Well Number 1934-362-E			
Tbg. Size 3.50	Wt. FG	Tbg. Inside Dia 2.95	Set At 2123	Perforations From n/a To n/a		Unit Sec. Twp. Rge. SEC. 36, T-19, R-34			
Type well - Single-Bradenhead-G.G. or G.O. Multiple Single					Packer Set At 2119		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 2323	Depth, H 2323	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									
1.					176				24 hour
2.					172				60 MIN
3.					164				60 MIN
4.					153				60 MIN
5.					125				60 MIN
					0				

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hours)	Pressure Pm	Flow Temp. Factor, Ft	Gravity Factor, Fg	Super Compressibility Factor, Fpv	Rate of Flow Q, Mcfd	
SI						Values	Log(10)
1.						476	2.6776
2.						1010	3.0043
3.						1515	3.1804
4.						2304	3.3625
5.						10333	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 = 218,3392		Pc^2 = 47,672			
NO.	P t^2	Pw	P w^2	Pc^2 - P w^2	Pc^2 - P w^2
SI					Log(10)
1.		218.3	47,672	0	3.1597
2.		215.0	46,227	1,445	3.5006
3.		211.0	44,505	3,167	3.5006
4.		207.2	42,942	4,730	3.6749
5.		197.3	38,911	8,761	3.9425

(1) 4th test point		(2) 4th test point	
Pc^2	5.442	Pc^2 - Pw^2	4.485
4th test point			
Q	10,333	= AOF	

Absolute Open Flow 10,333	Mcf/d @ 15.025	Angle of Slope 48.46	Slope, n = 0.886 (Cotangent)
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Remarks:

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