

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 3/6/98		API Number 30-059-20368		
Company Amoco Exploration & Production				Connection Bravo Dome CO2 Plant			RTU Number 3079		
Pool N/A				Formation Tubb			Unit BDCDGU		
Completion Date 6/11/98		Total Depth 2461		Plug Back Depth 2450		Elevation 4793 KB		Farm or Lease Name Bravo Dome	
Csg. Size 5.50	Wt. 14.0	Csg. Inside Dia 5.012	Set At 2460	Perforations From 2174 To 2365		Well Number 1934-272-L			
Tbg. Size n/a	Wt. n/a	Tbg. Inside Dia n/a	Set At n/a	Perforations From n/a To n/a		Unit Sec. Twp. Rge. SEC. 27. T-19, R-34			
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 2450	Depth, H 2450	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					182				24 hour
1.					165				60 MIN
2.					140				60 MIN
3.					130				60 MIN
4.					119				60 MIN
5.					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.						1048	3.0204	
2.						2160	3.3345	
3.						2450	3.3892	
4.						2791	3.4458	
5.						4989	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 = 225.3346		Pc^2 = 50.776	
NO.	P t^2	Pw	P w^2
SI		225.3	50.776
1.		206.4	42.615
2.		180.1	32.451
3.		169.6	28.748
4.		158.2	25.013
5.			

Pc^2 - P w^2 Pc^2 - P w^2 Log(10) Log(10)		(1) 4th test point Pc^2 1.971 Pc^2 - P w^2	(2) 4th test point Pc^2 ^n 1.788 Pc^2 - Pw^2
		4th test point Q P^2 ^n 4,989 = AOF Pc^2 - Pw^2	

Absolute Open Flow 4,989	Mcf/d @ 15.025	Angle of Slope 49.43	Slope, n = 0.856 (Cotangent)
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Remarks:

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