

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: 8/11/98		API Number: 30-059-20367	
Company: Amoco Exploration & Production				Connection: Bravo Dome CO2 Plant				RTU Number: 4044	
Pool: N/A				Formation: Tubb				Unit: BDCDGU	
Completion Date: 6/9/98		Total Depth: 2410		Plug Back Depth: 2396		Elevation: 4742 KB		Farm or Lease Name: Bravo Dome	
Csg. Size: 5.50	Wt.: 14.0	Csg. Inside Dia: 5.012	Set At: 2404	Perforations: From 2140 To 2326		Well Number: 1934-263-L			
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. 26, T-19, R-34			
Type well -Single-Bradenhead-G.G. or G.O. Multiple: Single						Packer Set At: 2115		County: Union	
Producing Through: Tubina		Reservoir Temp. F: 95		Mean Annual Temp. F: 60		Baro. Press. - PSIA: 12.2		State: New Mexico	
Flow Channel, L: 2396	Depth, H: 2396	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 pslg	Diff. Press. Hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI					175				24 hour
1.					170				60 MIN
2.					161				60 MIN
3.					154				60 MIN
4.					119				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.							414	2.6170
2.							1068	3.0286
3.							1400	3.1461
4.							2431	3.3858
5.							16954	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 = 217.1733		Pc^2 = 47,164	
NO.	P t^2	Pw	P w^2
SI		217.2	47,164
1.		212.3	45,085
2.		208.3	43,389
3.		206.0	42,419
4.		194.9	37,992
5.			

Pc^2 - P w^2: 0		Pc^2 - P w^2: 5.142		Pc^2 - P w^2: 6.974	
Log(10): 3.3180		Log(10): 3.5769		Log(10): 3.6763	
4th test point: Q		4th test point: 16,954		4th test point: 16,954	
Pc^2 - Pw^2		Pc^2 - Pw^2		Pc^2 - Pw^2	

Absolute Open Flow: 16,954	Mcfd @ 15.025	Angle of Slope: 40.13	Slope, n = 1.186 (Cotangent)
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Remarks:			
Approved By Commission:	Conducted By: Automation	Calculated By: Spreadsheet	Checked By: Michael Preston