NEW MEXICO OIL CONSERVATION COMMISSION — Form C-122
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL — Revised 9-1-63

Type Test	Test Date	API Number
[X] Initial [ ] Annual [ ] Special	3/28/98	30-059-20372

Company	Connection	RTU Number
Amoco Exploration & Production	Bravo Dome CO2 Plant	2012

Pool	Formation	Unit
N/A	Tubb	BDCDGU

Completion Date	Total Depth	Plug Back Depth	Elevation	Farm or Lease Name
6/3/98	2320	2307	4665 KB	Bravo Dome

Csg. Size	Wt.	Csg. Inside Dia	Set At	Perforations		Well Number
5.50	14.0	5.012	2315	From 2100	To 2250	1935-192-L

Tbg. Size	Wt.	Tbg. Inside Dia	Set At.	Perforations		Unit Sec. Twp. Rge.
3.50	FG	2.95	2095	From n/a	To n/a	SEC. 19. T-19. R-35

Type well -Single-Bradenhead-G.G. or G.O. Multiple	Packer Set At	County
Single	2087	Union

Producing Through	Reservoir Temp, F	Mean Annual Temp, F	Baro. Press. - PSIA	State
Tubing	95	60	12.2	New Mexico

Flow Channel, L	Depth, H	Gg	%CO2	%N2	%H2S		Prover	Meter Run	Taps
2307	2307	1.519	100	0	0		ORIFICE	4 inch	FLANGE

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI						170				24 hour
1.						168				60 MIN
2.						159				60 MIN
3.						145				60 MIN
4.						21				60 MIN
5.						0				

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hours)	$\sqrt{hw * Pm}$	Pressure Pm	Flow Temp. Factor, Ft	Gravity Factor, Fg	Super Compressibility Factor, Fpv	Rate of Flow Q, Mcfd Values	Log(10)
SI							0	
1.							410	2.6128
2.							860	2.9345
3.							1476	3.1691
4.							2050	3.3118
5.							4482	AOF

NO.	Pr	Temp. °R	Tr	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio	N/A Mcf/bbl
A. P. I. Gravity of Liquid Hydrocarbon	N/A Deg.
Specific Gravity Separator Gas	N/A
Specific Gravity Flowing Fluid	1.5192
Critical Pressure	1072 P.S.I.A.
Critical Temperature	548 R

Pc = 211.3438 Pc^2 = 44,666

NO.	Pt^2	Pw	Pw^2	Pc^2 - Pw^2	Pc^2 - Pw^2 Log(10)
SI		211.3	44,666	0	
1.		210.0	44,091	575	2.7595
2.		203.2	41,296	3,370	3.5277
3.		197.0	38,828	5,838	3.7663
4.		184.1	33,906	10,761	4.0318
5.					

(1) $\frac{Pc^2}{Pc^2 - Pw^2}$ 4th test point: 4.151

(2) $\frac{|Pc^2|}{|Pc^2-Pw^2|}^{n}$ 4th test point: 2.186

4th test point: $Q = \frac{|P^2|}{|Pc^2-Pw^2|}^{n}$ 4,482 = AOF

Absolute Open Flow 4,482 Mcfd @ 15.025 — Angle of Slope 61.21 — Slope, n = 0.550 (Cotangent)

Remarks:

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