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	9/16/96	30-059-20349

Company	Connection	RTU Number
Amoco Corporation	Bravo Dome CO2 Plant	5107

Pool	Formation	Unit
N/A	Tubb	BDCDGU

Completion Date	Total Depth	Plug Back Depth	Elevation	Farm or Lease Name
9/15/96	2366'	2356'	4822.50'	Bravo Dome

Csg. Size	Wt.	Csg. Inside Dia	Set At	Perforations		Well Number
5 1/2	15.5#	4.75	2366'	From 2227'	To 2354'	2134-132P

Tbg. Size	Wt	Tbg. Inside Dia	Set At.	Perforations		Unit Sec. Twp. Rge.
x	x	x	x	From n/a	To n/a	sec 13,T-21N,R-34E

Type well -Single-Bradenhead-G.G. or G.O. Multiple	Packer Set At	County
Single	n/a	UNION

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

Flow Channel, I	Depth, H	Gg	%CO2	%N2	%H2S		Prover	Meter Run	Taps
2356'	2356'	1.5192	100	0	0		ORIFICE	4 inch	FLANGE

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Size	X	Stat. Pres psig	Diff.Press. Hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						277				24 hour
1.						251				60 MIN
2.						223				60 MIN
3.						197				60 MIN
4.						170				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.							1897	3.2781
2.							2613	3.4171
3.							3216	3.5073
4.							3705	3.5688
5.							4845	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 Hydrocarbons	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 289.2 Pc^2 83,637

NO.	Pt^2	Pw	Pw^2	Pc^2 - Pw^2	Pc^2 - Pw^2 Log(10)
SI		289.2	83,637	0	
1.		263.2	69,274	14,362	4.1572
2.		235.2	55,319	28,318	4.4521
3.		209.2	43,765	39,872	4.6007
4.		182.2	33,197	50,440	4.7028
5.					

(1) Pc^2 / (Pc^2 - Pw^2) — 4th test point 1.658

(2) (Pc^2 / Pc^2-Pw^2 |)^n — 4th test point 1.308

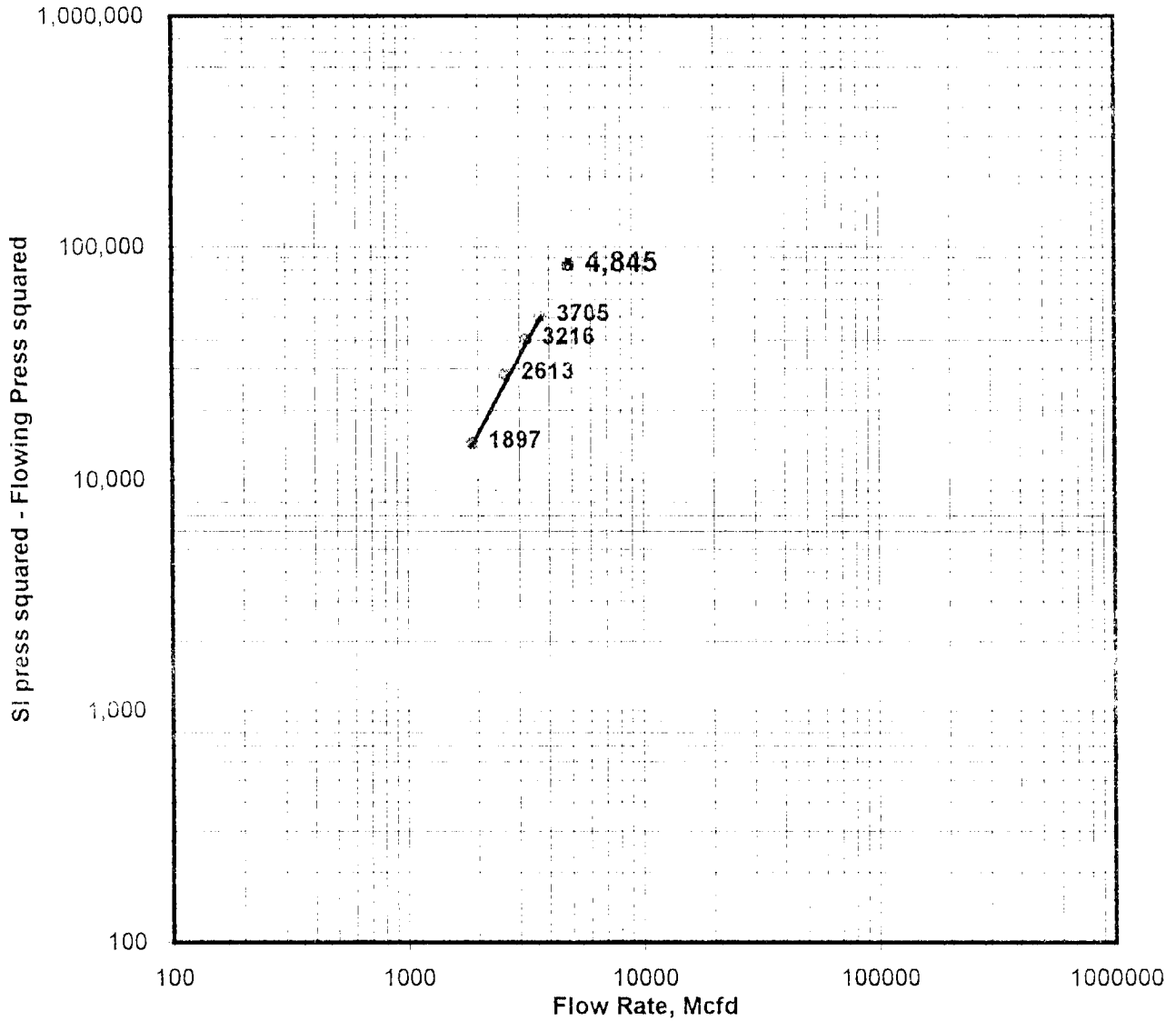
Q = (P^2 / |Pc^2-Pw^2|)^n = 4,845 = AOF

Absolute Open Flow	4,845	Mcfd @ 15.025	Angle of Slope	62.05	Slope, n =	0.531 (Cotangent)

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bill Prichard	Automation Software	Gary Ford, Bill Prichard

GAS WELL BACK PRESSURE TEST - ABSOLUTE OPEN FLOW



GAS WELL BACK PRESSURE TEST INFLOW PERFOMANCE