EW MEXICO OIL CONSERVATION CO SSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10/27/87	
Company: BTA OIL PRODUCERS		Connection: El Paso Natural Gas			
Pool: Pitchfork Ranch		Formation: Morrow		Unit	
Completion Date: 7-28-87	Total Depth: 15,142	Plug Back TD: 15,114	Elevation: 3468' GR	Farm or Lease Name: Madera, 8706 JV-P Com	
Csg. Size: 5" / Wt.: 23.2 / d: 4.044 / Set At: 15,140	Perforations: From 14,934 To 15,014			Well No.: 1	
Tbg. Size: 2-7/8 / Wt.: 6.5 / d: 2.441 / Set At: 14,700	Perforations: From To			Unit: E / Sec.: 27 / Twp.: 24-S / Rge.: 34-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 14,700'		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 200 @ 14,700	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
14,700	14,700	0.583	0.59	0.18	0.0		4.026	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	4.026" X 1.5000"					80°	Pkr.	80°	SI 5 Hrs
1.	4.026" X 1.5000"	755	10.5	101	5325	75°	Pkr.		60 min
2.	4.026" X 1.5000"	773	25.0	90	4800	77°	Pkr.		60 min
3.	4.026" X 1.5000"	802	48.0	89	4215	80°	Pkr.		60 min
4.	4.026" X 1.5000"	825	74.5	83	3590	85°	Pkr.		60 min
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	10.84	89.81	768.2	0.9628	1.310	1.046	1284
2.	10.84	140.20	786.2	0.9723	1.310	1.139	2205
3.	10.84	197.81	815.2	0.9732	1.310	1.041	2846
4.	10.84	249.89	838.2	0.9786	1.310	1.059	3677
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	1.14	561	1.60	0.914
2.	1.17	550	1.57	0.926
3.	1.21	549	1.57	0.923
4.	1.25	543	1.55	0.893
5.				

Gas Liquid Hydrocarbon Ratio 674 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 46 Deg.
Specific Gravity Separator Gas 0.583 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature 350 R ____ R

P_f 7584.8 P_f^2 57530

NO	P_c	P_s	P_s^2	$P_f^2 - P_s^2$
1		7051.2	49719	7811
2		6452.2	41631	15899
3		5777.2	33376	24154
4		4993.2	24932	32598
5				

(1) $\frac{P_f^2}{P_f^2 - P_s^2} = 7.365$ (2) $\left[\frac{P_f^2}{P_f^2 - P_s^2}\right]^n = 4.236$

AOF = Q $\left[\frac{P_f^2}{P_f^2 - P_s^2}\right]^n = 5330$

Absolute Open Flow 5330 Mcfd @ 15.025 Angle of Slope θ 35.89° Slope, n .723

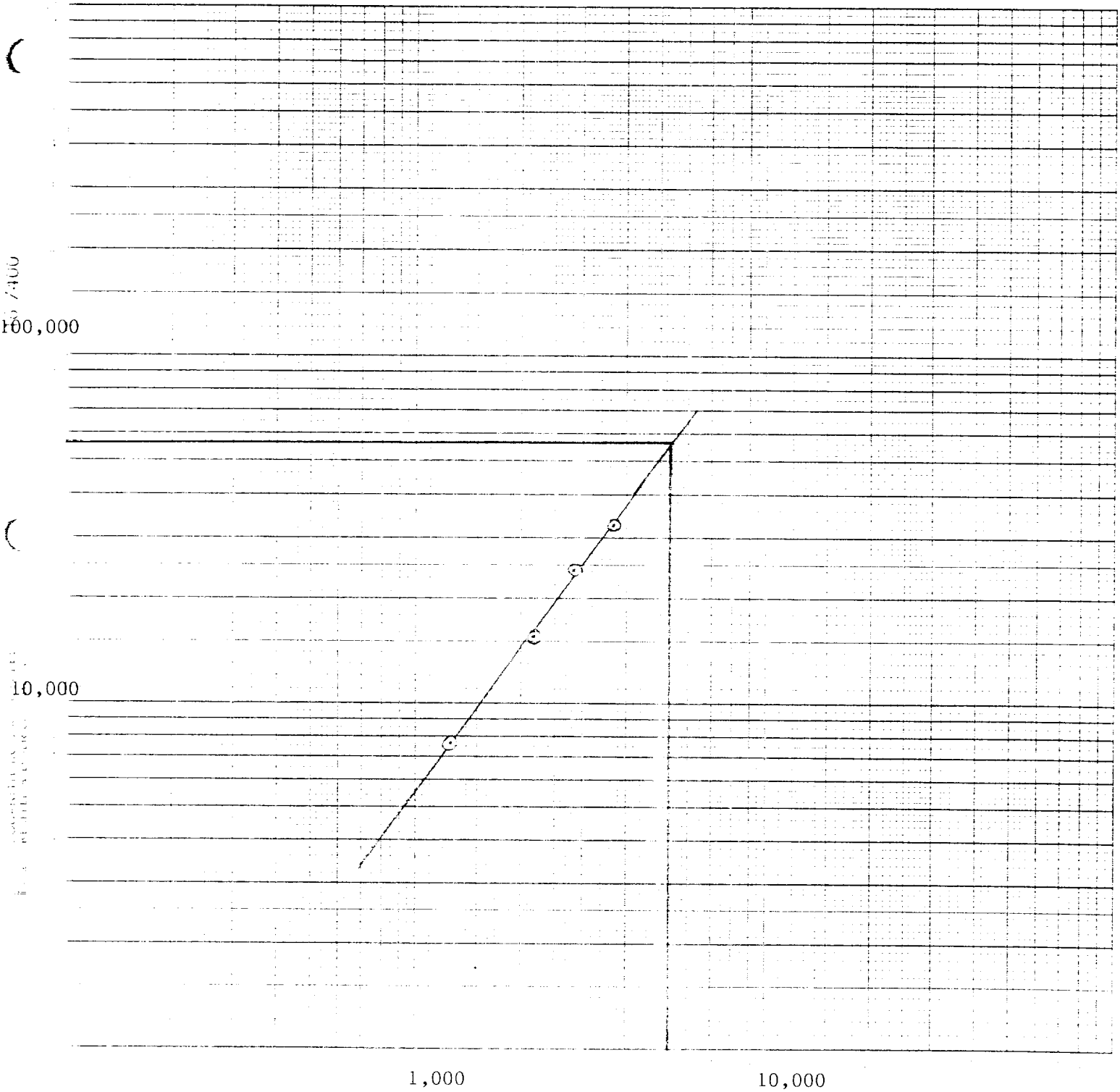
Remarks: Bottom Pressure Measured by Arc Pressure Data Inc.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
NOV 25 1987	BTA OIL PRODUCERS	T. J. WILLIAMS	

BTA OIL PRODUCERS

Madera #1, 8706 JV-P

10/27/87



Absolute Open Flow = 5330 MCFD

n = .723

θ = 35.89°