STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

cist File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: 4 POINT [X] Initial [ ] Annual [ ] Special			Test Date: RECEIVED 8-22-88	1970 FNL
Company: EXXON USA			Connection: TO AIR	660 FWL
Pool: ~~BURTON FLAT~~ UND. MORROW			Formation: MORROW SEP 14 '88	Unit
Completion Date: 8-19-88	Total Depth		Plug Back TD: 11421 O. C. D. ARTESIA, OFFICE	Elevation
Farm or Lease Name: BURTON FLAT FED. COM				
Csg. Size: 5.5 / Wt.: 17.0 / d: 4.892 / Set At: 11421			Perforations: From 11032 To 11356	Well No.: 1
Tbg. Size: 2.875 / Wt.: 6.5 / d: 2.441 / Set At: 10973			Perforations: From OPEN To ENDED	Unit: E / Sec.: 1 / Twp.: 21S / Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 10973	County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 218 @ 11194	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
11194	11194	0.613	0.44	2.19	Ø	Ø	4.026	FLNG.

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	BHP DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2394	83	3243	218	72 +
1.	4.026		1.250	370	9.0	96	2315	88	3148	218	1.0
2.	4.026		1.250	370	30.0	80	2280	87	3051	218	1.0
3.	4.026		1.250	390	68.0	74	2218	87	2944	218	1.0
4.	4.026		1.250	390	82.0	72	2082	87	2784	218	1.0
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	7.47	58.73	383.2	0.9671	1.2772	1.0259	556
2.	7.47	107.22	383.2	0.9813	1.2772	1.0290	1033
3	7.47	165.58	403.2	0.9868	1.2772	1.0317	1608
4.	10.84	181.83	403.2	0.9887	1.2772	1.0322	2570
5.							

NO.	P_t	Temp. °R	T_t	Z
1	0.57	556	1.56	.950
2.	0.57	540	1.52	.944
3.	0.60	534	1.50	.940
4.	0.60	532	1.49	.939
5				

Gas Liquid Hydrocarbon Ratio 240.3 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 53.3 Deg.
Specific Gravity Separator Gas .613 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .613
Critical Pressure 670 P.S.I.A. 670 P.S.I.A.
Critical Temperature 356 R 356 R

P_c 2522.9 P_c^2 6365

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		2447	5988	377
2		2371	5621	744
3		2286	5227	1138
4		2162	4675	1690
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.7668$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.7668$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 9697$

Absolute Open Flow 9697 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1.000

Remarks: BHP W/AMERADA BOMBS

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Steve Ripley	Richard Townley	