Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Departme.

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: EXXON USA						Lease or Unit Name: F. F. HARDISON B				
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 8-14-95		Well No.: 5		
Completion Date: 7-13-95		Total Depth: 6607		Plug Back TD: 6180		Elevation:		Unit Ltr. - Sec. - TWP - Rge.: G-34-21-37		
Csg. Size: 5½	Wt.: 15.5	d:	Set At: 6607	Perforations: From: 5988	To: 6154			County: LEA		
Tbg. Size: 2-3/8	Wt.: 4.7	d: 1.995	Set At: 5934	Perforations: From:	To:			Pool: Tubb Oil & Gas		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single				Packer Set At: 5934				Formation: TUBB		
Producing Thru: TBG	Reservoir Temp. °F	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2				Connection: SALES		
L: 5934	H: 5934	Gg: .697	% CO_2: .10	% N_2: 2.26	% H_2S:	Prover:		Meter Run: 4.026		Taps: FLG

	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					368		PKR		24 hr.
1.	4 X .625	59	10.20	66	366		"		45 min
2.	4 X .625	59	23.00	66	362		"		45 min
3.	4 X .625	60	64.00	67	356		"		45 min
4.	4 X .625	60	96.00	67	345		"		45 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, F pv.	Rate of Flow Q, Mcfd
1.	1.845	27.14	72.2	.9943	1.198	1.009	60
2.	1.845	40.75	72.2	.9943	1.198	1.009	90
3.	1.845	68.45	73.2	.9933	1.198	1.009	152
4.	1.845	83.83	73.2	.9933	1.198	1.009	186
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.10	526	1.37	.982
2.	.10	526	1.37	.982
3.	.10	527	1.37	.982
4.	.10	527	1.37	.982
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .697 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: *666 P.S.I.A. P.S.I.A.
Critical Temperature: *382 R R

P_c 381.2 P_c^2 145.3

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		379.3	143.9	1.4
2.		375.4	141.0	4.4
3.		369.9	136.8	8.5
4.		359.3	129.1	16.2
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 101.027 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 10.051

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = .603

Absolute Open Flow 603 Mcfd @ 15.025 Angle of Slope θ 63.5 Slope, n .500

Remarks: *=CORRECTED TO 2.26% N^2

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTERS	BM	BM