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

Energy, Minerals and Natural Resources Department

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: MARATHON OIL CO.		Lease or Unit Name: J. GARVIN 22 ST	
Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 7/30/98	Well No.: 1
Completion Date: 7-18-98	Total Depth: 11,085'	Plug Back TD: 11,081'	Elevation: 3586'
Unit Ltr. - Sec. - TWP - Rge.: O - 22 - 18S - 28E			

Csg. Size	Wt.	d	Set At	Perforations:		County
5½	20#	4.778	11,085'	From:	To:	EDDY

Tbg. Size	Wt.	d	Set At	Perforations:		Pool
2-7/8	6.5	2.441	10628	From: 10817	To: 10877	North Turkey Track-Morrow

Type Well - Single - Bradenhead - G.G. or G.O. Multiple	Packer Set At	Formation
single	10628	MORROW

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press - P_a	Connection
TBG	172.98	60°	13.2	SALES

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10643	10643	.634	.563	.369	N/A	N/A	4.026	FLG

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.	TUBING DATA: Temp. °F	CASING DATA: Press. p.s.i.g.	CASING DATA: Temp. °F	Duration of Flow
SI					3220		pkr	N/a	
1.	4.026 X 2.000	270	2"	94°	3200	94°	"	"	45min
2.	4.026 X 2.000	275	7"	60°	3165	98°	"	"	45min
3.	4.026 X 2.000	275	36"	58°	3070	98°	"	"	60min
4.	4.026 X 2.000	280	94"	60°	2930	96°	"	"	60min
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.	19.81	23.79	283.2	.9688	1.256	1.042	597
2.	19.81	44.91	288.2	1.000	1.256	1.050	1173
3.	19.81	101.85	288.2	1.002	1.256	1.049	2663
4.	19.81	166.01	293.2	1.000	1.256	1.050	4337
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.82	554	1.52	.921
2.	.77	520	1.42	.907
3.	.76	518	1.42	.908
4.	.77	520	1.42	.907
5.				

Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons N/A Deg.
Specific Gravity Separator Gas .634 XXXXXXXXX
Specific Gravity Flowing Fluid N/A XXXXX
Critical Pressure 673 P.S.I.A. P.S.I.A.
Critical Temperature 364 R R

P_c 3335.1 P_c^2 11,122.9

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		3245.5	10533.3	589.6
2.		3181.9	10124.5	998.4
3.		3133.0	9815.7	1307.2
4.		3122.6	9750.6	1372.3
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 8.1$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8.1$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 35129.7$

Absolute Open Flow 35129.7 Mcfd @ 15.025 | Angle of Slope θ 45° | Slope, n 1.000

Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRFSSURES
* NO FLUID MADE DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	MB	BM