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

State of New Mexico
Energy, Minerals and Natural Resources Dep.. ment

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 COMPANY					Lease or Unit Name: LEA UNIT		
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 6-23-95	Well No.: 17	
Completion Date: 6-12-95	Total Depth: 14456		Plug Back TD: 14265		Elevation	Unit Ltr. - Sec. - TWP - Rge.: O-13-20S-34E	
Csg. Size: 7"	Wt.: 26#	d: 6.276	Set At: 14353	Perforations: From: 13053 To: 13063		County: LEA	
Tbg. Size: 2-7/8"	Wt.: 6.5	d: 2.441	Set At: 12900'	Perforations: From: To:		Pool: LEA-PENN	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE			Packer Set At: 12187			Formation: MORROW	
Producing Thru: TBG	Reservoir Temp. °F: 181	Mean Annual Temp. °F: 60	Baro, Press - P_a: 13.2			Connection: PIPELINE	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13053	13053	.740	.32	.56			2.067	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					2030				
1.	2.067 X 1.500	22	8	110	1565		pkr.		1 hr.
2.	2.067 X 1.500	24	22	105	1185		"		1 hr.
3.	2.067 X 1.500	33	33	86	965		"		1 hr.
4.	2.067 X 1.500	35	40	74	650		"		1 hr.
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.	12.76	16.78	35.2	.9551	1.162	1.005	239
2.	12.76	28.61	37.2	.9594	1.162	1.005	409
3.	12.76	40.21	46.2	.9759	1.162	1.005	585
4.	12.76	43.91	48.2	.9868	1.162	1.005	646
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.05	570	1.41	.990
2.	.06	565	1.40	.991
3.	.07	546	1.35	.990
4.	.07	534	1.32	.990
5.				

Gas Liquid Hydrocarbon Ratio: DRY Mcf/bbl.
A.P. I Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .740 XXXXXXXXX
Specific Gravity Flowing Fluid: DRY XXXXX
Critical Pressure: 667 P.S.I.A. _____ P.S.I.A.
Critical Temperature: 405 R _____ R

P_c 2043.2 P_c^2 4174.7

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	2490.7	1578.4	2491.4	1683.3
2.	1435.7	1199.1	1437.8	2736.8
3.	956.9	980.6	961.5	3213.2
4.	439.8	667.8	446.0	3728.6
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.120$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.079$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 697$

Absolute Open Flow: 697 Mcfd @ 15.025 | Angle of Slope θ: 56° | Slope, n: .67560

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTER GB	KS	BM