

○ COMPANY : MACK ENERGY LEASE : M.C. FED WELL NO. : 1 Pc = 3433.2 Pc2 = 11786.9 *
 UNIT : SECTION : TOWNSHIP : 17 Pt2 = ***** Pw = 3423.2 *
 L : 14726 H : 14726 L/H : 1 G/GMIX : ***** 3333.2 *
 %CO2 : 1.581 %N2 : 4.795 H2S : DATE : 10/20/99 9322.0 3053.2 *
 d : 2.441 Fr : 0.010763 GH : 0.0 RANGE : 32 8095.2 2845.2 *

VOL 1 : 163 PSIA 1 : 3423.2 RESV.TEMP 221.3 Pc2-Pw2= 68.6 Pw2 = 11718.3 *
 VOL 2 : 360 PSIA 2 : 3333.2 676.6 11110.2 *
 VOL 3 : 847 PSIA 3 : 3053.2 SHUT-IN PR= 3433.2 2464.8 9322.0 *
 VOL 4 : 1422 PSIA 4 : 2845.2 3691.7 8095.2 *
 PCR : 664 n = 0.570 *
 TCR : 367 *

LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	
1 QM	0.163	0.163	0.360	0.360	0.847	0.847	1.422	1.422	
2 TW	534	534	534	534	534	534	534	534	[Pc2/Pc2-Pw2]n = 18.808
3 Ts	681.3	681.3	681.3	681.3	681.3	681.3	681.3	681.3	5.099
4 T	607.6	607.6	607.6	607.6	607.6	607.6	607.6	607.6	2.440
PR (est)	5.16		5.02		4.60		4.28		1.938
5 Z(est)	0.856	0.856	0.851	0.851	0.840	0.840	0.833	0.833	
6 TZ	519.9	519.9	517.3	517.3	510.2	510.2	506.2	506.2	AOF= Q 3.066
7 GH/TZ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.836
8 eS	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.067
9 l-e-S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.756
10 Pt	3423.2	3423.2	3333.2	3333.2	3053.2	3053.2	2845.2	2845.2	
11 Pt2 /1000	11718.3	11718.3	11110.2	11110.2	9322.0	9322.0	8095.2	8095.2	
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631	
13 Fc=FrTZ	5.596	5.596	5.568	5.568	5.492	5.492	5.448	5.448	
14 FcQm	0.91	0.91	2.00	2.00	4.65	4.65	7.75	7.75	
15 L/H(FcQm)	0.8	0.8	4.0	4.0	21.6	21.6	60.0	60.0	
16 Fw	0	0	0	0	0	0	0	0	
17 Pw2	11718.3	11718.3	11110.2	11110.2	9322.0	9322.0	8095.2	8095.2	
18 Ps2	11718.3	11718.3	11110.2	11110.2	9322.0	9322.0	8095.2	8095.2	
19 Ps	3423.2	3423.2	3333.2	3333.2	3053.2	3053.2	2845.2	2845.2	
20 P	3423.2	3423.2	3333.2	3333.2	3053.2	3053.2	2845.2	2845.2	
21 Pr	5.16	5.16	5.02	5.02	4.60	4.60	4.28	4.28	
22 Tr	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	
23 Z	0.856	0.856	0.851	0.851	0.840	0.840	0.833	0.833	FORM C122-D