COMPANY : UMC OCEAN ENERGY LEASE "UGART 28 WELL NO. : 1

UNIT : SECTION : TOWNSHIP :

L : 11676 H : 11676 L/H : 1 G/GMIX : 0.754

%CO2 : 0.518 %N2 : 0.512 H2S : DATE :6 19 98

d : 2.441 Fr :0.010763 GH : 8803.7 RANGE :

VOL 1 : 722 PSIA 1 : 2113.2 RESV.TEMP 178.1

VOL 2 : 1193 PSIA 2 : 1983.2

VOL 3 : 1870 PSIA 3 : 1823.2 SHUT-IN PR= 2290.2

VOL 4 : 2487 PSIA 4 : 1661.2

PCR : 667

TCR : 408

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.722	0.722	1.193	1.193	1.870	1.870	2.487	2.487
2 TW	534	534	534	534	534	534	534	534
3 Ts	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1
4 T	586.1	586.1	586.1	586.1	586.1	586.1	586.1	586.1
PR (est)	3.17		2.97		2.73		2.49	
5 Z(est)	0.716	0.722	0.719	0.717	0.725	0.715	0.736	0.716
6 TZ	419.3	423.2	421.1	420.3	425.1	418.8	431.2	419.8
7 GH/TZ	20.995	20.804	20.908	20.945	20.712	21.021	20.416	20.970
8 eS	2.197	2.182	2.190	2.193	2.174	2.200	2.150	2.195
9 1-e-S	0.545	0.542	0.543	0.544	0.540	0.545	0.535	0.544
0 Pt	2113.2	2113.2	1983.2	1983.2	1823.2	1823.2	1661.2	1661.2
1 Pt2 /1000	4465.6	4465.6	3933.1	3933.1	3324.1	3324.1	2759.6	2759.6
2 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631
3 Fc=FrTZ	4.513	4.555	4.532	4.524	4.575	4.508	4.641	4.519
4 FcQm	3.26	3.29	5.41	5.40	8.56	8.43	11.54	11.24
5 L/H(FcQm)	10.6	10.8	29.2	29.1	73.2	71.1	133.2	126.3
6 Pw	5.786145	5.857576	15.88666	15.84894	39.52784	38.75083	71.27179	68.766887
7 Pw2	4471.4	4471.5	3949.0	3948.9	3363.6	3362.8	2830.9	2828.4
8 Ps2	9825.9	9755.8	8649.4	8661.3	7313.4	7396.9	6087.2	6209.3
9 Ps	3134.6	3123.4	2941.0	2943.0	2704.3	2719.7	2467.2	2491.8
0 P	2623.9	2618.3	2462.1	2463.1	2263.8	2271.5	2064.2	2076.5
1 Pr	3.93	3.93	3.69	3.69	3.39	3.41	3.09	3.11
2 Tr	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
3 Z	0.722	0.722	0.717	0.717	0.715	0.715	0.716	0.716

Pc = 2290.2 Pc2 = 5245.0

Pt2 = 4465.6 Pw = 2114.6
3933.1 1987.2
3324.1 1833.8
2759.6 1681.8

Pc2-Pw2= 773.5 Pw2 = 4471.5
1296.1 3948.9
1882.2 3362.8
2416.7 2828.4

n = 1.000

Pc2/(Pc2-Pw2) = 6.780
4.047
2.787
2.170

[Pc2/Pc2-Pw2]n = 6.780
4.047
2.787
2.170

AOF= Q 4.896
4.828
5.211
5.398

FORM C122-D