0 COMPANY :CHI OPERATING INC. LEASE :MIDNITE SPECIAL WELL NO. : 1

UNIT : SECTION : TOWNSHIP : 17

L : 9769 H : 9769 L/H : 1 G/GMIX : 0.637

%CO2 : 0.536 %N2 : 0.483 H2S : DATE :1/25/00

d : 2.441 Fr :0.010763 GH : 6222.9 RANGE : 28

VOL 1 : 1146 PSIA 1 : 2138.2 RESV.TEMP 171.7

VOL 2 : 2354 PSIA 2 : 2013.2

VOL 3 : 3768 PSIA 3 : 1963.2 SHUT-IN PR= 2213.2

VOL 4 : 5227 PSIA 4 : 1888.2

PCR : 673

TCR : 364

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	`1ST	`2ND	`1ST	``2ND	`1ST	`2ND	`1ST	`2ND
1 QM	1.146	1.146	2.354	2.354	3.768	3.768	5.227	5.227
2 TW	534	534	534	534	534	534	534	534
3 Ts	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
4 T	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8
PR (est)	3.18		2.99		2.92		2.81	
5 Z(est)	0.805	0.804	0.808	0.803	0.809	0.804	0.811	0.804
6 TZ	469.3	468.4	470.7	468.3	471.5	468.4	472.9	468.8
7 GH/TZ	13.261	13.286	13.220	13.288	13.198	13.284	13.160	13.274
8 eS	1.644	1.646	1.642	1.646	1.640	1.646	1.638	1.645
9 1-e-S	0.392	0.392	0.391	0.392	0.390	0.392	0.390	0.392
10 Pt	2138.2	2138.2	2013.2	2013.2	1963.2	1963.2	1888.2	1888.2
11 Pt2 /1000	4571.9	4571.9	4053.0	4053.0	3854.2	3854.2	3565.3	3565.3
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631
13 Fc=FrTZ	5.051	5.041	5.067	5.040	5.075	5.042	5.090	5.046
14 FcQm	5.79	5.78	11.93	11.87	19.12	19.00	26.60	26.37
15 L/H(FcQm)	33.5	33.4	142.2	140.8	365.7	360.9	707.7	695.6
16 Pw	13.12689	13.09599	55.59977	55.24922	142.7440	141.6091	275.6638	272.74712
17 Pw2	4585.0	4585.0	4108.6	4108.2	3996.9	3995.8	3841.0	3838.0
18 Ps2	7538.9	7546.1	6745.1	6761.8	6556.4	6575.7	6291.6	6313.9
19 Ps	2745.7	2747.0	2597.1	2600.3	2560.5	2564.3	2508.3	2512.7
20 P	2442.0	2442.6	2305.2	2306.8	2261.9	2263.8	2198.3	2200.5
21 Pr	3.63	3.63	3.43	3.43	3.36	3.36	3.27	3.27
22 Tr	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
23 Z	0.804	0.804	0.803	0.803	0.804	0.804	0.804	0.804

Pc = 2213.2 Pc2 = 4898.3 *

Pt2 = 4571.9 Pw = 2141.3 *
4053.0 2026.9 *
3854.2 1998.9 *
3565.3 1959.1 *

Pc2-Pw2= 313.3 Pw2 = 4585.0 *
790.0 4108.2 *
902.5 3995.8 *
1060.2 3838.0 *

n = 1.000 *

Pc2/(Pc2-Pw2) = 15.636 *
6.200 *
5.427 *
4.620 *

[Pc2/Pc2-Pw2]n = 15.636 *
6.200 *
5.427 *
4.620 *

AOF= Q 17.919 *
14.595 *
20.451 *
24.149 *

FORM C122-D *