

COMPANY :PENWELL ENERGY LEASE :TOMCAT FED COM WELL NO. : #1
 UNIT :F SECTION 21 TOWNSHIP : 23
 L : 14350 H : 14350 L/H : 1 6/GNIX : 0.588
 XCO2 : 0.66 XN2 : 0.91 H2S : DATE :7/3/97
 d : 1.995 Fr :0.018231 GH : 8437.8 RANGE : 32

Pc = 2253.2 Pc2 = 5076.9
 Pt2 = 3952.9 Pw = 2010.7
 3456.6 1934.7
 2538.3 1783.4
 2111.8 1773.1
 RESV.TEMP 217.5
 SHUT-IN PR= 2253.2
 Pw2 = 4043.0
 1333.7 3743.2
 1896.6 3180.3
 1932.9 3144.0

PCR : 675
 TCR : 346

n = 1.000

Pc2/(Pc2-Pw2) = 4.910
 3.807
 2.677
 2.627

[Pc2/(Pc2-Pw2)]n = 4.910
 3.807
 2.677
 2.627

AOF= Q 7.282
 10.069
 10.579
 13.149

LINE		RATE 1		RATE 2		RATE 3		RATE 4	
		1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1	QM	1.483	1.483	2.645	2.645	3.952	3.952	5.006	5.006
2	TW	534	534	534	534	534	534	534	534
3	Ts	677.5	677.5	677.5	677.5	677.5	677.5	677.5	677.5
4	T	605.8	605.8	605.8	605.8	605.8	605.8	605.8	605.8
	PR (est)	2.95		2.75		2.36		2.15	
5	Z(est)	0.861	0.858	0.863	0.858	0.871	0.861	0.877	0.862
6	TZ	521.5	519.9	523.0	520.0	527.7	521.4	531.0	522.2
7	GH/TZ	16.179	16.229	16.132	16.226	15.990	16.183	15.892	16.158
8	eS	1.834	1.838	1.831	1.838	1.821	1.835	1.815	1.833
9	1-e-S	0.455	0.456	0.454	0.456	0.451	0.455	0.449	0.454
10	Pt	1988.2	1988.2	1859.2	1859.2	1593.2	1593.2	1453.2	1453.2
11	Pt2 /1000	3952.9	3952.9	3456.6	3456.6	2538.3	2538.3	2111.8	2111.8
12	Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231
13	Fc=FrTZ	9.508	9.479	9.536	9.480	9.620	9.506	9.680	9.521
14	FcQm	14.10	14.06	25.22	25.08	38.02	37.57	48.46	47.66
15	L/H(FcQm)	198.8	197.6	636.1	628.8	1445.5	1411.3	2348.1	2271.5
16	Fw	90.43919	90.08115	288.7463	286.6187	651.8974	642.0514	1054.206	1032.2147
17	Pw2	4043.4	4043.0	3745.4	3743.2	3190.2	3180.3	3166.0	3144.0
18	Ps2	7417.0	7430.4	6858.4	6878.7	5810.7	5834.8	5745.5	5762.7
19	Ps	2723.4	2725.9	2618.9	2622.7	2410.5	2415.5	2397.0	2400.6
20	P	2355.8	2357.0	2239.0	2241.0	2001.9	2004.4	1925.1	1926.9
21	Pr	3.49	3.49	3.32	3.32	2.97	2.97	2.85	2.85
22	Tr	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
23	Z	0.858	0.858	0.858	0.858	0.861	0.861	0.862	0.862

FORM C122-D