

COMPANY : PHILLIPS PETRO. CO. LEASE : CACH 31 STATE WELL NO. : 1
UNIT : I SECTION 31 TOWNSHIP : 17
L : 13120 H : 13120 L/H : 1 G/GMIX : 0.882
%CO2 : 0.579 %N2 : 0.656 H2S : DATE : 1-31-02
d : 2.441 Fr : 0.010763 GH : 11571.8 RANGE : 34

Pc = 2848.2 Pc2 = 8112.2
Pt2 = 4162.4 Pw = 2041.9
2860.2 1696.2
1820.3 1361.7
705.9 875.0

VOL 1 : 754 PSIA 1 : 2040.2 RESV.TEMP 205.2
VOL 2 : 1212 PSIA 2 : 1691.2
VOL 3 : 1717 PSIA 3 : 1349.2 SHUT-IN PR= 2848.2
VOL 4 : 2066 PSIA 4 : 840.2

Pc2-Pw2= 3942.8 Pw2 = 4169.5
5235.1 2877.2
6257.9 1854.4
7346.7 765.5

PCR : 663
TCR : 451

n = 1.000

Pc2/(Pc2-Pw2) = 2.058
1.550
1.296
1.104

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.754	0.754	1.212	1.212	1.717	1.717	2.066	2.066
2 Tw	534	534	534	534	534	534	534	534
3 Ts	665.2	665.2	665.2	665.2	665.2	665.2	665.2	665.2
4 T	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6
PR (est)	3.08		2.55		2.03		1.27	
5 Z(est)	0.635	0.673	0.648	0.641	0.688	0.639	0.789	0.730
6 TZ	380.6	403.4	383.3	384.2	412.5	383.4	472.8	437.8
7 GH/TZ	30.407	28.688	29.901	30.123	28.050	30.183	24.474	26.431
8 eS	3.128	2.932	3.057	3.094	2.863	3.101	2.504	2.694
9 l-e-S	0.680	0.659	0.673	0.677	0.651	0.678	0.601	0.629
10 Pt	2040.2	2040.2	1691.2	1691.2	1349.2	1349.2	840.2	840.2
11 Pt2 /1000	4162.4	4162.4	2860.2	2860.2	1820.3	1820.3	705.9	705.9
12 Pr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763
13 Fc=FrTZ	4.096	4.341	4.179	4.135	4.440	4.126	5.089	4.712
14 FcQm	3.09	3.27	5.07	5.01	7.62	7.09	10.51	9.74
15 L/H(FcQm)	9.5	10.7	25.7	25.1	58.1	50.2	110.5	94.8
16 Pw	6.488599	7.061255	17.26605	16.99726	37.82235	34.01374	66.39090	59.602255
17 Pw2	4168.9	4169.5	2877.4	2877.2	1858.2	1854.4	772.3	765.5
18 Ps2	13038.7	12226.5	8797.1	8903.2	5320.0	5751.1	1933.7	2062.6
19 Ps	3610.9	3496.6	2966.0	2983.8	2306.5	2398.1	1390.6	1436.2
20 P	2825.6	2768.4	2328.6	2337.5	1827.9	1873.7	1115.4	1138.2
21 Pr	4.26	4.18	3.51	3.53	2.76	2.83	1.68	1.72
22 Tr	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
23 Z	0.673	0.668	0.641	0.641	0.639	0.638	0.730	0.726

[Pc2/Pc2-Pw2]n = 2.058
1.550
1.296
1.104

AOF= Q 1.551
1.878
2.226
2.281

FORM C122-D