COMPANY YPC LEASE Willow Creek Unit WELL NO. 2 DATE Dec 18 - 80

LOCATION: Unit L Section 31 Township 4S Range 25E

L 3765 H 3765 L/H 1.000 G 0.676 % CO_2 7.08 % N_2 5.12 % H_2S Nil

d 2.0149 F_r 0.01625 GH 2504.6 P_{cr} 697 (TABLE IX & X) T_{cr} 359.5 (TABLE IX & X)

0.21% H_2O

LINE	S1	1	2	3	4						
1 Q_m		0.170	0.228	0.298	0.398						
2 T_w (W.H. °R)	523	524	526	522	530						
3 T_s (B.H. °R)	556	555	554	555	552						
4 $T = (\frac{T_w + T_s}{2})$	539.5	539.5	540	540.3	541						
5 Z (Est.)	0.8652	0.874	0.8795	0.9075	0.9425						
6 TZ	466.775	471.523	474.93	490.5[illegible]	[illegible]						
7 GH/TZ	5.3657	5.3117	5.2736	5.1062	4.[illegible]						
8 e^S (Table XIV)	1.2229	1.2204	1.2187	[illegible]	[illegible]						
9 $1-e^{-S}$ (Table XIV)		0.1806	0.1794	0.1743	[illegible]						
10 P_t	[illegible]	872.2	833.2	624.2	[illegible]						
11 $P_t^2/1000$	910.5	760.73	694.22	389.63	178.[illegible]						
12 F_r (Table XV)	0.20125	0.19919	0.19776	[illegible]	[illegible]						
13 $F_c = F_r TZ$		7.6622	7.7196	7.9207	[illegible]						
14 $F_c Q_m$		1.3026	1.7056	2.375	[illegible]						
15 $L/H (F_c Q_m)^2$		1.6967	2.909	5.642	11.875						
16 $F_w = L/H(F_c Q_m)^2(1-e^{-S})$		0.31	0.52	0.98	1.23						
17 $P_w^2 = P_t^2 + F_w$		761.04	694.74	390.61	[illegible]						
18 $P_s^2 = e^S P_w^2$	1113.4	928.8	846.7	473.03	210.51						
19 P_s	1055.2	963.7	920.2	687.8	465.3						
20 $P = (\frac{P_t + P_s}{2})$	1004.7	912.0	876.7	656.0	443.8						
21 $P_r = (P/P_{cr})$	1.4415	1.317	1.258	0.941	0.637						
22 $T_r = (T/T_{cr})$	1.5007	1.5007	1.5021	1.5035	1.5049						
23 Z (Table XI)	0.8652	0.874	[illegible]	[illegible]	0.9425						