Form C-122-E

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) ~~(P_f & P_s)~~ PRESSURE (SURFACE) (P_c & P_w)

Rate #1

COMPANY _____ LEASE _____ WELL NO. _____ DATE _____

LOCATION: UNIT _____ SECTION _____ TOWNSHIP _____ RANGE _____

14755 H 14755 L/H 1.0 G .593 % CO_2 .84 % N_2 .534 % H_2S _____

d _____ F_r _____ Q_m _____ M^2cfd (L/H) $(F_rQ_M)^2$ _____ P_{cr} 672 T_{cr} 354

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9
	H		14755	7378			0				
	GH		8750	4375			0				
	37.5GH		328114	164057			0				
	P_c or P_n		2292.5	1978.0	1974.4	1971.0	1650.1	1644.3	1638.5		
	P_r		3.41	2.94	2.94	2.93	2.44	2.45	2.44		
	T		660	591	591	591	521	521	521		
	T_r		1.86	1.67	1.67	1.67	1.47	1.47	1.47		
	Z		.906	.854	.854	.854	.780	.780	.780		
	O/Z P/Z	4÷8	2530.3	2316.1	2311.9	2308.0	2115.5	2108.0	2100.7		
	P/TZ	9÷6	3.8338	3.9223	3.9152	3.9085	4.0626	4.0482	4.0320		
	$(P/TZ)^2/1000$	$(10^2/1000$									
	$L/H(F_rQ_m)^2$										
		11÷12									
	I_n	10÷13	260.833	254.847	255.409	255.847	246.267	247.142	248		
	$M=P_n-P_{n-1}$			314	318	321	321	327	332		
	$H=I_nH_{n-1}$			521.666	515.779	510.355	511.257	502.115	493.410		
	M × H	15 × 16				163824			163812		
	$\sum(M \times H)$	$\sum$ 17				163824			327336		

$$P_c = \frac{3(328114)}{260.833+4(255.847)+248.012} = \frac{984343}{1532.233} = 642.4$$

$P = 2292.5 - 642.4 = 1650.1$