Form C-122-E

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)

(SURFACE) (P_c & P_w)

Rate = 3

COMPANY _____ LEASE _____

LOCATION: UNIT _____ SECTION _____ TOWNSHIP _____ RANGE _____ WELL NO. _____ DATE _____

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

d 1.867 F_r .018231 Q_m 2.336 M^2cfd (L/H) $(F_rQ_M)^2$ .001814 P_{cr} 672 T_{cr} 354

ITEM	SOURCE	1	2	3	4	5	6	7	8	9
H		0	7378	14755						
GH		0	4375	8750						
37.5GH		0	164053	328144						
P_c or P_n		1353.2	1362.8	1981.4						
P_r		2.01	2.48	2.95						
T		525	593	660						
T_r		1.48	1.67	1.86						
Z		.785	.866	.910						
O/Z P/Z	4÷8	1723.8	1925.9	2177.3						
P/TZ	9÷6	3.2834	3.2505	3.2990						
$(P/TZ)^2/1000$	$(10^2/1000$	.010781	.010566	.010883						
$L/H(F_rQ_m)^2$		.001814	.001814	.001814						
	11÷12	.012595	.012380	.012697						
I_n	10÷13	260.692	262.564	259.816						
$M=P_n-P_{n-1}$			315	314						
$N=I_n+I_{n-1}$			521.385	523.257						
M × N	15 × 16		164236	164303						
∑(M × N)	∑ 17		164236	328539						

$$\bar{P} = \frac{3(328114)}{260.692 + 4(262.564) + 259.816} = \frac{984343}{1570.764} = 626.6 \qquad P = 1353.2 + 626.6 = 1979.8$$