WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s)

XXXX(SURFACE)XXXXXXXXXXXXXXXX(P_c & P_w)XX

RATE NO. 4

Form C-122-E

COMPANY Mewbourne Oil Company LEASE State E. Comm. WELL NO. 1 DATE 10-13-78

LOCATION: UNIT N SECTION 6 TOWNSHIP 16S RANGE 34E

L 12482 H 12482 L/H 1.00 G 0.815 % CO_2 0.00 % N_2 0.00 % H_2S 0.00

d ___ F_r ___ Q_m ___ M^2cfd (L/H) $(F_rQ_m)^2$ ___ P_{cr} 665 T_{cr} 431

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12482	6241		0						
2	GH		10173	5086		0						
3	37.5GH		381481	190741		0						
4	P_c or P_n		2808.2	2282.6	2275.7	1744.0	1725.8	1728.6				
5	P_r		4.22	3.43	3.42	2.62	2.60	2.60				
6	T		649	591	591	532	532	532				
7	T_r		1.51	1.37	1.37	1.23	1.23	1.23				
8	Z		0.785	0.683	0.683	0.556	0.556	0.556				
9	P/Z P/Z	$\overline{4} \div \overline{8}$	3576.87	3341.01	3330.92	3136.62	3103.99	3109.05				
10	P/TZ	$\overline{9} \div \overline{6}$	5.5114	5.6579	5.6408	5.8959	5.8346	5.8441				
11	$(P/TZ^2/1000$	$(10^2/1000$										
12	$L/H(F_rQ_m)^2$											
13		$\overline{11} + \overline{12}$										
14	I_n	$\overline{10} \div \overline{13}$	181.444	176.743	177.279	169.609	171.392	171.113				
15	$M=P_n-P_{n-1}$			526	533	532	550	547	547			
16	$N=I_n+I_{n-1}$			358.186	358.722	346.888	348.671	348.392				
17	M x N	$\overline{15} \times \overline{16}$			191199			190570				
18	$\sum$(M x N)	$\sum \overline{17}$			191199			381769				

$$\text{Delta P} = \frac{3[381481]}{181.444 + 4[177.279] + 171.113} = \frac{1144443}{1061.673} = 1078.0$$

P = 2808.2 - 1078.0 = 1730.2