WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s) Form C-122-E

(SURFACE) (P_c & P_w)

RATE NO. 4

MPANY Mewborne Oil Company LEASE State E Com WELL NO. 1 DATE May 13, 1977

CATION: UNIT SECTION 6 TOWNSHIP 16S RANGE 34E

12915 H 12915 L/H 1.00 G 0.920 % 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} 662 T_{cr} 464

NE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12915	6458		0						
2	GH		11882	5941		0						
3	37.5GH		445568	222784		0						
4	P_c or P_n		4009.2	3183.4	3170.5	2332.2	2299.9	2302.2				
5	P_r		6.06	4.81	4.79	3.52	3.47	3.48				
6	T		650	594	594	537	537	537				
7	T_r		1.40	1.28	1.28	1.16	1.16	1.16				
8	Z		0.832	0.701	0.699	0.543	0.538	0.539				
9	P/Z P/Z	$\overline{4} \div \overline{8}$	4818.75	4539.93	4534.42	4295.08	4271.78	4269.73				
10	P/TZ	$\overline{9} \div \overline{6}$	7.4135	7.6494	7.6401	7.9983	7.9549	7.9511				
11	$(P/TZ^2/1000$	$(10^2/1000$										
12	$L/H(F_rQ_m)^2$											
13		$\overline{11} + \overline{12}$										
14	I_n	$\overline{10} \div \overline{13}$	134.890	130.729	130.888	125.027	125.709	125.769				
15	$M=P_n-P_{n-1}$			826	839	838	871	868	868			
16	$N=I_n + I_{n-1}$			265.619	265.778	255.914	256.597	256.657				
17	M x N	$\overline{15} \times \overline{16}$			219492			222778				
18	$\sum$ (M x N)	$\sum \overline{17}$			219492			442270				

Delta P = $\frac{3[445568]}{134.890 + 4[130.888] + 125.769} = \frac{1336703}{784.211} = 1704.5$ P = 4009.2 - 1704.5 = 2304.7