

WORK SHEET FOR STEPWISE CALCULATION

Form C-122-E

(SUBSURFACE)
PRESSURE (P_f & P_s)
(SUBSURFACE)
C W
RATE NO. 2

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

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

12482 H 12482 L/H 1.00G 0.815 % CO₂ 0.00 N₂ 0.00 % H₂S 0.00

d F r Q m M cfd (L/H) (F Q)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		3949.2	3276.0	3257.9	2567.5	2528.5	2531.4				
5	P _r		5.94	4.93	4.90	3.86	3.80	3.81				
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		0.862	0.745	0.743	0.612	0.608	0.609				
9	P/Z P/Z	$\bar{4} \div \bar{8}$	4581.44	4398.44	4385.95	4192.57	4158.80	4156.67				
0	P/TZ	$\bar{9} \div \bar{6}$	7.0592	7.4487	7.4275	7.8808	7.8173	7.8133				
1	(P/TZ ² /1000	$(10^2/1000)$										
2	L/H(F _r Q) ²											
3		$\bar{11} + \bar{12}$										
4	I _n	$\bar{10} \div \bar{13}$	141.659	134.252	134.634	126.891	127.922	127.987				
5	M=P-P _n ⁻¹			673	691	690	729	726	726			
6	N=L _n +L _{n-1}			275.911	276.293	261.525	262.556	262.621				
7	M x N	$\bar{15} \times \bar{16}$			185688			190663				
8	$\Sigma (M \times N)$	$\bar{17}$			185688			376351				

Delta P = $\frac{141.659}{4} + \frac{134.634}{4} + 127.987$ = 1416.1 P = 3949.2 - 1416.1 = 2533.1