

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (F_T & P_s)
(SURFACE) (P_c & P_w)

Form C-122-E
Adopted 9-1-65

COMPANY Cities Service Oil Co. LEASE State CP WELL NO. 1 DATE 8/22/74

LOCATION: Unit T Section 9 Township 21S Range 27E

L 13852 H 13852 L/H 1.000 G .589 % CO₂ 0 % N₂ 0 % H₂S 0
d 2.441 F_r .01076² Q_m 0 M₂cid (L/H) (F_rQ_m)² 0 P_{cr} 679 T_{cr} 254
TABLE 1A & B TABLE 1A & B

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13852	6926		0						
2	GH		8158.53	4079.41		0						
3	37.5GH		3059.56	1529.918		0						
4	P _c or P _n		4349.8	3989.4	4819.1	2388.4	3332.6	3326.3	P _{oil} = 3334.5			
5	P _r		6.47	5.79	5.76	5.04	4.94	4.95				
6	T		7.93	6.28	6.28	5.34	5.34	5.34				
7	T _r		2.04	1.77	1.77	1.51	1.51	1.51				
8	Z		1.002	.939	.927	.812	.809	.809				
9	P/Z P/Z	4.8	4349.5	4142.0	4158.1	4119.9	4119.2	4118.7				
10	P/TZ	9.6	6.019	1.5956	6.5725	7.2192	7.7004	7.7032				
11	(P/TZ) ² /1000	(10 ²)/101										
12	L/H(F _r Q _m) ²											
13		11 + 12										
14	I _n	10 ÷ 13	166.340	151.617	150.126	137.970	139.852	138.716				
15	M = P _n - P _{n-1}			46.0	481	480	545	540				
16	N = I _n + I _{n-1}			317.957	318.466	280.096	281.984	281.842				
17	M x N	15 x 16			153.153			159.757				
18	Σ (M x N)	Σ 17			152.994							