

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

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

Rate No. 2

COMPANY Gulf Oil Corporation LEASE Lea "ED" State WELL NO. # 2 DATE 8/10/78

LOCATION: Unit K Section 16 Township 19 Range 34

L 7602 H 7602 L/H 1.000 G mix .827 % CO₂ % N₂ % H₂S

d 1.995 F_r 0.18231Q_m 1.738 $M^2 d$ (1/H) ($F_r Q_m$)² .001004 P_{ci} 665 T_{ci} 134
TABLE IX B X TABLE IX B X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	3801		7602						
2	G _H		0	3143.4		6286.9						
3	37.5G _H		0	117879		235757						
4	$P_{c, \text{ or } P_n}$		2883.2	3374.8	3348.6	3811.6	3770.3		P_s	3765.3		
5	P_i		4.34	5.07	5.04	5.73	5.67					
6	T		534	600	600	666	666					
7	T_i		1.23	1.38	1.38	1.53	1.53					
8	Z		.657	.764	.762	.847	.844					
9	P/Z, P/Z	4.8	4388.4	1417.2	4394.5	1500.2	1467.2					
10	P/TZ	9.6	8.2180	7.3621	7.3242	6.7570	6.7075					
11	(P/TZ) ² /1000	(10) ² /1000	.067754	.054200	.053644	.045657	.044990					
12	L/(H(F _r Q _m) ²)		.001004	.001004	.001004	.001004	.001004					
13		11 + 12	.068540	.055204	.054648	.046661	.045994					
14	I_n	10 + 13	119.901	133.361	134.025	144.810	145.833					
15	$M = P_n - P_{n-1}$			492	465	463	422					
16	$N = I_n + I_{n-1}$			253.262	253.926	278.835	279.858					
17	M x N	15 x 16			118188		118001					
18	$\Sigma (M \times N)$	$\Sigma 17$			117569							