

WORK SHEET FOR STEPWISE CALCULATION
 PRESSURE (SURFACE)
 FIRST RATE

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

COMPANY Cockrell Corporation LEASE Federal Occidental WELL NO. 1 DATE Oct. 23 & 24, 1972

LOCATION: Unit 10674 Section H Township 10674 Range 1.0 %N₂ 0 %CO₂ 0 %H₂S 0

10674 H 10674 L/H 1.0 G .638 %CO₂ .29 %N₂ 1.0 %H₂S 0

d Fr Q_m Q_m M²cfd (L/H) (F_rQ_m)² 389 P_{cr} 669 T_{cr} 389

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		10674	5337	0							
2	GH		6810	3405	0			delta P = 3 (37.5 GH)				
3	37.5GH		255375	127687	0			I + 4 I ₁ + I ₂				
4	P _c or P _n		981.2	864.2	747.2	749.2	750.2	749.2 = 3 (255375)				
5	P _r		1.47	1.29	1.12	1.12	1.12	1.12 = 557.362 + 4 (550.122) + 544.919				
6	T		608	558	508	508	508	508				
7	T _r		1.56	1.43	1.31	1.31	1.31	1.31 = 231.9				
8	Z		.879	.852	.822	.822	.822	.822				
9	P/Z P/Z	4÷8	1115.7	1014.3	909.4	911.4	912.6	911.4 P _w = P _c - delta P				
10	P/TZ	9÷5	1.835	1.817	1.790	1.794	1.796	1.794				
11	(P/TZ) ² /(1000 (Q _m) ²)								= 981.2 - 231.9			
12	L/H(F _r Q _m) ²								= 749.3			
13	I _n	I ₁ + I ₂										
14	I _n	I ₁ + I ₂	544.919	550.122	558.582	557.362	556.619	557.362				
15	M = P _n - P _{n-1}			117	117	115	114	115				
16	M = I _n + I _{n-1}			1089.839	1095.041	1108.704	1115.944	1113.981				
17	M x N	I ₅ x I ₆										
18	Σ (M x N)	Σ I ₇										