

WORK SHEET FOR STEPWISE CALCULATION
 PRESSURE (SURFACE)
 SECOND 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 H 10674 L/H 1.0 G .638 % CO₂ .29 % N₂ 1.0 % H₂S 0

Range

d F_r Q_m M²cfd (L/H) (F_rQ_m)² P_{CT} 659 T_{CT} 389

TABLE 1A & B

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		1 + 4 I ₁ + I ₂			
4	P _c or P _n		1009.2	888.2	889.2	890.2	771.2	772.2 =	3 (255375)			
5	P _r		1.51	1.33	1.33	1.33	1.15	1.15	540.646 + 4 (537.080) + 527.752			
6	T		608	560	560	560	511	511				
7	T _r		1.56	1.44	1.44	1.44	1.31	1.31 =	237.9			
8	Z		.876	.852	.852	.852	.817	.817				
9	P/Z P/Z	4-8	1152.0	1041.5	1043.6	1044.8	944.1	945.1				
10	P/TZ	9-6	1.894	1.859	1.863	1.865	1.847	1.849	P _u = P _c - delta P			
11	(P/TZ) ² /1000	10-2/1000										
12	L/H(F _r Q _m) ²								= 1009.2 - 237.9			
13		11 + 12										
14	I _n	10-13	527.752	537.680	536.572	535.969	541.214	540.646	= 771.3			
15	M = P _n - P _{n-1}			121	120	119	119	118				
16	II = I _n + I _{n-1}			1055.505	1065.432	1074.252	1072.541	1077.183				
17	M x N	15 x 16										
18	Σ (M x N)	Σ 17										