

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_1 & P_2)
~~ISURFACE~~ ~~ISURFACE~~

2nd

COMPANY Gulf Oil Expl & Prod Lease Marquardt Fed. WELL NO. 3 DATE 3-21-83

LOCATION: Unit _____ Section 12 Township 25s Range 26e

L 11,182 H 11,182 L/H 1.000 G .5766 % CO₂ 1.200 % N₂ .337 % H₂S _____

d 1.995 F_r 0.1823 D_m 3.653 M²cid (L/H) (F_rQ_m)² .004435 P_{cr} 672 T_{cr} 350

TABLE 11.8.3

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5591		11182						
2	GH		0	3223.8		6447.5						
3	37.5GH		0	120,891		241,782						
4	P _c or P _n		3263.2	3757.9	3742.9	4221.5	4200.6		Ps-4196.9			
5	P _r		4.86	5.59	5.57	6.28	6.25					
6	T		534	590	590	646	646					
7	T _r		1.53	1.69	1.69	1.85	1.85					
8	Z		.804	.900	.899	.957	.956					
9	P/Z P/Z	4÷8	4058.7	4175.4	4163.4	4411.2	4393.9					
10	P/TZ	9÷6	7.6006	7.0770	7.0567	6.8284	6.8017					
11	(P/TZ) ² /1000 (10 2/1000)		.057769	.050084	.049797	.046627	.046263					
12	L/H(F _r Q _m) ²		.004435	.004435	.004435	.004435	.004435					
13	I ₁ + I ₂		.062204	.054519	.054232	.051062	.050698					
14	I _n	10÷13	122.188	129.808	130.120	133.728	134.161					
15	M = P _n - P _{n-1}			495	480	479	458					
16	N = I _n + I _{n-1}			251.996	252.308	263.848	264.281					
17	M x N	15 x 16			121041		120939					
18	Σ (M x N)	Σ 17			120741							