

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
~~XXXXXX~~ ~~XXXXXX~~

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

COMPANY Culf 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

d1 .995 F_r .018204 2.766 M²ctd (L/H) (F_rQ_m)² .002543 P_{cr} 672 T_{cr} 350

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.SGH		0	120,891		241,782						
4	P _c or P _n		3373.2	3863.7	3846.8	4318.9	4295.0					
5	P _r		5.02	5.75	5.72	6.43	6.39		Ps-4290.9			
6	T		534	590	590	646	646					
7	T _r		1.53	1.69	1.69	1.85	1.85					
8	Z		.811	.907	.906	.963	.962					
9	P/Z P/Z	4-8	4159.3	4259.9	4245.9	4484.8	4464.7					
10	P/TZ	9-6	7.7890	7.2202	7.1964	6.9424	6.9113					
11	(P/TZ) ² /1000	10-2/1000	.060668	.052131	.051788	.048197	.047765					
12	L/H(F _r Q _m) ²		.002543	.002543	.002543	.002543	.002543					
13		11+12	.063211	.054674	.054331	.050740	.050308					
14	I _n	10+13	123.222	132.059	132.455	136.823	137.379					
15	M=P _n ·P _n ⁻¹			491	474	472	448					
16	N=I _n +I _n -1			255.281	255.676	269.278	269.833					
17	M x N	15x16			121078		120953					
18	Σ (M x N)	Σ 17			120703							