

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_c & P_w)

4th

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

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 Q_m 0 M²cfd (L/H) (F_rQ_m)² 0 P_{cr} 672 T_{cr} 350

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		11182	5591		0						
2	GH		6447.5	3223.8		0						
3	37.5GH		241,782	120,891		0						
4	P _c or P _n		3712.1	3337.8	3330.4	2949.0	2924.7	2925.9		P _w -2929.0		
5	P _r		5.52	4.97	4.96	4.39	4.35	4.35				
6	T		646	590	590	534	534	534				
7	T _r		1.85	1.69	1.69	1.53	1.53	1.53				
8	Z		.928	.878	.877	.787	.785	.785				
9	P/Z P/Z	4÷8	4000.1	3801.6	3797.5	3747.2	3725.8	3727.2				
10	P/TZ	9÷6	6.1921	6.4434	6.4364	7.0172	6.9771	6.9798				
11	(P/TZ) ² /1000	10÷2/1000										
12	L/H(F _r Q _m) ²											
13		11+12										
14	I _n	10÷13	161.497	155.198	155.366	142.508	143.327	143.270				
15	M=P _n -P _{n-1}			374	382	381	406	405				
16	N=I _n +I _{n-1}			316.695	316.862	297.873	298.692	298.636				
17	M x N	15x16			120955			120804				
18	Σ (M x N)	Σ 17			120827							