

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s) 3rd

(SURFACE)

(P_f & P_s)

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

COMPANY GULF OIL CORP. LEASE FEDERAL COM-4 WELL NO. # 1 DATE 05-14-80

LOCATION: Unit K Section 4 Township 19S Range 32E

L 12521 H 12521 L/H 1.000 G mix .715 % CO₂ .442 % N₂ .524 % H₂S

d 1.995 F_r .018231 m 2.912 M₂cid (L/H) (F_rQ_m)² .002818 P_{cr} 668 T_{cr} 398

TABLE IX & X

NE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6260.5		12521						
2	GH		0	4476.3		8952.5						
3	37.5GH		0	167859		335719						
4	P _c or P _n		3513.2	4268.0	4243.7	4971.9	4931.3					
5	P _r		5.26	6.39	6.35	7.44	7.38					
6	T		534	596.5	596.5	659	659					
7	T _r		1.34	1.50	1.50	1.66	1.66					
8	Z		.759	.885	.883	.987	.984					
9	P/Z P/Z	4/8	4628.7	4822.6	4806.1	5037.4	5011.5					
10	P/TZ	9/6	8.6680	8.0848	8.0571	7.6440	7.6046					
11	(P/TZ) ² /1000	(10 ² /1000)	.075135	.065364	.064917	.058431	.057831					
12	L/H(F _r Q _m) ²		.002818	.002818	.002818	.002818	.002818					
13		I ₁ + I ₂	.077953	.068182	.067735	.061249	.060649					
14	I _n	I ₀ ÷ I ₃	111.195	118.577	118.950	124.802	125.388					
15	M = P _n - P _{n-1}		755	731	728	688						
16	N = I _n + I _{n-1}		229.772	230.146	243.753	250.775						
17	M x N	15 x 16		168.132		172.416						
18	Σ (M x N)	Σ I ₇		167.587								