

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) ~~XXXXXXXX~~

3rd

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

COMPANY GULF OIL EXPL. & PROD. LEASE LANGLIE FED A COM WELL NO. 1 DATE June 14, 1982

LOCATION: Unit K Section 9 Township 19S Range 33E

L 13470 H 13470 L/H 1,000 G .648 % CO₂ .808 % N₂ .589 % H₂S

dL 1.995 F; 0.1823 Φ_m 2.044 M²cfd (L/H) (F_fQ_m)² .001389 P_{cr} T_{cr}

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6735		13470						
2	GH		0	4364.3		8728.6						
3	37.5GH		0	163660		327321						
4	P _e or P _n		3593.2	4310.5	4278.5	4961.0	4913.1			Ps = 4906.1		
5	P _r		5.36	6.43	6.39	7.40	7.33					
6	T		534	601.5	601.5	669	669					
7	T _r		1.42	1.60	1.60	1.78	1.78					
8	Z		.782	.914	.911	1.005	1.002					
9	P/Z P/Z	4÷8	4594.9	4716.1	4696.5	4936.4	4903.3					
10	P/TZ	9÷6	8.6047	7.8406	7.8080	7.3787	7.3293					
11	(P/TZ) ² /1000	(10) ² /1000	.074040	.061475	.060966	.054446	.053719					
12	L/H(F _f Q _m) ²		.001389	.001389	.001389	.001389	.001389					
13		I ₁ + I ₂	.075429	.062864	.062355	.055835	.055108					
14	I _n	I ₀ ÷ I ₃	114.076	124.723	125.219	132.152	132.999					
15	M = P _n · P _{n-1}			717	685	683	635					
16	N = I _n + I _{n-1}			238.799	239.295	257.372	258.218					
17	M × N	I ₅ × I ₆			164000		163858					
18	Σ (M × N)	Σ I ₇			163321							

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JUN 28 1982

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