

WORK SHEET FOR STEPWISE CALCULATION

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

d 1.995 F_r 0.18231 Q_m .884 M²-cfd (L/H) (F_rQ_m)² .000260 P_{cr} 670 T_{cr} 375

TABLE 1A & B

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6735								
2	GH		0	4364.3								
3	37.5GH		0	163660								
4	P _{cr} or P _n		4113.2	4868.6	4835.7	5555.6	5509.7		PS =	5501.8		
5	P _r		6.14	7.27	7.22	8.29	8.22					
6	T		534	601.5	601.5	669	669					
7	T _r		1.42	1.60	1.60	1.78	1.78					
8	Z		.837	.960	.957	1.032	1.029					
9	P/Z P/Z	4÷8	4914.2	5071.4	5053.0	5383.3	5354.4					
10	P/TZ	9÷6	9.2026	8.4313	8.4007	8.0468	8.0036					
11	(P/TZ) ² /1000	(10) 2/1000	.084689	.071087	.070572	.064751	.064058					
12	L/H(F _r Q _m) ²		.000260	.000260	.000260	.000260	.000260					
13		11 + 12	.084949	.071347	.070832	.065011	.064318					
14	I _n	10÷13	108.332	118.173	118.600	123.776	124.438					
15	M=P _n ·P _n ⁻¹			755	723	720	674					
16	N=I _n + I _n -1			226.505	226.932	242.376	243.039					
17	M x N	15 x 16			163969		163799					
18	Σ(M x N)	Σ 17			163352							

RECEIVED

JUN 28 1982

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JUN 18 1982

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