

WORK SHEET FOR STEPWISE CALCULATION

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

4th

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 .018231 Q_m 2.876 M²ctd (L/H) (F_rQ_m)² P_{Cr} .002749 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 _c or P _n		3263.2	3955.8	3926.9	4587.4	4544.2			Ps = 4537.6		
5	P _r		4.87	5.90	5.86	6.85	6.78					
6	T		534	601.5	601.5	669	669					
7	T _r		1.42	1.60	1.60	1.78	1.78					
8	Z		.752	.887	.885	.981	.978					
9	P/Z P/Z	4÷8	4339.4	4459.8	4437.2	4676.3	4646.4					
10	P/TZ	9÷6	8.1261	7.4145	7.3768	6.9899	6.9453					
11	(P/TZ) ² /1000	10÷2/1000	.066034	.054974	.054418	.048859	.048238					
12	L/H(F _r Q _m) ²		.002749	.002749	.002749	.002749	.002749					
13		11÷12	.068783	.057723	.057167	.051608	.050987					
14	I _n	10÷13	118.142	128.449	129.040	135.443	136.218					
15	M=P _n ·P _n ⁻¹			693	664	661	617					
16	N=I _n +I _n -1			246.591	247.182	264.483	265.258					
17	M x N	15×16			164052		163747					
18	Σ (M x N)	Σ 17			163269							

RECEIVED

JUN 28 1982

O.C.D.
HOBBS OFFICE
RECEIVED

JUN 18 1982

O.C.D.
HOBBS OFFICE