

WORK SHEET FOR STEPWISE CALCULATION

(SURFACE) PRESSURE
(~~POXP~~)
(P_c & P_w)

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

d 1.995 P_r .018231 Q_m 0 M²cfd (L/H) ($F_r Q_m$)² 0 P_{cr} T_{cr}

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13470	6735		0						
2	GH		8728.6	4364.3		0						
3	37.5GH		327321	163660		0						
4	P_c or P_n		4906.1	4307.2	4286.8	3669.1	3613.9	3616.4		P _w = 3621.5		
5	P_r		7.32	6.43	6.40	5.48	5.39	5.40				
6	T		669	601.5	601.5	534	534	534				
7	T_r		1.78	1.60	1.60	1.42	1.42	1.42				
8	Z		1.002	.914	.912	.790	.784	.785				
9	$P/Z P/Z$	$\bar{4} \div \bar{8}$	4896.3	4712.5	4700.5	4644.4	4609.7	4606.8				
10	P/TZ	$\bar{9} \div \bar{6}$	7.3188	7.8345	7.8146	8.6973	8.6324	8.6271				
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$										
12	$L/H(F_r Q_m)^2$											
13		$\bar{11} + \bar{12}$										
14	I_n	$\bar{10} \div \bar{13}$	136.635	127.641	127.965	114.979	115.842	115.913				
15	$M = P_n - P_{n-1}$			599	619	618	673	670				
16	$N = I_n + I_{n-1}$			264.277	264.601	242.944	243.807	243.878				
17	$M \times N$	$\bar{15} \times \bar{16}$			163860			163508				
18	$\Sigma (M \times N)$	$\Sigma \bar{17}$			163460							

RECEIVED

JUN 28 1982

JUN 18 1982

O.C.D.

HOBBS OFFICE

HOBBS OFFICE