

WORK SHEET FOR STEPWISE CALCULATION

(SURFACE)
(SURFACE)

PRESSURE
(P_c & P_w)

2 nd

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 .018233 M^2 cfd (L/H) ($F_r Q_m$)² 0 P_{cr} 668 T_{cr} 398

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12521	6260.5		0						
2	GH		8952.5	4476.3		0						
3	ST.SCH		335719	167859		0						
4	P_c or P_n		5198.1	4539.4	4518.5	3839.7	3790.1	3792.0		$P_w =$	3794.3	
5	P_i		7.78	6.80	6.76	5.75	5.67	5.68				
6	T_i		659	596.5	596.5	534	534	534				
7	T_i		1.66	1.50	1.50	1.34	1.34	1.34				
8	Z		1.005	.910	.907	.795	.789	.789				
9	P/Z or P/Z	$\bar{4} \cdot \bar{8}$	5172.2	4988.3	4981.8	4829.8	4803.6	4806.0				
	P/TZ	$\bar{9} \cdot \bar{6}$	7.8486	8.3627	8.3517	9.0446	8.9956	9.0001				
11	$(P/TZ)^2 / 1000$	$(10) \bar{2} / 1000$										
12	$L/H(F_r Q_m)^2$											
13		$\bar{1} \bar{1} + \bar{1} \bar{2}$										
14	I_n	$\bar{1} \bar{0} \div \bar{1} \bar{3}$	127.412	119.578	119.736	110.564	111.165	111.110				
15	$M = P_n - P_{n-1}$			659	680	679	728	727				
16	$N = I_n + I_{n-1}$			246.989	247.148	230.300	230.901	230.846				
17	$M \times N$	$\bar{1} \bar{5} \times \bar{1} \bar{6}$			167966			167712				
18	$\Sigma (M \times N)$	$\Sigma \bar{1} \bar{7}$			167753							