

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_c & P_w)
(SURFACE)

1 st

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 32 e

L 12521 H 12521 L/H 1.000 G mix .715 % CO₂ .442 % N₂ .524 % H₂S
d 1.995 F_r .0182 M 0 M₂ cfd (L/H) (F_r Q_m)² 0 P_{cr} 668 T_{cr} 398
TABLE IX & X 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	37.5GH		335719	167859		0						
4	P _c or P _n		5456.7	4779.4	4758.0	4060.8	4010.9	4012.7				P _w = 4015.3
5	P _r		8.17	7.15	7.12	6.08	6.00	6.01				
6	T		659	596.5	596.5	534	534	534				
7	T _r		1.66	1.50	1.50	1.34	1.34	1.34				
8	Z		1.026	.932	.930	.820	.814	.815				
9	P/Z P/Z	4/8	5318.4	5128.1	5116.1	4952.2	4927.3	4923.5				
10	P/TZ	9/6	8.0704	8.5969	8.5768	9.2738	9.2272	9.2201				
11	(P/TZ) 2/1000	(10) 2/1000										
12	L/H (F _r Q _m) ²											
13		I ₁ + I ₂										
14	I _n	I ₀ + I ₃	123.910	116.321	116.594	107.831	108.376	108.458				
15	M = P _n - P _{n-1}			677	699	697	747	745				
16	N = I _n + I _{n-1}			240.232	240.504	224.425	224.970	225.053				
17	M x N	I ₅ x I ₆			168050			167731				
18	Σ (M x N)	Σ I ₇			167669							

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MAY 27 1980

OIL CONSERVATION DIV.