

WORK SHEET FOR STEPWISE CALCULATION
(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

Form O-122E
Adopted 9-1-65

COMPANY Union Oil Co. of California LEASE P. 20 1/2 Sec 4 T. 12 S. R. 1 E. WELL NO. 1 DATE 8-11-70

LOCATION: Unit M Section 4 Township 12 South Range 34 East

L 43.325 H 13.325 L/H 1.0 G_{min} 0.9395 %CO₂ 0.6 %N₂ 0.6 %H₂S Swirl

d 4.995 F_r 0 Q_m 3.200 M₂ d₁ (L/H) (F_r Q_m)² 0.00455 P_{cr} 46.5 T_{cr} 46.9
0.013231' TABLE IX B X TABLE IX B X

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LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	66663		13325						
2	GH		0	6260		12519						
3	37.5GH		0	234.746		469.456						
4	P ₀ or P _n		4068	5224	5204	6340	6305					
5	P ₁		6.12	7.86	7.93	9.53	9.48					
6	T		54.3	60.1	60.1	66.0	66.0					
7	T _r		1.16	1.28	1.28	1.41	1.41					
8	Z		0.800	0.965	0.961	1.101	1.098					
9	P/2	48	50.85	54.13	54.15	57.58	57.42					
10	P/T2	34	7.36	9.01	9.01	9.72	8.70					
11	(P/T2) ² /1000	0.09211	0.08761	0.08113	0.08118	0.07611	0.07668					
12	L/H(F _r Q _m) ²		0.00455	0.00455	0.00455	0.00455	0.00455					
13		I1 + I2	0.09216	0.0956	0.09573	0.08036	0.08024					
14	I _n	I0 + I3	101.564	105.16	105.10	109.11	108.42					
15	M = P _n - P _{n-1}		115.4	113.6	113.6	110.1	110.1					
16	N = I _n + I _{n-1}		206.72	206.66	213.21	213.32	213.32					
17	M x N	15 x 16	234.766			23500.6						
18	Σ (M x N)	Σ I7				469.852						