

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

Form G-122-E
Adopted 9-1-65

Standard Oil Company
of Texas

LEASE Bogle Flats Unit WELL NO. 4 DATE 6-8-66

LOCATION: Unit F Section 10 Township 22S Range 23E

L 7074 H 7074 L/H 1.000 G .646 %CO₂ .54 %N₂ .90 %H₂S .36

d F_r Q_m 0 M²cfd (L/H) (F_rQ_m)² 0 P_{cr} 673 T_{cr} 368
TABLE IX & X TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		7074	3527		0			Delta P = 3 (37.5 GH)			
2	GH		4569.80	2284.90		0			I ₃ + 4 I ₁ + I ₂			
3	37.5GH		171,368	85,684		0						
4	P _c or P _n		2812.3	2566.3	2565.3	2317.3	2315.3		173.877 + 690.012 + 170.444			
5	P _r		4.18	3.81	3.81	3.44	3.44					
6	T		592	563	563	534	534		514, 104			
7	T _r		1.61	1.53	1.53	1.45	1.45		1,034, 338			
8	Z		.826	.786	.786	.739	.739					
9	P/Z P/Z		3404.7	3265.0	3263.7	3135.7	3133.0		497.0			
10	P/TZ		9÷6	5.7993	5.7970	5.8721	5.8670					
11	(P/TZ) 2/1000		100 2/1000									
12	L/H(F _r Q _m) ²											
13			11 + 12									
14	I _n		173.877	172.435	172.503	170.297	170.444		2812.3 - 497.0			
15	M = P _n - P _{n-1}			246	247	248	250		2315.3			
16	N = I _n + I _{n-1}			346.312	346.380	342.800	342.947					
17	M x N		15 x 16		85,556		85,737					
18	Σ (M x N)		Σ 17	171,368		85,812						