

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

Form C-122-B
Adopted 9-1-65

Standard Oil Company

COMPANY of Texas LEASE Bogle Flats Unit '19' WELL NO. 3 DATE 6-7-66

LOCATION: Unit K Section 9 Township 22S Range ~~23S~~ **23E**

L 6924 H 6924 L/H 1.000 G .649 % CO₂ .54 % N₂ .92 % H₂S .37

d F_r Q_m 0 M²cld (L/H) (F_rQ_m)² 0 P_{cr} 673 T_{cr} 368
TABLE IX 3 X TABLE IX 5 X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		6924	3462		0			Delta P = 3 (37.5 GH)			
2	GH		4493	2246.84		0			I _s + 4I ₁ + I ₂			
3	37.5GH		168,513	84,257		0			= 3 (168,513)			
4	P _c or P _n		2749.3	2512.3	2511.3	2273.3	2271.3		177.431 + 705.192 + 175.812			
5	P _r		4.09	3.73	3.73	3.38	3.38		= 505.539			
6	T		592	564	564	536	536					
7	T _r		1.61	1.53	1.53	1.46	1.46		1,058.435			
8	Z		.824	.785	.785	.745	.745					
9	P/2, P/Z	4:8	3336.5	3200.4	3199.1	3051.4	3048.7		= 477.6			
10	P/TZ	9:6	5.6360	5.6745	5.6722	5.6929	5.6879					
11	(P/TZ) ² /1000	(10) ² /1000							P _r = P _s - Delta P			
12	L/H(F _r Q _m) ²											
13		I ₁ + I ₂								2749.3	477.6	
14	I _n	10-13	177.431	176.227	176.298	175.657	175.812					
15	M = P _n - P _{n-1}			237	238	238	240					
16	N = I _n + I _{n-1}			353.658	353.729	351.955	352.110					
17	M x N	15 x 16			84,183		84,506					
18	M x N	217	168,513		84,325							