

WORK SHEET FOR STEPWISE CALCULATION
(SURFACE) PRESSURE (P_g & P_w)

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

Standard Oil Company

COMPANY of Texas LEASE Bogle Flats Unit '9' WELL NO. 3 DATE 6-7-66

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

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

d F_r Q_m 0 M²cid (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		6924	3462		0			Delta P = 3 (37.5 GH)			
2	GH		4493.68	2246.84		0			I _g + 4 I ₁ + I ₂			
3	37.5GH		168,513	84,257		0			= (168,513)			
4	P _c or P _n		2773.0	2534.0	2532.0	2292.0	2290.0		175,914 + 698.188 + 172.325			
5	P _r		4.12	3.77	3.76	3.41	3.40					
6	T		592	563	563	534	534		= 505,539			
7	T _r		1.61	1.53	1.53	1.45	1.45		1,046.427			
8	Z		.824	.785	.785	.739	.739					
9	P/Z P/Z	4/8	3365.3	3228.0	3225.5	3101.5	3098.8		=	483.1		
10	P/TZ	9/6	5.6846	5.7336	5.7291	5.8081	5.8030					
11	(P/TZ) 2/1000	(10) 2/1000							P _g = P _s - Delta P			
12	L/H (F _r Q _m) ²											
13		I ₁ + I ₂							= 27/3.0 - 483.1			
14	I _n	10/13	175,914	174,410	174,547	172,173	172,325					
15	M = P _n - P _{n-1}		239	241	240	242			= 2239.9			
16	N = I _n + I _{n-1}			350.324	350.461	346,720	346,872					
17	M x N	15 x 16			84,461		83,943					
18	Σ (M x N)	Σ 17	168,513		84,052							