

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) ~~XXXXXX~~

Form C-122-B
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 ~~22E~~ 23E

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

d 1.995 P₀ 18231 Q_m 5.572 M₂ CH (L/H) (F₁ Q_m)² .010319 P_{CT} 673 T_{CT} 368
TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	3462		6924			Delta P = 3 (37.5 GH)			
2	GH		0	2246.84		4493.68			I ₂ + 4 I ₁ + I ₂			
3	37.5GH		0	84,257		168,513			= 3 (168,513)			
4	P _c or P _n		2128.2	2434.2	2436.2	2744.2	2749.2		137.890 + 542.160 + 133.927			
5	P _r		3.16	3.62	3.62	4.08	4.09		= 505,539			
6	T		536	564	564	592	592		813.977			
7	T _r		1.46	1.53	1.53	1.61	1.61					
8	Z		7.48	.785	.785	.824	.824					
9	P/Z P/Z		2845.2	3100.9	3103.4	3330.3	3336.4		= 621.1			
10	P/TZ		9.6	5.3082	5.4980	5.5025	5.6266					
11	(P/TZ) ² /1000	(10) 2/1000	.028177	.030228	.030278	.031646	.031762	P _s =	P _r + Delta P			
12	L/(H(F ₁ Q _m) ²)		.010319	.010319	.010319	.010319	.010319		= 2128.2 + 621.1			
13			.038496	.040547	.040597	.041965	.042081					
14	I _n		137.890	135.596	135.540	134.052	133.927					
15	M=P _n -P _{n-1}			306	308	308	313		= 2749.3			
16	N=I _n +I _{n-1}			273.486	273.430	269.592	269.467					
17	M x N				84,216		84,343					
18	Σ(M x N)				84,216		167,559					