

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

Form C-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 ~~23S~~ 23S
 L 6924 H 2924 L/H 1.000 G .649 % CO₂ .54 % N₂ .92 % H₂S .37
 d Fr 0 M₂ cfd (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 _w + 4 I ₁ + I ₂			
3	37.5GH		168,513	84,257		0			= 3 (168,513)			
4	P _c or P _n		2808.1	2566.1	2564.1	2321.1	2316.1		173.919 + 687 + 167.504			
5	P _r		4.17	3.81	3.81	3.45	3.44					
6	T		592	561	561	530	530		= 505,539 = 491.2			
7	T _r		1.61	1.53	1.53	1.44	1.44		1,029.299			
8	Z		.825	.786	.786	.732	.732					
9	P/Z P/Z		3403.9	3264.8	3262.2	3170.9	3164.1		P = P _g - Delta P			
10	P/TZ		9.6	5.8196	5.8150	5.9828	5.9700					
11	(P/TZ) 2/1000		(10) 2/1000						= 2808.1 - 491.2			
12	L/H(F _r Q _m) ²											
13												
14	I _n		173.919	171.833	171.969	167.146	167.504		= 2316.9			
15	M=P _n -P _{n-1}			242	244	243	248					
16	N=I _n +I _{n-1}			345.752	345.888	339.115	339.473					
17	M x N				84,397		84,189					
18	Σ (M x N)		168,513		84,116							