

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

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

Standard Oil Co.

COMPANY of Texas LEASE Bogle Flats Unit "4" WELL NO. 2 DATE 6-6-66

LOCATION: Unit J Section 4 Township 22S Range 23E

L 7039 H 7039 L/H 1.000 G .639 % CO₂ .58 % N₂ .91 % H₂S .21
d 2.441 F₁ 010763 Q_m 3.372 M² cfd (L/H) (F₁ Q_m)² .001317 P_{cr} 673 T_{cr} 364
TABLE IX & X TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	3468		6936			Delta P =	3(37.5 GH)		
2	GH		0	2216.05		4432.10			I _t + 4 I ₁ + I ₂			
3	37.5GH		0	83,102		166,204			= 3 (166,204)			
4	P _c or P _n		2301.2	2552.2	2551.2	2801.2	2799.2		165,465 + 668.312 + 168.051			
5	P _r		3.42	3.79	3.79	4.16	4.16					
6	T		531	561	561	591	591		= 498,612		= 497.7	
7	T _r		1.46	1.54	1.54	1.62	1.62		1,001.828			
8	Z		.745	.790	.790	.828	.828					
9	P/Z P/Z		3088.9	3230.6	3229.4	3383.1	3380.7		P _s = P _t + Delta P			
10	P/TZ		9.6	5.8171	5.7586	5.7244	5.7203					
11	(P/TZ) ² /1000	(10) ² /1000	.033839	.033161	.033137	.032769	.032722		= 2301.2 + 497.7			
12	L/H(F ₁ Q _m) ²		.001317	.001317	.001317	.001317	.001317					
13		I ₁ + I ₂	.035156	.034478	.034454	.034086	.034039		= 2798.9			
14	I _n	I ₀ ÷ I ₃	.165.465	167.022	167.078	167.940	168.051					
15	M = P _n - P _{n-1}			251	250	250	248					
16	N = I _n + I _{n-1}			332.487	332.543	335.018	335.129					
17	M x N	I ₅ x I ₆			83,136		83,112					
18	Σ(M x N)	Σ I ₇			83,136		166,248					

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JUN 27 1966

O. P. G.
ARTESIAN OFFICE