

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

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

Standard Oil Company

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 F_r.010763 Q_m 5.421 M²cfd (L/H) (F_rQ_m)² .003404 P_{CT} 673 T_{CT} 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 + 4I ₁ + I ₂			
3	37.5GH		0	83,102	166,204				= 3 (166,204)			
4	P _c or P _n		2247.2	2504.2	2761.2	2763.2			161.838 + 645.096 + 159.857			
5	P _r		3.34	3.72	4.10	4.11			= 498,612 = 515.7			
6	I		536	564	591	591						
7	I _r		1.47	1.55	1.62	1.62			966.791			
8	Z		.753	.794	.827	.827						
9	P/Z P/Z		2984.3	3153.9	3338.8	3341.2			P _s = P _t + Delta P			
10	P/TZ		9.6	5.5677	5.5920	5.6494	5.6535		= 2247.2 + 515.7			
11	(P/TZ) ² /1000 (10) ² /1000		.030999	.031270	.031916	.031962			= 2762.9			
12	L/H(F _r Q _m) ²		.003404	.003404	.003404	.003404						
13			.034403	.034674	.035320	.035366						
14	I _n		10.13	161.838	159.949	159.857						
15	M=P _n -P _{n-1}			257	257	259						
16	N=I _n +I _{n-1}			323.112	321.223	321.131						
17	M x N		15 x 16	83,040		83,173						
18	Σ (M x N)		Σ I ₇	83,040		166,213						

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JUN 27 1966

B. D. D.
ARTERIAL CHIEF