

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 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 Fr Q_m 0 M²cf/d (L/H) (F_rQ_m)² 0 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		7039	3519.5			0		Delta P =	3 (37.5GH)		
2	GH		4497.92	2248.96			0		I _w +	4 I ₁ + I ₂		
3	37.5GH		168,672	84,336			0					
4	P _c or P _n		2830.1	2588.1	2585.1	2586.1	2341.1	2334.1		= 3 (168,672)		
5	P _r		4.21	3.85	3.84	3.84	3.48	3.47		174.246 + 683.060 + 164.644		
6	T		592	559	559	559	525	525		= 506,016 = 495.2		
7	T _r		1.63	1.54	1.54	1.54	1.44	1.44		1,021.950		
8	Z		.833	.790	.790	.790	.732	.732				
9	P/Z or P/Z		3397.5	3276.1	3272.3	3273.5	3198.2	3188.7	P _w =	P _s - Delta P		
10	P/TZ		9.6	5.7390	5.8606	5.8539	5.856.0	6.0918				
11	(P/TZ) 2/1000		(10) 2/1000							= 2830.1 - 495.2		
12	L/H (F _r Q _m) ²											
13			I ₁ + I ₂							= 2334.9		
14	I _n		174.246	170.631	170.826	170.765	164.155	164.644				
15	M = P _n - P _{n-1}			242	245	244	245	252				
16	N = I _n + I _{n-1}			344.877	345.072	345.011	334.920	335.409				
17	M x N		15 x 16					84,523				
18	Σ (M x N)		Σ 17	168,672			84,489					

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JUN 27 1966

O. C. C.

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