

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s)
 (SURFACE) (P_g & P_h)

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 2.164 M²cfd (L/H) (F_rQ_m)² .000543 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			$\frac{I_1 + 4I_1 + I_2}{2}$			
3	37.5GH		0	83,102		166,204						
4	P _c or P _n		2326.2	2581.2	2578.2	2829.2	2824.2	2823.2		= 3 (166,204)		
5	P _r		3.46	3.84	3.83	4.20	4.20	4.20				
6	T		525	558	558	591	591	591		= 498,612	=	496.9
7	T _r		1.44	1.53	1.53	1.62	1.62	1.62		$\frac{I_1 + 4I_1 + I_2}{2}$		
8	Z		7.32	.786	.786	.829	.829	.829				
9	P/Z P/Z		4.8	3177.9	3284.0	3280.2	3412.8	3406.8		P _g = P _r + Delta P		
10	P/TZ		9.6	6.0531	5.8853	5.8785	5.7746	5.7645		5.7624		
11	(P/TZ) ² /1000		(10) ² /1000	.036640	.034637	.034557	.033346	.033230		.033205		= 2326.2 + 496.9
12	L/H(F _r Q _m) ²			.000543	.000543	.000543	.000543	.000543		.000543		
13				.037183	.035180	.035100	.03389	.033773		.033748		= 2823.1
14	I _n		10-13	162.792	167.291	167.479	170.397	170.684		170.748		
15	M=P _n -P _{n-1}			255	252	251	246	245				
16	N=I _n +I _{n-1}			330.083	330.271	337.876	338.163	338.227				
17	M x N		15 x 16							82,866		
18	Σ (M x N)		Σ 17							166,094		

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JUN 27 1966

D. C. C.

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