

WORK SHEET FOR STEPWISE CALCULATION ESTIMATED PRESSURE (P_{sc}) (SURFACE) (P_c & P_w)

Form G-122-B
Adopted 9-1-65

Standard Oil Company

COMPANY of Texas

LEASE Togle Flats Unit

WELL NO.

5

DATE 6-13-66

LOCATION: Unit F

Section

16

Township

22S

Range

23E

L 7225

H

7225

L/H

1.000

G

.644

% CO₂

.52

% N₂

.09

% H₂S

.38

d F_r

- Q_m

0

M²cd

(L/H) (F_r Q_m)²

0

P_{sc}

37.5

T_{sc}

368

TABLE A X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		7225	3612.5		0			Delta P = 3 (37.5 GH)			
2	GH		4652.9	2326.45		0			I _s + 4 I ₁ + I ₂			
3			174,484	87,242		0						
4	P _c or P _n		2772.3	2524.3	2525.3	2278.3	2279.3		3 (174,484)			
5	P _r		4.12	3.75	3.75	3.39	3.39		175,957 + 708,252 + 177,832			
6	T		592	566	566	539	539		523,452			
7	T _r		1.61	1.54	1.54	1.47	1.47		1,062.041			
8	Z		.824	.790	.790	.752	.752					
9			3364.4	3196.9	3196.6	3030.5	3031.0		492.9			
10	P/TZ		5.6832	5.6483	5.6477	5.6224	5.6233					
11	(P/TZ) ² /1000	(10) ² /1000							P _w			
12	L/H(F _r Q _m) ²								3 - Delta P			
13		I ₁ + I ₂										
14		I ₀ + I ₃	175.957	177.044	177.063	177.860	177.832		2772.3 - 492.9			
15	M _{sc} P _n			248	247	247	246					
16	N = I _n + I _{n-1}			353.001	353.020	354.923	354.895					
17	M x N	15 x 16			87,242							
18	Σ (M x N)	Σ I ₇	174,484		87,242							