

WORKSHEET FOR CALCULATION OF ST. COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Rev 9-1-65

COMPANY

Waco, Texas Lease Langley Rd 121st

WELL NO.

71

DATE

5/4/66

LOCATION: Unit

2

Section

9

Township

65

Range

25E

L 3694

H

3694

L/H

1.000

G

.657

% CO₂

0.13

% N₂

6.21

% H₂S

0

d

1.995

F_i

.01823

GH

2420

P_{CF}

658

T_{CF}

355

TABLE IX & X

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LINE	1 st rate	2 nd rate	3 rd rate	4 th rate				
1 Q _m	.219	.308	.387	.512				
2 T _w (W.H. °R)	522	522	522	522				
3 T _s (B.H. °R)	561	564	564	564				
4 T = (T _w + T _s)	543	543	543	543				
5 L (Est.)	.846	.841	.842	.905				
6 T ₂	495.67	480.01	484.36	491.42				
7 GH/T ₂	5.102	5.056	5.011	4.959				
8 e ^s (Table XIV)	1.211	1.209	1.207	1.203				
9 1 - e ^s (Table XIV)	.194	.193	.191	.169				
10 P ₂	895.2	812.2	751.2	653.2				
11 P ₂ 2/1000	966.6	659.7	564.3	426.7				
12 F ₂ (Table XV)	.61823	.01823	.01823	.01823				
13 F ₂ = F ₂ T ₂	8.671	8.951	8.836	8.958				
14 F ₂ C _m	1.899	2.695	3.435	4.581				
15 L/H (F ₂ Q _m) ²	3.666	11.264	11.798	21.038				
16 F _w = L/H (F ₂ Q _m) ² (1 - e ^s)	.628	1.257	2.017	3.535				
17 P _w 2 = P ₂ 2 + F _w	1.666	660.9	566.4	430.2				
18 F _s 2 = e ^s P _w 2	928.1	799.1	683.6	519.6				
19 F _s	963.5	893.9	826.3	719.4				
20 P = (P ₂ + P _s)	919.4	853.1	789.6	686.3				
21 P ₁ = P/P ₂	1.40	1.37	1.20	1.04				
22 T ₁ = (T/T ₂)	1.53	1.53	1.53	1.53				
23 Z (Table XI)	.896	.881	.892	.905				