

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Adopted 9-1-65

COMPANY

YPC

LEASE

Box Canyon GS Fed

WELL NO.

1 - Conn

DATE

5-5-77

LOCATION: Unit

J

Section

13

Township

21-E

Range 21-E

L 8232

H 8232

L/H 1.000

G .618

%CO₂ 0.56

%N₂

1.29

%H₂S

N.I.

54-4) 1.13 (7.43) = 94.42
54-2) 1.13 (15.13) = 15.13
23.8 - 81.25 (15.13) = 32.52 (1.50)
23.8 - 32.52 (1.50) = 32.52 (1.50)
32.52 (1.50)

d_{max} 2.0159

F_r .017284

GH 5087

491 344
1.1 3.4

P_{cr}

692

T_{cr}

360

LINE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1 Q _m																							
2 T _w (W.H. °R)	514	529	528	527	526																		
3 T _s (B.H. °R)	600	599	598	597	596																		
4 T = (T _w + T _s)	557	564	563	562	561																		
5 Z (Est.)	0.796	.802	.804	.810	.847																		
6 T _Z	443.39	452.33	452.65	455.22	475.167																		
7 GH/T _Z	11.473	11.246	11.258	11.175	10.706																		
8 e ^s (Table XIV)	1.5376	1.5246	1.5241	1.5205	1.4940																		
9 1-e ^s (Table XIV)		0.3441	0.3439	0.3423	0.3357																		
10 P _i	2339.2	2076.2	1913.2	1607.2	1146.2																		
11 P _i 2/1000	5756.16	4310.6	3660.33	2583.84	1313.77																		
12 F _i (Table XV)	.43025	.42173	.42143	.41306	.40140																		
13 C = F _i T _Z		7.8181	7.8226	7.8650	8.2128																		
14 F _c Q _m		9.4911	12.768	18.0965	25.180																		
15 L/H (F _c Q _m) ²		90.082	163.02	327.48	634.05																		
16 F _w = L/H (F _c Q _m) ² (1-e ^s)		31.00	56.06	112.10	209.65																		
17 P _w ² = P _i ² + F _w		4341.6	3716.32	2695.19	1523.45																		
18 P _w ² = e ^s P _w ²	8875.63	6619.2	5661.15	4078.05	2276.04																		
19 P _s	2979.2	2592.8	2399.9	2024.4	1508.7																		
20 P = (P _i + P _s)	2689.2	2324.5	2146.6	1815.8	1327.4																		
21 P _r = (P/P _{cr})	4.00	3.459	3.194	2.702	1.975																		
22 T _r = (T/T _{cr})	1.547	1.567	1.564	1.561	1.558																		
23 Z (Table XI)	.796	0.802	0.804	0.813	0.847																		