

WORKSHEET FOR CALCULATION OF STAC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
9-1-85

COMPANY

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WEI 1 NO 1

DATE _____

LOCATION: Unit 7

Section /

Township 26 S

Range 72 E

L. 12740 H. 12740 L/H 1
G. 1222 % CO₂ 11.35
% N₂ 16.50 % H₂S 0

% N ₂	6.50	% H ₂ S	0
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d 2.441 F₁ 0.010263 GH 7/83

$\frac{P_{Cr}}{T_{Cr}} = \frac{664}{323}$

LINE	(1)	(2)	(3)	(4)					
1 Q_m	1.587	1.043		0.643					
2 T_w (W.H. °R)	520	520							
3 T_s (B.H. °R)	665	665							
4 $T = (\frac{T_w + T_s}{2})$	593	593							
5 Z (Fst.)	0.880	0.934	0.832	0.942	0.987	1.034			
6 TZ	522	557	553	588	585	613			
7 GH/TZ	17626	16518	1664	1564	1572	15600			
8 e^3 (Table XIV)	1.8367	1.8579	1.8666	1.7476	1.8028	1.7551			
9 $1-e^3$ (Table XIV)	0.4836	0.4618	0.4643	0.4436	0.4453	0.4802			
10 P_1	3532	4003		4523		4983			
11 $P_1^2/1000$	12475	16508		20136		24830			
12 F_1 (Table XV)	0.010763								
13 $F_c = F_1 TZ$	5.618	5.99	5.95	5.83	6.296	6.60			
14 $F_c Q_m$	8.416	6.25	6.21	4.37	4.363	2.025			
15 $L/H (F_c Q_m)^2$	790	39	38.5	16.23	14.04	4.10			
16 $F_w = L/H (F_c Q_m)^2 (1-e^3)$	38.45	18.06	17.99	9.53	9.48	1.765			
17 $P_w^2 = P_1^2 + F_w$	12513.4	16526	16526	20239	20738	24832			
18 $P_s^2 = e^3 P_w^2$	24234	30703	30847	37275	37387	43583			
19 P_s	4922	5541	5586	6105	6114	6601			
20 $P = (\frac{P_1 + P_s}{2})$	4227	4802	4808	5329	5334	5792			
21 $P_1 = (P/P_{cr})$	6.32	7.18	7.19	7.97	7.97	8.66			
22 $T_1 = (T/T_{cr})$	1.49	-							
23 Z (Table XI)	0.878	0.932	0.932	0.887	0.887	1.036			

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AUG 2 - 1982

O.C.D.
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