

WORKSHEET FOR CALCULATION OF SIC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Adapted 9-1-65

COMPANY YPC LEASE Blevins 1K Com WELL NO. 1 DATE March 30 1978

LOCATION: Unit D Section 35 Township 19-S Range 26-E

L 8647 H 8647 L/H 1.000 G 0.618 % CO₂ 0.39 % N₂ 0.28 % H₂S N/I
 $2\frac{3}{8} - 8588/3-93$ 34180
 $50(10.3)$ 517
 $9(4.30)$ 41
 $4-3\frac{3}{8} - 8647/10012-35-35$
2.00453 F_i 1017.51 GH 5343.8
P_{cr} 672 T_{cr} 263
TABLE IX A 1 TABLE IX A 1

LINE	SI	1	2	3	4	5	1	2	3	4
1 Q _m	—	2.072	2.767	3.950	5.885	—	2.072	2.767	3.950	5.885
2 T _w (W.H. °R)	511	530	533	536	540					
3 (B.H. °R)	603	602	601	600	599					
4 T = ($\frac{T_w + 1}{2}$)	555	566	567	568	569		566	567	568	569
5 Z (Est.)	.816	.816	.811	.805	.800		.812	.807	.804	.804
6 TZ	457.12	461.856	459.56	457.24	455.60		460.404		459.88	
7 GH TZ	11.690	11.570	11.621	11.682	11.729		11.607		11.671	
8 e ³ (Table XIV)	1.5502	1.5133	1.5462	1.5500	1.5525		1.5454		1.5491	
9 1-e ³ (Table XIV)		0.3522	0.3532	0.3548	0.3559		0.3529		0.3544	
10 F _i	2923.2	2746.2	2638.2	2406.2	1883.2		2638.2		1883.2	
11 F _i 2/1000	8545.1	7541.6	6960.1	5789.8	3546.4		6960.1		3546.4	
12 F _i (Table XV)	43837	43389	43579	41382	43984		43525		43765	
13 F _c = F _i TZ		8.1010	8.0656	8.020	7.9912		8.0755		8.0312	
14 F _c Q _m		16.785	22.3175	31.92	47.052		22.3175		47.288	
15 L/H (F _c Q _m) ²		281.74	498.07	1018.86	2213.9		498.07		2236.1	
16 F _w = L/H (F _c Q _m) ² (1-e ³)		99.2	195.9	361.5	789.9		196.2		792.5	
17 F _w ² = P _i ² + F _w		7640.8	7136.0	6151.3	4334.3		7136.3		4338.9	
18 P _s ² = e ³ P _w ²	13250	11792.0	11033.7	9534.5	6724.0		11028.4		6721.4	
19 P _s	3640	3434.0	3321.7	3082.8	2594.0		3320.9		2592.6	
20 P = ($\frac{P_i + P_s}{2}$)	3281.7	3090.1	2979.9	2742.0	2238.6		2979.6		2237.9	
21 P _r = (P/P _{cr})	4.883	4.593	4.434	4.088	3.331		4.434		3.330	
22 T _r = (T/T _{cr})	1.5385	1.559	1.562	1.565	1.569		1.562		1.569	
23 Z (Table XI)	0.816	0.812	0.805	0.804			0.812		0.804	