

WORKSHEET FOR CALCULATION OF SIC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Adopted 9-1-65

COMPANY YPC LEASE 2411 SW 1/4 Sec 36 T11N R11E WELL NO. 1 DATE 4-15-80

LOCATION: Unit F Section 24 Township 11N Range 24E

L 6550 H 8100 L/H 1000 G 6.65 % CO₂ 0.25 % N₂ 1.14 % H₂S 11.1

d 2.2550 F₁ 0.012715 GH 2.80 P_{cr} 664 T_{cr} 275
TABLE IX B X TABLE IX B X

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	—	0.400	1.050	1.625	2.100																		
2 T _w (W.H. °R)	534	510	515	519	522																		
3 T _s (B.H. °R)	581	581	581	581	581																		
4 T = (T _w + T _s)	543	546	548	550	551																		
5 Z (Est.)	0.700	0.700	0.700	0.700	0.700																		
6 T _Z	0.950	0.950	0.950	0.950	0.950																		
7 GH/T _Z	10.5028	10.5028	10.5028	10.5028	10.5028																		
8 e ^s (Table XIV)	1.44936	1.44841	1.44752	1.44667	1.44586																		
9 1 - e ^s (Table XIV)		0.32268	0.32268	0.32268	0.32268																		
10 P _i	1732.2	1583.2	1516.2	1456.2	1398.2																		
11 P _i 2/1000	2000.5	2506.5	2206.4	1979.4	1883.7																		
12 F _i (Table XV)	0.00000	0.03948	0.05578	0.05804	0.05726																		
13 F _i = F _i T _Z		6.35802	6.44792	6.44792	6.44792																		
14 F _i Q _m		5.303	7.051	10.000	14.418																		
15 L/H (F _i Q _m) ²		28.18	55.50	115.94	207.87																		
16 F _w = L/H (F _i Q _m) ² (1 - e ^s)		0.2	11.9	36.7	64.7																		
17 P _w ² = P _i ² + F _w		2515.0	2304.6	2014.1	1628.4																		
18 P _s ² = e ^s P _w ²	0500.0	3753.6	3299.2	2948.0	2872.0																		
19 P _s	2121.2	1932.2	1832.8	1719.0	1546.0																		
20 P = (P _i + P _s)	1966.0	1757.9	1678.0	1566.0	1402.5																		
21 P _i = (P/P _{cr})	2.880	2.627	2.508	2.324	2.096																		
22 T _i = (T/T _{cr})	1.448	1.456	1.461	1.467	1.469																		
23 Z (Table XI)	0.7475	0.763	0.772	0.785	0.801																		