

WORKSHEET FOR CALCULATION OF S.I. IC COLUMN WELLHEAD PRESSURE (PW)

S₁ = 4173 S₂ = 4149 S₃ = 41216 S₄ = 40407 S₅ = 40338 S₆ = 40300

COMPANY YPC LEASE Gossett EU WELL NO. 1 DATE 1-24-77

LOCATION: Unit K Section 26 Township 17-S Range 25-E

L 6621 H 6621 L/H 1.000 G 0.686 % CO₂ 1.37 % N₂ 0.99 % H₂S 11.7

$(4\frac{1}{2}'' 10.5^{\circ} - 2\frac{3}{8} 26835) - 0.588 17\frac{1}{4}$ d_{eff} = $3.28275 F_1 - 0.04855 GH - 4502$ T_{Cr} 382.5

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	S1	0.300	0.562	0.810	0.940	S1																	
2 T _w (W.H. OR)	S10	511	512	513	514																		
3 T _s (B.H. OR)	592	591	590	589	588																		
4 T = $(\frac{L}{W} \cdot \frac{T}{15})$	551	551	551	551	551																		
5 Z (Est.)	75	74	745	75	765																		
6 T _Z	412.25	407.74	410.495	413.25	421.515																		
7 GH/TZ	10.431	11.139	11.065	10.991	10.775																		
8 e ^s (Table XIV)	1.510	1.5184	1.5142	1.510	1.4979																		
9 1 - e ^s (Table XIV)		0.33414	0.3396	0.3378	0.33241																		
10 P ₁	1853.2	1760.2	1643.2	1515.2	1428.2																		
11 P ₁ ² /1000	3434.25	3098.30	2702.11	2295.83	2068.42																		
12 F ₁ (Table XV)																							
13 F ₂ = F ₁ T _Z		1.9796	1.9930	2.0063	2.0465																		
14 F ₂ Q _m		0.5039	1.1200	1.6251	1.9237																		
15 L/H (F ₂ Q _m) ²		0.353	1.2545	2.641	3.900																		
16 F _w = L/H (F ₂ Q _m) ² (1 - e ^s)		0.12	0.43	0.89	1.23																		
17 P _w ² = P ₁ ² + F _w		3098.42	2900.54	2296.72	2039.65																		
18 P _s ² = e ^s P _w ²	5185.90	4704.64	4089.16	3468.05	3100.13																		
19 P _s	2297.2	2164.0	2022.2	1862.3	1730.7																		
20 P = $(\frac{P_1}{2} + \frac{P_s}{2})$	2065.2	1964.6	1832.6	1688.7	1599.5																		
21 P _i = P/P _{Cr}	3.066	2.917	2.721	2.507	2.375																		
22 T _i = (T/T _{Cr})	1.440	1.440	1.440	1.440	1.440																		
23 Z (Table XI)	736	0.740	0.745	0.7575	0.765																		