

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

DATE 7-23-80

COMPANY YPC LEASE Five Mile Draw LX Federal WELL NO. 1 Section 24 Township 6S Range 2SE

LOCATION: Unit 0 5725 H 5725 LH 1000 G 0.645 %CO₂ 0.22 %N₂ 5.31 %H₂S N1
L 278-4793 (5958/20437) F₁ 1006897 GH 3693 (flowing) P_{CF} 684 T_{CF} 3665
278.8% 5725 (17.36/11523) 5725 (17.823/43465) L = 3821 GH = 2465 (Station) 0.710 H₂O

LINE	SI	1	2	3	4				
1 Q _m	-	0.489	0.669	0.912	1.220				
2 T _w (W.H. °R)	552	546	547	549	550				
3 T _s (B.H. °R)	555	558	558	558	558				
4 T = (T _w + T _s)	545.5	552	552.5	553.5	554				
5 Z (E _s .)	8483	8695	875	8815	8925				
6 TZ	462.176	479.96	483.44	487.91	494.445				
7 GH/TZ	5.3267	7.694	7.639	7.569	7.4690				
8 e ^s (Table XIV)	1.2211	1.3345	1.3317	1.3282	1.32325				
9 1-e ^s (Table XIV)		0.2506	0.2491	0.2471	0.2443				
10 P ₁	1028.2	889.2	852.2	801.2	725.2				
11 P ₂ = P ₁ /1000	1057.2	790.68	726.24	641.9	525.9				
12 F ₁ (Table XV) $\frac{GH}{P_1}$	0.19975	0.28854	0.28646	0.28384	0.28009				
13 F ₂ = F ₁ TZ		3.3103	3.3343	3.3651	3.4102				
14 F ₃ Q _m		1.619	2.2306	3.069	4.160				
15 L/H (F ₃ Q _m) ²		2.620	4.976	9.419	17.31				
16 F _w = L/H (F ₃ Q _m) ² (1-e ^s)		0.66	1.24	2.3	4.2				
17 P ₂ ² = P ₁ ² + F _w		791.34	727.48	644.2	530.1				
18 P ₂ ² = e ^s P _w ²	1290.9	1056.0	968.8	855.6	701.45				
19 P ₂	1136.2	1027.6	984.3	925.0	837.5				
20 P = (P ₁ + P ₂)	1082.2	958.4	918.2	863.1	781.4				
21 P ₁ = (P/P _{CF})	1.532	1.401	1.342	1.262	1.142				
22 T ₂ = (T/T _{CF})	1.488	1.506	1.5075	1.510	1.5115				
				0.8815	0.8925				