

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

C-112D
Adopted 9-1-65

COMPANY YIP

LEASE No. Millman Unit

WELL NO. 2

DATE 1-7-81

LOCATION: Unit Gr

Section 8

Township 19S

Range 28E

L 10900

H 10900

LH 1020

G 0.623

% CO₂ 0.46

% N₂ 0.31

% H₂S N/A

$\frac{1}{2} \times 108 \times 10^{-5} \times 100 = 0.0054$
 $\frac{1}{2} \times 11 \times 10^{-5} \times 100 = 0.0011$
 $\frac{1}{2} \times 66 \times 10^{-5} \times 100 = 0.0033$
 $\frac{1}{2} \times 10400 \times 10^{-5} \times 100 = 0.052$

F₁ 0.004773 GH 6791

P_{Cr} 674 T_{Cr} 364

TABLE 10.1

LINE	S1	1	2	3	4	S1	1	2	3	4
1 Q _w	—	1.044	1.497	2.073	2.520	—	1.044	1.497	2.073	2.520
2 T _w (W.H. OR)	513	524	532	537	539	—	—	—	—	—
3 T _w (B.H. OR)	627	625	624	623	622	—	—	—	—	—
4 T _w (W.H. OR)	570	574.5	573	566	565	—	—	—	—	—
5 T _w (B.H. OR)	586	585	581.5	573.5	568	—	—	—	—	—
6 T _w	493.62	468.18	469.44	460.63	516.645	—	—	—	—	—
7 Q _H T _w	13.7575	14.564	14.493	14.213	13.144	—	—	—	—	—
8 Q _H S (Table XIV)	1.67516	1.72227	1.7211	1.7043	1.6371	—	—	—	—	—
9 Q _H S (Table XIV)	—	0.4143	0.4146	0.4135	0.3872	—	—	—	—	—
10 P ₁	3.52172	2.49442	2.49222	1.7212	2.522	—	—	—	—	—
11 P ₁ & 1000	1.12037	0.2403	0.2403	0.2403	0.2403	—	—	—	—	—
12 P ₁ (Table XV)	0.54540	0.54544	0.54544	0.54542	0.49292	—	—	—	—	—
13 P ₁ = P ₁ T _w	—	1.15754	1.1564	1.15674	1.15692	—	—	—	—	—
14 P ₁ S _w	—	0.2255	0.2264	0.2265	0.2264	—	—	—	—	—
15 L _H (F ₁ S _w) ²	—	27.4	47.64	47.65	161.90	—	—	—	—	—
16 F ₁ = L _H / (F ₁ S _w) ² (1-e ⁻²)	—	11.5	19.7	32.7	630	—	—	—	—	—
17 P _w = P ₁ + F ₁	—	62.575	47.65	361.02	737.2	—	—	—	—	—
18 P _w = 0.5 P _w	18.2680	10.730	7.5340	511.49	1292.0	—	—	—	—	—
19 P _w	0.5522	5.2332	2.9432	2.2614	1136.7	—	—	—	—	—
20 P _w = (P _w - F ₁)	3.52172	2.2412	2.4170	1.9104	944.4	—	—	—	—	—
21 P _w = (P _w - F ₁)	5.697	4.290	3.586	2.955	1475	—	—	—	—	—
22 P _w = (P _w - F ₁)	1.366	0.970	0.970	0.970	0.970	—	—	—	—	—