

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (Kor P₂)
FROM KNOWN BOTTOM HOLE PRESSURE (Kor P₁)

Form No. 1
Revised 10-1-65

COMPANY Perry F. Bass LEASE JAMES RANCH Unit 7 WELL NO. 13 DATE 9-13-82

LOCATION: Unit E Section 6 Township 23 S Range 31 E

L. 13380 H. 13380 L/H 1.000 G. .6218 % CO₂ .456 % N₂ 1.229 % H₂S _____

GH 8320 P_{cr} 671 T_{cr} 365

LINE	1	2	3	4	5	6	7	8
1	T ₂ (W.H. °F)	534	534	534	534	534	534	534
2	T ₂ (B.H. °F)	668	668	668	668	668	668	668
3	T ₂ ($\frac{T_w + T_g}{2}$)	601	601	601	601	601	601	601
4	Z (Est.)	.837	.837	.836	.838	.842	.840	.836
5	TZ	503.0	503.0	502.4	503.6	506.0	504.8	502.4
6	GH TZ	16.540	16.540	16.559	16.520	16.441	16.480	16.559
7	P ₁ (Table XIV)	1.859	1.859	1.861	1.858	1.853	1.855	1.861
8	P ₁ or P _s	2691.2	2691.2	2636.2	2636.2	2531.2	2531.2	2401.2
9	P ₁ ² or P _s ²	7242.6	7242.6	6949.6	6949.6	6407.0	6407.0	5765.8
10	P ₂ ² = P ₁ ² /es or P _w ² = P _s ² /es	3895.1	3895.1	3734.9	3740.3	3458.6	3453.5	3098.7
11	P _c or P _w	1973.6	1973.6	1932.6	1934.0	1859.7	1858.4	1760.3
12	P ₁ ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_1}{2}$)	2332.4	2332.4	2284.4	2285.1	2195.5	2194.8	2080.8
13	P _f = (P/P _{cr})	3.48	3.48	3.40	3.41	3.27	3.27	3.10
14	T ₂ = (T/T _{cr})	1.65	1.65	1.65	1.65	1.65	1.65	1.65
15	Z (Table XI)	.837	.837	.838	.838	.840	.840	.842