

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_w or P_s)
FROM KNOWN BOTTOM HOLE PRESSURE (P_b or P_s)

Form C-122F
Adopted 9-1-65

COMPANY

Southland Property Lease

WELL NO. 1

DATE

12-30-86

LOCATION: Unit

G

Section

4

Township

20

Range

29

L 10,453

H 10,453

L/H 1.00

G .680

% CO₂ .382

% N₂ .370

% H₂S

GH 7108

P_{CT}

669

T_{CT}

385

Rate 1

Rate 2

Rate 3

Rate 4

NE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	534	534	534	534	534	534	534
2	T _s (B.H. °R)	640	640	640	640	640	640	640
3	T _i ($\frac{T_w + T_s}{2}$)	587	587	587	587	587	587	587
4	Z (Est.)	.780	.795	.783	.798	.787	.802	.793
5	TZ	457.9	466.7	459.6	468.4	461.9	470.8	465.5
6	GH/TZ	15.524	15.231	15.465	15.174	15.386	15.058	15.269
7	e ^s (Table XIV)	1.790	1.770	1.786	1.767	1.781	1.761	1.773
8	P_s or P _s	1920.6	1920.6	1878.8	1878.8	1816.0	1816.0	1708.6
9	P_s or P _s ²	3688.7	3688.7	3525.9	3529.9	3297.9	3297.9	2915.3
10	P _C ² = P _i ² /e ^s or P _w ² = P _s ² /e ^s	2060.8	2083.6	1976.5	1998.2	1852.0	1872.1	1646.6
11	P_w or P _w	1435.6	(1443.5)	1405.9	(1413.6)	1360.9	(1368.3)	1283.2
12	P _i ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_i}{2}$)	1678.1	1682.0	1642.3	1646.2	1588.4	1592.1	1495.9
13	P _i = (P/P _{CT})	2.51	2.51	2.45	2.46	2.37	2.38	2.24
14	T _i = (T/T _{CT})	1.52	1.52	1.52	1.52	1.52	1.52	1.52
15	Z (Table XI)	.795	.795	.798	.798	.802	.801	.809