

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_{wf} or P_w)

FROM KNOWN BOTTOM HOLE PRESSURE (P_{bf} or P_b)

Form C-122F
Adopted 9-1-65

COMPANY

Penac

LEASE

Dave Ford Com

WELL NO.

2

DATE

10-22-79

LOCATION: Unit

N

Section

35

Township

19 South

Range

28 East

L 11173

H 11173

L/H 1.000

G 1.607

% CO₂

2

% N₂

2

% H₂S

3.4

4.24

GH 6782

P_{cr} 671

T_{cr} 362

TABLE IX B X
2.24

TABLE IX B X
2.24

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2.24

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2.24

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2.24

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	534	534	534	534	534	534	534
2	T _g (B.H. °R)	646	646	646	646	646	646	646
3	T = (T _w + T _g) / 2	590	590	590	590	590	590	590
4	Z (Est.)	.904	.872	.896	.864	.877	.849	.823
5	TZ	533.4	514.5	528.6	509.8	517.4	500.9	493.8
6	GH/TZ	12.716	13.182	12.829	13.304	13.107	13.539	13.733
7	e ^s (Table XIV)	1.611	1.639	1.618	1.647	1.635	1.662	1.674
8	P _f or P _s	4194.2	4194.2	4082.2	4082.2	3822.2	3822.2	3199.2
9	P _f ² or P _s ²	17591.3	17591.3	16664.4	16664.4	14609.2	14609.2	10234.9
10	P _c ² = P _f ² / e ^s or P _w ² = P _s ² / e ^s	10919.7	10730.3	10300.4	10118.4	8936.4	8792.7	6115.3
11	P _c or P _w	3304.5	3275.7	3209.4	3181.0	2989.4	2965.3	2472.9
12	P _c (P _w + P _s) / 2 or (P _c + P _f) / 2	3249.3	3235.0	3145.8	3131.6	3405.8	3393.7	2836.1
13	P _f = (P / P _c)	5.59	5.57	5.43	5.41	5.08	5.06	4.23
14	T _f = (T / T _{cr})	1.63	1.63	1.63	1.63	1.63	1.63	1.63
15	Z (Table XI)							