

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_w or P_s)

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_b or P_s)

COMPANY Belec LEASE Sakay WELL NO. 11-30-83 DATE 11-30-83

LOCATION: Unit L Section 20 Township 23 S Range 3 E

L 11,358 H 11,350 L/H 1.00 G 6.10 % CO₂ 1.757 % N₂ 4.658 % H₂S

GH 6924 P_{CT} 666 T_{CT} 347

TABLE IX & X

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LINE	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)	647	647	647	647	647	647	647
3	$T = \frac{T_w + T_s}{2}$	590	590	590	590	590	590	590
4	Z (Est.)	1.137	1.084	1.011	.971	.887	.867	.874
5	TZ	671.4	640.1	597.0	573.4	538.5	511.9	516.1
6	GH/TZ	10.31	10.82	11.59	12.08	13.22	13.52	13.42
7	e^S (Table XIV)	1.47	1.50	1.54	1.57	1.62	1.66	1.65
8	P_b or P_s	6716.2	6716.2	5256.2	3914.1	3914.2	1927.2	1927.2
9	P_b^2 or P_s^2	45107.3	45107.3	27627.6	15320.2	15320.2	3714.1	3714.1
10	$P_c^2 = P_b^2 / e^S$ or $P_w^2 = P_s^2 / e^S$	30640.2	30666.3	17883.7	9459.6	9331.9	2236.6	2245.7
11	P_c or P_w	5535.4	5483.3	4288.9	4191.2	3054.8	1495.5	1498.6
12	$P_c \left(\frac{P_w + P_s}{2} \right)$ or $\left(\frac{P_c + P_b}{2} \right)$	6125.8	6099.7	4742.6	4723.7	3494.9	3484.5	1712.9
13	$P_T = (P/P_{CT})$	9.16	9.16	7.12	7.09	5.25	2.57	2.57
14	$T_T = (T/T_{CT})$	1.70	1.70	1.70	1.70	1.70	1.70	1.70
15	Z (Table XI)	1.821	1.801	1.71	1.69	1.67	1.66	1.66