

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_g or P_s)

COMPANY Sevillano & Sons WELL NO. 1 DATE 4-15-86

LOCATION: Unit L Section 14 Township 18S Range 28E

L 16 439 H 16 439 L/H 1.00 G 6.27 % CO₂ 1.172 % N₂ 3.75 % H₂S

GH 6539 Pct 474 Tcr 367

TABLE IX & X TABLE IX & X

NE	1	2	3	4	5	6	7	8
1 $T_w/(W.H. \cdot R)$	534	534	534	534	534	534	534	534
2 $T_s(B.H. \cdot R)$	635	638	638	638	638	638	638	638
3 $T = (T_w + T_s) / 2$	586	586	586	586	586	586	586	586
4 Z (Est.)	1.818	817	814	818	817	822	822	830
5 TZ	422.3	428.8	478.2	479.3	478.8	481.7	481.7	486.4
6 GH/TZ	13.64	13.65	13.67	13.64	13.66	13.58	13.58	13.44
7 e^s (Table XIV)	1.668	1.667	1.670	1.668	1.669	1.664	1.664	1.656
8 P_g or P_s	2680.2	2680.2	2584.2	2584.2	2402.2	2402.2	2122.2	2122.2
9 P_f^2 or P_s^2	7183.5	7183.5	6678.1	6678.1	5770.6	5770.6	4503.7	4503.7
10 $P_c^2 = P_f^2 / e^s$ or $P_w^2 = P_s^2 / e^s$	4306.9	4304.2	3993.9	4003.9	3457.7	3468.4	2701.0	2720.3
11 P_g or P_w	2075.3	2074.1	1999.7	2000.9	1859.5	1862.4	1645.3	1649.3
12 $P = (P_w + P_s) / 2$ or $(P_c + P_f) / 2$	2377.8	2377.4	2292.0	2292.6	2130.8	2130.3	1853.7	1855.8
13 $P_r = (P/P_{cr})$	3.53	3.53	3.40	3.40	3.16	3.16	2.79	2.79
14 $T_r = (T/T_{cr})$	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
15 Z (Table XI)	1.817	1.817	1.818	1.818	1.822	1.822	1.830	1.830

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY Scott Handberg, Inc. LEASE WELL NO. _____ DATE _____

LOCATION: Unit _____ Section _____ Township _____ Range _____

L 10,439 H 10,439 L/H 1.00 G 637 %CO₂ 1.172 %N₂ .375 %H₂S _____

GH 6539 P_{cr} 6074 T_{cr} 367

Station for 2c

Rate No 5

LINE	1	2	3	4	5	6	7	8
1 T_w (W.H. °R)	534	534					534	534
2 T_s (B.H. °R)	638	638					638	638
3 $T = (\frac{T_w + T_s}{2})$	586	586					586	586
4 Z (Est.)	.891	.816					.832	.892
5 TZ	581.1	478.2					4896	493.4
6 GH/TZ	13.59	13.67					13.41	13.95
7 e^S (Table XIV)	1.445	1.670					1.654	1.694
8 P_f or P_s	2804.2	2804.2					1848.2	1848.2
9 P_f^2 or P_s^2	7863.5	7863.5					3415.8	3415.8
10 $P_c^2 = P_f^2/e^S$ or $P_w^2 = P_s^2/e^S$	4703.5	4703.5					2065.7	2078.1
11 P_c or P_w	2173.4	2170.0					1437.3	1441.6
12 $P = (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	2448.5	2457.1					1642.7	1649.9
13 $P_r = (P/P_{cr})$	3.69	3.69					2.44	2.44
14 $T_r = (T/T_{cr})$	1.60	1.60					1.60	1.60
15 Z (Table XI)	.816						.842	.842

ILLEGIBLE

