

LEWING
ENRIS

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

Form C-132F
Adopted 9-1-64

FROM KNOWN BOTTOM HOLE PRESSURE (P_{wf} or P_w)

COMPANY OXY USA INC LEASE 601. A^E WELL NO. 5 DATE 3-28-90

LOCATION: Unit 1113R Section 11 Township 20S Range 28E

1113R H 1113R LM 1.000 G 1.639 % CO₂ 1.60 % N₂ 5.5 % H₂S —

GH 7005.8 P_{cr} 675 T_{cr} 364

* = MVD. PERSES
* * = ASSUMED TO BE 1.60% CO₂

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534	534	534	534	534	534	534
2	$T_g(B.H. \cdot R)$	645	645	645	645	645	645	645
3	$T_f(T_w + T_g)$	589.5	589.5	589.5	589.5	589.5	589.5	589.5
4	Z (Est.)	.871	.844	.840	.824	.819	.817	.820
5	TZ	573.4	497.5	495.1	485.7	482.2	481.6	483.3
6	GH/TZ	13.644	12.080	12.127	12.222	12.328	12.446	12.453
7	e^8 (Table XIV)	1.668	1.655	1.650	1.717	1.724	1.725	1.722
8	B_{pr} or P_g	3767.2	3767.2	3280.2	3280.2	2707.2	2707.2	2194.2
9	P_{pr}^2 or P_g^2	14191.7	14191.7	10939.7	10939.7	7328.9	7328.9	4814.5
10	$P_{pr}^2 = P_{pr}^2/e^8$ or $P_w^2 = P_g^2/e^8$	8507.9	8369.7	6329.7	6264.8	4250.3	4247.5	2795.8
11	B_{pr} or P_w	2916.8	2895.1	2515.8	2503.0	2061.0	2061.0	1672.0
12	$P_{pr} \cdot (\frac{P_w + P_g}{2})$ or $(\frac{P_{pr} + P_g}{2})$	3342.0	3330.1	2898.0	2891.5	2384.4	2354.0	1933.1
13	$P_{pr} = (P/P_{pr})$	4.95	4.93	4.29	4.28	3.53	3.53	2.86
14	$T_f = (T/T_{cr})$	1.61	1.61	1.61	1.61	1.61	1.61	1.61
15	Z (Table XI)	.844	.844	.824	.824	.817	.817	.829