

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 AMINOIL USA, INC. LEASE VASQUEZ WELL NO. 1 DATE 11/28/80

LOCATION: Unit F Section 3 Township 24s Range 28e

11515 H 11515 L/H 1.000 G .580 % CO₂ .012 % N₂ .017 % H₂S

GH 6679 Pcr 672 Tcr 350
TABLE IX & X TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H., R)$	534	534	534	534	534	534	534
2	$T_s(B.H., R)$	649	649	649	649	649	649	649
3	$T = (\frac{T_w + T_s}{2})$	591.5	591.5	591.5	591.5	591.5	591.5	591.5
4	Z (Est.)	.855	.858	.856	.859	.857	.860	.858
5	TZ	505.7	507.5	506.3	508.1	506.9	508.7	507.5
6	GH/TZ	13.207	13.160	13.191	13.145	13.176	13.130	13.099
7	e^S (Table XIV)	1.641	1.638	1.640	1.637	1.639	1.636	1.634
8	P_f or P_s	2567.2	2567.2	2510.2	2439.2	2439.2	2358.2	2358.2
9	P_f^2 or P_s^2	6590.5	6590.5	6301.1	5949.7	5949.7	5561.1	5561.1
10	$P_g^2 = P_f^2/e^S$ or $P_w^2 = P_s^2/e^S$	4016.3	4023.4	3842.3	3848.9	3630.0	3636.3	3402.8
11	P_g or P_w	2004.1	2005.8	1960.2	1961.9	1905.3	1906.9	1844.7
12	$P = (\frac{P_w + P_s}{2})$ or $(\frac{P_g + P_f}{2})$	2285.6	2286.5	2235.2	2236.0	2172.2	2173.1	2101.4
13	$P_r = (P/P_{cr})$	3.40	3.40	3.33	3.33	3.23	3.23	3.13
14	$T_r = (T/T_{cr})$	1.69	1.69	1.69	1.69	1.69	1.69	1.69
15	μ (Table XI)	.858	.858	.859	.859	.860	.860	.862

Artesia, New Mexico 88210

COMPANY AMINOIL WELL NAME VASQUEZ #1
DATE OF TEST 11-28-80 TO 11-30-80 LOCATION WILDCAT ATOKA PAGE 1 OF 1

ELEMENT NUMBER RPG3# 46519, 0-10,000 LB. RANGE
TIME WELL SHUT IN 1400 11-22-80
TIME CLOCK STARTED 0832
DEAD WEIGHT ELEMENT ON SURFACE 2073 LBS.
TIME ELEMENT REACHED BOTTOM 0944
DEAD WEIGHT ELEMENT ON BOTTOM 2063 LBS. ::
ELEMENT SET AT 11.490 FEET

[illegible]