446275

OTIS GAS FLOW RATE CALCULATIONS

OEC-862-1-B

TEST NUMBER	RATE NUMBER	AREA	WELL NAME OR NUMBER	DATE (DAY, MO, YR)	PAGE	OF
DST#6	ONE	BASS STRAIT	PELICAN #5	11APR86	2	2

CUSTOMER	STANDARD CONDITIONS	ATM. PRESS	P_c=	T_c=	MEAS. / EST.	GAS SPECIFIC GRAVITY-G
AMOCO AUSTRALIA PETROLEUM CO.	X 14.73 psi 60 °F / OTHER		660.37	426.80	EST. X	0.820

METER TYPE	METER RUN SIZE (INCHES)	FLOW RECORDER TYPE	h_w RANGE (INCHES WATER)	STATIC PRESS RANGE (psi)	FU TABLE PREV. PAGE	$F_g = \sqrt{1/G}$	$C_1 = F_u \times F_g$
DANIEL SENIOR	5.761	BARTON 202A	0-100	0-1500	24	1.1043	26.5032

DAY / TIME (24 HR CLOCK)	FLOW TIME (HOURS)	STATIC PRESSURE P_f (psia)	DIFFERENTIAL PRESSURE h_w (INCHES WATER)	DOWN STREAM GAS TEMP. (°F)	$\sqrt{h_w P_f}$	ORIFICE SIZE d (INCHES)	$C_2 = F_b \times F_{tf} \times F_{pv} \times Y_2$: F_b	F_{tf}	F_{pv}	Y_2	C_2	C ($C=C_1 \times C_2$)	CORRECTED GAS FLOW RATE $Q_g = C\sqrt{h_w P_f}$ (M MSCF/D)
1 11 1530	7.30	320	45	51	120.00	2.250	1039.46	1.0087	1.0554	1.0009	1107.689	29357.3	1 3.521439
2 11 1545	7.55	325	45	52	120.93	2.250	1039.46	1.0077	1.0559	1.0008	1107.195	29344.2	2 3.547286
3 11 1600	7.80	330	44	52	120.49	2.250	1039.46	1.0077	1.0569	1.0008	1108.193	29370.6	3 3.537737
4 11 1615	8.05	335	42	52	118.61	2.250	1039.46	1.0077	1.0579	1.0008	1109.175	29396.7	4 3.485592
5 11 1630	8.30	335	42	52	118.61	2.250	1039.46	1.0077	1.0579	1.0008	1109.175	29396.7	5 3.485592
6 11 1645	8.55	335	42	52	118.61	2.250	1039.46	1.0077	1.0579	1.0008	1109.175	29396.7	6 3.485592
7 11 1700	8.80	335	42	52	118.61	2.250	1039.46	1.0077	1.0579	1.0008	1109.175	29396.7	7 3.485592
8 11 1715	9.05	330	43	52	119.12	2.250	1039.46	1.0077	1.0569	1.0008	1108.172	29370.1	8 3.497236
9 11 1730	9.30	325	44	52	119.58	2.250	1039.46	1.0077	1.0559	1.0008	1107.173	29343.6	9 3.507580
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