446276

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	TWO	BASS STRAIT	PELICAN #5	12APR86	1	1

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 12 0245	3.57	400	42	100	129.61	2.750	1582.04	0.9636	1.0505	1.0006	1602.534	42472.3	5.503257
2 12 0300	3.82	395	45	100	133.32	2.750	1582.04	0.9636	1.0498	1.0007	1601.560	42446.4	5.657232
3 12 0315	4.07	395	43	100	130.32	2.750	1582.04	0.9636	1.0498	1.0006	1601.510	42445.1	5.529914
4 12 0330	4.32	395	42	100	128.80	2.750	1582.04	0.9636	1.0498	1.0006	1601.485	42444.4	5.465149
5 12 0345	4.57	390	43	100	129.49	2.750	1582.04	0.9636	1.0491	1.0006	1600.464	42417.4	5.491189
6 12 0400	4.82	395	43	100	130.32	2.750	1582.04	0.9636	1.0498	1.0006	1601.510	42445.1	5.529914
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