446273

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#4	TWO	BASS STRAIT	PELICAN #5	27MAR86	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		659.91	429.95	EST. X	0.830

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	1.0976	26.3424

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 $Q_g = C\sqrt{h_w P_f}$ (___MSCF/D)
1 27 0720	0.83	48	36	63	41.56	1.500	455.03	0.9971	1.0070	1.0050	459.207	12096.6	501.45
2 27 0730	1.00	45	35	64	39.68	1.500	455.03	0.9961	1.0065	1.0052	458.632	12081.4	478.04
3 27 0740	1.17	45	32	63	37.94	1.500	455.03	0.9971	1.0065	1.0047	458.884	12088.1	457.35
4 27 0750	1.33	45	32	63	37.94	1.500	455.03	0.9971	1.0065	1.0047	458.884	12088.1	457.35
5 27 0800	1.50	45	31	64	37.34	1.500	455.03	0.9961	1.0065	1.0046	458.359	12074.3	449.63
6 27 0810	1.67	45	30	64	36.74	1.500	455.03	0.9961	1.0065	1.0044	458.291	12072.5	442.25
7 27 0820	1.83	45	29	64	36.12	1.500	455.03	0.9961	1.0065	1.0043	458.223	12070.7	434.75
8 27 0830	2.00	47	28	64	36.27	1.500	455.03	0.9961	1.0068	1.0039	458.209	12070.3	436.62
9 27 0840	2.17	47	28	65	36.27	1.500	455.03	0.9952	1.0068	1.0039	457.754	12058.3	436.19
10 27 0850	2.33	46	28	64	35.88	1.500	455.03	0.9961	1.0066	1.0040	458.181	12069.6	431.90
11 27 0900	2.50	46	28	64	35.88	1.500	455.03	0.9961	1.0066	1.0040	458.181	12069.6	431.90
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