446272

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	ONE	BASS STRAIT	PELICAN #5	26MAR86	2	2

CUSTOMER	STANDARD CONDITIONS	ATM. PRESS	P_c=	T_c=		GAS SPECIFIC GRAVITY-G
AMOCO AUSTRALIA PETROLEUM CO.	X 14.73 psi 60 °F ☐ OTHER		659.91	429.95	MEAS. ☐ 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 26 1215	18.73	65	45	77	54.08	1.000	200.95	0.9840	1.0088	1.0046	200.419	5279.5	284.95
2 26 1230	18.98	65	46	77	54.68	1.000	200.95	0.9840	1.0088	1.0047	200.439	5280.0	288.12
3 26 1245	19.23	65	46	77	54.68	1.000	200.95	0.9840	1.0088	1.0047	200.439	5280.0	288.12
4 26 1300	19.48	65	47	77	55.27	1.000	200.95	0.9840	1.0088	1.0048	200.460	5280.6	291.27
5 26 1315	19.73	65	46	75	54.68	1.000	200.95	0.9858	1.0089	1.0047	200.835	5290.4	288.69
6 26 1330	19.98	65	45	74	54.08	1.000	200.95	0.9868	1.0089	1.0046	201.013	5295.1	285.79
7 26 1345	20.23	63	43	73	52.04	1.000	200.95	0.9877	1.0087	1.0045	201.142	5298.5	275.20
8 26 1400	20.48	59	47	72	52.65	1.000	200.95	0.9886	1.0082	1.0053	201.382	5304.9	278.72
9 26 1415	20.73	62	46	71	53.40	1.000	200.95	0.9895	1.0087	1.0049	201.594	5310.4	282.99
10 26 1430	20.98	59	49	70	53.76	1.000	200.95	0.9905	1.0083	1.0055	201.828	5316.6	285.22
11 26 1445	21.23	60	51	70	55.31	1.000	200.95	0.9905	1.0084	1.0057	201.883	5318.0	293.53
12 26 1500	21.48	63	53	70	57.78	1.000	200.95	0.9905	1.0089	1.0056	201.958	5320.0	306.76
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