

OTIS GAS FLOW RATE CALCULATIONS
OEC-862-1-B

TEST NUMBER DST#4	RATE NUMBER ONE	AREA BASS STRAIT	WELL NAME OR NUMBER PELICAN #5	DATE (DAY, MO, YR) 26 MAR 84	PAGE 1	OF 2
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CUSTOMER AMOCO AUSTRALIA PETROLEUM CO.	STANDARD CONDITIONS X 14.73 psi 60 °F	OTHER	ATM. PRESS P _c = 659.91	T _c = 429.95	MEAS. <input type="checkbox"/>	GAS SPECIFIC GRAVITY-G EST. <input checked="" type="checkbox"/> 0.830
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METER TYPE DANIEL SENIOR	METER RUN SIZE (INCHES) 5.761	FLOW RECORDER TYPE BARTON 202A	h _w RANGE (INCHES WATER) 0-100	STATIC PRESS RANGE (psi) 0-1500	F _u TABLE PREV. PAGE 24	F _g = √1/G 1.0976	C ₁ = F _u X F _g 26.3424
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DAY TIME (24 HR CLOCK)	FLOW TIME (HOURS)	STATIC PRESSURE P ₁ (psia)	DIFFERENTIAL PRESSURE h _w (INCHES WATER)	DOWN STREAM GAS TEMP. (°F)	√h _w P _f	ORIFICE SIZE d (INCHES)	C ₂ = F _b X F _{tf} X F _{pv} X Y ₂				C ₂	C (C=C ₁ X C ₂)	CORRECTED GAS FLOW RATE Q _g = C √h _w P _f (MSCF/D)
							F _b	F _{tf}	F _{pv}	Y ₂			
1 26	0745	64	61	65	62.48	1.000	200.95	0.9952	1.0093	1.0064	203.156	5351.6	333.68
2 26	0800	62	62	66	62.00	1.000	200.95	0.9942	1.0089	1.0067	202.955	5346.3	330.76
3 26	0815	61	62	67	61.49	1.000	200.95	0.9933	1.0087	1.0068	202.744	5340.7	327.73
4 26	0830	61	61	69	61.00	1.000	200.95	0.9914	1.0086	1.0067	202.317	5329.5	324.39
5 26	0845	65	57	71	60.86	1.000	200.95	0.9895	1.0091	1.0058	201.863	5317.5	323.01
6 26	0900	68	52	72	59.46	1.000	200.95	0.9886	1.0095	1.0051	201.596	5310.5	315.17
7 26	0915	68	45	72	55.31	1.000	200.95	0.9886	1.0095	1.0044	201.457	5306.8	292.98
8 26	0930	68	44	72	54.69	1.000	200.95	0.9886	1.0095	1.0043	201.437	5306.3	289.68
9 26	0945	65	46	72	54.68	1.000	200.95	0.9886	1.0090	1.0047	201.433	5306.2	289.55
10 26	1000	63	47	72	54.41	1.000	200.95	0.9886	1.0087	1.0050	201.428	5306.1	288.12
11 26	1015	62	49	73	55.11	1.000	200.95	0.9877	1.0086	1.0053	201.260	5301.6	291.59
12 26	1030	62	49	73	55.11	1.000	200.95	0.9877	1.0086	1.0053	201.260	5301.6	291.59
13 26	1045	61	50	74	55.22	1.000	200.95	0.9868	1.0084	1.0055	201.072	5296.7	291.88
14 26	1100	62	50	75	55.67	1.000	200.95	0.9858	1.0085	1.0054	200.884	5291.7	294.00
15 26	1115	62	50	77	55.67	1.000	200.95	0.9840	1.0083	1.0054	200.490	5281.3	293.42
16 26	1130	64	50	77	56.56	1.000	200.95	0.9840	1.0086	1.0052	200.511	5281.9	298.17
17 26	1145	65	47	77	55.27	1.000	200.95	0.9840	1.0088	1.0048	200.460	5280.6	291.27
18 26	1200	65	46	77	54.68	1.000	200.95	0.9840	1.0088	1.0047	200.439	5280.0	288.12