

446274

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

TEST NUMBER DST#6	RATE NUMBER ONE	AREA BASS STRAIT	WELL NAME OR NUMBER PELICAN #5	DATE (DAY, MO, YR) 11 APR 84	PAGE 1	OF 2
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CUSTOMER AMOCO AUSTRALIA PETROLEUM CO.	STANDARD CONDITIONS <input checked="" type="checkbox"/> 14.73 psi 60 °F	OTHER <input type="checkbox"/>	ATM. PRESS P <sub>c</sub> = 660.37	T <sub>c</sub> = 426.80	MEAS. EST. <input type="checkbox"/>	GAS SPECIFIC GRAVITY-G 0.820
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METER TYPE DANIEL SENIOR	METER RUN SIZE (INCHES) 5.761	FLOW RECORDER TYPE BARTON 202A	h <sub>w</sub> RANGE (INCHES WATER) 0-100	STATIC PRESS RANGE (psi) 0-1500	FU TABLE PREV. PAGE 24	F <sub>g</sub> = √1/G 1.1043	C <sub>1</sub> = F <sub>u</sub> × F <sub>g</sub> 26.5032
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DAY TIME (24 HR CLOCK)	FLOW TIME (HOURS)	STATIC PRESSURE P <sub>s</sub> (psia)	DIFFERENTIAL PRESSURE h <sub>w</sub> (INCHES WATER)	DOWN STREAM GAS TEMP. (°F)	√ h <sub>w</sub> P <sub>f</sub>	ORIFICE SIZE d (INCHES)	C <sub>2</sub> = F <sub>b</sub> × F <sub>tf</sub> × F <sub>pv</sub> × Y <sub>2</sub>				C <sub>2</sub>	C (C=C <sub>1</sub> × C <sub>2</sub> )	CORRECTED GAS FLOW RATE Q <sub>g</sub> = C √ h <sub>w</sub> P <sub>f</sub> (M <sub>MSCF/D</sub> )
							F <sub>b</sub>	F <sub>tf</sub>	F <sub>pv</sub>	Y <sub>2</sub>			
1 11													
1100	2.80	305	48	50	120.99	2.250	1039.46	1.0097	1.0528	1.0010	1106.203	29317.9	3.545825
2 11													
1115	3.05	305	48	50	120.99	2.250	1039.46	1.0097	1.0528	1.0010	1106.203	29317.9	3.545825
3 11													
1130	3.30	305	49	50	122.24	2.250	1039.46	1.0097	1.0528	1.0010	1106.226	29318.5	3.582646
4 11													
1145	3.55	305	48	50	120.99	2.250	1039.46	1.0097	1.0528	1.0010	1106.203	29317.9	3.545825
5 11													
1200	3.80	305	49	50	122.24	2.250	1039.46	1.0097	1.0528	1.0010	1106.226	29318.5	3.582646
6 11													
1215	4.05	305	48	50	120.99	2.250	1039.46	1.0097	1.0528	1.0010	1106.203	29317.9	3.545825
7 11													
1230	4.30	305	48	50	120.99	2.250	1039.46	1.0097	1.0528	1.0010	1106.203	29317.9	3.545825
8 11													
1245	4.55	310	48	50	121.98	2.250	1039.46	1.0097	1.0538	1.0009	1107.220	29344.8	3.578086
9 11													
1300	4.80	315	48	51	122.96	2.250	1039.46	1.0087	1.0544	1.0009	1106.737	29332.0	3.605277
10 11													
1315	5.05	315	48	51	122.96	2.250	1039.46	1.0087	1.0544	1.0009	1106.737	29332.0	3.605277
11 11													
1330	5.30	315	47	51	121.67	2.250	1039.46	1.0087	1.0544	1.0009	1106.715	29331.4	3.567452
12 11													
1345	5.55	320	46	51	121.32	2.250	1039.46	1.0087	1.0554	1.0009	1107.711	29357.8	3.560422
13 11													
1400	5.80	320	46	50	121.32	2.250	1039.46	1.0097	1.0558	1.0009	1109.227	29398.0	3.565296
14 11													
1415	6.05	320	46	50	121.32	2.250	1039.46	1.0097	1.0558	1.0009	1109.227	29398.0	3.565296
15 11													
1430	6.30	320	46	50	121.32	2.250	1039.46	1.0097	1.0558	1.0009	1109.227	29398.0	3.565296
16 11													
1445	6.55	325	45	50	120.93	2.250	1039.46	1.0097	1.0568	1.0008	1110.240	29424.9	3.557039
17 11													
1500	6.80	320	47	50	122.63	2.250	1039.46	1.0097	1.0558	1.0009	1109.250	29398.6	3.603914
18 11													
1515	7.05	320	46	50	121.32	2.250	1039.46	1.0097	1.0558	1.0009	1109.227	29398.0	3.565296