CONOCOPHILLIPS COMPANY
LOS ANGELES REFINERY, WILMINGTON PLANT
SOUTH FLARE

Reporting Period: **October 1, 2003 - December 31, 2003**

Flaring Event Data

Event Start Date	Event Start Time	Event End Date	Event End Time	Average Vent Gas Flow Rate (SCFM)	Higher Heating Value (BTU/SCF)	HHV Basis	Sulfur Content (PPM as H2S)	Sulfur Basis	Total Event Flow (MSCF)
10/12/2003	4:30	10/12/2003	5:05	2000	1286	Meth 3588-91	5536	Meth 307-91	70
10/23/2003	17:45	10/23/2003	19:55	2500	1105	Meth 3588-91	4560	Meth 307-91	325
10/27/2003	4:00	10/27/2003	6:32	1400	1119	Meth 3588-91	2121	Meth 307-91	213
10/31/2003	10:37	10/31/2003	13:30	1050	116	Meth 3588-91	3881	Meth 307-91	182
12/18/2003	12:30	12/18/2003	12:58		2254	Estimation	6940	Estimation	45

DAILY EMISSIONS FROM FLARES

	EMISSIONS (LBS)					Total Gas Flow	HHV	Sulfur ppmv
Date	PM	NOX	ROG	CO	SOX as SO2	MSCF		
10/1/2003	12.2	87.3	80.8	474.8	1009.5	582	2205	10436
10/2/2003	12.7	89.6	83.0	487.7	898.0	604	2182	8946
10/3/2003	14.5	101.6	94.1	552.9	857.5	692	2160	7456
10/4/2003	21.1	146.0	135.3	794.6	996.5	1005	2137	5966
10/5/2003	20.7	141.6	131.2	770.5	732.8	985.0	2114	4476
10/6/2003	21.0	142.2	131.8	773.8	496.3	1000.0	2091	2986
10/7/2003	21.0	140.7	130.3	765.4	248.6	1000.0	2069	1496
10/8/2003	21.0	139.1	128.9	757.0	1.0	1000.0	2046	6
10/9/2003	19.4	116.7	108.2	635.2	213.5	925.0	1856	1389
10/10/2003	20.7	111.6	103.4	607.2	453.6	985.0	1666	2771
10/11/2003	21.0	100.4	93.0	546.1	690.3	1000.0	1476	4154
10/12/2003	20.4	84.8	78.6	461.5	892.5	970.0	1286	5536
10/13/2003	20.5	86.5	80.2	470.8	460.7	975.0	1305	2843
10/14/2003	19.7	84.6	78.4	460.5	23.4	940.0	1324	150
10/15/2003	21.0	95.7	88.6	520.6	112.8	1000.0	1407	678
10/16/2003	22.1	106.4	98.6	578.9	210.6	1050.0	1490	1207
10/17/2003	22.1	112.3	104.1	611.1	302.8	1050.0	1573	1735
10/18/2003	21.0	112.6	104.3	612.7	376.2	1000.0	1656	2264
10/19/2003	21.5	121.2	112.3	659.5	475.7	1025.0	1739	2792
10/20/2003	21.4	126.4	117.1	687.6	562.9	1020.0	1822	3321
10/21/2003	22.9	141.2	130.8	768.3	697.3	1090.0	1905	3849
10/22/2003	20.8	90.3	83.6	491.2	1266.4	990.0	1341	7697
10/23/2003	21.5	77.0	71.4	419.1	776.8	1025.0	1105	4560
10/24/2003	19.3	72.7	67.3	395.4	438.1	920.0	1162	2865
10/25/2003	21.5	84.9	78.7	461.9	199.3	1025.0	1218	1170
10/26/2003	18.7	70.6	65.4	384.4	243.1	889.0	1169	1646
10/27/2003	22.8	82.8	76.7	450.5	383.5	1088.0	1119	2121
10/28/2003	21.8	94.9	88.0	516.6	245.2	1038.0	1345	1422
10/29/2003	19.3	98.1	90.9	533.6	110.2	918.0	1571	722
10/30/2003	20.2	55.1	51.0	299.6	367.2	960.0	844	2302
10/31/2003	18.1	6.8	6.3	36.9	554.7	860.0	116	3881
11/1/2003	20.0	20.1	18.6	109.5	619.1	950.0	311	3921
11/2/2003	21.5	35.3	32.7	192.2	674.8	1025.0	507	3961
11/3/2003	19.7	44.9	41.6	244.2	625.2	940.0	702	4002
11/4/2003	20.0	58.0	53.7	315.5	638.2	950.0	898	4042
11/5/2003	21.0	74.3	68.9	404.4	678.4	1000.0	1093	4082
11/6/2003	21.8	81.9	75.9	445.8	890.9	1040.0	1158	5154
11/7/2003	22.6	89.5	82.9	486.8	1112.5	1075.0	1224	6227
11/8/2003	20.2	84.2	78.0	458.0	1164.6	960.0	1289	7299
11/9/2003	21.0	92.1	85.3	501.2	1391.4	1000.0	1355	8372
11/10/2003	20.7	95.1	88.1	517.6	1546.1	985.0	1420	9444
11/11/2003	21.0	101.0	93.6	549.7	1747.9	1000.0	1486	10517
11/12/2003	20.8	104.4	96.7	568.1	1906.8	990.0	1551	11589
11/13/2003	21.5	104.8	97.1	570.4	2045.2	1025.0	1504	12006
11/14/2003	21.6	102.0	94.5	555.3	2126.5	1030.0	1457	12422
11/15/2003	21.0	95.9	88.8	521.7	2133.8	1000.0	1410	12839
11/16/2003	21.2	93.6	86.7	509.4	2225.1	1010.0	1363	13255
11/17/2003	21.8	93.1	86.2	506.4	2363.2	1040.0	1316	13672
11/18/2003	22.8	93.6	86.7	509.4	2540.5	1085.0	1269	14088
11/19/2003	20.2	79.8	73.9	434.1	2314.3	960.0	1222	14505
11/20/2003	22.3	91.6	84.8	498.3	2428.2	1060.0	1270	13783
11/21/2003	21.6	92.4	85.6	502.6	2235.9	1030.0	1319	13061
11/22/2003	21.4	94.8	87.9	516.0	2091.8	1020.0	1367	12339
11/23/2003	22.3	102.0	94.5	555.2	2046.7	1060.0	1416	11618
11/24/2003	21.3	101.1	93.6	549.9	1838.0	1015.0	1464	10896
11/25/2003	23.1	113.1	104.8	615.6	1860.0	1100.0	1513	10174
11/26/2003	22.5	113.6	105.2	618.0	1680.9	1070.0	1561	9452
11/27/2003	21.0	103.8	96.1	564.6	1554.1	1000.0	1526	9351
11/28/2003	20.8	100.4	93.0	546.2	1521.9	990.0	1491	9250
11/29/2003	21.0	99.0	91.7	538.8	1520.5	1000.0	1456	9149
11/30/2003	22.9	105.3	97.6	573.2	1639.0	1090.0	1421	9047
12/1/2003	21.8	98.0	90.8	533.5	1546.3	1040.0	1386	8946
12/2/2003	22.7	99.2	92.0	540.0	1587.7	1080.0	1351	8845
12/3/2003	22.4	95.3	88.3	518.8	1547.7	1065.0	1317	8744
12/4/2003	22.3	92.4	85.6	502.6	1522.6	1060.0	1282	8643
12/5/2003	22.1	89.0	82.5	484.3	1490.6	1050.0	1247	8542
12/6/2003	21.6	84.9	78.6	461.8	1444.9	1030.0	1212	8441
12/7/2003	20.8	79.2	73.4	431.1	1372.2	990.0	1177	8339
12/8/2003	21.8	80.8	74.8	439.4	1424.0	1040.0	1142	8238
12/9/2003	22.5	80.5	74.6	438.2	1447.1	1070.0	1107	8137

12/10/2003	22.1	76.5	70.9	416.5	1402.4	1050.0	1072	8036
12/11/2003	19.5	77.6	71.8	422.0	1219.4	930.0	1226	7889
12/12/2003	22.1	98.6	91.3	536.4	1351.1	1050.0	1381	7742
12/13/2003	23.1	114.8	106.4	624.7	1388.5	1100.0	1535	7595
12/14/2003	22.3	121.8	112.8	662.5	1312.1	1060.0	1689	7448
12/15/2003	22.3	132.9	123.1	723.0	1286.2	1060.0	1843	7301
12/16/2003	21.0	135.8	125.9	739.2	1189.0	1000.0	1998	7154
12/17/2003	20.6	143.4	132.9	780.3	1141.3	980.0	2152	7007
12/18/2003	22.9	167.1	154.8	909.0	1257.3	1090.0	2254	6940
12/19/2003	21.5	164.2	152.1	893.5	1170.9	1025.0	2356	6874
12/20/2003	21.0	167.1	154.9	909.5	1131.3	1000.0	2458	6807
12/21/2003	22.6	187.1	173.4	1018.2	1204.2	1075.0	2560	6740
12/22/2003	21.6	186.4	172.7	1014.5	1142.4	1030.0	2662	6673
12/23/2003	21.0	188.0	174.1	1022.7	1098.0	1000.0	2764	6607
12/24/2003	20.8	192.9	178.8	1049.8	1076.1	990.0	2866	6540
12/25/2003	18.3	160.7	148.8	874.1	1006.1	870.0	2716	6958
12/26/2003	20.5	170.1	157.6	925.4	1195.3	975.0	2565	7377
12/27/2003	22.6	176.5	163.5	960.5	1392.7	1075.0	2415	7795
12/28/2003	22.9	167.8	155.5	913.2	1487.9	1090.0	2264	8213
12/29/2003	22.6	154.5	143.2	840.8	1542.1	1075.0	2114	8631
12/30/2003	22.7	144.2	133.6	784.6	1624.4	1080	1963	9050
12/31/2003	22.6	132.5	122.8	721.1	1691.6	1075	1813	9468
Sum for Quart	1937	9843	9119	53555	106152	92216		
Pilot/Purge Ga	7.1	657.2	15.2	161.8	237.6	1551		
Quarter Total	**1944**	**10500**	**9134**	**53717**	**106390**	**93767**		
Average Daily	**21.4**	**115.4**	**100.4**	**590.3**	**1169.1**	**1030.4**		

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SOUTH FLARE

Monitor System: System Downtime

Breakdowns and unplanned Maintenance

Start (Date/Time)	End (Date/Time)	Hours Offline	Explanation
None			
Total time for quarter		0:00:00	hours

Planned Maintenance

Start (Date/Time)	End (Date/Time)	Hours Offline	Explanation
None			
Total time for quarter		0:00:00	hours

Recordable events with no samples collected

Start Date	Start Time	End Date	End Time	Source	Explanation
None					

Assumptions:

Criteria pollutants were calculated using interpolated sample results for days with low activity and no sample.

For days that had one or more flare events the lab results or estimations were used as representative for the enitre day. This results is some over estimation and will be refined to be more representative in future reports.

Sulfur content and Higher heating value were estimated for events that did not have sample results available.

The estimates were calculated per the Rule 1118 Plan using results from similar events and similar time frames.

Estimates for unknown sources were calculated from event information during a similar time frame.

No sample required for Events with duration of 30 minutes or less per Rule 1118.