App Num	Company	Facility	Permit Number	Permit Date	Current VOC	Current NOx	Base VOC	Base NOx	Delta VOC	Delta NOx	Offset VOC	Offset NOx	DemoComments
10149	EnCana	Cabrito 61-13	CT-10149	2/5/2010	4.9	1.4	0	0	4.9	1.4	7.4	1.5	new facility
11467	EnCana	SAG 17-30 CF	CT-11467	2/25/2011	7.2	2.1	0	0	7.2	2.1	10.8	2.3	new facility
11469	EnCana	SAG 73-20 CF	CT-11469	2/25/2011	4.1	1.2	0	0	4.1	1.2	6.2	1.3	new facility
11825	EnCana	Jonah Federal 45-08H	CT-11825	6/14/2011	5.1	1.5	0	0	5.1	1.5	7.7	1.7	new facility
12143	EnCana	SAG 59-29	CT-12143	9/20/2011	5.6	1.5	0	0	5.6	1.5	8.4	1.7	new facility
12536	EnCana	Jonah Federal 24-09	CT-12536	12/20/2011	5	1.4	0	0	5	1.4	7.5	1.5	new facility
12859	EnCana	Stud Horse Butte 67-11 CF	CT-12859	2/14/2012	7.3	1.9	0	0	7.3	1.9	11	2.1	new facility
12876	EnCana	Stud Horse Butte 72-09 CF	CT-12876	2/28/2012	16.7	5.7	0	0	16.7	5.7	25.1	6.3	new facility
9128	EnCana	Section 36 Water Disposal Facility	CT-4633A	3/30/2009	1.1	2.7	1.1	2.7	0	0	0	0	Permit Actions: CT-4633A Notes: engine swap
7162	EnCana	Stud Horse Butte 48-16	CT-7162	4/1/2009	11	0.6	11	0.6	0	0	0	0	Permit Actions: CT-7162 Notes: would have a decrease in VOC if pneumatic pumps were controlled (modified prior to 9/1/07 so control is not required)
11082	EnCana	Stud Horse Butte 48-16 CF	CT-7162	9/29/2010	6.5	0.8	11	0.6	-4.5	0.2	-4.5	0.2	permitting at current actual production instead of equipment design
7519	EnCana	SAG 34-19	CT-7519	4/1/2009	12.8	0.9	10.6	0.6	2.2	0.3	2.2	0.3	Permit Actions: CT-7519 Notes:
10699	EnCana	SAG 34-19 CF	CT-7519	5/27/2010	11.3	2.2	12.8	0.9	-1.5	1.3	-1.5	1.4	
7807	EnCana	Stud Horse Butte 32-10	CT-7807	4/1/2009	5.1	1	4.9	1	0.2	0	0.2	0	Permit Actions: CT-7807 Notes:
7973	EnCana	SOL 9-36 CF	CT-7973	4/1/2009	4.7	1.2	0	0	4.7	1.2	4.7	1.2	Permit Actions: CT-7973 Notes:
9254	EnCana	SOL 9-36 CF	CT-7973	10/26/2009	7.8	2	4.7	1.2	3.1	0.8	4.7	0.9	Permit Actions: AP-9254 Notes: short form application
8122	EnCana	Drill Rig Fleet	CT-8122	1/4/2010	79	282	97.1	457.1	-18.1	-175.1	-18.1	-175.1	drill rig fleet
8176	EnCana	Jonah Federal 11-18 CF	CT-8176	4/1/2009	11.3	2.3	5.3	1.5	6	0.8	9	0.9	Permit Actions: CT-8176 Notes:
8489	EnCana	SOL 2-2	CT-8489	4/1/2009	4.3	0.9	0	0	4.3	0.9	6.5	1	Permit Actions: CT-8489 Notes:
8620	EnCana	Yellow Point 16-13 CF	CT-8620	4/1/2009	11.6	2.8	0	0	11.6	2.8	17.4	3.1	Permit Actions: CT-8620 Notes:
8649	EnCana	Holmes State 1-36	CT-8649	1/19/2010	2.2	0.5	0	0	2.2	0.5	3.3	0.6	Permit Actions: AP-8649 Notes:
8672	EnCana	Crimson State 12-36	CT-8672	1/19/2010	2.6	0.5	0	0	2.6	0.5	3.9	0.6	Permit Actions: AP-8672 Notes:
8748	EnCana	Crimson Federal 16-14	CT-8748	1/19/2010	5.3	0.8	0	0	5.3	0.8	8	0.9	Permit Actions: AP-8748 Notes:
8749	EnCana	Crimson Fedreal 16-2	CT-8749	1/19/2010	3	0.5	0	0	3	0.5	4.5	0.6	Permit Actions: AP-8749 Notes:
8750	EnCana	Yellow Point 1-34	CT-8750	1/19/2010	2.9	0.5	0	0	2.9	0.5	4.4	0.6	Permit Actions: AP-8750 Notes:
8758	EnCana	Hacienda 6-17A	CT-8758	1/13/2010	4.4	0.7	0	0	4.4	0.7	6.6	0.8	Permit Actions: AP-8758 Notes:
8881	EnCana	Stud Horse Butte 84-9 CF	CT-8881	1/13/2010	20.1	4	34.8	0.8	-14.7	3.2	-14.7	3.5	Permit Actions: AP-8881 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
10589	Encana	Stud Horse Butte 84-09 CF	CT-8881	4/22/2010	24.5	4.7	20.1	4	4.4	0.7	6.6	0.8	
8923	EnCana	Crimson Federal 15-24	CT-8923	1/13/2010	4.6	0.6	0	0	4.6	0.6	6.9	0.7	Permit Actions: AP-8923 Notes:
9059	EnCana	Stud Horse Butte 48-22 CF	CT-9059	1/13/2010	20.7	4.2	0	0	20.7	4.2	31.1	4.6	Permit Actions: AP-9059 Notes:
9065	EnCana	Crimson State 10-36	CT-9065	1/13/2010	3.9	0.6	0	0	3.9	0.6	5.9	0.7	Permit Actions: AP-9065 Notes:
9070	EnCana	Crimson Unit 2-18	CT-9070	1/13/2010	4.4	0.6	0	0	4.4	0.6	6.6	0.7	Permit Actions: AP-9070 Notes:

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9208	EnCana	Crimson Federal 7-35	CT-9208	1/13/2010	0.8	0.5	0	0	0.8	0.5	1.2	0.6	Permit Actions: AP-9208 Notes:
9283	EnCana	Crimson Unit 8-31	CT-9283	1/14/2010	0.8	0.5	0	0	0.8	0.5	1.2	0.6	Permit Actions: AP-9283 Notes:
9354	EnCana	Hacienda 5-20	CT-9354	1/14/2010	2.6	0.8	0	0	2.6	0.8	3.9	0.9	Permit Actions: AP-9354 Notes:
9451	EnCana	Hacienda 12-21	CT-9451	1/14/2010	1.7	0.7	0	0	1.7	0.7	2.6	0.8	Permit Actions: AP-9451 Notes:
9500	EnCana	Crimson Federal 2-13	CT-9500	1/14/2010	1.4	0.6	0	0	1.4	0.6	2.1	0.7	Permit Actions: AP-9500 Notes:
9983	EnCana	SOL 95-18 Water Management Facility	CT-9983	3/23/2010	18.2	6.6	0	0	18.2	6.6	27.3	7.3	construct the SOL 95-18 Water Management Facility
11017	EnCana	SOL 95-18 Water Management Facility	CT-9983A	12/10/2010	16.9	5.3	18.2	6.6	-1.3	-1.3	-2	-1.4	permit amendment to remove the authorization to install either three (3) 276 hp Caterpillar 3406TA engines or one (1) 791 hp Caterpillar G3512TA engine and install one (1) 539 hp Caterpillar G3412 TA engine
10192	EnCana	Stud Horse Butte 7-22 CF	MD-10192	5/28/2010	8.9	2.8	4.5	1.5	4.4	1.3	6.6	1.4	
10216	EnCana	Stud Horse Butte 4-33 Central Factility	MD-10216	2/23/2010	3.3	1.4	9.1	0.7	-5.8	0.7	-5.8	0.8	controlling pneumatic pumps that previously didn't require controls
10261	EnCana	Jonah Federal 3-5 CF	MD-10261	2/23/2010	3.3	1.2	9.1	0.8	-5.8	0.4	-5.8	0.4	controlling pneumatic pumps that didn't previously require controls
10423	Encana	Jonah Federal 4-18 CF	MD-10423	5/12/2010	10.8	1.3	19.5	0.5	-8.7	0.8	-8.7	0.9	controlling/eliminating equipment that did not previously require controls
10517	EnCana	Jonah Federal 1-4X CF	MD-10517	6/2/2010	9.6	1.6	41.8	1.9	-32.2	-0.3	-32.2	-0.3	consolidating wells that previously didn't require controls
10700	EnCana	Tot Federal #1	MD-10700	7/16/2010	6.3	0.8	29.4	0.6	-23.1	0.2	-23.1	0.2	controlling tank, dehydration unit and pneumatic pump emissions that previously did not require controls
10789	EnCana	Section 36 Water Management Facility	MD-10789	12/2/2010	15.4	24.8	11.9	15.2	3.5	9.6	5.3	10.6	permit for engine replacement, installation of several heaters, updating truck loadout and fugitive equipment leaks, and installation of eight storage tanks
10806	EnCana	Stud Horse Butte 1-32 CF	MD-10806	7/29/2010	12.2	1.9	29.4	2.3	-17.2	-0.4	-17.2	-0.4	controlling/eliminating pneumatic pumps
10925	EnCana	Cabrito 13-19 CF	MD-10925	9/3/2010	24	3.6	52.5	2.5	-28.5	1.1	-28.5	1.2	consolidating wells and controlling tank, dehydration unit and pneumatic pump emissions that previously did not require controls
11015	EnCana	Stud Horse Butte 4-28	MD-11015	9/28/2010	13.6	4	21.8	0.5	-8.2	3.5	-8.2	3.9	controlling dehydration unit that did not require controls under previous permit
11150	EnCana	Stud Horse Butte 15-27 CF	MD-11150	12/22/2010	18	2.6	16.7	2.4	1.3	0.2	2	0.2	
11248	EnCana	Stud Horse Butte 2-33 CF	MD-11248	12/28/2010	8.5	1.4	14.7	2	-6.2	-0.6	-6.2	-0.6	removal of dehydration unit
11249	EnCana	Stud Horse Butte 10-33 CF	MD-11249	12/29/2010	8	1.4	32	5	-24	-3.6	-24	-3.6	consolidating well and removal of production equipment
11250	EnCana	Stud Horse Butte 11-17 CF	MD-11250	2/8/2011	17.6	5.8	30.5	6.2	-12.9	-0.4	-12.9	-0.4	emissions calculated at current actual production instead of equipment design production
11276	EnCana	Cabrito 8-25 CF	MD-11276	2/8/2011	16.9	5.1	13.9	3.7	3	1.4	4.5	1.5	

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11289	EnCana	Stud horse Butte 16-18 CF	MD-11289	2/8/2011	3.8	1.4	9.4	2.6	-5.6	-1.2	-5.6	-1.2	emissions calculated using current actual production instead of equipment design production and reduction of production equipment.
11399	EnCana	Stud Horse Butte 10-35 CF	MD-11399	2/8/2011	20.5	2.9	97.8	9.1	-77.3	-6.2	-77.3	-6.2	consolidating facilities which reduces equipment and emissions
11400	EnCana	Cabrito 14-25 CF	MD-11400	3/4/2011	14.3	3.6	115.3	10.4	-101	-6.8	-101	-6.8	consolidating facilities which reduces equipment and emissions
11424	EnCana	Stud Horse Butte 8-14 CF	MD-11424	3/9/2011	9	3	19.3	3.7	-10.3	-0.7	-10.3	-0.7	reduction in equipment and permitting at current actual production
11426	EnCana	Stud Horse Butte 122-10 CF	MD-11426	3/9/2011	12.9	4.1	18.2	4.1	-5.3	0	-5.3	0	emissions calculated using current actual production instead of equipment design
11428	EnCana	Stud Horse Butte 01-35 CF	MD-11428	3/4/2011	16.6	3.1	82.7	7	-66.1	-3.9	-66.1	-3.9	consolidating facilities which reduces equipment and emissions
11435	EnCana	Cabrito 13-30 CF	MD-11435	3/22/2011	23.6	4.1	43.2	8.6	-19.6	-4.5	-19.6	-4.5	emissions calculated at current actual production instead of equipment design
11488	EnCana	Stud Horse Butte 16-34R CF	MD-11488	3/1/2011	9	2.4	19.4	4	-10.4	-1.6	-10.4	-1.6	production decline and replacing high-bleed controllers with low-bleed controllers
11516	EnCana	Stud Horse Butte 2-34 CF	MD-11516	3/9/2011	15	4.2	9.6	3.4	5.4	0.8	8.1	0.9	
11614	EnCana	Corona-Stud Horse Butte 10-30 CF	MD-11614	5/3/2011	12.3	3.2	27.3	8.3	-15	-5.1	-15	-5.1	install low-bleed controllers and emissions calculated using current actual production instead of equipment design
11622	EnCana	Stud Horse Butte 7-26 CF	MD-11622	5/10/2011	15.3	4.6	38.1	8.6	-22.8	-4	-22.8	-4	install low-bleed controllers and permit using current actual production instead of equipment design
11623	EnCana	Stud Horse Butte 15-19 CF	MD-11623	5/10/2011	9.3	2.1	11	2.6	-1.7	-0.5	-1.7	-0.5	permitting at current actual production instead of equipment design
11658	EnCana	Corona-Stud Horse Butte 10-31 CF	MD-11658	5/24/2011	11.7	3.5	33.5	7.1	-21.8	-3.6	-21.8	-3.6	permitting at current actual production instead of equipment design
11659	EnCana	Stud Horse Butte 4-28 CF	MD-11659	5/18/2011	8.4	2.9	43.2	4.5	-34.8	-1.6	-34.8	-1.6	consolidating well site with previously uncontrolled equipment
11660	EnCana	Stud Horse Butte 4-35 CF	MD-11660	5/18/2011	10	2.1	22.3	1.8	-12.3	0.3	-12.3	0.3	controlling pneumatic pumps and installing low-bleed controllers
11772	EnCana	Section 36 Water Management Facility	MD-11772	12/15/2011	21.2	4.7	0	0	21.2	4.7	31.8	5.2	revise VOC on existing Cat engines, install 1 Cat engine, 3 75,000 bbl frac water storage tanks, 1 combustor, 1 DAF and 2 DAEWOO emergency engines
11801	EnCana	Jonah Federal 05-06 CF	MD-11801	5/24/2011	8	2	14.2	2.9	-6.2	-0.9	-6.2	-0.9	permitting at current actual production instead of equipment design
11845	EnCana	Jonah Federal 13-7	MD-11845	6/14/2011	5.6	1.2	5.9	1.2	-0.3	0	-0.3	0	production decline
11896	EnCana	Stud Horse Butte 32-10	MD-11896	6/21/2011	4.6	1.2	5.1	1	-0.5	0.2	-0.5	0.2	

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11934	EnCana	Stud Horse Butte 15-28 CF	MD-11934	6/21/2011	9.5	2.8	18.7	4.7	-9.2	-1.9	-9.2	-1.9	permitting at current actual production instead of equipment design.
11950	EnCana	Stud Horse Butte 12-15 CF	MD-11950	6/21/2011	16.4	4.2	27.4	6.9	-11	-2.7	-11	-2.7	permitting at current actual production instead of equipment design.
12065	EnCana	SAG 34-19 CF	MD-12065	8/24/2011	9.9	3.4	11.3	2.2	-1.4	1.2	-1.4	1.3	permitting at current actual production
12080	EnCana	Yellow Point 04-12 CF	MD-12080	8/24/2011	8.9	2.3	31.9	4.4	-23	-2.1	-23	-2.1	permitting using current actual production instead of equipment design production
12087	EnCana	Stud Horse Butte 84-09 CF	MD-12087	9/28/2011	18.6	5.9	24.5	4.7	-5.9	1.2	-5.9	1.2	production decline
12102	EnCana	Stud Horse Butte 03-34 CF	MD-12102	8/24/2011	9.8	2.6	14.3	4.2	-4.5	-1.6	-4.5	-1.6	removal of dehydration unit
12103	EnCana	Stud Horse Butte 01-27 CF	MD-12103	8/30/2011	10.5	2.9	19.1	5	-8.6	-2.1	-8.6	-2.1	permitted at current actual production instead of equipment design
12147	EnCana	Stud Horse Butte 04-26 CF	MD-12147	9/20/2011	12.5	3.7	27.5	8.9	-15	-5.2	-15	-5.2	dehydration unit removed, heaters removed and heat trace pump removed
12148	EnCana	Stud Horse Butte 07-22 CF	MD-12148	9/20/2011	16.6	4.8	8.9	2.8	7.7	2	11.6	2.2	
12166	EnCana	Stud Horse Butte 04-33 CF	MD-12166	9/20/2011	7.8	2.4	3.3	1.4	4.5	1	6.8	1.1	
12216	EnCana	Cabrito 14-25 CF	MD-12216	9/20/2011	12.8	3.1	14.3	3.6	-1.5	-0.5	-1.5	-0.5	
12221	EnCana	Hacienda 14-30	MD-12221	11/1/2011	6.2	2.1	10.5	0.6	-4.3	1.5	-4.3	1.7	control pneumatic pumps
12233	EnCana	Stud Horse Butte 11-26 CF	MD-12233	10/4/2011	7.4	2.8	18.9	3	-11.5	-0.2	-11.5	-0.2	decline in production and low-bleed controllers
12241	EnCana	Yellow Point 07-02 CF	MD-12241	10/11/2011	4.4	1.3	8.2	1.4	-3.8	-0.1	-3.8	-0.1	production decline and installing low-bleed controllers
12298	EnCana	Stud Horse Butte 03-27 CF	MD-12298	11/29/2011	14	3.3	25.2	2.9	-11.2	0.4	-11.2	0.4	declining production and low bleed controllers
12305	EnCana	Stud Horse Butte 16-28/9-28 CF	MD-12305	11/1/2011	7.6	2.5	7.3	2.2	0.3	0.3	0.5	0.3	
12339	EnCana	Stud Horse Butte 1-35 CF	MD-12339	11/8/2011	11.6	3.5	16.6	3.1	-5	0.4	-5	0.4	install low-bleed controllers
12432	EnCana	Stud Horse Butte 09-33 CF	MD-12432	12/6/2011	8.7	2.1	18.4	2.4	-9.7	-0.3	-9.7	-0.3	install low bleed controllers and control pneumatic pumps
12449	EnCana	Stud Horse Butte 11-34 CF	MD-12449	12/6/2011	9.7	2.8	17.8	3.7	-8.1	-0.9	-8.1	-0.9	declining production and low bleed controllers
12486	EnCana	Stud Horse Butte 02-28/18-28 CF	MD-12486	12/20/2011	12.3	4.2	18.9	4.6	-6.6	-0.4	-6.6	-0.4	declining production and low bleed controllers
12604	EnCana	Stud Horse Butte 01-36/19-36 CF	MD-12604	12/28/2011	11.3	3.4	24.7	4.5	-13.4	-1.1	-13.4	-1.1	declining production and low bleed controllers
12614	EnCana	Stud Horse Butte 01-34 CF	MD-12614	12/28/2011	6.3	1.8	9.4	1.5	-3.1	0.3	-3.1	0.3	install low bleed controllers
12623	EnCana	Section 18 Water Management Facility	MD-12623	1/13/2012	5.2	5.2	0	0	5.2	5.2	7.8	5.7	installation of two (2) 539 hp Caterpillar G3412TA generator engines.
12697	EnCana	Stud Horse Butte 12-36 CF	MD-12697	1/10/2012	11.6	3.5	10.8	3.2	0.8	0.3	1.2	0.3	
12705	EnCana	Stud Horse Butte 6-35 CF	MD-12705	1/31/2012	10	2.8	25.7	2.5	-15.7	0.3	-15.7	0.3	control pneumatic pumps and install low-bleed controllers
12911	EnCana	Stud Horse Butte 16-32 CF	MD-12911	3/6/2012	4.9	1.6	17.1	2.1	-12.2	-0.5	-12.2	-0.5	control pneumatic pumps and install low-bleed controllers
12919	EnCana	Stud Horse Butte 4-27 CF	MD-12919	3/6/2012	5	1.5	5.6	1.8	-0.6	-0.3	-0.6	-0.3	production decline

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12948	EnCana	Jonah Federal 8-7 CF	MD-12948	3/19/2012	7.4	2.5	24.3	2.7	-16.9	-0.2	-16.9	-0.2	control pneumatic pumps and install low-bleed controllers
12268	EnCana	Hacienda 14-30 Site	MD-6395A	8/12/2011	3	19.8	3	19.8	0	0	0	0	no offsets, Caterpillar G3408 was removed from service before baseline date, other production equipment at facility is addressed in AP-12221.
6758	EnCana	Stud Horse Butte 4-26 CF	MD-6758	5/2/2008	36.1	8.2	22	2.6	14.1	5.6	21.2	6.2	Permit Actions: MD-6758 Notes: short form application
9800	EnCana	Stud Horse Butte 4-26 CF	MD-6758	10/26/2009	27.5	8.9	36.1	8.2	-8.6	0.7	-8.6	0.8	permitting at current production instead of maximum design capacity
7055	EnCana	Stud Horse Butte 7-26 CF	MD-7055	5/20/2008	38.1	8.6	14	3.4	24.1	5.2	36.2	5.7	Permit Actions: MD-7055 Notes: short form application
7056	EnCana	Stud Horse Butte 16-26	MD-7056	4/1/2009	16.7	1.6	15.7	1.5	1	0.1	1	0.1	Permit Actions: MD-7056 Notes: would have a decrease in VOC if pneumatic pumps were controlled (modified prior to 9/1/07 so control is not required)
8673	EnCana	Stud Horse Butte 16-26 CF	MD-7056	10/26/2009	14.8	2.9	16.7	1.6	-1.9	1.3	-1.9	1.4	Permit Actions: AP-8673 / MD-7056 Notes: decrease in operating pressure, decreased flashing emissions
7083	EnCana	Stud Horse Butte 71-32	MD-7083	4/1/2009	13	3.4	12.3	3.3	0.7	0.1	0.7	0.1	Permit Actions: MD-7083 Notes:
7164	EnCana	Yellow Point 1-13 CF	MD-7164	7/1/2008	22.4	4.5	11.6	2.5	10.8	2	16.2	2.2	Permit Actions: MD-7164 Notes: short form application
9772	EnCana	Yellow Point 1-13 CF	MD-7164	8/24/2009	8.4	2.2	22.4	4.5	-14	-2.3	-14	-2.3	permitting at current production instead of maximum design capacity
10027	EnCana	Stud Horse Butte 2-34	MD-7179	11/25/2009	9.6	3.4	9.4	3	0.2	0.4	0.3	0.4	
7348	EnCana	Stud Horse Butte 11-22 CF	MD-7348	1/13/2010	31.9	6.8	12.6	3.4	19.3	3.4	19.3	3.4	Permit Actions: AP-7348 Notes:
10384	EnCana	Stude Horse Butte 11-22 CF	MD-7348	2/25/2010	12.3	3.2	31.9	6.8	-19.6	-3.6	-19.6	-3.6	calculations used current actual production instead of equipment design production
7438	EnCana	Stud Horse Butte 16-34R CF	MD-7438	5/2/2008	19.4	4	7.7	1.5	11.7	2.5	17.8	2.8	Permit Actions: MD-7438 Notes: short form application
7692	EnCana	Stud Horse Butte 7-15 CF	MD-7692	4/1/2009	18.3	3.8	8.5	2.3	9.8	1.5	9.8	1.5	Permit Actions: MD-7692 Notes:
10723	EnCana	Stud Horse Butte 07-15 CF	MD-7692	5/27/2010	18.5	4.1	18.3	3.8	0.2	0.3	0.3	0.3	
9450	EnCana	Stud Horse Butte 3-27 CF	MD-7696	10/26/2009	24.9	4.8	104.5	2	-79.6	2.8	-79.6	3.1	consolidating wells that previously did not require controls and reducing equipment
10552	EnCana	Stud Horse Butte 3-27 CF	MD-7696	4/16/2010	25.2	2.9	24.9	4.8	0.3	-1.9	0.5	-1.9	permitted using current production rates
7761	EnCana	Stud Horse Butte 6-28 CF	MD-7761	4/1/2009	14.2	2.2	6.4	1.3	7.8	0.9	7.8	0.9	Permit Actions: MD-7761 Notes:
9386	EnCana	Stud Horse Butte 12-15 CF	MD-7782	10/26/2009	27.4	6.9	22.7	2.5	4.7	4.4	7.1	4.8	Permit Actions: AP-9386 Notes:
7855	EnCana	Stud Horse Butte 10-28	MD-7855	9/16/2008	23.3	4.6	77.4	2.5	-54.1	2.1	-54.1	2.1	Permit Actions: MD-7855 Notes: this permit is already issued so no NOx offsets are required

App Num	Company	Facility	Permit Number	Permit Date	Current VOC	Current NOx	Base VOC	Base NOx	Delta VOC	Delta NOx	Offset VOC	Offset NOx	DemoComments
7905	EnCana	Jonah Workforce Facility	MD-7905	10/9/2008	14.3	11.5	9.2	13	5.1	-1.5	5.1	-1.5	Permit Actions: MD-7905 Notes: Annual emissions reduction due to employee vehicle traffic of 13.0 tpy NOx, 60.0 tpy CO, 9.2 tpy VOC, and 196.1 tpy PM.
9165	EnCana	Jonah Workforce Facility	MD-7905A	4/22/2009							0	0	No change in NOx or VOC emissions; no offset required
9674	EnCana	Jonah Workforce Facility	MD-7905A2	9/9/2009	0	0	0	0	0	0	0	0	No change in emissions
7924	EnCana	Jonah Federal 1-5 CF	MD-7924	4/1/2009	13.8	3.9	25.4	2.8	-11.6	1.1	-11.6	1.1	Permit Actions: MD-7924 Notes: controlling pneumatic pumps
7972	EnCana	Jonah Federal 5-4 CF	MD-7972	4/1/2009	28.2	6.3	19.5	2.5	8.7	3.8	8.7	3.8	Permit Actions: MD-7972 Notes:
10159	EnCana	Jonah Federal 5-4 CF	MD-7972	12/11/2009	7.6	1.5	28.2	6.3	-20.6	-4.8	-20.6	-4.8	modified facility - emissions calculated using current actual production instead of equipment design production.
7974	EnCana	Stud Horse Butte 12-36 CF	MD-7974	4/1/2009	28.1	6.1	90.4	3.7	-62.3	2.4	-62.3	2.5	Permit Actions: MD-7974 Notes: consolidating wells and controlling previously uncontrolled tanks and dehydration units
10179	EnCana	Stud Horse Butte 12-36 CF	MD-7974	12/11/2009	10.8	3.2	28.1	6.1	-17.3	-2.9	-17.3	-2.9	modified facility - emissions calculated using current actual production instead of equipment design production
7975	EnCana	Corona-Stud Horse Butte 15-19 CF	MD-7975	4/1/2009	29.3	6.5	81.7	1.7	-52.4	4.8	-52.4	4.8	Permit Actions: MD-7975 Notes: addition of 3 existing wells that had no dehy/tank controls and 1 well with no dehy controls
9730	EnCana	Corona-Stud Horse Butte 15-19 CF	MD-7975	8/24/2009	11	2.6	29.3	6.5	-18.3	-3.9	-18.3	-3.9	permitting at current production instead of maximum design capacity
8035	EnCana	Corona-Stud Horse Butte 10-31 CF	MD-8035	4/1/2009	29.3	6.8	89.8	4.2	-60.5	2.6	-60.5	2.6	Permit Actions: MD-8035 Notes: addition of 3 existing wells that had no dehy or tank controls
9094	EnCana	Corona-Stud Horse Butte 10-31 CF	MD-8035	10/26/2009	33.5	7.1	29.3	6.8	4.2	0.3	6.3	0.3	Permit Actions: AP-9094 Notes: short form application
8095	EnCana	Yellow Point 4-12 CF	MD-8095	9/30/2008	31.9	4.4	219	15.7	-187.1	-11.3	-187.1	-11.3	Permit Actions: MD-8095 Notes: consolidation of 29 wells which decreases the number of dehydration units / tanks now controlled at 2 of the existing wells / pneumatic pumps now controlled
8104	EnCana	Stud Horse Butte 4-27 CF	MD-8104	4/1/2009	22.6	4.5	34.7	1.5	-12.1	3	-12.1	3	Permit Actions: MD-8104 Notes: adding well to CF that has no dehy controls
10349	EnCana	Stud Horse Butte 4-27 CF	MD-8104	2/25/2010	5.6	1.8	22.6	4.5	-17	-2.7	-17	-2.7	removed dehydration unit and permitting using current actual production rates
8109	EnCana	Corona 3-31 CF	MD-8109	4/1/2009	20.1	3.6	20.9	1	-0.8	2.6	-0.8	2.6	Permit Actions: MD-8109 Notes:
8110	EnCana	Stud Horse Butte 11-26 CF	MD-8110	4/1/2009	35.1	8.8	18.2	2.1	16.9	6.7	16.9	6.7	Permit Actions: MD-8110 Notes:

App Num	Company	Facility	Permit Number	Permit Date	Current VOC	Current NOx	Base VOC	Base NOx	Delta VOC	Delta NOx	Offset VOC	Offset NOx	DemoComments
11048	EnCana	Stud Horse Butte 11-26 CF	MD-8110	8/20/2010	18.9	3	35.1	8.8	-16.2	-5.8	-16.2	-5.8	emissions calculated based on current actual production rather than equipment design production
8199	EnCana	Yellow Point 8-13	MD-8199	4/1/2009	18.4	3.4	9.2	1.4	9.2	2	13.8	2.2	Permit Actions: MD-8199 Notes:
10009	EnCana	Yellow Point 8-13 CF	MD-8199	11/25/2009	9	2.6	18.4	3.4	-9.4	-0.8	-9.4	-0.8	emissions were calculated using current actual production instead of equipment design production.
8200	EnCana	Stud Horse Butte 13-26 CF	MD-8200	4/1/2009	31.8	7.6	16.3	4.1	15.5	3.5	23.3	3.9	Permit Actions: MD-8200 Notes:
9058	EnCana	Stud Horse Butte 13-26 CF	MD-8200	4/29/2009	31.8	7.6	31.8	7.6	0	0	0	0	Permit Actions: MD-8200 Notes: short form application - letter sent
11014	EnCana	Stud Horse Butte 13-26 CF	MD-8200	8/11/2010	27.3	3.8	31.8	7.6	-4.5	-3.8	-4.5	-3.8	using current actual emissions instead of equipment design emissions
8202	EnCana	Stud Horse Butte 11-17 CF	MD-8202	4/1/2009	30.5	6.1	57.1	1.7	-26.6	4.4	-26.6	4.8	Permit Actions: MD-8202 Notes: decrease due to consolidation of previously uncontrolled equipment
9655	EnCana	Stud Horse Butte 11-17 CF	MD-8202	10/26/2009	30.5	6	30.5	6.1	0	-0.1	0	-0.1	
10105	EnCana	Stud Horse Butte 11-17 CF	MD-8202	11/30/2009	28.1	7.3	30.5	6.2	-2.4	1.1	-2.4	1.2	reduction in dehydration units
8326	EnCana	Jonah Federal 1-6 CF	MD-8326	4/1/2009	22.7	5.2	45.6	3.4	-22.9	1.8	-22.9	2	Permit Actions: MD-8326 Notes: decrease due to consolidation of previously uncontrolled equipment
8357	EnCana	Yellow Point 2-1 CF	MD-8357	4/1/2009	23	4.9	25	2.5	-2	2.4	-2	2.6	Permit Actions: MD-8357 Notes: controlling pneumatic pumps
8358	EnCana	Stud Horse Butte 10-33	MD-8358	4/1/2009	18.1	4.4	22.3	5.4	-4.2	-1	-4.2	-1	Permit Actions: MD-8358 Notes: controlling pneumatic pumps / less heaters
8440	EnCana	Corona Stud Horse Butte 10-30 CF	MD-8440	4/1/2009	27.3	8.3	77.5	2.6	-50.2	5.7	-50.2	6.3	Permit Actions: MD-8440 Notes: consolidating wells and controlling previously uncontrolled tanks and dehydration units
9181	EnCana	Corona Stud Horse Butte 10-30 CF	MD-8440	4/30/2009	27.3	8.3	27.3	8.3	0	0	0	0	Permit Actions: MD-8440 Notes: short form application - letter sent
8441	EnCana	Stud Horse Butte 11-36 CF	MD-8441	4/1/2009	18.5	4.1	62.5	1.6	-44	2.5	-44	2.8	Permit Actions: MD-8441 Notes: consolidating wells and controlling previously uncontrolled tanks and dehydration units
10251	EnCana	Stud Horse Butte 11-36 CF	MD-8441	1/4/2010	11.6	3.5	18.5	4.1	-6.9	-0.6	-6.9	-0.6	calculated emissions using current actual production instead of equipment design production
8458	EnCana	Jonah 1-8 CF	MD-8458	4/1/2009	14.4	2.9	23.9	0.3	-9.5	2.6	-9.5	2.9	Permit Actions: MD-8458 Notes: controlling previously uncontrolled well
8467	EnCana	Stud Horse Butte 7-36 CF	MD-8467	4/1/2009	15.7	2.9	43.8	0.9	-28.1	2	-28.1	2.2	Permit Actions: MD-8467 Notes: consolidating wells and controlling previously uncontrolled tanks and dehydration units
10501	EnCana	Stud horse Butte 07-36 CF	MD-8467	3/23/2010	9.9	1.7	15.7	2.9	-5.8	-1.2	-5.8	-1.2	
8490	EnCana	Stud Horse Butte 11-20 CF	MD-8490	4/1/2009	35.6	8.9	144.4	7.1	-108.8	1.8	-108.8	2	Permit Actions: MD-8490 Notes: consolidating wells and controlling previously uncontrolled tanks and dehydration units

App Num	Company	Facility	Permit Number	Permit Date	Current VOC	Current NOx	Base VOC	Base NOx	Delta VOC	Delta NOx	Offset VOC	Offset NOx	DemoComments
11161	EnCana	Stud Horse Butte 11-20 CF	MD-8490	10/28/2010	28.5	5.1	51.3	8.9	-22.8	-3.5	-22.8	-3.5	permitting at current actual production instead of equipment design
8498	EnCana	Stud Horse Butte 16-18 CF	MD-8498	4/1/2009	9.4	2.6	20	0.4	-10.6	2.2	-10.6	2.4	Permit Actions: MD-8498 Notes: controlling previously uncontrolled dehy/tank emissions
8553	EnCana	Jonah Storage Yard	MD-8553	12/10/2009	0.2	0.5	0	0	0.2	0.5	0.3	0.6	install engine
8566	EnCana	Stud Horse Butte 122-10	MD-8566	4/1/2009	18.2	3.7	16.4	0.4	1.8	3.3	2.7	3.6	Permit Actions: MD-8566 Notes:
8691	EnCana	Cabrito 7-30 CF	MD-8691	1/19/2010	18.3	3.9	19	1.5	-0.7	2.4	-0.7	2.6	Permit Actions: AP-8691 Notes: controlling pneumatic pumps that did not require controls as of April 1, 2008
8692	EnCana	Yellow Point 1-12 CF	MD-8692	1/19/2010	14.8	3.9	50.4	4.9	-35.6	-1	-35.6	-1	Permit Actions: AP-8692 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
8704	EnCana	Jonah Federal 5-6 CF	MD-8704	1/19/2010	14.2	2.9	14.2	1.5	0	1.4	0	1.5	Permit Actions: AP-8704 Notes:
8709	EnCana	Stud Horse Butte 3-34 CF	MD-8709	1/19/2010	14.3	4.2	43.5	1.4	-29.2	2.8	-29.2	3.1	Permit Actions: AP-8709 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
8744	EnCana	Cabrito 13-30 CF	MD-8744	1/19/2010	43.2	8.6	77.5	2	-34.3	6.6	-34.3	7.3	Permit Actions: AP-8744 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
8759	EnCana	Stud Horse Butte 2-36 CF	MD-8759	1/13/2010	22.7	4.1	20.3	2.2	2.4	1.9	3.6	2.1	Permit Actions: AP-8759 Notes:
10195	EnCana	Stud Horse Butte 2-36 CF	MD-8759	2/19/2010	11.9	3.1	22.7	4.1	-10.8	-1	-10.8	-1	modified facility - emissions are calculated using current actual production instead of equipment design production as in the previous permit.
8760	EnCana	Stud Horse Butte3-36 CF	MD-8760	1/13/2010	20.6	4.1	64.1	3.2	-43.5	0.9	-43.5	1	Permit Actions: AP-8760 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
10180	EnCana	Stud Horse Butte 3-36 CF	MD-8760	2/19/2010	6.7	1.8	20.6	4.1	-13.9	-2.3	-13.9	-2.3	modified facility - emissions are calculated using current actual production instead of equipment design production as in the previous permit.
8766	EnCana	Stud Horse Butte 11-34 CF	MD-8766	1/13/2010	17.8	3.7	60.5	2.3	-42.7	1.4	-42.7	1.5	Permit Actions: AP-8766 Notes: consolidating wells that previously required no controls
8767	EnCana	Stud Horse Butte 1-36 CF	MD-8767	1/13/2010	24.7	4.5	43.2	1.9	-18.5	2.6	-18.5	2.9	Permit Actions: AP-8767 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
8776	EnCana	Stud Horse Butte 12-29 CF	MD-8776	1/13/2010	23.1	4.4	92.3	1.6	-69.2	2.8	-69.2	3.1	Permit Actions: AP-8776 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
11205	EnCana	Stud Horse Butte 12-29 CF	MD-8776	11/5/2010	19.4	3.4	23.1	4.4	-3.7	-1	-3.7	-1	emissions calculated using current actual production instead of equipment design production

App Num	Company	Facility	Permit Number	Permit Date	Current VOC	Current NOx	Base VOC	Base NOx	Delta VOC	Delta NOx	Offset VOC	Offset NOx	DemoComments
8820	EnCana	Stud Horse Butte 8-14 CF	MD-8820	1/13/2010	19.3	3.7	16.7	0.4	2.6	3.3	3.9	3.6	Permit Actions: AP-8820 Notes:
8912	EnCana	Stud Horse Butte 1-29 CF	MD-8912	1/13/2010	23	4.3	213	4.8	-190	-0.5	-190	-0.5	Permit Actions: AP-8912 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
11016	EnCana	Stud Horse Butte 1-29 CF	MD-8912	8/16/2010	22.6	5.1	23	4.3	-0.4	0.8	-0.4	0.9	
8919	EnCana	Hacienda 6-19 CF	MD-8919	1/13/2010	5.7	1.1	17.3	0.4	-11.6	0.7	-11.6	0.8	Permit Actions: AP-8919 Notes: controlling tanks, dehys and pumps that didn't previously require controls
8922	EnCana	Yellow Point 10-13 CF	MD-8922	1/13/2010	20.4	3.5	87.6	3.4	-67.2	0.1	-67.2	0.1	Permit Actions: AP-8922 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
9149	EnCana	Stud Horse Butte 124-11 CF	MD-9149	1/13/2010	16.1	3.8	17.9	0.1	-1.8	3.7	-1.8	4.1	Permit Actions: AP-9149 Notes:
9216	EnCana	Stud Horse Butte 1-34 CF	MD-9216	1/20/2010	9.9	2.3	11.4	1.6	-1.5	0.7	-1.5	0.8	Permit Actions: AP-9216 Notes: reduction in dehydration units and controlling pneumatic pumps
11149	EnCana	Stud Horse Butte 1-34 CF	MD-9216	10/27/2010	9.4	1.5	9.9	2.3	-0.5	-0.8	-0.5	-0.8	
9253	EnCana	Stud Horse Butte 1-27	MD-9253	1/13/2010	19.1	5	61.5	9.6	-42.4	-4.6	-42.4	-4.6	Permit Actions: AP-9253 Notes: consolidating wells that previously required no controls and decrease in pneumatic pumps
9282	EnCana	Cabrito 2-31 CF	MD-9282	1/14/2010	8.6	1.9	10.7	1	-2.1	0.9	-2.1	1	Permit Actions: AP-9282 Notes: controlling pneumatic pumps
9351	EnCana	Stud Horse Butte 16-28/9-28 Central Factility	MD-9351	1/14/2010	7.3	2.2	36.4	1.8	-29.1	0.4	-29.1	0.4	Permit Actions: AP-9351 Notes: consolidating wells and controlling previously uncontrolled equipment
9455	EnCana	Stud Horse Butte 2-28 CF	MD-9455	1/14/2010	18.9	4.6	14	2.6	4.9	2	7.4	2.2	Permit Actions: AP-9455 Notes:
9456	EnCana	Stud Horse Butte 15-28 CF	MD-9456	1/14/2010	18.7	4.7	5.8	3.3	12.9	1.4	19.4	1.5	
9476	EnCana	Yellow Point 10-14 CF	MD-9476	1/14/2010	12.6	3.3	7.5	3.1	5.1	0.2	7.7	0.2	
9592	EnCana	Jonah Federal 2-8X CF	MD-9592	1/14/2010	8.3	2.8	8.5	3.6	-0.2	-0.8	-0.2	-0.8	production decline
10431	EnCana	Jonah Federal 2-8X CF	MD-9592	3/15/2010	19.3	3	8.3	2.8	11	0.2	16.5	0.2	
9654	EnCana	Cabrito 8-25 CF	MD-9654	1/14/2010	13.9	3.7	16.5	4.8	-2.6	-1.1	-2.6	-1.1	production decline
9725	EnCana	Section 36 Water Management Facility	MD-9725	1/7/2010	11.9	15.2	11.9	3	0	12.2	0	13.4	modify water handling facility
9903	EnCana	Stud Horse Butte 53-16 CF	MD-9903	1/14/2010	9.4	2.4	10.9	0.9	-1.5	1.5	-1.5	1.7	controlled pneumatic pumps
10972	EnCana	Stud Horse Butte 53-16 CF	MD-9903	8/9/2010	23.9	4.4	9.4	2.4	14.5	2	21.8	2.2	
10006	EnCana	Jonah Office Building Removal	wv-10006	11/17/2009	0.1	0.2	1.5	1	-1.4	-0.8	-1.4	-0.8	Note: removal of one (1) 217 hp Generac SG140 generator engine (E2) and hour reduction of 217 hp Generac SG140 generator engine (E2) to 500 hours per year
10324	EnCana	Section 4 Drilling Crude Oil Storage Tank Facility	wv-10324	2/23/2010	4.8		0		4.8		7.2		Note: installation of eight (8) 400 bbl drilling oil storage tanks
10430	EnCana	Section 32 Methanol Tank	wv-10430	3/17/2010	0.5	0	0.3	0	0.2	0	0.2	0	

App Num	Company	Facility	Permit Number	Permit Date	Current VOC	Current NOx	Base VOC	Base NOx	Delta VOC	Delta NOx	Offset VOC	Offset NOx	DemoComments
10482	EnCana	Stud Horse Butte 122-10W	wv-10482	3/18/2010	0.3	0.3	0	0	0.3	0.3	0.5	0.3	Note: one (1) 105 hp Kohler 60RZG natural gas fired generator engine
10632	EnCana	Stud Horse Butte 4-36 Water Well	wv-10632	5/12/2010	0.4	0.3	0	0	0.4	0.3	0.6	0.3	Note: one (1) 105 hp Kohler field gas fired generator engine
10637	EnCana	Jonah Storage Yard	wv-10637	6/21/2010	2.93	3.6	2.9	3.6	0.03	0	0.05	0	increase VOC emission rate to 1.0 g/hp-hr for 72 hp Ford LRG425 engine
10991	EnCana	Cabrito 14-25	wv-10991	9/1/2010									no offset required because engine is temporary (less than 12 months)
10992	EnCana	Stud Horse Butte 48-17	wv-10992-1&2	9/28/2010									offsets are not required for this permitting action as the separator is a temporary source and emission increases are temporary
11018	EnCana	Stud Horse Butte 84-9	wv-11018-1&2	9/29/2010									offsets are not required for this permitting action as the combustion device is a temporary source and there are no emission increases
11034	EnCana	Section 32 Storage Yard	wv-11034	12/3/2010	1.2	0.5	0	0	1.2	0.5	1.8	0.6	installation of one (1) 105 hp Kohler 60RZG generator engine
11252	EnCana	Stud Horse Butte 2-36 CF	wv-11252	11/2/2010									Note: temporary waiver limited to one (1) year. No offsets required.
11253	EnCana	Stud Horse Butte 15-27 CF	wv-11253	12/1/2010									offsets are not required for this permitting action as the equipment is a temporary source and there are no emission increases
12234	EnCana	Great Divide 10	wv-12234	8/26/2011	2.6	0.2	0	0	2.6	0.2	3.9	0.2	
12379	EnCana	Jonah Field Downhole Pilot Testing	wv-12379	8/26/2011									Temporary pilot tests limited to 90 days, no offsets required.
7561	EnCana	Jonah Field Office	wv-7561	10/27/2008	1.5	1	0	0	1.5	1	1.1	-0.1	Permit Actions: wv-7561 Notes: new facility, relinquishing authority to operate engines authorized under waivers AP-4396 and AP-4397
8132	EnCana	Section 32 Methanol Tank	wv-8132	9/18/2008	0.3	0	0	0	0.3	0	0.3	0	Permit Actions: wv-8132 Notes:
8785	EnCana	Stud Horse Butte 53-16 CF	wv-8785	12/30/2008									Temporary waiver - no offsets required.
9215	EnCana	Yellow Point 1-12 Pad	wv-9215	4/28/2009							0	0	Temporary waiver - no offsets required.
	EnCana			4/1/2009							76.9	-76.9	recognize offset trade VOC for Nox
	EnCana			10/6/2011							3.5		VOC credits given to Lower Valley Energy, AP-12310
13194	EnCana	Jonah Federal 5-4 CF			8.3	2.7	7.6	1.5	0.7	1.2	1.1	1.3	
13204	EnCana	Cabrito 14-25			13.1	3.3	12.8	3.1	0.3	0.2	0.5	0.2	installation of one (1) Arrow VR260 generator engine to power a VRU to capture all the waste gas at the facility, recompress it and route it to the sales gas line.

App Num	Company	Facility	Permit Number	Permit Date	Current VOC	Current NOx	Base VOC	Base NOx	Delta VOC	Delta NOx	Offset VOC	Offset NOx	DemoComments
13205	EnCana	Stud Horse Butte 2-36 CF			12.2	3.3	11.9	3.1	0.3	0.2	0.5	0.2	permanent installation of one (1) Condensate Stabilization Unit, consisting of one (1) 0.075 MMBtu/hr condensate stabilization heater and one (1) Arrow VR260 generator engine
13210	EnCana	Portable Water Well Pump Generator			0.5	0.5	0	0	0.5	0.5	0.8	0.6	one (1) 105 hp Kohler 60RZG natural gas fired generator engine to be operated as a portable generator in the JPAD
13195	EnCana	Stud Horse Butte 12-36/29-35 CF			11.1	2.9	11.6	3.5	-0.5	-0.6	-0.5	-0.6	declining production
13400	EnCana	Cabrito 2-31 CF			7.1	2.1	8.6	1.9	-1.5	0.2	-1.5	0.2	declining production
			EnCana Total		**2897.6**	**1002.1**	**4930.6**	**1069.7**	**-2033.0**	**-67.3**	**-1760.1**	**-124.6**	