HIGH VOLUME HYDRAULICALLY FRACTURED WELL COMPLETION ACTIVE PERMITS AND APPLICATIONS (AS OF 9/17/2012)

HIGH VOLUME (>100,000 gallons) HYDRAULIC FRACTURING SINCE 2008 - ACTIVE PERMITS										
# Permit #	Company Name	Well Name	Well No	County	Wellhead TRS	comments	target formation	Well type	Well status	Confidential
1 59112	BEACON EXPLORATION AND PRODUCTION CO LLC	SCHULTZ	136	SANILAC	12N 15E 36	well completed Feb. 2012	A1 Carbonate	Oil	Shut-in	NO
2 59173	CIMAREX ENERGY CO	SOPER	1-25 HD1	OSCEOLA	17N 10W 25	well completed Aug. 2008	Antrim	Gas	Plugging complete	NO
3 59449	O I L NIAGARAN LLC		D4-24	MISSAUKEE	21N 6W 24	proposed deepening of Antrim permit	Collingwood	Not available	Temporarily abandoned	NO
4 59979	ENCANA OIL AND GAS USA INC		1-3 HD1	MISSAUKEE	24N 7W 3	well completed Feb 2010	Collingwood	Gas	Shut-in	NO
5 60041	MERIT ENERGY COMPANY		2-22 HD1	MONTMORENCY	29N 1E 22	well completed June. 2011	Niagaran	Oil	Producing	NO
6 60133	ENCANA OIL AND GAS USA INC	KENDALL	1-33	CHEBOYGAN	35N 2W 33	permit for vertical well	Collingwood	Dry hole	Well complete	NO
7 60137	ATLAS RESOURCES LLC	STATE MANCELONA	1-28	ANTRIM	29N 5W 28	permit for vertical well	pilot - Not to be Hydraulic Fractured	Dry Hole	Temporarily abandoned	NO
8 60138	ATLAS RESOURCES LLC	LUCAS	1-13	KALKASKA	26N 8W 13	permit for vertical well	pilot - Not to be Hydraulic Fractured	Dry Hole	permitted	NO
9 60161	ATLAS RESOURCES LLC		1-6 HD1	MISSAUKEE	24N 6W 6	permit for horizontal well	Collingwood	Dry Hole	Temporarily abandoned	NO
10 60170	ENCANA OIL AND GAS USA INC	STATE KOEHLER & KENDALL		CHEBOYGAN	35N 2W 33	well completed Oct 2010	Collingwood	Oil	Temporarily abandoned	NO
11 60183	ENCANA OIL AND GAS USA INC		1-24	KALKASKA	27N 6W 24	permit for vertical well	pilot - Not to be Hydraulic Fractured	Dry Hole	drilled	NO
12 60186	CHEVRON MICHIGAN LLC	GERBER & STALEY	1-12	KALKASKA	28N 7W 12	permit for vertical well	pilot - Not to be Hydraulic Fractured	Location	Permitted Well	YES
13 60198	ATLAS RESOURCES LLC	LUCAS	1-13 HD1	KALKASKA	26N 8W 13	permit for horizontal well (60138)	Collingwood	Not available	Temporarily abandoned	NO
14 60212	CONTINENTAL RESOURCES INC	KELLY ET AL	1-26 HD1	HILLSDALE	6S 2W 26	well completed Sept. 2011	Black River (Van Wert)	Oil	Producing	NO
15 60271	ATLAS RESOURCES LLC	STATE MANCELONA	1-28 HD1	ANTRIM	29N 5W 28	permit for horizontal well (60137)	Collingwood	Location	Permitted Well	YES
16 60305	ENCANA OIL AND GAS USA INC	STATE WILMOT	121	CHEBOYGAN	33N 3W 21	well completed July 2011	Collingwood	Oil	Shut-in	NO
17 60328	ENCANA OIL AND GAS USA INC	STATE TUSCARORA	134	CHEBOYGAN	35N 5W 34	permit for vertical well	Collingwood	Location	Permitted Well	YES
18 60357	ENCANA OIL AND GAS USA INC	STATE OLIVER	1-1	KALKASKA	26N 6W 1	permit for vertical well	pilot - Not to be Hydraulic Fractured	Dry Hole	Well complete. HD drilled	NO
19 60360	ENCANA OIL AND GAS USA INC	STATE EXCELSIOR	1-13 HD1	KALKASKA	27N 6W 24	well completed Nov 2011	Collingwood	Gas	Producing	NO
20 60379	DEVON ENERGY PRODUCTION COMPANY LP	CRONK	1-24 P	GLADWIN	19N 1W 24	permit for vertical well	pilot - Not to be Hydraulic Fractured	Dry Hole	Well Complete	NO
21 60380	DEVON ENERGY PRODUCTION COMPANY LP	CRONK	1-24 HD1	GLADWIN	19N 1W 24	permit for horizontal well	A1 Carbonate	Not available	Temporarily abandoned	NO
22 60389	ENCANA OIL AND GAS USA INC		1-25 HD1	KALKASKA	26N 6W 1	well completed Nov 2011	Collingwood	Gas	Producing	NO
23 60536	CONTINENTAL RESOURCES INC	MCNAIR ET AL	1-26 P	HILLSDALE	6S 2W 26	permit for vertical well	Black River (Van Wert)	Other	Well Complete	NO
24 60537	CONTINENTAL RESOURCES INC	MCNAIR ET AL	1-26 HD1	HILLSDALE	6S 2W 26	permit for horizontal well	Black River (Van Wert)	Location	Drilling Complete	NO
25 60451	DEVON ENERGY PRODUCTION COMPANY LP	WILEY	1-34 P	GLADWIN	18N 2W 18	permit for vertical well	Not to be Completed	Other	Well Complete	NO
26 60452	DEVON ENERGY PRODUCTION COMPANY LP	WILEY	1-34 HD1	GLADWIN	18N 2W 18	well completed may/june 2012	A1 Carbonate	Location	Permitted Well	NO
27 60545	ENCANA OIL AND GAS USA INC		2-25 HD1	KALKASKA	26N 6W 1	permit for horizontal well	Collingwood	Location	Permitted Well	YES
28 60546	ENCANA OIL AND GAS USA INC	STATE EXCELSIOR	3-25 HD1	KALKASKA	26N 6W 1	permit for horizontal well	Collingwood	Location	Permitted Well	YES
29 60559	DEVON ENERGY PRODUCTION COMPANY LP	STATE RICHFIELD	1-27P	ROSCOMMON	22N 1W 27	permit for vertical well	pilot - Not to be Hydraulic Fractured	Location	Permitted Well	YES
30 60560	DEVON ENERGY PRODUCTION COMPANY LP	STATE RICHFIELD	1-34 HD1	ROSCOMMON	22N 1W 27	permit for horizontal well (60559)	Collingwood	Location	Permitted Well	YES
31 60562	ENCANA OIL AND GAS USA INC	STATE MENTOR	1-17	CHEBOYGAN	34N 3W 17	permit for vertical well	Collingwood	Location	Permitted Well	YES
32 60579	ENCANA OIL AND GAS USA INC	STATE GARFIELD	1-36	KALKASKA	25N 6W 36	permit for vertical well	pilot - Not to be Hydraulic Fractured	Location	Permitted Well	YES
	ENCANA OIL AND GAS USA INC		1-25 HD1	KALKASKA	25N 6W 36	permit for horizontal well	Collingwood	Location	Permitted Well	YES
34 60581	DEVON ENERGY PRODUCTION COMPANY LP	DAVID'S ACRES, LLC	1-19 P	OGEMAW	22N 4E 19	permit for vertical well	pilot - Not to be Hydraulic Fractured	Location	Permitted Well	NO
35 60582	DEVON ENERGY PRODUCTION COMPANY LP		1-19 HD1	OGEMAW	22N 4E 19	permit for horizontal well	A1 Carbonate	Location	Permitted Well	NO
36 60587	CONTINENTAL RESOURCES INC	ARNO & FRENCH	1-25 HD1	HILLSDALE	6S 2W 25	permit for horizontal well	Black River (Van Wert)	Location	Permitted Well	NO
37 60588	CONTINENTAL RESOURCES INC	ARNO & TIMMONS	1-24 HD1	HILLSDALE	6S 2W 24	permit for horizontal well	Black River (Van Wert)	Location	Permitted Well	NO
38 60600	CHEVRON MICHIGAN LLC	WESTERMAN	1-29	KALKASKA	28N 8W 29	permit for vertical well	pilot - Not to be Hydraulic Fractured	Location	Permitted Well	NO
39 60601	CHEVRON MICHIGAN LLC	WESTERMAN	1-32 HD1	KALKASKA	28N 8W 29	permit for horizontal well	Collingwood	Location	Permitted Well	NO
40 60606 ENCANA OIL AND GAS USA INC STATE MENTOR 1-17 HD1 CHEBOYGAN 34N 3W 17 permit for horizontal well Collingwood Location Permitted Well YES HIGH VOLUME (>100,000 qallions) HYDRAULIC FRACTURING PROPOSALS - ACTIVE APPLICATIONS										
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# App #	CUEVPON MICHICAN LLC	Well Name	Well No	County	Wellhead TRS	target formation	comments			
1 A100241	CHEVRON MICHIGAN LLC MERIT ENERGY COMPANY	GERBER & STALEY	1-12 HD1	KALKASKA ANTRIM	28N 7W 12	Collingwood	application for horizontal well (re-entry of 60186)			
2 A110068 3 A120046	MERTI ENERGY COMPANY ENCANA OIL AND GAS USA INC	STATE MANCELONA STATE WILMONT	8-33 1-6	CHEBOYGAN	29N 5W 33 33N 3W 6	Collingwood Collingwood	tolled - needs more information application for vertical well			
4 A120046	ENCANA OIL AND GAS USA INC	STATE WILMONT	1-17	KALKASKA	25N 5W 17	Collingwood	application for vertical well application for vertical well			
5 A120047	ENCANA OIL AND GAS USA INC	STATE GARFIELD	1-17 1-34 HD1	KALKASKA	26N 6W 10	Collingwood	application for horizontal well (re-entry of proposed A120042)			
6 A120074	ENCANA OIL AND GAS USA INC		2-34 HD1	KALKASKA	26N 6W 10	Collingwood	horizontal well on same well pad as A120042/73/74			
7 A120075	ENCANA OIL AND GAS USA INC		3-34 HD1	KALKASKA	26N 6W 10	Collingwood	horizontal well on same well pad as A120042/73/74			
8 A120093	DEVON ENERGY PRODUCTION COMPANY LP	YOUNKMAN	1-29 HD1	MISSAUKEE	21N 8W 29	Utica	application for horizontal well			
9 A120105	ROSETTA RESOURCES OPERATING LP	CHRISTENSEN	1-21 P	IONIA	6N 6W 21	A1 Carbonate	application for vertical well			
10 A120106	ROSETTA RESOURCES OPERATING LP		1-21 HD1	IONIA	6N 6W 21	A1 Carbonate	application for horizontal well (re-entry of proposed A120105)			
11 A120123	ENCANA OIL AND GAS USA INC		C3-11	CRAWFORD	25N 4W 11	Collingwood	application for vertical well			
12 A120124	ENCANA OIL AND GAS USA INC	STATE BEAVER CREEK	1-23 HD1	CRAWFORD	25N 4W 11	Collingwood	application for horizontal well (re-entry of proposed A120123)			
13 A120131	ENCANA OIL AND GAS USA INC		D1-17	ROSCOMMON	21N 4W 17	Collingwood	application for vertical well			
14 A120132	ENCANA OIL AND GAS USA INC		1-8 HD1	ROSCOMMON	21N 4W 17	Collingwood	application for horizontal well (re-entry of proposed A120131)			
15 A120132	CONTINENTAL RESOURCES INC	STEVERSON & FRENCH	1-24 HD1	HILLSDALE	6S 2W 26	Black River (Van Wert)	application for horizontal well			