

# HIGH VOLUME HYDRAULICALLY FRACTURED WELL COMPLETION ACTIVE PERMITS AND APPLICATIONS

(AS OF 12/22/2014)

HIGH VOLUME (>100,000 gallons) HYDRAULIC FRACTURING SINCE 2008 - ACTIVE PERMITS									
#	Permit #	Company Name	Well Name	Well No	Comments	Target formation	Well Type	Well Status	Confidential
1	59112	BEACON EXPLORATION AND PRODUCTION CO LLC	SCHULTZ	1--36	well completed Feb. 2012	A1 Carbonate	Oil	Shut-in	NO
2	59173	CIMAREX ENERGY CO	SOPER	1-25 HD1	well completed Aug. 2008	Antrim	Gas	Plugging complete	NO
3	59979	MARATHON OIL COMPANY	PIONEER	1-3 HD1	well completed by Encana Feb 2010	Utica-Collingwood	Gas	Temporarily abandoned	NO
4	60041	MERIT ENERGY COMPANY	HUBBEL	2-22 HD/HD1	well completed June. 2010	Niagaran	Oil	Producing	NO
5	60041	MERIT ENERGY COMPANY	HUBBEL	2-22 HD1	well completed 2011	Niagaran	Oil	Producing	NO
6	60041	MERIT ENERGY COMPANY	HUBBEL	2-22 HD2	well completed 2012	Niagaran	Oil	Producing	NO
7	60161	ATLAS RESOURCES LLC	STATE NORWICH	1-6 HD1	well not hydraulically fractured to date.	Utica-Collingwood	Dry Hole	Temporarily abandoned	NO
8	60170	MARATHON OIL COMPANY	STATE KOEHLER & KENDALL	1-27 HD1	well completed by Encana Oct 2010	Utica-Collingwood	Oil	Temporarily abandoned	NO
9	60198	ATLAS RESOURCES LLC	LUCAS	1-13 HD1	well not hydraulically fractured to date.	Utica-Collingwood	Not available	Temporarily abandoned	NO
10	60212	COUNTRYMARK RESOURCES INC	KELLY ET AL	1-26 HD1	well completed Sept. 2011	Black River (Van Wert)	Oil	Producing	NO
11	60360	MARATHON OIL COMPANY	STATE EXCELSIOR	1-13 HD1	well completed by Encana Nov 2011	Utica-Collingwood	Gas	Producing	NO
12	54696	TIGER DEVELOPMENT LLC	STATE GARFIELD & TIGER	1-14	Well completed Oct. 2013	Collingwood	Gas	Temporarily abandoned	NO
13	60380	DEVON ENERGY PRODUCTION COMPANY LP	CRONK	1-24 HD1	well completed April/May 2012	A1 Carbonate	Dry Hole	Plugging approved	NO
14	60389	MARATHON OIL COMPANY	STATE EXCELSIOR	1-25 HD1	well completed by Encana Nov 2011	Utica-Collingwood	Gas	Producing	NO
15	60452	DEVON ENERGY PRODUCTION COMPANY LP	WILEY	1-18 HD1	well completed May/June 2012	A1 Carbonate	Gas	Plugging approved	NO
16	60537	CONTINENTAL RESOURCES INC	MCNAIR ET AL	1-26 HD1	well completed August 2012	Black River (Van Wert)	Oil	Producing	NO
17	60545	MARATHON OIL COMPANY	STATE EXCELSIOR	2-25 HD1	well completed by Encana Oct 2012	Utica-Collingwood	Gas	Producing	NO
18	60546	MARATHON OIL COMPANY	STATE EXCELSIOR	3-25 HD1	well completed by Encana Oct 2012	Utica-Collingwood	Gas	Producing	NO
19	60560	DEVON ENERGY PRODUCTION COMPANY LP	STATE RICHFIELD	1-34 HD1	well completed Nov 2012	Collingwood	Gas	Plugging approved	NO
20	60575	ALTA ENERGY OPERATING LLC	RILEY	1-22 HD1	Well completed Dec. 2012/May 2013	A1 Carbonate	Oil	Well complete	NO
21	60579	MARATHON OIL COMPANY	STATE GARFIELD	1-25 HD1	Well completed by Encana Dec. 2012	Utica-Collingwood	Gas	Producing	NO
22	60587	COUNTRYMARK ENERGY RESOURCES LLC	ARNO	1-25 HD1	permit for horizontal well	Black River (Van Wert)	Location	Permitted Well	NO
23	60588	COUNTRYMARK ENERGY RESOURCES LLC	ARNO & TIMMONS	1-24 HD1	permit for horizontal well	Black River (Van Wert)	Location	Permitted Well	NO
24	60601	ENCANA OIL AND GAS USA INC	WESTERMAN	1-32 HD1	Well completed by Encana May/June 2013	Utica-Collingwood	Location	Producing	NO
25	60615	ROSETTA RESOURCES OPERATING LP	STATE ORANGE & CHRISTENSEN	1-21 HD1	Well completed June 2013	A1 Carbonate	Dry Hole	Plugging complete	NO
26	60621	MARATHON OIL COMPANY	STATE BEAVER CREEK	1-23 HD1	well completed by Encana May 2013	Utica-Collingwood	Gas	Producing	NO
27	60674	MUZYL OIL CORPORATION	BURNS	A1-23 HD1	permit for horizontal well	Black River (Van Wert)	location	Permitted Well	NO
28	60686	MARATHON OIL COMPANY	STATE GARFIELD	1-23 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
29	60718	JORDAN DEVELOPMENT CO. LLC	STATE JEROME & STARNES	15-8 HD1	well completed October 2013	Dundee	Oil	Well Complete	NO
30	60746	MARATHON OIL COMPANY	STATE EXCELSIOR	1-14 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
31	60747	MARATHON OIL COMPANY	STATE EXCELSIOR	1-12 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
32	60748	MARATHON OIL COMPANY	STATE EXCELSIOR	1-11 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
33	60749	MARATHON OIL COMPANY	STATE EXCELSIOR	2-14 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
34	60750	MARATHON OIL COMPANY	STATE EXCELSIOR	2-12 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
35	60755	ROSETTA RESOURCES OPERATING LP	SWANSON TRUST	1-1 HD1	permit for horizontal well	A1-Carbonate	Location	Permitted Well	YES
36	60765	MARATHON OIL COMPANY	STATE EXCELSIOR	3-12 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
37	60766	MARATHON OIL COMPANY	STATE EXCELSIOR	4-12 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
38	60767	MARATHON OIL COMPANY	STATE EXCELSIOR	5-12 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
39	60788	UNION GAS OPERATING COMPANY	MERTEN	1-24 HD1	permit for horizontal well	A1-Carbonate	Location	Permitted Well	NO
40	60809	WHITING OIL AND GAS CORPORATION	WALKER	11-25 HD1	permit for horizontal well	A1-Carbonate	Location	Drilling complete	NO
41	60811	GEOSOUTHERN OPERATING LLC	SHERWOOD	1-22 HD1	permit for horizontal well	A-1 Carbonate	Location	Drilling complete	YES
42	60818	MARATHON OIL COMPANY	STATE OLIVER	3-13 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
43	60819	MARATHON OIL COMPANY	STATE EXCELSIOR	4-25 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
44	60820	MARATHON OIL COMPANY	STATE OLIVER	2-13 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
45	60821	MARATHON OIL COMPANY	STATE OLIVER	1-13 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
46	60822	MARATHON OIL COMPANY	STATE EXCELSIOR	5-25 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
47	60826	WHITING OIL AND GAS CORPORATION	STATE WHEATLAND & REINELT	11-7 HD1	permit for horizontal well	A1 Carbonate	Location	Drilling complete	NO
48	60848	MARATHON OIL COMPANY	STATE PIONEER	3-4 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
49	60891	MARATHON OIL COMPANY	STATE NORWICH	3-12 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
50	60892	MARATHON OIL COMPANY	BLACK RIVER CONSERVATION ASSN.	1-9 HD1	permit for horizontal well	Utica-Collingwood	Location	Permitted Well	YES
51	60922	O I L ENERGY CORP.	STATE CUSTER AND MUNN	D2-6	permit for directional well	Antrim	Location	Permitted Well	NO
52	60930	WHITING OIL AND GAS CORPORATION	RICH ET AL	11-33 HD1	permit for horizontal well	A-1 Carbonate	Location	Permitted Well	YES
53	60955	WHITING OIL AND GAS CORPORATION	VAN DAMME	41-4 HD1	permit for horizontal well	A-1 Carbonate	Location	Permitted Well	YES
54	60969	WHITING OIL AND GAS CORPORATION	RICH	14-9 HD1	permit for horizontal well	A-1 Carbonate	Location	Permitted Well	YES
55	60991	GEOSOUTHERN OPERATING LLC	MCKENNEY	1-27 HD1	permit for horizontal well	application for horizontal well	Location	Permitted Well	YES
56	61009	O I L ENERGY CORP.	STATE CUSTER AND BGC	C3-31	permit for vertical well	application for a directional well	Location	Permitted Well	YES
57	53588	MERIT ENERGY COMPANY	USA BIG CREEK	3-16	Rework via hydraulic fracturing	Richfield	Oil	Producing	NO
HIGH VOLUME (>100,000 gallons) HYDRAULIC FRACTURING PROPOSALS - ACTIVE APPLICATIONS									
#	App #	Company Name	Well Name	Well No	target formation	comments			
1	A130152	ENCANA OIL AND GAS USA INC	BLACK RIVER CONSERVATION ASSN.	6-9 HD1	Utica-Collingwood	application for horizontal well			
2	A140187	TIGER DEVELOPMENT LLC	STATE GARFIELD	C4-12 HD1	Utica-Collingwood	application for horizontal well			