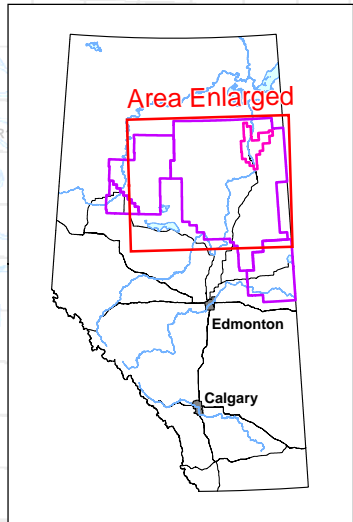


REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS	REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS
Upgraders				Cold Lake Oil Sands Area			
A	CNRL - Horizon	Upgrader	Operating	94	Baytex - Mann Lake East	Primary	Operating
B	Nexen - Long Lake	Upgrader	Operating	95	Baytex - Reita Lake III	Primary	Operating
C	Shell - Scotford	Upgrader	Operating	96	Black Pearl Resources - John Lake	Primary	Operating
D	Suncor - Base and Millennium	Upgrader	Operating	97	Bonavista Energy - Lindbergh Louis	Primary	Operating
E	Syncrude - Mildred Lake	Upgrader	Operating	98	Bonavista Energy - Passage Elk	Primary	Operating
F	North West Upgrading - Redwater	Upgrader	Construction	99	Bonavista Energy - Swimming	Primary	Operating
G	Value Creation - Terre de Grace	Upgrader	Approved	100	CNRL - Ashmont	Primary	Operating
H	Nanhoe - Tamarack	Upgrader	Application	101	CNRL - Beartrap	Primary	Operating
I	Value Creation - Advanced TriStar	Upgrader	Application	102	CNRL - Derwent 11574	Primary	Operating
J	Value Creation - Tristar	Upgrader	Application	103	CNRL - East Fishing Lake	Primary	Operating
Athabasca Oil Sands Area				104	CNRL - Edward Lake	Primary	Operating
1	E-T Energy - Poplar Creek OSFT2009	Experimental	Operating	105	CNRL - Elizabeth	Primary	Operating
2	Laricina Energy - Saleski SAGD Pilot	Experimental	Operating	106	CNRL - Elk Point	Primary	Operating
3	CNRL - Horizon	Mining	Operating	107	CNRL - Elk Point Project	Primary	Operating
4	Imperial Oil - Kearl	Mining	Operating	108	CNRL - Fire Tower	Primary	Operating
5	Shell - Jackpine Mine	Mining	Operating	109	CNRL - Fishing Lake	Primary	Operating
6	Shell - Muskeg River Mine	Mining	Operating	110	CNRL - Frog Lake	Primary	Operating
7	Suncor - Suncor Oil Sands	Mining	Operating	111	CNRL - Ft. Kent	Primary	Operating
8	Syncrude - Syncrude Mine	Mining	Operating	112	CNRL - John Lake	Primary	Operating
9	Cenovus - Pelican Lake III	Primary	Operating	113	CNRL - John Lake 11428	Primary	Operating
10	CNRL - Brintnell	Primary	Operating	114	CNRL - Lindbergh North	Primary	Operating
11	CNRL - Cherpeta	Primary	Operating	115	CNRL - Lindbergh Primary	Primary	Operating
12	CNRL - South Brintnell	Primary	Operating	116	CNRL - Marwayne	Primary	Operating
13	CNRL - South Wabasca	Primary	Operating	117	CNRL - Moose Hills	Primary	Operating
14	CNRL - Wabasca North	Primary	Operating	118	CNRL - North Murphy Lindbergh	Primary	Operating
15	CNRL - Woodenhouse	Primary	Operating	119	CNRL - Ranger Cold Lake	Primary	Operating
16	Husky - Amadou	Primary	Operating	120	CNRL - Reita Lake 10899	Primary	Operating
17	Husky - McMullen Primary Heavy Oil	Primary	Operating	121	CNRL - Reita Lake II	Primary	Operating
18	Legacy O&G - Brintnell 9774	Primary	Operating	122	CNRL - Seibert Lake	Primary	Operating
19	Sunshine Oilsands - Muskwa	Primary	Operating	123	CNRL - South Lindbergh	Primary	Operating
20	Black Pearl Resources - Blackrod SAGD Pilot	Thermal	Operating	124	CNRL - West Marwayne	Primary	Operating
21	Cenovus - Christina Lake Thermal	Thermal	Operating	125	Devon - East Tulabi John Lake	Primary	Operating
22	Cenovus - Foster Creek	Thermal	Operating	126	Devon - Iron River	Primary	Operating
23	Cenovus - Pelican Lake Grand Rapids	Thermal	Operating	127	Devon - Manatoka	Primary	Operating
24	Connacher - Algar	Thermal	Operating	128	Devon - Manatoka 10310	Primary	Operating
25	Connacher - Great Divide	Thermal	Operating	129	Devon - Mann North	Primary	Operating
26	Conoco Phillips - Summit	Thermal	Operating	130	Devon - Tulabi/John Lake	Primary	Operating
27	Devon - Jackfish SAGD Thermal Project	Thermal	Operating	131	Hanest Operations - Lindbergh South	Primary	Operating
28	Devon - Jackfish 2 SAGD Thermal Project	Thermal	Operating	132	Husky - Lindbergh 10259	Primary	Operating
29	Husky - McMullen Thermal Conduction Pilot	Thermal	Operating	133	Husky - Lindbergh 10619	Primary	Operating
30	JACOS - Hangingstone	Thermal	Operating	134	Husky - Lindbergh 10812	Primary	Operating
31	MEG Energy - Christina Lake Regional	Thermal	Operating	135	Husky - Lindbergh 11041	Primary	Operating
32	Nexen - Long Lake	Thermal	Operating	136	Husky - Lindbergh 11205	Primary	Operating
33	Southern Pacific - STP McKay SAGD	Thermal	Operating	137	Husky - Lindbergh 9873, 11822, 11541	Primary	Operating
34	Statoil - Leismer Demonstration Project	Thermal	Operating	138	Husky - Marwayne 10597	Primary	Operating
35	Suncor - Firebag	Thermal	Operating	139	Husky - Marwayne 11287	Primary	Operating
36	Suncor - MacKay River	Thermal	Operating	140	Husky - Marwayne 7990	Primary	Operating
37	Sunshine Oilsands - Harper	Thermal	Operating	141	Husky - Marwayne 8655	Primary	Operating
38	Suncor - Fort Hills Oil Sands Project	Mining	Construction	142	Husky - Tucker Lake 9835	Primary	Operating
39	Total - Joslyn North Mine	Mining	Construction	143	Long Run Exploration - Lindbergh 10631	Primary	Operating
40	Devon - Jackfish 3 SAGD Project	Thermal	Construction	144	Solara - Lindbergh 11429	Primary	Operating
41	Athabasca Oil Sands - Hangingstone	Thermal	Construction	145	Twin Butte Energy - Frog Lake	Primary	Operating
42	Brion Energy - MacKay River	Thermal	Construction	146	Twin Butte Energy - Frog Lake 11256	Primary	Operating
43	Cenovus - Clearwater Thermal Project	Thermal	Construction	147	Twin Butte Energy - Swimming 11191	Primary	Operating
44	Cenovus - Narrows Lake	Thermal	Construction	148	CNRL - Burnt Lake	Thermal	Operating
45	CNRL - Kirby Commercial Project	Thermal	Construction	149	CNRL - Elk Point CA	Thermal	Operating
46	Grizzly Oil Sands - Algar Lake	Thermal	Construction	150	CNRL - Lindbergh CA	Thermal	Operating
47	Hanest Energy - BlackGold	Thermal	Construction	151	CNRL - Primrose	Thermal	Operating
48	Husky - Sunrise Thermal	Thermal	Construction	152	CNRL - Wolf Lake CA	Thermal	Operating
49	Laricina Energy - Germain	Thermal	Construction	153	Husky - Tucker	Thermal	Operating
50	N-Solv Corporation - Dover	Thermal	Construction	154	Imperial Oil - Cold Lake	Thermal	Operating
51	Statoil - Corner	Thermal	Construction	155	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operating
52	Sunshine Oilsands - West Ellis	Thermal	Construction	156	Shell - Orion	Thermal	Operating
53	Oak Point Energy - Lewis SAGD Pilot	Experimental	Approved	157	Husky - Caribou Lake	Thermal	Approved
54	Cenovus - West Kirby	Thermal	Approved	158	Koch - Gemini	Thermal	Approved
55	CNRL - Kirby Expansion (North)	Thermal	Approved	159	OSUM - Taiga	Thermal	Approved
56	Suncor - Meadow Creek	Thermal	Approved	160	Birchwood Resources - Sage Thermal Pilot	Thermal	Application
57	Value Creation - Terre de Grace Pilot	Thermal	Approved	161	Devon - Walleye	Thermal	Application
Peace River Oil Sands Area				162	Baytex - Reno	Primary	Operating
59	Husky - Saleski Carbonate Pilot	Experimental	Application	163	Baytex - Dawson 11327	Primary	Operating
60	Shell - Pierre River	Mining	Application	164	Baytex - Seal Bluesky	Primary	Operating
61	Suncor - Voyageur South	Mining	Application	165	Baytex - Tangent 11437	Primary	Operating
62	Tec Resources - Frontier	Mining	Application	166	Baytex - West Harmon Valley Bluesky	Primary	Operating
63	Alberta Oil Sands - Clearwater West	Thermal	Application	167	Husky - Cadotte Heavy Oil	Primary	Operating
64	Athabasca Oil Sands - Dover West Sands & Clastics	Thermal	Application	168	Koch - Seal South	Primary	Operating
65	Black Pearl Resources - Blackrod Commercial	Thermal	Application	169	Murphy Oil - Cliffdale	Primary	Operating
66	Brion Energy - Dover Commercial Project	Thermal	Application	170	Murphy Oil - Murphy Seal	Primary	Operating
67	Cavalier Energy Inc - Hoole	Thermal	Application	171	Murphy Oil - Peace River	Primary	Operating
68	Cenovus - Telephone Lake Borealis	Thermal	Application	172	Penn West Petroleum - Harmon Valley	Primary	Operating
69	CNRL - Grouse	Thermal	Application	173	Penn West Petroleum - Seal 11099	Primary	Operating
70	Devon - Pike	Thermal	Application	174	Penn West Petroleum - Seal Cadotte	Primary	Operating
71	Grizzly Oil Sands - Thickwood	Thermal	Application	175	Penn West Petroleum - Seal Harmon Valley South	Primary	Operating
72	Nanhoe Energy - Tamarack	Thermal	Application	176	Penn West Petroleum - Seal North	Primary	Operating
73	Koch - Muskwa	Thermal	Application	177	Shell - Cadotte 10746	Primary	Operating
74	Marathon Oil Corporation - Birchwood	Thermal	Application	178	Shell - Chipmunk	Primary	Operating
75	MEG Energy - Summit	Thermal	Application	179	Shell - Chipmunk II	Primary	Operating
76	OSUM - Sepiko Kesik	Thermal	Application	180	Shell - Cliffdale	Primary	Operating
77	Statoil - Thornbury	Thermal	Application	181	Shell - Seal I	Primary	Operating
78	Sunshine Oilsands - Legend Lake	Thermal	Application	182	Shell - Seal-Northern Cadotte Block	Primary	Operating
79	Sunshine Oilsands - Thickwood	Thermal	Application	183	Shell - Seal-Northern Cadotte Block II	Primary	Operating
80	Summont Energy - Wildwood	Thermal	Application	184	Baytex - Cliffdale	Thermal	Operating
81	Value Creation - Advanced TriStar	Thermal	Application	185	Murphy Oil - Seal Cadotte CSS	Thermal	Operating
82	Athabasca Oil Sands - Birch	Thermal	Announced	186	Penn West Petroleum - Dawson Seal	Thermal	Operating
83	Cenovus - East McMurray	Thermal	Announced	187	Shell - Peace River	Thermal	Operating
84	Cenovus - Steepbank	Thermal	Announced	188	Shell - PRC 32 & 33	Thermal	Operating
85	Cenovus - Winfred Lake	Thermal	Announced	189	Shell - SR 2000	Thermal	Operating
86	CNRL - Birch Mountain	Thermal	Announced	190	Petrobank - Dawson	Thermal	Construction
87	CNRL - Grogioire Lake	Thermal	Announced	191	Penn West Petroleum - Seal Main East	Primary	Approved
88	Grizzly Oil Sands - May River	Thermal	Announced	192	Andora - Sawn Lake	Thermal	Approved
89	Imperial Oil - Aspen	Thermal	Announced	193	Northern Alberta Oil - Sawn Lake	Thermal	Approved
90	SilverWillow Energy - Audet Pilot	Thermal	Announced	194	Shell - Camron Creek	Thermal	Approved
91	Statoil - Hangingstone	Thermal	Announced	195	Baytex - Walrus	Primary	Application
92	Suncor - Chard	Thermal	Announced				
93	Suncor - Lewis	Thermal	Announced				

Notes:

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Alberta



PEACE
RIVER # 2

ATHABASCA

Fort
McMurray

Athabasca Oil Sands Projects and Upgraders

DISCLAIMER:
This map excludes active projects with production of less than 1000 barrels of bitumen in the last six months.

Locations are approximate and may not represent the full extent of project areas. Leased Oil Sands Area information is shown to the nearest quarter section, and therefore may appear to include minerals not owned by the Alberta Crown and/or Minerals Reserved From Disposition.

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Announced: Operator has disclosed intent to construct project.

SOURCE INFORMATION:
Projects & Upgraders Information:
- Oil Sands Administration & Strategic Information System, Alberta Energy
- Alberta Energy Regulator - Integrated Application Registry
- Alberta Oil Sands Industry - Quarterly Update (Spring 2013)
- Oilsands Review & CanOils
Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)
Leased Oil Sands Area: Alberta Energy (July 2013)
Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER)
Base Data provided by Spatial Data Warehouse Ltd.

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Transverse Mercator Projection (10TM)
North American Datum 1983 (NAD83)

Date: July 2013
Author: Oil Sands Operations, Alberta Energy (JA)
Produced by: Resource Mapping & Analysis, Alberta Energy (JS)



Project Status

- Operating (37)
- Construction (15)
- Approved (5)
- Application (24)
- Announced (12)

Upgrader Status

- Operating (4)
- Construction (0)
- Approved (1)
- Application (3)

Other Information

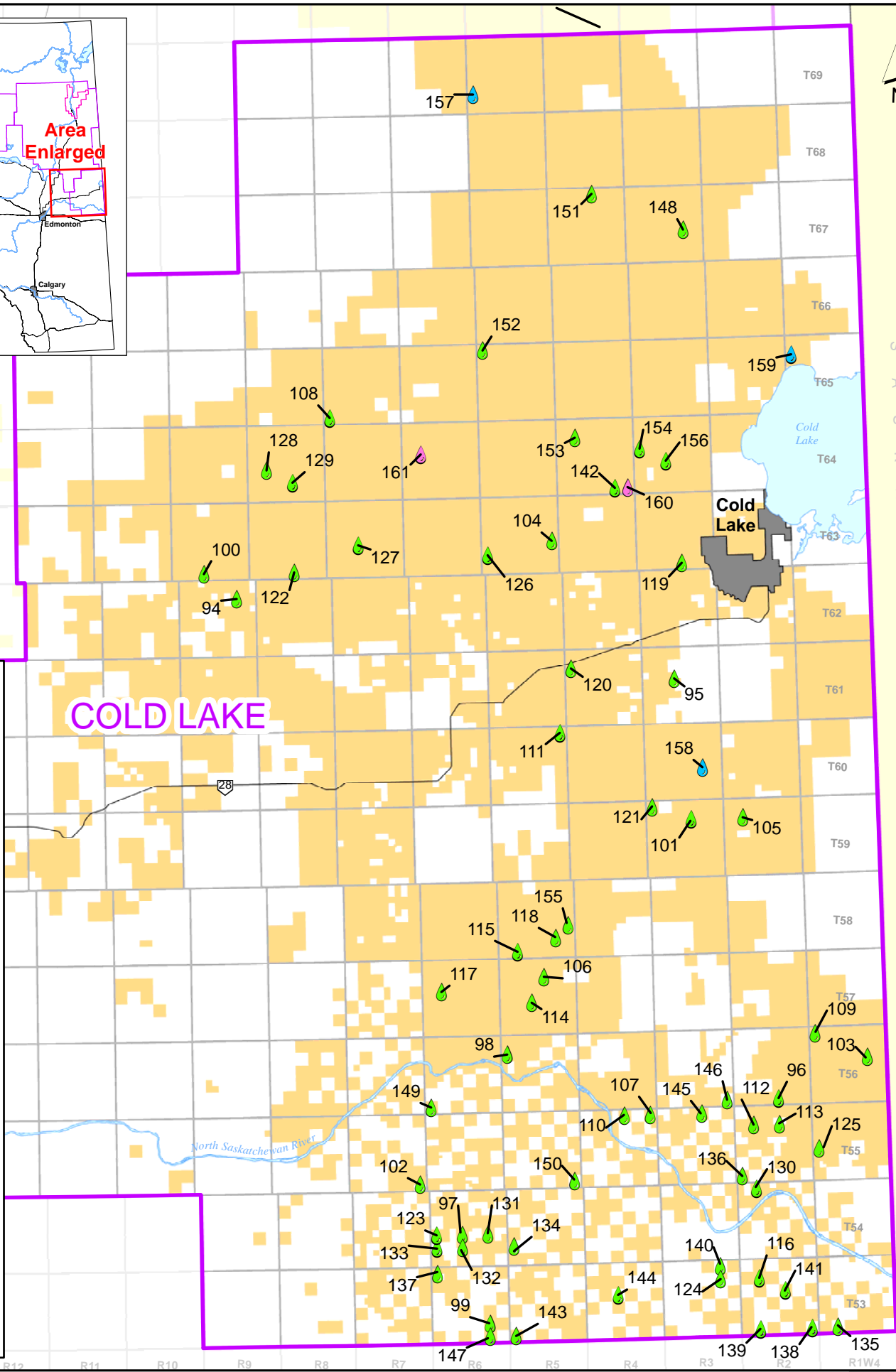
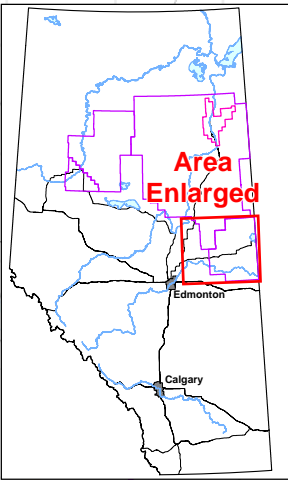
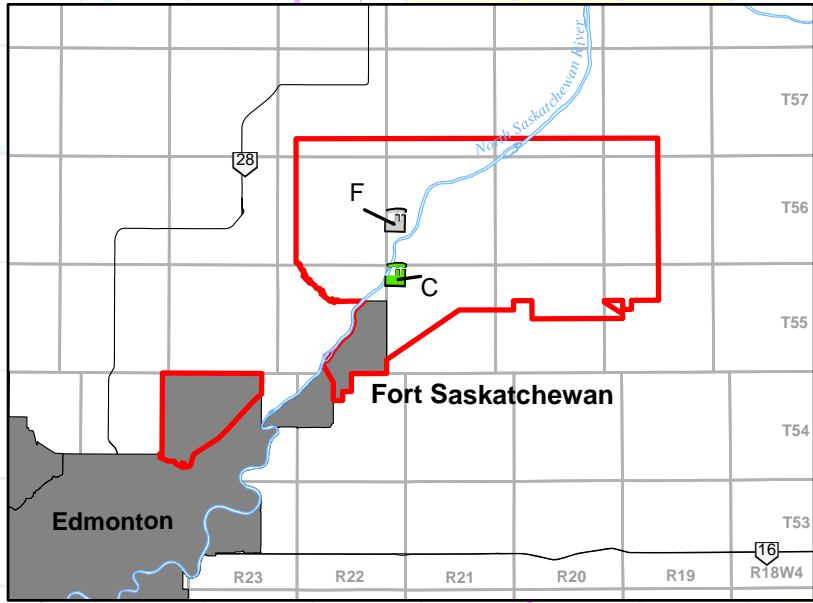
- Oil Sands Area
- Surface Mineable Area
- Industrial Heartland
- Leased Oil Sands Area
- Municipality
- Hydrography
- Major Highway

0 5 10 20
Kilometers

REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS
Upgraders			
A	CNRL - Horizon	Upgrader	Operating
B	Nexen - Long Lake	Upgrader	Operating
D	Suncor - Base and Millennium	Upgrader	Operating
E	Syncrude - Mildred Lake	Upgrader	Operating
G	Value Creation - Terre de Grace	Upgrader	Approved
H	Nanhoue - Tamarack	Upgrader	Application
I	Value Creation - Advanced TriStar	Upgrader	Application
J	Value Creation - Tristar	Upgrader	Application
Athabasca Oil Sands Area			
1	E-T Energy - Poplar Creek OSFT2009	Experimental	Operating
2	Laricina Energy - Saleski SAGD Pilot	Experimental	Operating
3	CNRL - Horizon	Mining	Operating
4	Imperial Oil - Kearl	Mining	Operating
5	Shell - Jackpine Mine	Mining	Operating
6	Shell - Muskeg River Mine	Mining	Operating
7	Suncor - Suncor Oil Sands	Mining	Operating
8	Syncrude - Syncrude Mine	Mining	Operating
9	Cenovus - Pelican Lake III	Primary	Operating
10	CNRL - Brintnell	Primary	Operating
11	CNRL - Cherpeta	Primary	Operating
12	CNRL - South Brintnell	Primary	Operating
13	CNRL - South Wabasca	Primary	Operating
14	CNRL - Wabasca North	Primary	Operating
15	CNRL - Woodenhouse	Primary	Operating
16	Husky - Amadou	Primary	Operating
17	Husky - McMullen Primary Heavy Oil	Primary	Operating
18	Legacy O&G - Brintnell 9774	Primary	Operating
19	Sunshine Oilsands - Muskwa	Primary	Operating
20	Black Pearl Resources - Blackrod SAGD Pilot	Thermal	Operating
21	Cenovus - Christina Lake Thermal	Thermal	Operating
22	Cenovus - Foster Creek	Thermal	Operating
23	Cenovus - Pelican Lake Grand Rapids	Thermal	Operating
24	Connacher - Algar	Thermal	Operating
25	Connacher - Great Divide	Thermal	Operating
26	Conoco Phillips - Summit	Thermal	Operating
27	Devon - Jackfish SAGD Thermal Project	Thermal	Operating
28	Devon - Jackfish 2 SAGD Thermal Project	Thermal	Operating
29	Husky - McMullen Thermal Conduction Pilot	Thermal	Operating
30	JACOS - Hangingstone	Thermal	Operating
31	MEG Energy - Christina Lake Regional	Thermal	Operating
32	Nexen - Long Lake	Thermal	Operating
33	Southern Pacific - STP McKay SAGD	Thermal	Operating
34	Statoli - Leismer Demonstration Project	Thermal	Operating
35	Suncor - Firebag	Thermal	Operating
36	Suncor - MacKay River	Thermal	Operating
37	Sunshine Oilsands - Harper	Thermal	Operating
38	Suncor - Fort Hills Oil Sands Project	Mining	Construction
39	Total - Joslyn North Mine	Mining	Construction
40	Devon - Jackfish 3 SAGD Project	Thermal	Construction
41	Athabasca Oil Sands - Hangingstone	Thermal	Construction
42	Brion Energy - MacKay River	Thermal	Construction
43	Cenovus - Clearwater Thermal Project	Thermal	Construction
44	Cenovus - Narrows Lake	Thermal	Construction
45	CNRL - Kirby Commercial Project	Thermal	Construction
46	Grizzly Oil Sands - Algar Lake	Thermal	Construction
47	Harvest Energy - BlackGold	Thermal	Construction
48	Husky - Sunrise Thermal	Thermal	Construction
49	Laricina Energy - Germain	Thermal	Construction
50	N-Solv Corporation - Dover	Thermal	Construction
51	Statoli - Corner	Thermal	Construction
52	Sunshine Oilsands - West Elle	Thermal	Construction
53	Oak Point Energy - Lewis SAGD Pilot	Experimental	Approved
54	Cenovus - West Kirby	Thermal	Approved
55	CNRL - Kirby Expansion (North)	Thermal	Approved
56	Suncor - Meadow Creek	Thermal	Approved
57	Value Creation - Terre de Grace Pilot	Thermal	Approved
58	Athabasca Oil Sands - Dover West Carbonates (Leduc)	Experimental	Application
59	Husky - Saleski Carbonate Pilot	Experimental	Application
60	Shell - Pierre River	Mining	Application
61	Suncor - Voyageur South	Mining	Application
62	Tec Resources - Frontier	Mining	Application
63	Alberta Oil Sands - Clearwater West	Thermal	Application
64	Athabasca Oil Sands - Dover West Sands & Clastics	Thermal	Application
65	Black Pearl Resources - Blackrod Commercial	Thermal	Application
66	Brion Energy - Dover Commercial Project	Thermal	Application
67	Cavalier Energy Inc - Hoole	Thermal	Application
68	Cenovus - Telephone Lake Borealis	Thermal	Application
69	CNRL - Grouse	Thermal	Application
70	Devon - Pike	Thermal	Application
71	Grizzly Oil Sands - Thickwood	Thermal	Application
72	Nanhoue Energy - Tamarack	Thermal	Application
73	Koch - Muskwa	Thermal	Application
74	Marathon Oil Corporation - Birchwood	Thermal	Application
75	MEG Energy - Summit	Thermal	Application
76	OSUM - Sepiko Kesik	Thermal	Application
77	Statoli - Thornbury	Thermal	Application
78	Sunshine Oilsands - Legend Lake	Thermal	Application
79	Sunshine Oilsands - Thickwood	Thermal	Application
80	Summont Energy - Wildwood	Thermal	Application
81	Value Creation - Advanced TriStar	Thermal	Application
82	Athabasca Oil Sands - Birch	Thermal	Announced
83	Cenovus - East McMurray	Thermal	Announced
84	Cenovus - Steepbank	Thermal	Announced
85	Cenovus - Winefred Lake	Thermal	Announced
86	CNRL - Birch Mountain	Thermal	Announced
87	CNRL - Gregoire Lake	Thermal	Announced
88	Grizzly Oil Sands - May River	Thermal	Announced
89	Imperial Oil - Aspen	Thermal	Announced
90	SilverWillow Energy - Audet Pilot	Thermal	Announced
91	Statoli - Hangingstone	Thermal	Announced
92	Suncor - Chard	Thermal	Announced
93	Suncor - Lewis	Thermal	Announced

Notes:
Primary/EOR - These projects utilize the natural energy available in the reservoirs (in some cases supplemented by non-thermal EOR processes) to produce bitumen.
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REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS
Upgraders			
C	Shell - Scotford	Upgrader	Operating
F	North West Upgrading - Redwater	Upgrader	Construction
Cold Lake Oil Sands Area			
94	Baytex - Mann Lake East	Primary	Operating
95	Baytex - Reita Lake III	Primary	Operating
96	Black Pearl Resources - John Lake	Primary	Operating
97	Bonavista Energy - Lindbergh Louis	Primary	Operating
98	Bonavista Energy - Passage Elk	Primary	Operating
99	Bonavista Energy - Swimming	Primary	Operating
100	CNRL - Ashmont	Primary	Operating
101	CNRL - Beartrap	Primary	Operating
102	CNRL - Derwent 11574	Primary	Operating
103	CNRL - East Fishing Lake	Primary	Operating
104	CNRL - Edward Lake	Primary	Operating
105	CNRL - Elizabeth	Primary	Operating
106	CNRL - Elk Point	Primary	Operating
107	CNRL - Elk Point Project	Primary	Operating
108	CNRL - Fire Tower	Primary	Operating
109	CNRL - Fishing Lake	Primary	Operating
110	CNRL - Frog Lake	Primary	Operating
111	CNRL - Ft. Kent	Primary	Operating
112	CNRL - John Lake	Primary	Operating
113	CNRL - John Lake 11428	Primary	Operating
114	CNRL - Lindbergh North	Primary	Operating
115	CNRL - Lindbergh Primary	Primary	Operating
116	CNRL - Marwayne	Primary	Operating
117	CNRL - Moose Hills	Primary	Operating
118	CNRL - North Murphy Lindbergh	Primary	Operating
119	CNRL - Ranger Cold Lake	Primary	Operating
120	CNRL - Reita Lake 11089	Primary	Operating
121	CNRL - Reita Lake II	Primary	Operating
122	CNRL - Seibert Lake	Primary	Operating
123	CNRL - South Lindbergh	Primary	Operating
124	CNRL - West Marwayne	Primary	Operating
125	Devon - East Tulabi John Lake	Primary	Operating
126	Devon - Iron River	Primary	Operating
127	Devon - Manatokan	Primary	Operating
128	Devon - Manatokan 10310	Primary	Operating
129	Devon - Mann North	Primary	Operating
130	Devon - Tulabi/John Lake	Primary	Operating
131	Harvest Operations - Lindbergh South	Primary	Operating
132	Husky - Lindbergh 10259	Primary	Operating
133	Husky - Lindbergh 10619	Primary	Operating
134	Husky - Lindbergh 10812	Primary	Operating
135	Husky - Lindbergh 11041	Primary	Operating
136	Husky - Lindbergh 11205	Primary	Operating
137	Husky - Lindbergh 9873, 11822, 11541	Primary	Operating
138	Husky - Marwayne 10597	Primary	Operating
139	Husky - Marwayne 11287	Primary	Operating
140	Husky - Marwayne 7990	Primary	Operating
141	Husky - Marwayne 8655	Primary	Operating
142	Husky - Tucker Lake 9835	Primary	Operating
143	Long Run Exploration - Lindbergh 10631	Primary	Operating
144	Solara - Lindbergh 11429	Primary	Operating
145	Twin Butte Energy - Frog Lake	Primary	Operating
146	Twin Butte Energy - Frog Lake 11256	Primary	Operating
147	Twin Butte Energy - Swimming 11191	Primary	Operating
148	CNRL - Burnt Lake	Thermal	Operating
149	CNRL - Elk Point CA	Thermal	Operating
150	CNRL - Lindbergh CA	Thermal	Operating
151	CNRL - Primrose	Thermal	Operating
152	CNRL - Wolf Lake CA	Thermal	Operating
153	Husky - Tucker	Thermal	Operating
154	Imperial Oil - Cold Lake	Thermal	Operating
155	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operating
156	Shell - Orion	Thermal	Operating
157	Husky - Caribou Lake	Thermal	Approved
158	Koch - Gemini	Thermal	Approved
159	OSUM - Taiga	Thermal	Approved
160	Birchwood Resources - Sage Thermal Pilot	Thermal	Application
161	Devon - Walleye	Thermal	Application

Notes:

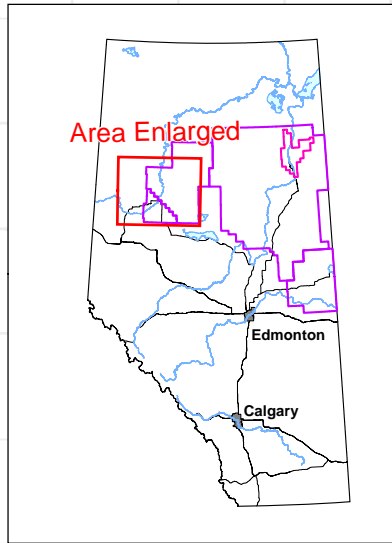
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Experimental - These projects operate on a (non-commercial) pilot scale and use innovative methods to recover bitumen.





Peace River Oil Sands Projects

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SOURCE INFORMATION:

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North American Datum 1983 (NAD83)

Date: July 2013
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Project Status

- Operating (28)
- Construction (1)
- Approved (4)
- Application (1)
- Announced (0)

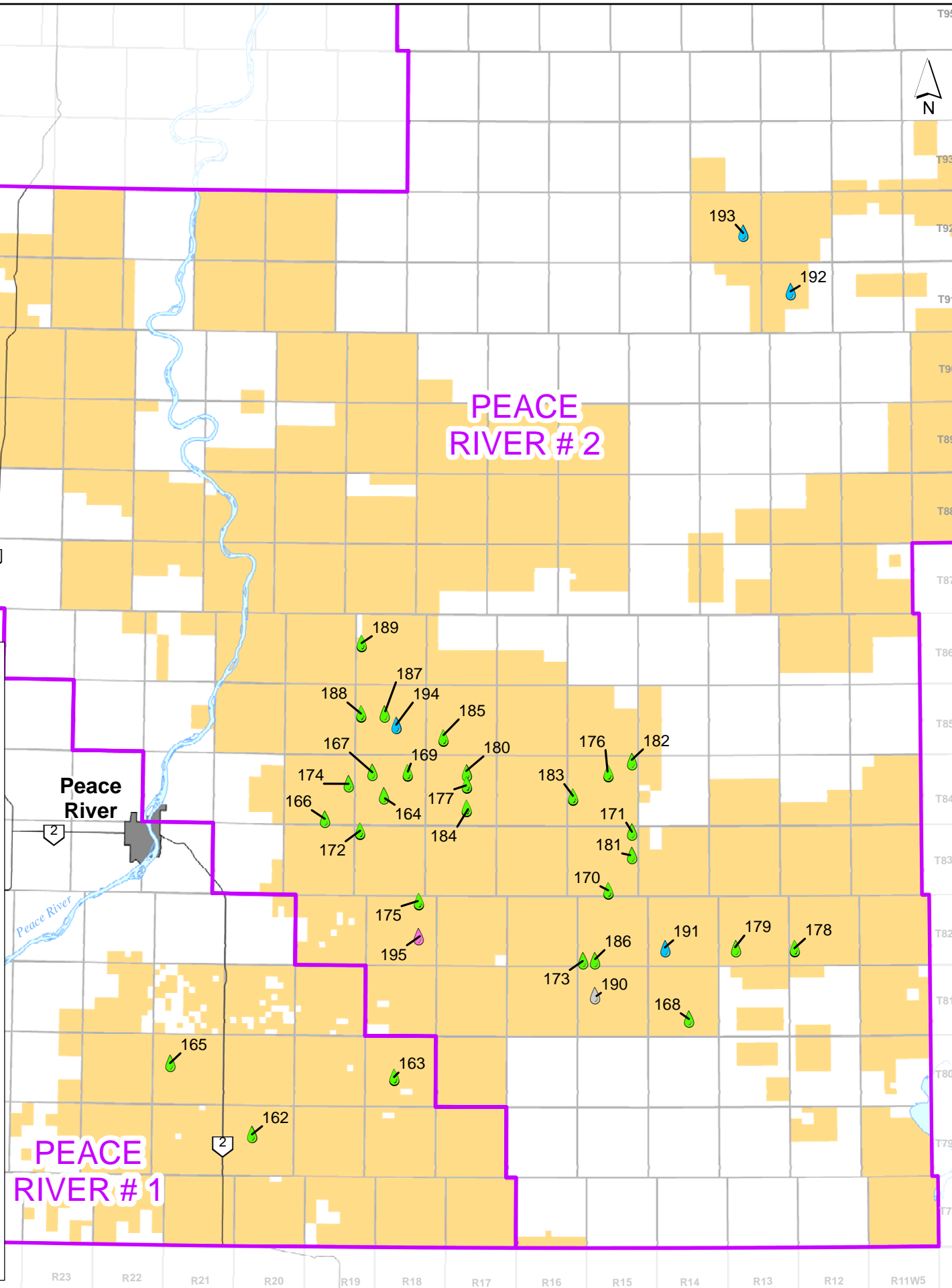
Upgrader Status

- Operating (0)
- Construction (0)
- Approved (0)
- Application (0)

Other Information

- Oil Sands Area
- Industrial Heartland
- Leased Oil Sands Area
- Municipality
- Hydrography
- Major Highway

0 5 10
Kilometers



REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS
Peace River Oil Sands Area			
162	Baytex - Reno	Primary	Operating
163	Baytex - Dawson 11327	Primary	Operating
164	Baytex - Seal Bluesky	Primary	Operating
165	Baytex - Tangent 11437	Primary	Operating
166	Baytex - West Harmon Valley Bluesky	Primary	Operating
167	Husky - Cadotte Heavy Oil	Primary	Operating
168	Koch - Seal South	Primary	Operating
169	Murphy Oil - Cliffdale	Primary	Operating
170	Murphy Oil - Murphy Seal	Primary	Operating
171	Murphy Oil - Peace River	Primary	Operating
172	Penn West Petroleum - Harmon Valley	Primary	Operating
173	Penn West Petroleum - Seal 11099	Primary	Operating
174	Penn West Petroleum - Seal Cadotte	Primary	Operating
175	Penn West Petroleum - Seal Harmon Valley South	Primary	Operating
176	Penn West Petroleum - Seal North	Primary	Operating
177	Shell - Cadotte 10746	Primary	Operating
178	Shell - Chipmunk	Primary	Operating
179	Shell - Chipmunk II	Primary	Operating
180	Shell - Cliffdale	Primary	Operating
181	Shell - Seal I	Primary	Operating
182	Shell - Seal-Northern Cadotte Block	Primary	Operating
183	Shell - Seal-Northern Cadotte Block II	Primary	Operating
184	Baytex - Cliffdale	Thermal	Operating
185	Murphy Oil - Seal Cadotte CSS	Thermal	Operating
186	Penn West Petroleum - Dawson Seal	Thermal	Operating
187	Shell - Peace River	Thermal	Operating
188	Shell - PRC 32 &33	Thermal	Operating
189	Shell - SR 2000	Thermal	Operating
190	Petrobank - Dawson	Thermal	Construction
191	Penn West Petroleum - Seal Main East	Primary	Approved
192	Andora - Sawn Lake	Thermal	Approved
193	Northern Alberta Oil - Sawn Lake	Thermal	Approved
194	Shell - Carmon Creek	Thermal	Approved
195	Baytex - Walrus	Primary	Application

Notes:
Primary/EOR - These projects utilize the natural energy available in the reservoirs (in some cases supplemented by non-thermal EOR processes) to produce bitumen.
Thermal - These projects apply thermal energy (usually steam) in situ to produce bitumen.
Mining - These projects utilize open pit mining methods to remove bituminous ore, which is subsequently processed to recover bitumen.
Experimental - These projects operate on a (non-commercial) pilot scale and use innovative methods to recover bitumen.

