

REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE	REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE
Upgraders - Athabasca							
A	CNRL - Horizon	Upgrader	Operating	96	Suncor - Chard	Thermal	Announced
B	Nexen - Long Lake	Upgrader	Operating	97	Suncor - Lewis	Thermal	Announced
Cold Lake							
C	Suncor - Base and Millennium	Upgrader	Operating	98	Baytex - Mann Lake East	Primary	Operating
D	Syncrude - Mildred Lake	Upgrader	Operating	99	Baytex - Reita Lake I	Primary	Operating
E	Value Creation - Terre de Grace Pilot	Upgrader	Approved	100	Baytex - Reita Lake II	Primary	Operating
F	Vanhoë Energy - Tamarack	Upgrader	Application	101	Black Pearl Resources - John Lake	Primary	Operating
G	Value Creation - Advanced TriStar	Upgrader	Application	102	CNRL - Ashmont	Primary	Operating
H	Value Creation - Tristar Pilot	Upgrader	Application	103	CNRL - Beartrap	Primary	Operating
Upgraders - Heartland							
I	Shell - Scotford	Upgrader	Operating	104	CNRL - Beartrap East	Primary	Operating
J	North West Upgrading - Redwater	Upgrader	Construction	105	CNRL - Derwent 11574	Primary	Operating
K	Value Creation - Heartland	Upgrader	Approved	107	CNRL - Edward Lake	Primary	Operating
Athabasca							
1	Laricina Energy - Saleksi SAGD Pilot	Experimental	Operating	109	CNRL - Elk Point	Primary	Operating
2	Suncor - Dover Demonstration	Experimental	Operating	110	CNRL - Elk Point Project	Primary	Operating
3	CNRL - Horizon	Mining	Operating	111	CNRL - Fire Tower	Primary	Operating
4	Imperial Oil - Kest	Mining	Operating	112	CNRL - Frog Lake	Primary	Operating
5	Shell - Jackpine Mine	Mining	Operating	113	CNRL - Frog Lake	Primary	Operating
6	Shell - Muskeg River Mine	Mining	Operating	114	CNRL - Ft. Kent	Primary	Operating
7	Suncor - Suncor Oil Sands	Mining	Operating	115	CNRL - John Lake	Primary	Operating
8	Syncrude - Syncrude Mine	Mining	Operating	116	CNRL - John Lake 11428	Primary	Operating
9	Cenovus - Pelican Lake III	Primary	Operating	117	CNRL - Lindbergh North	Primary	Operating
10	CNRL - Brintnell	Primary	Operating	118	CNRL - Lindbergh Primary	Primary	Operating
11	CNRL - Cherpeta	Primary	Operating	119	CNRL - Marwayne	Primary	Operating
12	CNRL - Goodiow	Primary	Operating	120	CNRL - Moose Hills	Primary	Operating
13	CNRL - South Brintnell	Primary	Operating	121	CNRL - North Murphy Lindbergh	Primary	Operating
14	CNRL - South Wabasca	Primary	Operating	122	CNRL - Ranger Cold Lake	Primary	Operating
15	CNRL - Woodenhouse	Primary	Operating	123	CNRL - Reita Lake 11089	Primary	Operating
16	CNRL - Wabasca North	Primary	Operating	124	CNRL - Reita Lake II	Primary	Operating
17	Husky - Amadou	Primary	Operating	125	CNRL - Seibert Lake	Primary	Operating
18	Husky - McMullen Primary Heavy Oil	Primary	Operating	126	CNRL - South Lindbergh	Primary	Operating
19	Legacy O&G - Brintnell 9774	Primary	Operating	127	CNRL - West Marwayne	Primary	Operating
20	Athabasca Oil Sands - Hangingstone	Thermal	Operating	128	Devon - East Tulabi John Lake	Primary	Operating
21	Black Pearl Resources - Blackrod SAGD Pilot	Thermal	Operating	129	Devon - Iron River	Primary	Operating
22	Cenovus - Christina Lake Thermal	Thermal	Operating	130	Devon - Manatokan	Primary	Operating
23	Cenovus - Foster Creek	Thermal	Operating	131	Devon - Manatokan 10310	Primary	Operating
24	Cenovus - Pelican Lake Grand Rapids	Thermal	Operating	132	Devon - Mann North	Primary	Operating
25	CNRL - Kirby Commercial Project	Thermal	Operating	133	Devon - Tulabi/John Lake	Primary	Operating
26	Chemtech - Algal	Thermal	Operating	134	Gear Energy - Lindbergh Louis	Primary	Operating
27	Connacher - Great Divide	Thermal	Operating	135	Gear Energy - Pass Sage Elk	Primary	Operating
28	Conoco Phillips - Surmont	Thermal	Operating	136	Gear Energy - Swimming	Primary	Operating
29	Devon - Jackfish 2 SAGD Thermal Project	Thermal	Operating	137	Harvest Operations - Frog Lake Oil Sands Project	Primary	Operating
30	Devon - Jackfish 3 SAGD Project	Thermal	Operating	138	Harvest Operations - Lindbergh South	Primary	Operating
31	Devon - Jackfish SAGD Thermal Project	Thermal	Operating	139	Husky - Lindbergh 10259	Primary	Operating
32	Grizzly Oil Sands - Algal Lake	Thermal	Operating	140	Husky - Lindbergh 10619	Primary	Operating
33	Husky - McMullen Thermal Conduction Pilot	Thermal	Operating	141	Husky - Lindbergh 10812	Primary	Operating
34	Husky - Sunrise Thermal	Thermal	Operating	142	Husky - Lindbergh 11041	Primary	Operating
35	JACOS - Hangingstone	Thermal	Operating	143	Husky - Lindbergh 11205	Primary	Operating
36	MEG Energy - Christina Lake Regional	Thermal	Operating	144	Husky - Lindbergh 9873, 11822, 11541	Primary	Operating
37	MEG Energy - Christina Lake Regional Project Phase 3 SE	Thermal	Operating	145	Husky - Marwayne 10597	Primary	Operating
38	Nexen - Long Lake	Thermal	Operating	146	Husky - Marwayne 11287	Primary	Operating
39	Southern Pacific - STP McKay SAGD	Thermal	Operating	147	Husky - Marwayne 7900	Primary	Operating
40	Statoil - Leismer Demonstration Project	Thermal	Operating	148	Husky - Marwayne 8655	Primary	Operating
41	Suncor - MacKay River	Thermal	Operating	149	Husky - Tucker Lake 9835	Primary	Operating
42	Suncor - Firebag	Thermal	Operating	150	Long Run Exploration - Lindbergh 10631	Primary	Operating
43	N-Solv Corporation - Suncor Dover Lease Pilot	Experimental	Construction	151	Solara - Lindbergh 11429	Primary	Operating
44	Suncor - Fort Hills Oil Sands Project	Mining	Construction	152	Twin Butte Energy - Frog Lake	Primary	Operating
45	Brion Energy - MacKay River	Thermal	Construction	153	Twin Butte Energy - Frog Lake 11256	Primary	Operating
46	Cenovus - Clearwater Thermal Project	Thermal	Construction	154	Twin Butte Energy - Swimming 11191	Primary	Operating
47	Cenovus - Narrows Lake	Thermal	Construction	155	Baytex - Gemini Pilot	Thermal	Operating
48	Harvest Operations - BlackGold	Thermal	Construction	156	CNRL - Burnt Lake	Thermal	Operating
49	JACOS - Hangingstone Expansion Project	Thermal	Construction	157	CNRL - Elk Point CA	Thermal	Operating
50	Statoil - Corner	Thermal	Construction	158	CNRL - Lindbergh CA	Thermal	Operating
51	Sunshine Oilsands - Harper	Thermal	Construction	159	CNRL - Primrose	Thermal	Operating
52	Sunshine Oilsands - West Ellis	Thermal	Construction	160	CNRL - Wolf Lake CA	Thermal	Operating
53	Athabasca Oil Sands - Dover West Carbonates (Leduc)	Experimental	Approved	161	Husky - Tucker	Thermal	Operating
54	Oak Point Energy - Lewis SAGD Pilot	Experimental	Approved	162	Imperial Oil - Cold Lake	Thermal	Operating
55	Reenergy Petroleum - Muskwa Pilot	Experimental	Approved	163	OSUM - Orion	Thermal	Operating
56	BP P.L.C. - Terre de Grace	Thermal	Approved	164	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operating
57	Brion Energy - Dover Commercial Project	Thermal	Approved	165	Rile Resources - Upper Mannville	Primary	Approved
58	Cavalier Energy Inc - Hoole	Thermal	Approved	166	Husky - Caribou Lake	Thermal	Approved
59	Cenovus - Telephone Lake Borealis	Thermal	Approved	167	OSUM - Taiga	Thermal	Approved
60	CNRL - Kirby Expansion (North)	Thermal	Approved	168	Birchwood Resources - Sage Thermal Pilot	Thermal	Application
61	Devon - Pike	Thermal	Approved	169	Devon - Walleye	Thermal	Application
62	Koch - Muskwa	Thermal	Approved	170	Imperial Oil - Midzaghe	Thermal	Announced
63	Suncor - Meadow Creek	Thermal	Approved	Peace River			
64	Sunshine Oilsands - Thickwood	Thermal	Approved	171	Penn West Petroleum - Seal Harmon Valley South Thermal Pilot	Experimental	Operating
65	Value Creation - Tristar Pilot	Thermal	Approved	172	Baytex - Cadotte Heavy Oil	Primary	Operating
66	Husky - Saleksi Carbonate Pilot	Experimental	Application	173	Baytex - Dawson 11327	Primary	Operating
67	Suncor - Voyageur South	Mining	Application	174	Baytex - Harmon Valley Bluesky	Primary	Operating
68	Teck Resources - Frontier	Mining	Application	175	Baytex - Reno	Primary	Operating
69	Athabasca Oil Sands - Dover West Sands & Clastics	Thermal	Application	176	Baytex - Tangent 11437	Primary	Operating
70	Black Pearl Resources - Blackrod Commercial	Thermal	Application	177	Baytex - Walnut	Primary	Operating
71	CNRL - Grouse	Thermal	Application	178	Koch - Seal South	Primary	Operating
72	Grizzly Oil Sands - May River	Thermal	Application	179	Murphy Oil - Cliffdale	Primary	Operating
73	Grizzly Oil Sands - Thickwood	Thermal	Application	180	Murphy Oil - Murphy Seal	Primary	Operating
74	Imperial Oil - Aspen	Thermal	Application	181	Murphy Oil - Peace River	Primary	Operating
75	Vanhoë Energy - Tamarack	Thermal	Application	182	Murphy Oil - Seal I	Primary	Operating
76	Koch - Dunkirk	Thermal	Application	183	Murphy Oil - Seal Cadotte	Primary	Operating
77	Marathon Oil Corporation - Birchwood	Thermal	Application	184	Murphy Oil - Seal-Northern Cadotte Block	Primary	Operating
78	MEG Energy - Surmont	Thermal	Application	185	Murphy Oil - Seal-Northern Cadotte Block II	Primary	Operating
79	OSUM - Sepiko Kesik	Thermal	Application	186	One Earth Oil & Gas - Chipmunk	Primary	Operating
80	Prosper Petroleum Ltd. - Rigol	Thermal	Application	187	One Earth Oil & Gas - Chipmunk II	Primary	Operating
81	PTT Exploration and Production - Mariana-Hangingstone	Thermal	Application	188	Penn West Petroleum - Harmon Valley	Primary	Operating
82	PTT Exploration and Production - Mariana-South Leismer	Thermal	Application	189	Penn West Petroleum - Seal Cadotte	Primary	Operating
83	PTT Exploration and Production - Mariana-Thornbury	Thermal	Application	190	Penn West Petroleum - Seal Harmon Valley South	Primary	Operating
84	SiberWillow Energy - Audet Pilot	Thermal	Application	191	Penn West Petroleum - Seal North	Primary	Operating
85	Sunshine Oilsands - Legend Lake	Thermal	Application	192	Shell - Galloway	Primary	Operating
86	Surmont Energy - Wildwood	Thermal	Application	193	Shell - Cliffdale	Primary	Operating
87	Value Creation - Advanced TriStar	Thermal	Application	194	Androna - Sawm Lake	Thermal	Operating
88	Athabasca Oil Sands - Birch	Thermal	Announced	195	Baytex - Cliffdale	Thermal	Operating
89	Cenovus - East McMurray	Thermal	Announced	196	Baytex - Harmon Valley - Pilot	Thermal	Operating
90	Cenovus - Steepbank	Thermal	Announced	197	Penn West Petroleum - Seal Dawson Seal	Thermal	Operating
91	Cenovus - West Kirby	Thermal	Announced	198	Shell - Carmon Creek	Thermal	Operating
92	Cenovus - Winedred Lake	Thermal	Announced	199	Shell - Peace River	Thermal	Operating
93	CNRL - Birch Mountain	Thermal	Announced	200	Touchstone Exploration - Dawson	Thermal	Operating
94	CNRL - Gregoire Lake	Thermal	Announced	201	Penn West Petroleum - Seal Main East	Primary	Approved
95	Devon - Jackfish East	Thermal	Announced	202	Northern Alberta Oil - Sawm Lake	Thermal	Approved

Alberta's Oil Sands Projects and Upgraders

DISCLAIMER:
This map excludes active projects with production of less than 1,000 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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PROJECT STATUS DEFINITION:
 Operating: Producing Bitumen &/or Oil Sands Product as of last period.
 Construction: On-site construction has commenced.
 Approved: Regulatory approvals required to operate have been received.
 Application: Application is being reviewed by the AER and/or ESRD.
 Announced: Operator has disclosed intent to construct project.

SOURCE INFORMATION:
 Projects & Upgraders Information:
 - Oil Sands Administration & Strategic Information System, Alberta Energy
 - Integrated Application Registry, Alberta Energy Regulator
 - Alberta Oil Sands Industry - Quarterly Update (Summer 2015)
 - Oilsands Review Database - <http://navigator.oilsandsreview.com/listing>
 - CanOils - <http://www.can oils.com/>

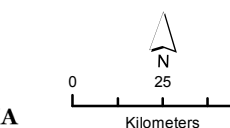
Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)
Leased Oil Sands Area: Alberta Energy (Sept 2015)
Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER)
Urban Development Sub-Region (UDSR): Alberta Environment & Parks
Base Map Data: Provided by the Government of Alberta under the Alberta Open Government Licence.

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

Date: September 2015
 Author: Oil Sands Operations, Alberta Energy (MD)
 Produced by: Resource Mapping & Analysis, Alberta Energy (JS)

- Project Status**
- Operating (139)
 - Construction (10)
 - Approved (18)
 - Application (24)
 - Announced (11)
- Upgrader Status**
- Operating (5)
 - Construction (1)
 - Approved (2)
 - Application (3)
- Other Information**
- Oil Sands Area
 - Surface Mineable Area
 - Industrial Heartland
 - Leased Oil Sands Area
 - Municipality
 - Urban Development Sub-Region
 - Hydrography
 - Major Highway



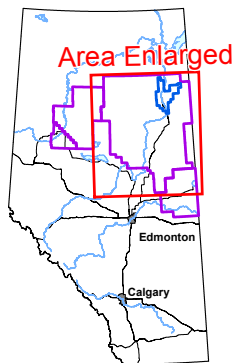
Notes:
Primary/EOR - These projects utilize the natural energy available in the reservoirs (in some cases supplemented by non-thermal EOR processes) to produce bitumen.
Thermal - These projects apply thermal energy (usually steam) in situ to produce bitumen.
Mining - These projects utilize open pit mining 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.



Alberta's Oil Sands Projects and Upgraders

-- Athabasca --

- Project Status**
- Operating (42)
 - Construction (10)
 - Approved (13)
 - Application (22)
 - Announced (10)
- Other Information**
- Oil Sands
 - Surface Mineable
 - Leased Oil Sands
 - Municipality
 - Urban Development Sub-Region
 - Hydrography
 - Major Highway
- Upgrader Status**
- Operating (4)
 - Construction (0)
 - Approved (1)
 - Application (3)



DISCLAIMER:
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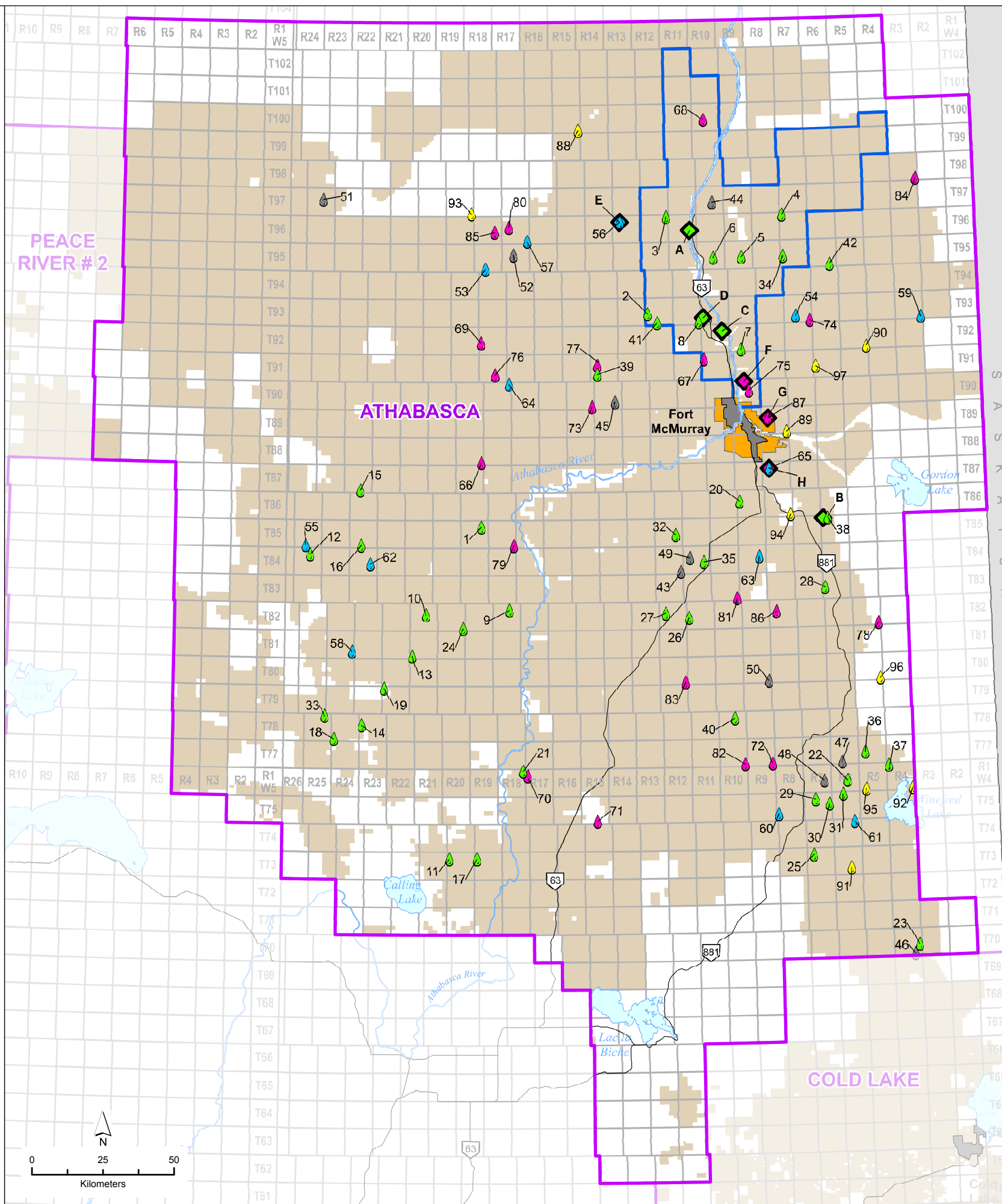
PROJECT STATUS DEFINITION:
Operating: Producing Bitumen &/or Oil Sands Product as of last period.
Construction: On-site construction has commenced.
Approved: Regulatory approvals required to operate have been received.
Application: Application is being reviewed by the AER and/or ESRD.
Announced: Operator 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 (Summer 2015)
 - Oilsands Review & CanOils
Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)
Leased Oil Sands Area: Alberta Energy (Sept 2015)
Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER)
Urban Development Sub-Region (UDSR): Alberta Environment & Parks
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Transverse Mercator Projection (10TM)
North American Datum 1983 (NAD83)

Date: September 2015
 Author: Oil Sands Operations, Alberta Energy (MD)
 Produced by: Resource Mapping & Analysis, Alberta Energy (JS)



REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE
Upgraders - Athabasca			
A	CNRL - Horizon	Upgrader	Operating
B	Nexen - Long Lake	Upgrader	Operating
C	Suncor - Base and Millennium	Upgrader	Operating
D	Synchrude - Mildred Lake	Upgrader	Operating
E	Value Creation - Terre de Grace Pilot	Upgrader	Approved
F	Ivanhoe Energy - Tamarack	Upgrader	Application
G	Value Creation - Advanced TriStar	Upgrader	Application
H	Value Creation - Tristar Pilot	Upgrader	Application
Athabasca			
1	Laricina Energy - Saleski SAGD Pilot	Experimental	Operating
2	Suncor - Dover Demonstration	Experimental	Operating
3	CNRL - Horizon	Mining	Operating
4	Imperial Oil - Keart	Mining	Operating
5	Shell - Jackpine Mine	Mining	Operating
6	Shell - Muskeg River Mine	Mining	Operating
7	Suncor - Suncor Oil Sands	Mining	Operating
8	Synchrude - Synchrude Mine	Mining	Operating
9	Cenovus - Pelican Lake III	Primary	Operating
10	CNRL - Brintnell	Primary	Operating
11	CNRL - Cherpeta	Primary	Operating
12	CNRL - Goodlow	Primary	Operating
13	CNRL - South Brintnell	Primary	Operating
14	CNRL - South Wabasca	Primary	Operating
15	CNRL - Woodenhouse	Primary	Operating
16	CNRL - Wabasca North	Primary	Operating
17	Husky - Amadou	Primary	Operating
18	Husky - McMullen Primary Heavy Oil	Primary	Operating
19	Legacy O&G - Brintnell 974	Primary	Operating
20	Athabasca Oil Sands - Hangingstone	Thermal	Operating
21	Black Pearl Resources - Blackrod SAGD Pilot	Thermal	Operating
22	Cenovus - Christina Lake Thermal	Thermal	Operating
23	Cenovus - Foster Creek	Thermal	Operating
24	Cenovus - Pelican Lake Grand Rapids	Thermal	Operating
25	CNRL - Kirby Commercial Project	Thermal	Operating
26	Connacher - Algar	Thermal	Operating
27	Connacher - Great Divide	Thermal	Operating
28	Conoco Phillips - Summit	Thermal	Operating
29	Devon - Jackfish 2 SAGD Thermal Project	Thermal	Operating
30	Devon - Jackfish 3 SAGD Project	Thermal	Operating
31	Devon - Jackfish SAGD Thermal Project	Thermal	Operating
32	Grizzly Oil Sands - Algar Lake	Thermal	Operating
33	Husky - McMullen Thermal Conduction Pilot	Thermal	Operating
34	Husky - Sunrise Thermal	Thermal	Operating
35	JACOS - Hangingstone	Thermal	Operating
36	MEG Energy - Christina Lake Regional	Thermal	Operating
37	MEG Energy - Christina Lake Regional Project Phase 3 SE	Thermal	Operating
38	Nexen - Long Lake	Thermal	Operating
39	Southern Pacific - STP McKay SAGD	Thermal	Operating
40	Statoil - Leismer Demonstration Project	Thermal	Operating
41	Suncor - MacKay River	Thermal	Operating
42	Suncor - Firebag	Thermal	Operating
43	N-Solv Corporation - Suncor Dover Lease Pilot	Experimental	Construction
44	Suncor - Fort Hills Oil Sands Project	Mining	Construction
45	Brion Energy - MacKay River	Thermal	Construction
46	Cenovus - Clearwater Thermal Project	Thermal	Construction
47	Cenovus - Narrows Lake	Thermal	Construction
48	Harvest Operations - BlackGold	Thermal	Construction
49	JACOS - Hangingstone Expansion Project	Thermal	Construction
50	Statoil - Corner	Thermal	Construction
51	Sunshine Oilsands - Harper	Thermal	Construction
52	Sunshine Oilsands - West Ellis	Thermal	Construction
53	Athabasca Oil Sands - Dover West Carbonates (Leduc)	Experimental	Approved
54	Oak Point Energy - Lewis SAGD Pilot	Experimental	Approved
55	Reenergy Petroleum - Muskwa Pilot	Experimental	Approved
56	BP P.L.C. - Terre de Grace	Thermal	Approved
57	Brion Energy - Dover Commercial Project	Thermal	Approved
58	Cavalier Energy Inc - Hoole	Thermal	Approved
59	Cenovus - Telephone Lake Borealis	Thermal	Approved
60	CNRL - Kirby Expansion (North)	Thermal	Approved
61	Devon - Pike	Thermal	Approved
62	Koch - Muskwa	Thermal	Approved
63	Suncor - Meadow Creek	Thermal	Approved
64	Sunshine Oilsands - Thickwood	Thermal	Approved
65	Value Creation - Tristar Pilot	Thermal	Approved
66	Husky - Saleski Carbonate Pilot	Experimental	Application
67	Suncor - Voyageur South	Mining	Application
68	Teck Resources - Frontier	Mining	Application
69	Athabasca Oil Sands - Dover West Sands & Clastics	Thermal	Application
70	Black Pearl Resources - Blackrod Commercial	Thermal	Application
71	CNRL - Grouse	Thermal	Application
72	Grizzly Oil Sands - May River	Thermal	Application
73	Grizzly Oil Sands - Thickwood	Thermal	Application
74	Imperial Oil - Aspen	Thermal	Application
75	Ivanhoe Energy - Tamarack	Thermal	Application
76	Koch - Dunkirk	Thermal	Application
77	Marathon Oil Corporation - Birchwood	Thermal	Application
78	MEG Energy - Summit	Thermal	Application
79	OSUM - Sepiko Kesik	Thermal	Application
80	Prosper Petroleum Ltd. - Rigel	Thermal	Application
81	PTT Exploration and Production - Mariana-Hangingstone	Thermal	Application
82	PTT Exploration and Production - Mariana-South Leismer	Thermal	Application
83	PTT Exploration and Production - Mariana-Thornbury	Thermal	Application
84	SilverWillow Energy - Audet Pilot	Thermal	Application
85	Sunshine Oilsands - Legend Lake	Thermal	Application
86	Summont Energy - Wildwood	Thermal	Application
87	Value Creation - Advanced TriStar	Thermal	Application
88	Athabasca Oil Sands - Birch	Thermal	Announced
89	Cenovus - East McMurray	Thermal	Announced
90	Cenovus - Steepbank	Thermal	Announced
91	Cenovus - West Kirby	Thermal	Announced
92	Cenovus - Winefred Lake	Thermal	Announced
93	CNRL - Birch Mountain	Thermal	Announced
94	CNRL - Gregoire Lake	Thermal	Announced
95	Devon - Jackfish East	Thermal	Announced
96	Suncor - Chard	Thermal	Announced
97	Suncor - Lewis	Thermal	Announced

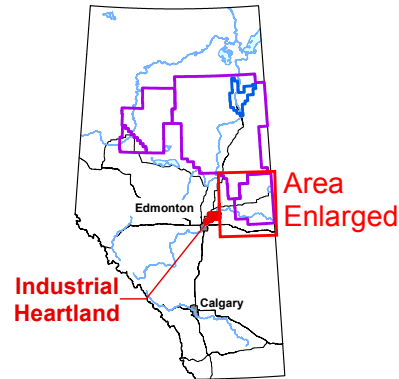
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Mining - These projects utilize open pit mining methods to remove bituminous ore, which is subsequently processed to recover bitumen.
Experimental - These projects operate on a (non-commercial) pilot scale and use innovative methods to recover bitumen.



Alberta's Oil Sands Projects and Upgraders

-- Cold Lake / Industrial Heartland --

- Project Status**
- Operating (67)
 - Construction (0)
 - Approved (3)
 - Application (2)
 - Announced (1)
- Other Information**
- Oil Sands Area
 - Industrial Heartland
 - Leased Oil Sands
 - Municipality
 - Hydrography
 - Major Highway
- Upgrader Status**
- Operating (1)
 - Construction (1)
 - Approved (1)
 - Application (0)



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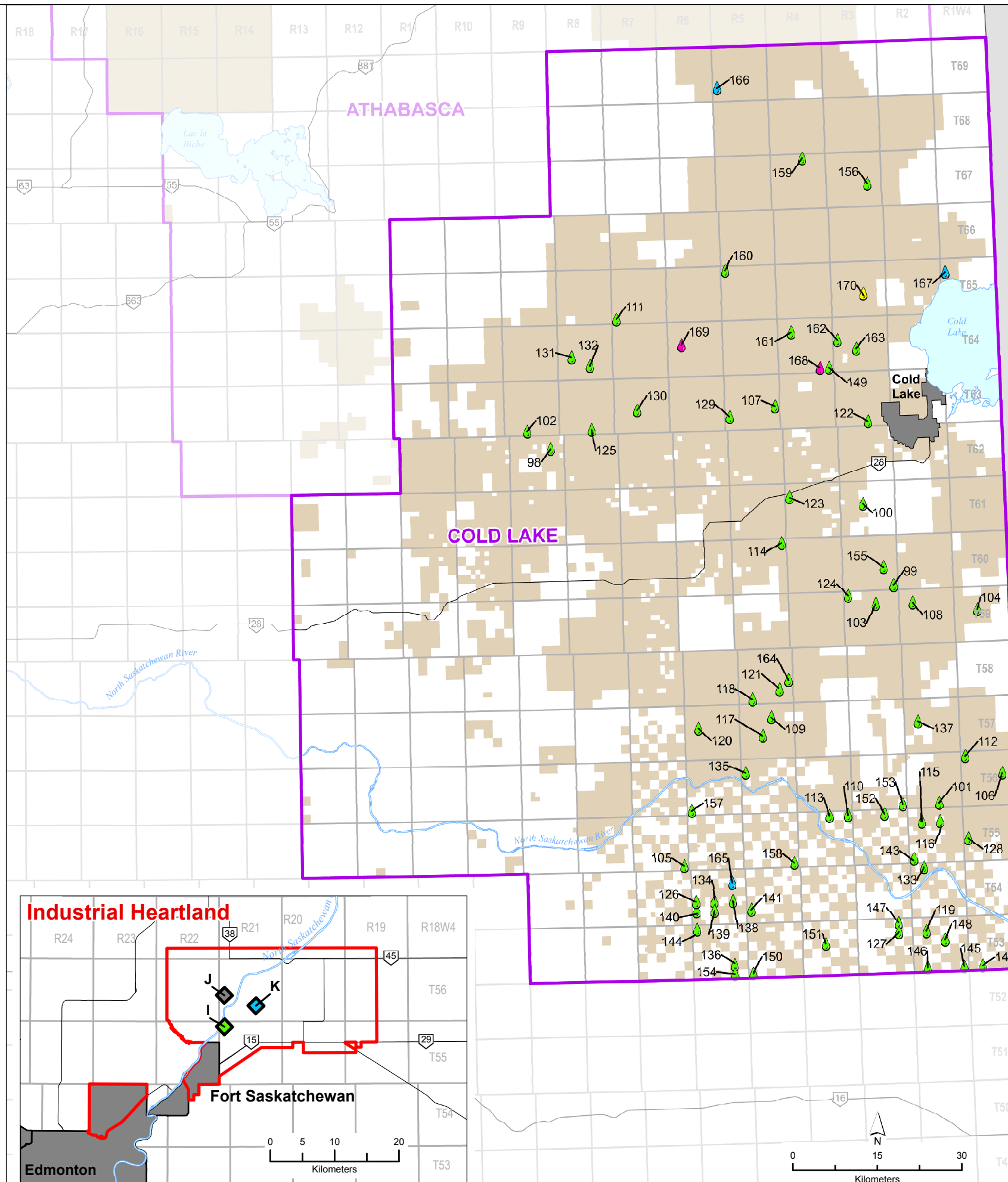
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 Projects & Upgraders Information:
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 - Alberta Energy Regulator - Integrated Application Registry
 - Alberta Oil Sands Industry - Quarterly Update (Summer 2015)
 - Oilsands Review & CanOils
 Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)
 Leased Oil Sands Area: Alberta Energy (Sept 2015)
 Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER)
 Urban Development Sub-Region (UDSR): Alberta Environment & Parks
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Transverse Mercator Projection (10TM)
 North American Datum 1983 (NAD83)
 Date: September 2015
 Author: Oil Sands Operations, Alberta Energy (MD)
 Produced by: Resource Mapping & Analysis, Alberta Energy (JS)



REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE
Upgraders - Heartland			
I	Shell - Scotford	Upgrader	Operating
J	North West Upgrading - Redwater	Upgrader	Construction
K	Value Creation - Heartland	Upgrader	Approved
Cold Lake			
98	Baytex - Mann Lake East	Primary	Operating
99	Baytex - Reita Lake I	Primary	Operating
100	Baytex - Reita Lake III	Primary	Operating
101	Black Pearl Resources - John Lake	Primary	Operating
102	CNRL - Ashmont	Primary	Operating
103	CNRL - Beartrap	Primary	Operating
104	CNRL - Beartrap East	Primary	Operating
105	CNRL - Derwent 11574	Primary	Operating
106	CNRL - East Fishing Lake	Primary	Operating
107	CNRL - Edward Lake	Primary	Operating
108	CNRL - Elizabeth	Primary	Operating
109	CNRL - Elk Point	Primary	Operating
110	CNRL - Elk Point Project	Primary	Operating
111	CNRL - Fire Tower	Primary	Operating
112	CNRL - Fishing Lake	Primary	Operating
113	CNRL - Frog Lake	Primary	Operating
114	CNRL - Ft. Kent	Primary	Operating
115	CNRL - John Lake	Primary	Operating
116	CNRL - John Lake 11428	Primary	Operating
117	CNRL - Lindbergh North	Primary	Operating
118	CNRL - Lindbergh Primary	Primary	Operating
119	CNRL - Marwayne	Primary	Operating
120	CNRL - Moose Hills	Primary	Operating
121	CNRL - North Murphy Lindbergh	Primary	Operating
122	CNRL - Ranger Cold Lake	Primary	Operating
123	CNRL - Reita Lake 11089	Primary	Operating
124	CNRL - Reita Lake II	Primary	Operating
125	CNRL - Seibert Lake	Primary	Operating
126	CNRL - South Lindbergh	Primary	Operating
127	CNRL - West Marwayne	Primary	Operating
128	Devon - East Tulabi John Lake	Primary	Operating
129	Devon - Iron River	Primary	Operating
130	Devon - Manatokan	Primary	Operating
131	Devon - Manatokan 10310	Primary	Operating
132	Devon - Mann North	Primary	Operating
133	Devon - Tulabi/John Lake	Primary	Operating
134	Gear Energy - Lindbergh Louis	Primary	Operating
135	Gear Energy - Passage Elk	Primary	Operating
136	Gear Energy - Swimming	Primary	Operating
137	Harvest Operations - Frog Lake Oil Sands Project	Primary	Operating
138	Harvest Operations - Lindbergh South	Primary	Operating
139	Husky - Lindbergh 10259	Primary	Operating
140	Husky - Lindbergh 10619	Primary	Operating
141	Husky - Lindbergh 10812	Primary	Operating
142	Husky - Lindbergh 11041	Primary	Operating
143	Husky - Lindbergh 11205	Primary	Operating
144	Husky - Lindbergh 9873, 11822, 11541	Primary	Operating
145	Husky - Marwayne 10597	Primary	Operating
146	Husky - Marwayne 11287	Primary	Operating
147	Husky - Marwayne 7990	Primary	Operating
148	Husky - Marwayne 8655	Primary	Operating
149	Husky - Tucker Lake 9835	Primary	Operating
150	Long Run Exploration - Lindbergh 10631	Primary	Operating
151	Solara - Lindbergh 11429	Primary	Operating
152	Twin Butte Energy - Frog Lake	Primary	Operating
153	Twin Butte Energy - Frog Lake 11256	Primary	Operating
154	Twin Butte Energy - Swimming 11191	Primary	Operating
155	Baytex - Gemini Pilot	Thermal	Operating
156	CNRL - Burnt Lake	Thermal	Operating
157	CNRL - Elk Point CA	Thermal	Operating
158	CNRL - Lindbergh CA	Thermal	Operating
159	CNRL - Primrose	Thermal	Operating
160	CNRL - Wolf Lake CA	Thermal	Operating
161	Husky - Tucker	Thermal	Operating
162	Imperial Oil - Cold Lake	Thermal	Operating
163	OSUM - Orion	Thermal	Operating
164	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operating
165	Rife Resources - Upper Mannville	Primary	Approved
166	Husky - Caribou Lake	Thermal	Approved
167	OSUM - Taiga	Thermal	Approved
168	Birchwood Resources - Sage Thermal Pilot	Thermal	Application
169	Devon - Walleys	Thermal	Application
170	Imperial Oil - Midzaghe	Thermal	Announced

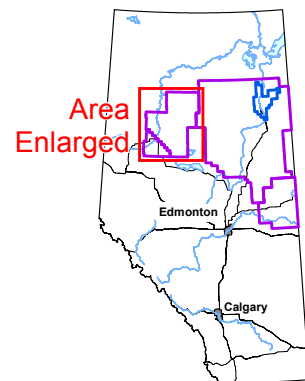
Notes:
Primary/EOR - These projects utilize the natural energy available in the reservoirs (in some cases supplemented by non-thermal EOR processes) to produce bitumen.
Thermal - These projects apply thermal energy (usually steam) in situ to produce bitumen.
Mining - These projects utilize open pit mining 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.



Alberta's Oil Sands Projects and Upgraders

-- Peace River --

- Project Status**
- Operating (30)
 - Construction (0)
 - Approved (2)
 - Application (0)
 - Announced (0)
- Other Information**
- Oil Sands Area
 - Leased Oil Sands Area
 - Municipality
 - ~ Hydrography
 - Major Highway
- Upgrader Status**
- ◆ Operating (0)
 - ◆ Construction (0)
 - ◆ Approved (0)
 - ◆ Application (0)



DISCLAIMER:
This map excludes active projects with production of less than 1,000 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.

The data represented was obtained from the source information listed and internal records as well as public announcements made at the time of publication and are subject to change; therefore the Government of Alberta assumes no responsibility for discrepancies at time of use.

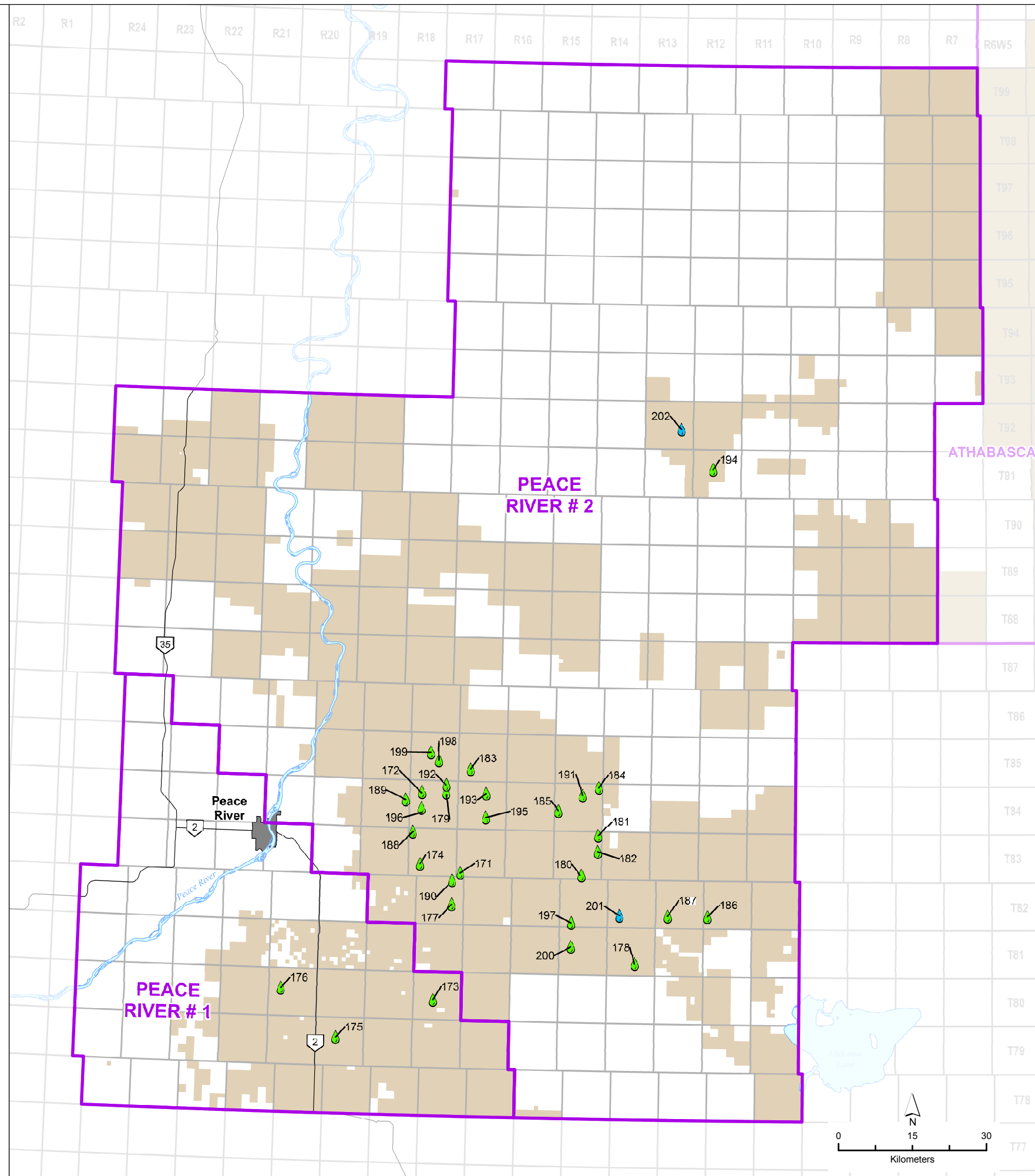
PROJECT STATUS DEFINITION:
Operating: Producing Bitumen &/or Oil Sands Product as of last period.
Construction: On-site construction has commenced.
Approved: Regulatory approvals required to operate have been received.
Application: Application is being reviewed by the AER and/or ESRD.
Announced: Operator 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 (Summer 2015)
 - Oilsands Review & CanOils
 Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)
 Leased Oil Sands Area: Alberta Energy (Sept 2015)
 Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER)
 Urban Development Sub-Region (UDSR): Alberta Environment & Parks
 Base Map Data Provided by the Government of Alberta under the Alberta Open Government Licence.

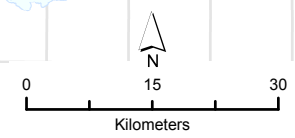
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Transverse Mercator Projection (10TM)
 North American Datum 1983 (NAD83)

Date: September 2015
 Author: Oil Sands Operations, Alberta Energy (MD)
 Produced by: Resource Mapping & Analysis, Alberta Energy (JS)



REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE
Peace River			
171	Penn West Petroleum - Seal Harmon Valley South Thermal Pilot	Experimental	Operating
172	Baytex - Cadotte Heavy Oil	Primary	Operating
173	Baytex - Dawson 11327	Primary	Operating
174	Baytex - Harmon Valley Bluesky	Primary	Operating
175	Baytex - Reno	Primary	Operating
176	Baytex - Tangent 11437	Primary	Operating
177	Baytex - Walrus	Primary	Operating
178	Koch - Seal South	Primary	Operating
179	Murphy Oil - Cliffdale	Primary	Operating
180	Murphy Oil - Murphy Seal	Primary	Operating
181	Murphy Oil - Peace River	Primary	Operating
182	Murphy Oil - Seal I	Primary	Operating
183	Murphy Oil - Seal Cadotte	Primary	Operating
184	Murphy Oil - Seal-Northern Cadotte Block	Primary	Operating
185	Murphy Oil - Seal-Northern Cadotte Block II	Primary	Operating
186	One Earth Oil & Gas - Chipmunk	Primary	Operating
187	One Earth Oil & Gas - Chipmunk II	Primary	Operating
188	Penn West Petroleum - Harmon Valley	Primary	Operating
189	Penn West Petroleum - Seal Cadotte	Primary	Operating
190	Penn West Petroleum - Seal Harmon Valley South	Primary	Operating
191	Penn West Petroleum - Seal North	Primary	Operating
192	Shell - Galloway	Primary	Operating
193	Shell - Cliffdale	Primary	Operating
194	Andora - Sawn Lake	Thermal	Operating
195	Baytex - Cliffdale	Thermal	Operating
196	Baytex - Harmon Valley - Pilot	Thermal	Operating
197	Penn West Petroleum - Dawson Seal	Thermal	Operating
198	Shell - Camon Creek	Thermal	Operating
199	Shell - Peace River	Thermal	Operating
200	Touchstone Exploration - Dawson	Thermal	Operating
201	Penn West Petroleum - Seal Main East	Primary	Approved
202	Northern Alberta Oil - Sawn Lake	Thermal	Approved



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