

REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE	REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE
Upgrader - Athabasca							
97	Koch - Dunkirk	Thermal	Announced	97	Koch - Dunkirk	Thermal	Announced
98	Suncor - Chard	Thermal	Announced	98	Suncor - Chard	Thermal	Announced
99	Suncor - Lewis	Thermal	Announced	99	Suncor - Lewis	Thermal	Announced
Cold Lake							
100	Baytex Energy - Mann Lake East	Primary	Operating	100	Baytex Energy - Mann Lake East	Primary	Operating
101	Baytex Energy - Reita Lake I	Primary	Operating	101	Baytex Energy - Reita Lake I	Primary	Operating
102	Baytex Energy - Reita Lake III	Primary	Operating	102	Baytex Energy - Reita Lake III	Primary	Operating
103	Black Pearl Resources - John Lake	Primary	Operating	103	Black Pearl Resources - John Lake	Primary	Operating
104	CNRL - Ashmont	Primary	Operating	104	CNRL - Ashmont	Primary	Operating
105	CNRL - Beartrap	Primary	Operating	105	CNRL - Beartrap	Primary	Operating
Upgrader - Heartland							
106	CNRL - Beartrap East	Primary	Operating	106	CNRL - Beartrap East	Primary	Operating
107	CNRL - Derwent 11574	Primary	Operating	107	CNRL - Derwent 11574	Primary	Operating
108	CNRL - East Fishing Lake	Primary	Operating	108	CNRL - East Fishing Lake	Primary	Operating
109	CNRL - Edward Lake	Primary	Operating	109	CNRL - Edward Lake	Primary	Operating
Athabasca							
110	CNRL - Elizabeth	Primary	Operating	110	CNRL - Elizabeth	Primary	Operating
111	CNRL - Elk Point	Primary	Operating	111	CNRL - Elk Point	Primary	Operating
112	CNRL - Elk Point Project	Primary	Operating	112	CNRL - Elk Point Project	Primary	Operating
113	CNRL - Fire Tower	Primary	Operating	113	CNRL - Fire Tower	Primary	Operating
114	CNRL - Fishing Lake	Primary	Operating	114	CNRL - Fishing Lake	Primary	Operating
115	CNRL - Frog Lake	Primary	Operating	115	CNRL - Frog Lake	Primary	Operating
116	CNRL - Ft. Kent	Primary	Operating	116	CNRL - Ft. Kent	Primary	Operating
117	CNRL - John Lake	Primary	Operating	117	CNRL - John Lake	Primary	Operating
118	CNRL - John Lake 11428	Primary	Operating	118	CNRL - John Lake 11428	Primary	Operating
119	CNRL - Lindbergh North	Primary	Operating	119	CNRL - Lindbergh North	Primary	Operating
120	CNRL - Lindbergh Primary	Primary	Operating	120	CNRL - Lindbergh Primary	Primary	Operating
121	CNRL - Marwayne	Primary	Operating	121	CNRL - Marwayne	Primary	Operating
122	CNRL - Moose Hills	Primary	Operating	122	CNRL - Moose Hills	Primary	Operating
123	CNRL - North Murphy Lindbergh	Primary	Operating	123	CNRL - North Murphy Lindbergh	Primary	Operating
124	CNRL - Ranger Cold Lake	Primary	Operating	124	CNRL - Ranger Cold Lake	Primary	Operating
125	CNRL - Reita Lake 11089	Primary	Operating	125	CNRL - Reita Lake 11089	Primary	Operating
126	CNRL - Reita Lake II	Primary	Operating	126	CNRL - Reita Lake II	Primary	Operating
127	CNRL - Seibert Lake	Primary	Operating	127	CNRL - Seibert Lake	Primary	Operating
128	CNRL - South Lindbergh	Primary	Operating	128	CNRL - South Lindbergh	Primary	Operating
129	CNRL - West Marwayne	Primary	Operating	129	CNRL - West Marwayne	Primary	Operating
130	Devon - East Tulabi John Lake	Primary	Operating	130	Devon - East Tulabi John Lake	Primary	Operating
131	Devon - Iron River	Primary	Operating	131	Devon - Iron River	Primary	Operating
132	Devon - Manatokan	Primary	Operating	132	Devon - Manatokan	Primary	Operating
133	Devon - Manatokan 10310	Primary	Operating	133	Devon - Manatokan 10310	Primary	Operating
134	Devon - Mann North	Primary	Operating	134	Devon - Mann North	Primary	Operating
135	Devon - Tulabi/John Lake	Primary	Operating	135	Devon - Tulabi/John Lake	Primary	Operating
136	Gear Energy - Lindbergh Louis	Primary	Operating	136	Gear Energy - Lindbergh Louis	Primary	Operating
137	Gear Energy - Passage Elk	Primary	Operating	137	Gear Energy - Passage Elk	Primary	Operating
138	Gear Energy - Swimming	Primary	Operating	138	Gear Energy - Swimming	Primary	Operating
139	Harvest Operations - Frog Lake Oil Sands Project	Primary	Operating	139	Harvest Operations - Frog Lake Oil Sands Project	Primary	Operating
140	Harvest Operations - Lindbergh South	Primary	Operating	140	Harvest Operations - Lindbergh South	Primary	Operating
141	Husky - Lindbergh 10259	Primary	Operating	141	Husky - Lindbergh 10259	Primary	Operating
142	Husky - Lindbergh 10619	Primary	Operating	142	Husky - Lindbergh 10619	Primary	Operating
143	Husky - Lindbergh 10812	Primary	Operating	143	Husky - Lindbergh 10812	Primary	Operating
144	Husky - Lindbergh 11041	Primary	Operating	144	Husky - Lindbergh 11041	Primary	Operating
145	Husky - Lindbergh 11205	Primary	Operating	145	Husky - Lindbergh 11205	Primary	Operating
146	Husky - Lindbergh 9873, 11822, 11541	Primary	Operating	146	Husky - Lindbergh 9873, 11822, 11541	Primary	Operating
147	Husky - Marwayne 10597	Primary	Operating	147	Husky - Marwayne 10597	Primary	Operating
148	Husky - Marwayne 11287	Primary	Operating	148	Husky - Marwayne 11287	Primary	Operating
149	Husky - Marwayne 7990	Primary	Operating	149	Husky - Marwayne 7990	Primary	Operating
150	Husky - Marwayne 8655	Primary	Operating	150	Husky - Marwayne 8655	Primary	Operating
151	Husky - Tucker Lake 9835	Primary	Operating	151	Husky - Tucker Lake 9835	Primary	Operating
152	Long Run Exploration - Lindbergh 10631	Primary	Operating	152	Long Run Exploration - Lindbergh 10631	Primary	Operating
153	Solara - Lindbergh 11429	Primary	Operating	153	Solara - Lindbergh 11429	Primary	Operating
154	Twin Butte Energy - Frog Lake	Primary	Operating	154	Twin Butte Energy - Frog Lake	Primary	Operating
155	Twin Butte Energy - Frog Lake 11256	Primary	Operating	155	Twin Butte Energy - Frog Lake 11256	Primary	Operating
156	Twin Butte Energy - Swimming 11191	Primary	Operating	156	Twin Butte Energy - Swimming 11191	Primary	Operating
157	Baytex Energy - Gemini Pilot	Thermal	Operating	157	Baytex Energy - Gemini Pilot	Thermal	Operating
158	CNRL - Burnt Lake	Thermal	Operating	158	CNRL - Burnt Lake	Thermal	Operating
159	CNRL - Elk Point CA	Thermal	Operating	159	CNRL - Elk Point CA	Thermal	Operating
160	CNRL - Lindbergh CA	Thermal	Operating	160	CNRL - Lindbergh CA	Thermal	Operating
161	CNRL - Primrose	Thermal	Operating	161	CNRL - Primrose	Thermal	Operating
162	CNRL - Wolf Lake CA	Thermal	Operating	162	CNRL - Wolf Lake CA	Thermal	Operating
163	Husky - Tucker	Thermal	Operating	163	Husky - Tucker	Thermal	Operating
164	Imperial Oil - Cold Lake	Thermal	Operating	164	Imperial Oil - Cold Lake	Thermal	Operating
165	OSUM - Orion	Thermal	Operating	165	OSUM - Orion	Thermal	Operating
166	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operating	166	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operating
167	Rife Resources - Upper Mannville	Primary	Approved	167	Rife Resources - Upper Mannville	Primary	Approved
168	Husky - Caribou Lake	Thermal	Approved	168	Husky - Caribou Lake	Thermal	Approved
169	OSUM - Taija	Thermal	Approved	169	OSUM - Taija	Thermal	Approved
170	Birchwood Resources - Sage Thermal Pilot	Thermal	Application	170	Birchwood Resources - Sage Thermal Pilot	Thermal	Application
171	Devon - Walleye	Thermal	Application	171	Devon - Walleye	Thermal	Application
Peace River							
172	Penn West Petroleum - Seal Harmon Valley South Thermal Pilot	Experimental	Operating	172	Penn West Petroleum - Seal Harmon Valley South Thermal Pilot	Experimental	Operating
173	Baytex Energy - Cadotte Heavy Oil	Primary	Operating	173	Baytex Energy - Cadotte Heavy Oil	Primary	Operating
174	Baytex Energy - Dawson 11327	Primary	Operating	174	Baytex Energy - Dawson 11327	Primary	Operating
175	Baytex Energy - Harmon Valley Bluesky	Primary	Operating	175	Baytex Energy - Harmon Valley Bluesky	Primary	Operating
176	Baytex Energy - Reno	Primary	Operating	176	Baytex Energy - Reno	Primary	Operating
177	Baytex Energy - Tangent 11437	Primary	Operating	177	Baytex Energy - Tangent 11437	Primary	Operating
178	Koch - Seal South	Primary	Operating	178	Koch - Seal South	Primary	Operating
179	Murphy Oil - Chipmunk	Primary	Operating	179	Murphy Oil - Chipmunk	Primary	Operating
180	Murphy Oil - Chipmunk II	Primary	Operating	180	Murphy Oil - Chipmunk II	Primary	Operating
181	Murphy Oil - Cliffdale	Primary	Operating	181	Murphy Oil - Cliffdale	Primary	Operating
182	Murphy Oil - Murphy Seal	Primary	Operating	182	Murphy Oil - Murphy Seal	Primary	Operating
183	Murphy Oil - Peace River	Primary	Operating	183	Murphy Oil - Peace River	Primary	Operating
184	Murphy Oil - Seal Cadotte	Primary	Operating	184	Murphy Oil - Seal Cadotte	Primary	Operating
185	Murphy Oil - Seal I	Primary	Operating	185	Murphy Oil - Seal I	Primary	Operating
186	Murphy Oil - Seal-Northern Cadotte Block	Primary	Operating	186	Murphy Oil - Seal-Northern Cadotte Block	Primary	Operating
187	Murphy Oil - Seal-Northern Cadotte Block II	Primary	Operating	187	Murphy Oil - Seal-Northern Cadotte Block II	Primary	Operating
188	Penn West Petroleum - Harmon Valley	Primary	Operating	188	Penn West Petroleum - Harmon Valley	Primary	Operating
189	Penn West Petroleum - Seal Cadotte	Primary	Operating	189	Penn West Petroleum - Seal Cadotte	Primary	Operating
190	Penn West Petroleum - Seal Harmon Valley South	Primary	Operating	190	Penn West Petroleum - Seal Harmon Valley South	Primary	Operating
191	Penn West Petroleum - Seal North	Primary	Operating	191	Penn West Petroleum - Seal North	Primary	Operating
192	Shell - Cliffdale	Primary	Operating	192	Shell - Cliffdale	Primary	Operating
193	Shell - Galloway	Primary	Operating	193	Shell - Galloway	Primary	Operating
194	Andora - Sawm Lake	Thermal	Operating	194	Andora - Sawm Lake	Thermal	Operating
195	Baytex Energy - Cliffdale	Thermal	Operating	195	Baytex Energy - Cliffdale	Thermal	Operating
196	Baytex Energy - Harmon Valley - Pilot	Thermal	Operating	196	Baytex Energy - Harmon Valley - Pilot	Thermal	Operating
197	Penn West Petroleum - Dawson Seal	Thermal	Operating	197	Penn West Petroleum - Dawson Seal	Thermal	Operating
198	Shell - Carmon Creek	Thermal	Operating	198	Shell - Carmon Creek	Thermal	Operating
199	Shell - Peace River	Thermal	Operating	199	Shell - Peace River	Thermal	Operating
200	Touchstone Exploration - Dawson	Thermal	Operating	200	Touchstone Exploration - Dawson	Thermal	Operating
201	Baytex Energy - Walrus	Primary	Approved	201	Baytex Energy - Walrus	Primary	Approved
202	Penn West Petroleum - Seal Main East	Primary	Approved	202	Penn West Petroleum - Seal Main East	Primary	Approved
203	Northern Alberta Oil - Sawm Lake	Thermal	Approved	203	Northern Alberta Oil - Sawm Lake	Thermal	Approved
96	Devon - Jackfish East	Thermal	Announced	96	Devon - Jackfish East	Thermal	Announced

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.

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Operating: Currently producing bitumen and/or oil sands product.
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 (Winter 2015)
 - Oilsands Review Database - <http://navigator.oilsandsreview.com/listing>
 - CanOils - <http://www.canoils.com/>

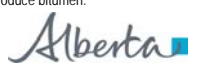
Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)
 Leased Oil Sands Area: Alberta Energy (Feb 2015)
 Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER)
 Urban Development Sub-Region (UDSR): Environment & Sustainable Resource Development (ESRD)
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Transverse Mercator Projection (10TM)
 North American Datum 1983 (NAD83)

Date: March 2015
 Author: Oil Sands Operations, Alberta Energy (SD)
 Produced by: Resource Mapping & Analysis, Alberta Energy (eu)

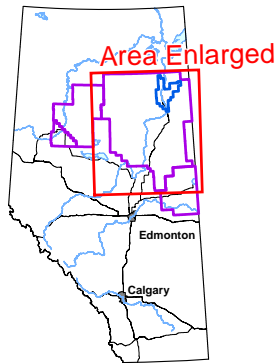
Notes:
Primary/EOR - These projects utilize the natural energy available in the reservoirs (in some cases supplemented by non-thermal EOR processes) to produce bitumen.
Thermal - These projects apply thermal energy (usually steam) in situ to produce bitumen.
Mining - These projects utilize open pit mining 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 (40)
 - Construction (12)
 - Approved (14)
 - Application (23)
 - Announced (11)
- Upgrader Status**
- ◆ Operating (4)
 - ◆ Construction (0)
 - ◆ Approved (1)
 - ◆ Application (3)
- Other Information**
- Oil Sands Area
 - Surface Mineable Area
 - Leased Oil Sands Area
 - Municipality
 - Urban Development Sub-Region
 - Hydrography
 - Major Highway



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SOURCE INFORMATION:

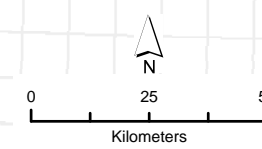
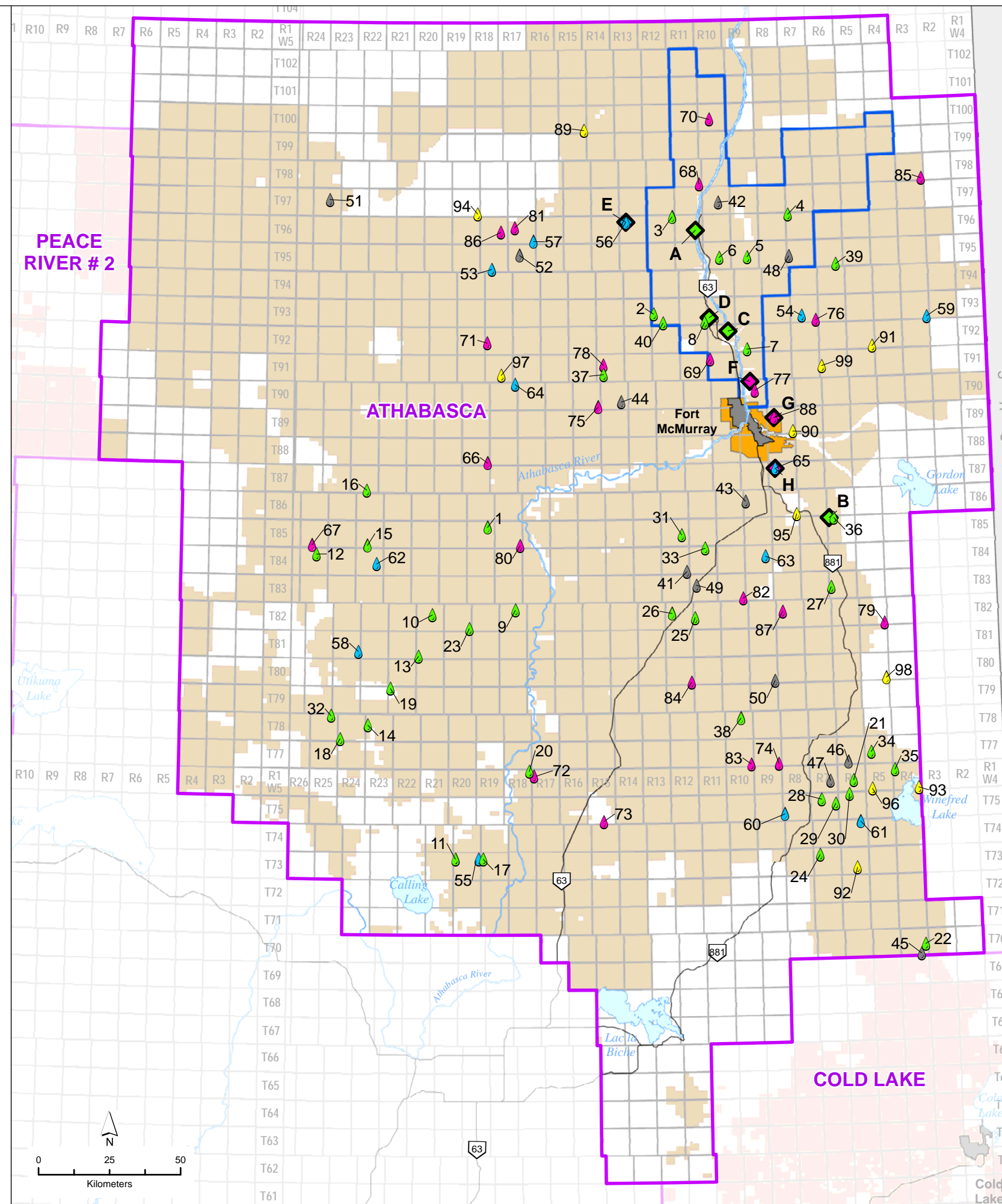
- Projects & Upgraders Information:**
- Oil Sands Administration & Strategic Information System, Alberta Energy
 - Alberta Energy Regulator - Integrated Application Registry
 - Alberta Oil Sands Industry - Quarterly Update (Winter 2015)
 - Oilsands Review & CanOils
- Industrial Heartland:** Alberta's Industrial Heartland Association (AIHA)
- Leased Oil Sands Area:** Alberta Energy (Feb 2015)
- Oil Sands & Surface Mineable Areas:** Alberta Energy Regulator (AER)
- Urban Development Sub-Region (UDSR):** Environment & Sustainable Resource Development (ESRD)
- Base Map Data Provided by the Government of Alberta under the Alberta Open Government Licence.**

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North American Datum 1983 (NAD83)

Date: March 2015
Author: Oil Sands Operations, Alberta Energy (SD)
Produced by: Resource Mapping & Analysis, Alberta Energy (eu)



REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE
Upgrader - 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 - Kearn	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	Enovus - Pelican Lake III	Primary	Operating
10	CNRL - Brintnell	Primary	Operating
11	CNRL - Cherpeta	Primary	Operating
12	CNRL - Goodflow	Primary	Operating
13	CNRL - South Brintnell	Primary	Operating
14	CNRL - South Wabasca	Primary	Operating
15	CNRL - Wabasca North	Primary	Operating
16	CNRL - Woodenhouse	Primary	Operating
17	Husky - Amadou	Primary	Operating
18	Husky - McMullen Primary Heavy Oil	Primary	Operating
19	Legacy O&G - Brintnell 9774	Primary	Operating
20	Black Pearl Resources - Blackrod SAGD Pilot	Thermal	Operating
21	Enovus - Christina Lake Thermal	Thermal	Operating
22	Enovus - Foster Creek	Thermal	Operating
23	Enovus - Pelican Lake Grand Rapids	Thermal	Operating
24	CNRL - Kirby Commercial Project	Thermal	Operating
25	Connacher - Algar	Thermal	Operating
26	Connacher - Great Divide	Thermal	Operating
27	Conoco Phillips - Surmont	Thermal	Operating
28	Devon - Jackfish 2 SAGD Thermal Project	Thermal	Operating
29	Devon - Jackfish 3 SAGD Project	Thermal	Operating
30	Devon - Jackfish SAGD Thermal Project	Thermal	Operating
31	Grizzly Oil Sands - Algar Lake	Thermal	Operating
32	Husky - McMullen Thermal Conduction Pilot	Thermal	Operating
33	JACOS - Hangingstone	Thermal	Operating
34	MEG Energy - Christina Lake Regional	Thermal	Operating
35	MEG Energy - Christina Lake Regional Project Phase 3 SE	Thermal	Operating
36	Nexen - Long Lake	Thermal	Operating
37	Southern Pacific - STP McKay SAGD	Thermal	Operating
38	Statoil - Leismer Demonstration Project	Thermal	Operating
39	Suncor - Firebag	Thermal	Operating
40	Suncor - Mackay River	Thermal	Operating
41	N-Solv Corporation - Suncor Dover Lease Pilot	Experimental	Construction
42	Suncor - Fort Hills Oil Sands Project	Mining	Construction
43	Athabasca Oil Sands - Hangingstone	Thermal	Construction
44	Brion Energy - Mackay River	Thermal	Construction
45	Enovus - Clearwater Thermal Project	Thermal	Construction
46	Enovus - Narrows Lake	Thermal	Construction
47	Harvest Operations - BlackGold	Thermal	Construction
48	Husky - Sunrise Thermal	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	CNRL - McLaren Channel Deposit	Primary	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	Enovus - 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	Renergy Petroleum - Muskwa Pilot	Experimental	Application
68	Shell - Pierre River	Mining	Application
69	Suncor - Voyageur South	Mining	Application
70	Teck Resources - Frontier	Mining	Application
71	Athabasca Oil Sands - Dover West Sands & Clastics	Thermal	Application
72	Black Pearl Resources - Blackrod Commercial	Thermal	Application
73	CNRL - Grouse	Thermal	Application
74	Grizzly Oil Sands - May River	Thermal	Application
75	Grizzly Oil Sands - Thickwood	Thermal	Application
76	Imperial Oil - Aspen	Thermal	Application
77	Ivanhoe Energy - Tamarack	Thermal	Application
78	Marathon Oil Corporation - Birchwood	Thermal	Application
79	MEG Energy - Surmont	Thermal	Application
80	OSUM - Sepiko Kesik	Thermal	Application
81	Prosper Petroleum Ltd. - Rigel	Thermal	Application
82	PTT Exploration and Production - Mariana-Hangingstone	Thermal	Application
83	PTT Exploration and Production - Mariana-South Leismer	Thermal	Application
84	PTT Exploration and Production - Mariana-Thornbury	Thermal	Application
85	SilverWillow Energy - Audet Pilot	Thermal	Application
86	Sunshine Oilsands - Legend Lake	Thermal	Application
87	Surmont Energy - Wildwood	Thermal	Application
88	Value Creation - Advanced TriStar	Thermal	Application
89	Athabasca Oil Sands - Birch	Thermal	Announced
90	Enovus - East McMurray	Thermal	Announced
91	Enovus - Steepbank	Thermal	Announced
92	Enovus - West Kirby	Thermal	Announced
93	Enovus - Winefred Lake	Thermal	Announced
94	CNRL - Birch Mountain	Thermal	Announced
95	CNRL - Gregoire Lake	Thermal	Announced
96	Devon - Jackfish East	Thermal	Announced
97	Koch - Dunkirk	Thermal	Announced
98	Suncor - Chard	Thermal	Announced
99	Suncor - Lewis	Thermal	Announced

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Alberta's Oil Sands Projects and Upgraders

-- Cold Lake / Industrial Heartland --

Project Status

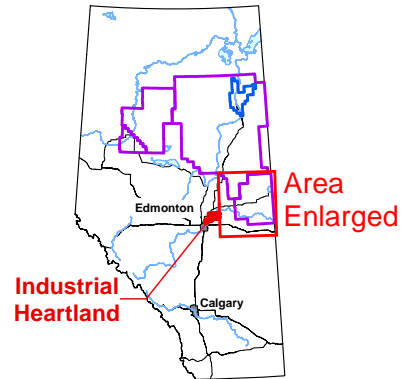
- Operating (67)
- Construction (0)
- Approved (3)
- Application (2)
- Announced (0)

Upgrader Status

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

Other Information

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



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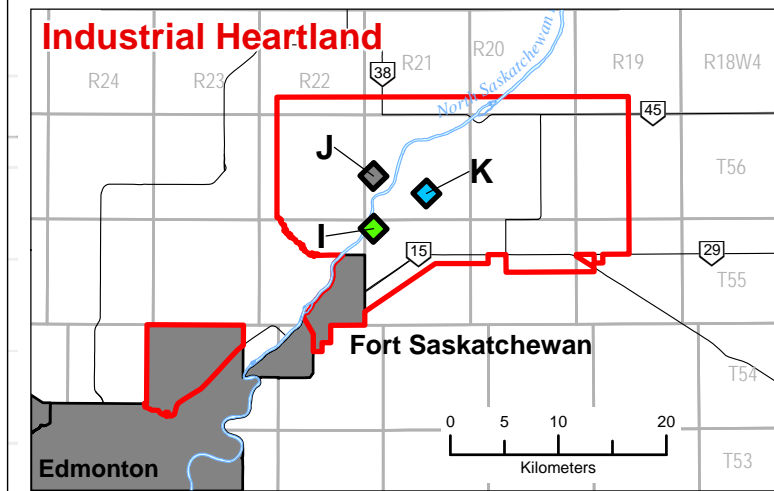
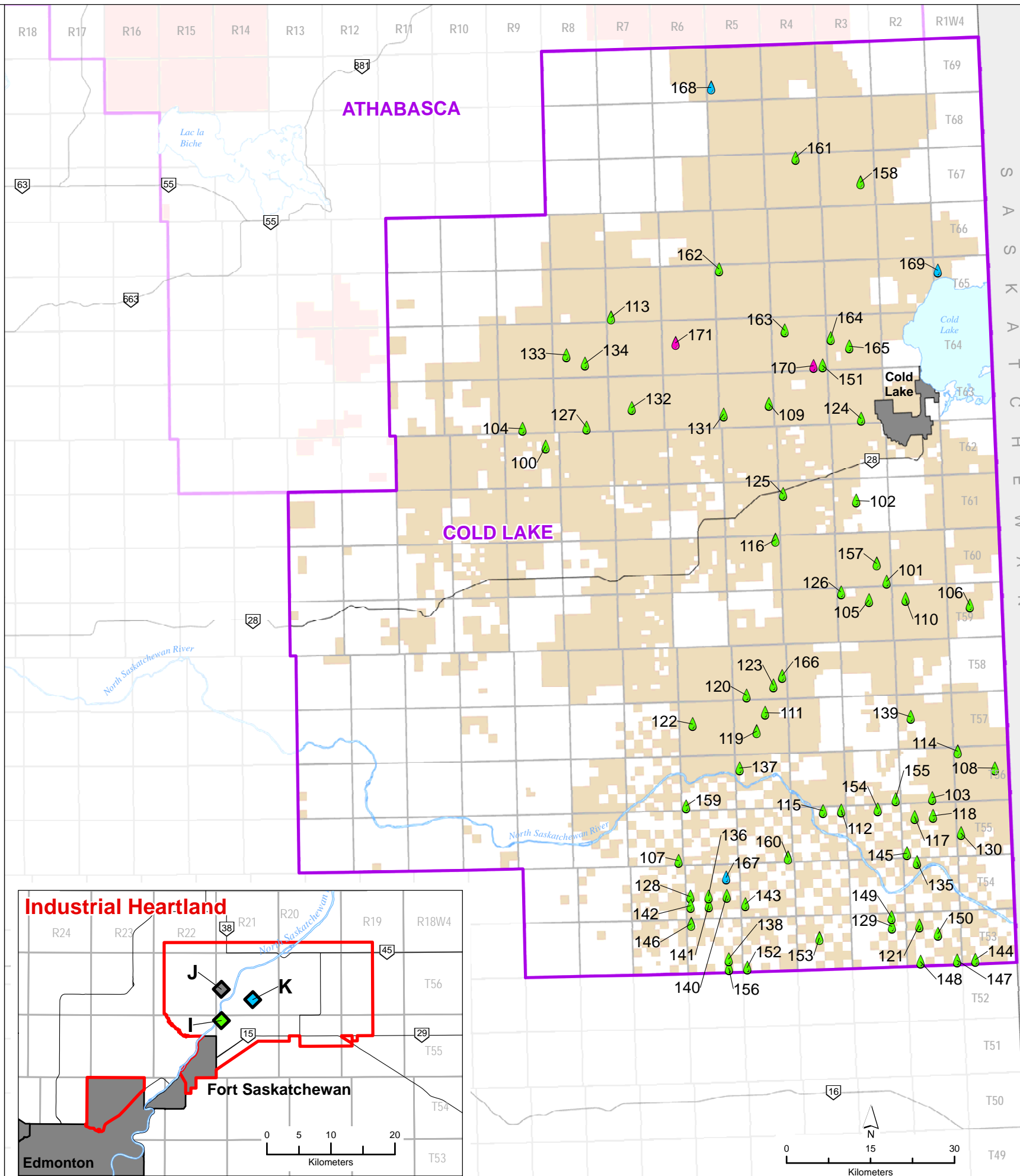
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 - Alberta Energy Regulator - Integrated Application Registry
 - Alberta Oil Sands Industry - Quarterly Update (Winter 2015)
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- Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)
- Leased Oil Sands Area: Alberta Energy (Feb 2015)
- Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER)
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North American Datum 1983 (NAD83)

Date: March 2015
Author: Oil Sands Operations, Alberta Energy (SD)
Produced by: Resource Mapping & Analysis, Alberta Energy (eu)



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

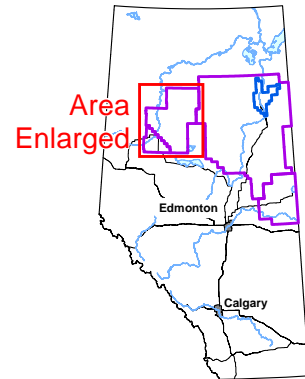
Notes:
Primary/EOR - These projects utilize the natural energy available in the reservoirs (in some cases supplemented by non-thermal EOR processes) to produce bitumen.
Thermal - These projects apply thermal energy (usually steam) in situ to produce bitumen.
Mining - These projects utilize open pit mining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



Alberta's Oil Sands Projects and Upgraders

-- Peace River --

- Project Status**
- Operating (29)
 - Construction (0)
 - Approved (3)
 - 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.

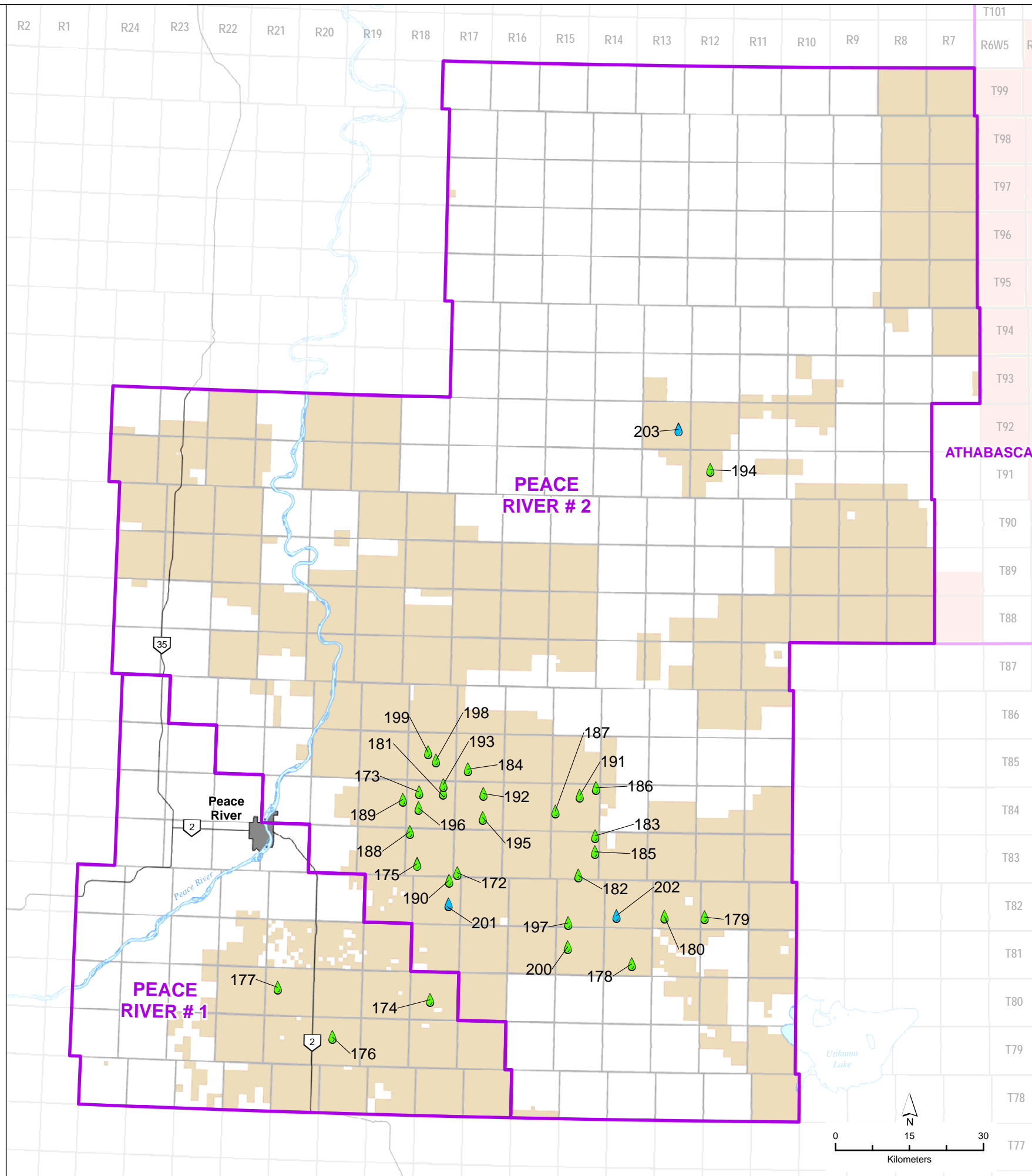
The data represented was obtained from the source information listed and internal records as well as public announcements made at the time of publication and are subject to change; therefore the Government of Alberta assumes no responsibility for discrepancies at time of use.

PROJECT STATUS DEFINITION:
Operating: Currently producing bitumen and/or oil sands product.
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 (Winter 2015)
 - Oilsands Review & CanOils
Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)
Leased Oil Sands Area: Alberta Energy (Feb 2015)
Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER)
Urban Development Sub-Region (UDSR): Environment & Sustainable Resource Development (ESRD)
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Transverse Mercator Projection (10TM)
 North American Datum 1983 (NAD83)
 Date: March 2015
 Author: Oil Sands Operations, Alberta Energy (SD)
 Produced by: Resource Mapping & Analysis, Alberta Energy (eu)



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

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