



# Alberta's Oil Sands Projects and Upgraders

## -- Athabasca --

### Project Status

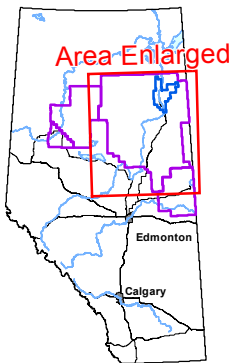
- Operating (37)
- Construction (3)
- Approved (18)
- Application (14)
- Announced (12)

### Upgrader Status

- Operating (3)
- Construction (0)
- Approved (1)
- Application (2)

### Other Information

- Oil Sands Area
- Surface Mineable Area
- Leased Oil Sands Area
- Municipality
- Urban Development Sub-Region
- Hydrography
- Major Highway



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**Application:** Application is being reviewed by the AER and/or AEP  
**Announced:** Operator has disclosed intent to construct project.

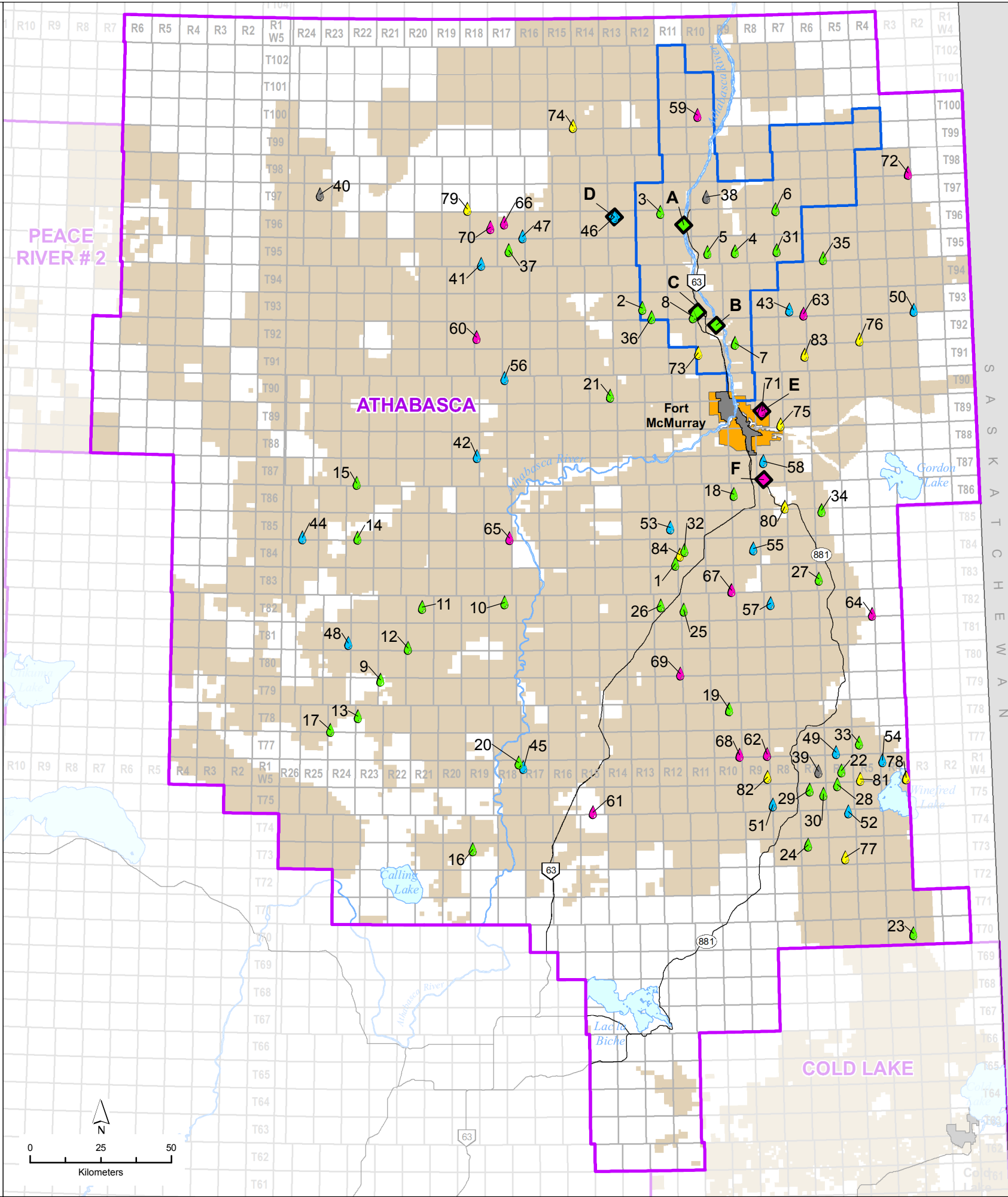
**SOURCE INFORMATION:**  
Projects & Upgraders Information:  
- Oil Sands Administration & Strategic Information System, Alberta Energy  
- Integrated Application Registry, Alberta Energy Regulator  
- Alberta Oil Sands - Quarterly Update (Summer 2017)  
- CanOils - <http://www.can oils.com/>

Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)  
Leased Oil Sands Area: Alberta Energy (September 2017)  
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 2017  
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	Suncor - Base and Millennium	Upgrader	Operating
C	Syncrude - Mildred Lake	Upgrader	Operating
D	BP P.L.C. - Terre de Grace Pilot	Upgrader	Approved
E	Value Creation - Advanced TriStar	Upgrader	Application
F	Value Creation - Demonstration of Excellence (DOEx)	Upgrader	Application
Athabasca			
1	N-Solv Corporation - Suncor Dover Lease Pilot	Experimental	Operating
2	Suncor - Dover Demonstration	Experimental	Operating
3	CNRL - Horizon	Mining	Operating
4	CNRL - Jackpine Mine	Mining	Operating
5	CNRL - Muskeg River Mine	Mining	Operating
6	Imperial Oil - Kearl	Mining	Operating
7	Suncor - Suncor Oil Sands	Mining	Operating
8	Syncrude - Syncrude Mine	Mining	Operating
9	Bronco Energy - Brintnell 9774	Primary	Operating
10	Cenovus - Pelican Lake III	Primary	Operating
11	CNRL - Brintnell	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	Athabasca Oil Sands - Hangingstone	Thermal	Operating
19	Athabasca Oil Sands - Leismer Demonstration Project	Thermal	Operating
20	Black Pearl Resources - Blackrod SAGD Pilot	Thermal	Operating
21	Brion Energy - MacKay River Commercial Project	Thermal	Operating
22	Cenovus - Christina Lake Thermal	Thermal	Operating
23	Cenovus - Foster Creek	Thermal	Operating
24	CNRL - Kirby South	Thermal	Operating
25	Connacher - Algar	Thermal	Operating
26	Connacher - Great Divide	Thermal	Operating
27	Conoco Phillips - Surmont	Thermal	Operating
28	Devon - Jackfish SAGD Thermal Project	Thermal	Operating
29	Devon - Jackfish 2 SAGD Thermal Project	Thermal	Operating
30	Devon - Jackfish 3 SAGD Project	Thermal	Operating
31	Husky - Sunrise Thermal	Thermal	Operating
32	JACOS - Hangingstone Expansion Project	Thermal	Operating
33	MEG Energy - Christina Lake Regional	Thermal	Operating
34	Nexen - Long Lake	Thermal	Operating
35	Suncor - Firebag	Thermal	Operating
36	Suncor - MacKay River	Thermal	Operating
37	Sunshine Oilsands - West Ells	Thermal	Operating
38	Suncor - Fort Hills Oil Sands Project	Mining	Construction
39	Harvest Operations - BlackGold	Thermal	Construction
40	Sunshine Oilsands - Harper	Thermal	Construction
41	Athabasca Oil Sands - Dover West Carbonates (Leduc)	Experimental	Approved
42	Husky - Saleski Carbonate Pilot	Experimental	Approved
43	Oak Point Energy - Lewis SAGD Pilot	Experimental	Approved
44	Reenergy Petroleum - Muskwa Pilot	Experimental	Approved
45	Black Pearl Resources - Blackrod Commercial	Thermal	Approved
46	BP P.L.C. - Terre de Grace	Thermal	Approved
47	Brion Energy - Dover Commercial Project	Thermal	Approved
48	Cavalier Energy Inc - Hoole	Thermal	Approved
49	Cenovus - Narrows Lake	Thermal	Approved
50	Cenovus - Telephone Lake Borealis	Thermal	Approved
51	CNRL - Kirby Expansion (North)	Thermal	Approved
52	Devon - Pike	Thermal	Approved
53	Grizzly Oil Sands - Algar Lake	Thermal	Approved
54	MEG Energy - Christina Lake Regional Project Phase 3 SE	Thermal	Approved
55	Suncor - Meadow Creek East	Thermal	Approved
56	Sunshine Oilsands - Thickwood	Thermal	Approved
57	Surmont Energy - Wildwood	Thermal	Approved
58	Value Creation - Demonstration of Excellence (DOEx)	Thermal	Approved
59	Teck Resources - Frontier	Mining	Application
60	Athabasca Oil Sands - Dover West Sands & Clastics	Thermal	Application
61	CNRL - Grouse	Thermal	Application
62	Grizzly Oil Sands - May River	Thermal	Application
63	Imperial Oil - Aspen	Thermal	Application
64	MEG Energy - Surmont	Thermal	Application
65	OSUM - Sepiko Kesik	Thermal	Application
66	Prosper Petroleum Ltd. - Rigel	Thermal	Application
67	PTT Exploration and Production - Mariana-Hangingstone	Thermal	Application
68	PTT Exploration and Production - Mariana-South Leismer	Thermal	Application
69	PTT Exploration and Production - Mariana-Thornbury	Thermal	Application
70	Sunshine Oilsands - Legend Lake	Thermal	Application
71	Value Creation - Advanced TriStar	Thermal	Application
72	Value Creation - Audet Pilot	Thermal	Application
73	Suncor - Voyageur South	Mining	Announced
74	Athabasca Oil Sands - Birch	Thermal	Announced
75	Cenovus - East McMurray	Thermal	Announced
76	Cenovus - Steepbank	Thermal	Announced
77	Cenovus - West Kirby	Thermal	Announced
78	Cenovus - Winefred Lake	Thermal	Announced
79	CNRL - Birch Mountain	Thermal	Announced
80	CNRL - Gregoire Lake	Thermal	Announced
81	Devon - Jackfish East	Thermal	Announced
82	MEG Energy - May River	Thermal	Announced
83	Suncor - Lewis	Thermal	Announced
84	Suncor - Meadow Creek West	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

## -- Cold Lake / Industrial Heartland --

### Project Status

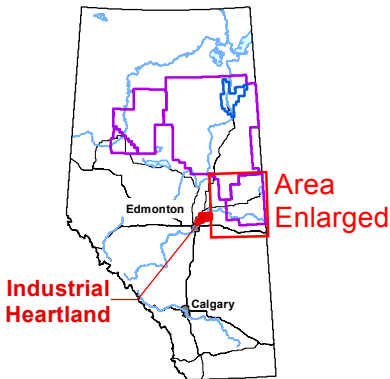
- Operating (61)
- Construction (0)
- Approved (4)
- Application (1)
- Announced (0)

### Upgrader Status

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

### Other Information

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



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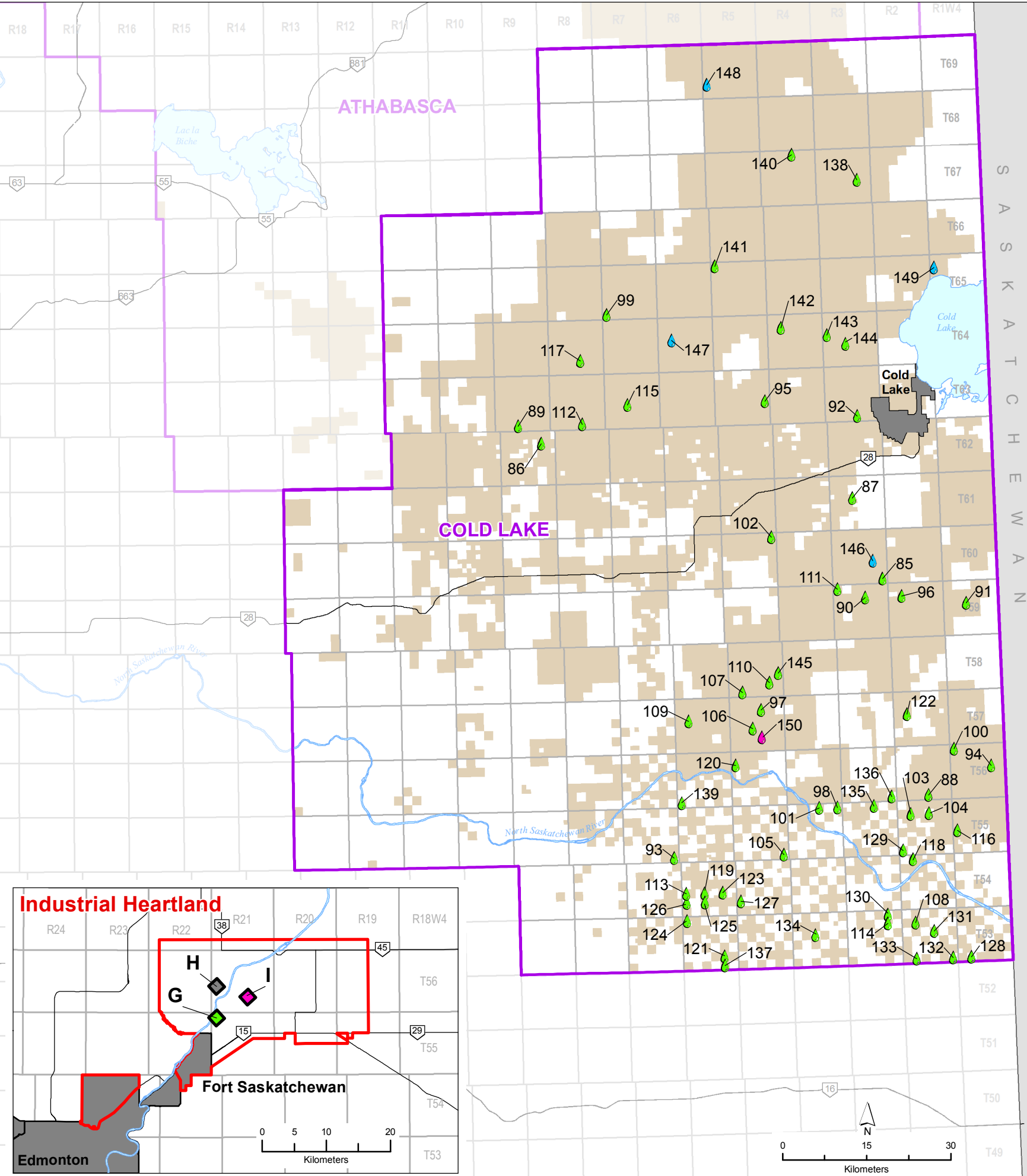
**SOURCE INFORMATION:**  
Projects & Upgraders Information:  
- Oil Sands Administration & Strategic Information System, Alberta Energy  
- Integrated Application Registry, Alberta Energy Regulator  
- Alberta Oil Sands - Quarterly Update (Summer 2017)  
- CanOils - <http://www.can oils.com/>

Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)  
Leased Oil Sands Area: Alberta Energy (September 2017)  
Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER)  
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North American Datum 1983 (NAD83)

Date: September 2017  
Author: Oil Sands Operations, Alberta Energy (MD)  
Produced by: Resource Mapping & Analysis, Alberta Energy (JS)



REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE
Upgraders - Heartland			
G	Shell - Scotford	Upgrader	Operating
H	North West Upgrading - Redwater	Upgrader	Construction
I	Value Creation - Heartland	Upgrader	Application
Cold Lake			
85	Baytex - Koch Reita Lake	Primary	Operating
86	Baytex - Mann Lake East	Primary	Operating
87	Baytex - Reita Lake (Baytex)	Primary	Operating
88	Black Pearl Resources - John Lake	Primary	Operating
89	CNRL - Ashmont	Primary	Operating
90	CNRL - Beartrap	Primary	Operating
91	CNRL - Beartrap East	Primary	Operating
92	CNRL - CNRL Cold Lake	Primary	Operating
93	CNRL - Derwent 11574	Primary	Operating
94	CNRL - East Fishing Lake	Primary	Operating
95	CNRL - Edward Lake	Primary	Operating
96	CNRL - Elizabeth	Primary	Operating
97	CNRL - Elk Point	Primary	Operating
98	CNRL - Elk Point Project	Primary	Operating
99	CNRL - Fire Tower	Primary	Operating
100	CNRL - Fishing Lake	Primary	Operating
101	CNRL - Frog Lake	Primary	Operating
102	CNRL - Ft. Kent	Primary	Operating
103	CNRL - John Lake	Primary	Operating
104	CNRL - John Lake 11428	Primary	Operating
105	CNRL - Lindbergh CA	Primary	Operating
106	CNRL - Lindbergh North	Primary	Operating
107	CNRL - Lindbergh Primary	Primary	Operating
108	CNRL - Marwayne	Primary	Operating
109	CNRL - Moose Hills	Primary	Operating
110	CNRL - North Murphy Lindbergh	Primary	Operating
111	CNRL - Reita Lake (CNRL)	Primary	Operating
112	CNRL - Seibert Lake	Primary	Operating
113	CNRL - South Lindbergh	Primary	Operating
114	CNRL - West Marwayne	Primary	Operating
115	Devon - Bonnyville	Primary	Operating
116	Devon - East Tulabi John Lake	Primary	Operating
117	Devon - Mann North	Primary	Operating
118	Devon - Tulabi/John Lake	Primary	Operating
119	Gear Energy - Lindbergh Louis	Primary	Operating
120	Gear Energy - Passage Elk	Primary	Operating
121	Gear Energy - Swimming	Primary	Operating
122	Harvest Operations - Frog Lake Oil Sands Project	Primary	Operating
123	Harvest Operations - Lindbergh South	Primary	Operating
124	Husky - Lindbergh 9873,11822	Primary	Operating
125	Husky - Lindbergh 10259	Primary	Operating
126	Husky - Lindbergh 10619	Primary	Operating
127	Husky - Lindbergh 10812	Primary	Operating
128	Husky - Lindbergh 11041	Primary	Operating
129	Husky - Lindbergh 11205	Primary	Operating
130	Husky - Marwayne 7990	Primary	Operating
131	Husky - Marwayne 8655	Primary	Operating
132	Husky - Marwayne 10597	Primary	Operating
133	Husky - Marwayne 11287	Primary	Operating
134	Solara Exploration - Lindbergh 11429	Primary	Operating
135	Twin Butte Energy - Frog Lake	Primary	Operating
136	Twin Butte Energy - Frog Lake 11256	Primary	Operating
137	West Lake Energy - Swimming 11191	Primary	Operating
138	CNRL - Burnt Lake	Thermal	Operating
139	CNRL - Elk Point CA	Thermal	Operating
140	CNRL - Primrose	Thermal	Operating
141	CNRL - Wolf Lake CA	Thermal	Operating
142	Husky - Tucker	Thermal	Operating
143	Imperial Oil - Cold Lake	Thermal	Operating
144	OSUM - Orion EOR	Thermal	Operating
145	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operating
146	Baytex - Gemini Commercial	Thermal	Approved
147	Devon - Walleye	Thermal	Approved
148	Husky - Caribou Lake	Thermal	Approved
149	OSUM - Taiga	Thermal	Approved
150	Koch - Selina	Thermal	Application

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Alberta's Oil Sands  
Projects and Upgraders  
-- Peace River --

**Project Status**

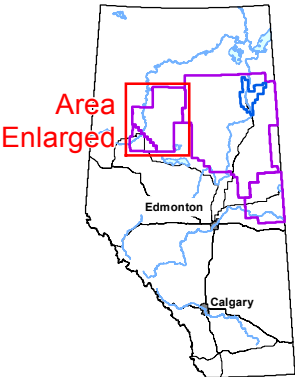
- Operating (25)
- Construction (0)
- Approved (1)
- Application (0)
- Announced (0)

**Other Information**

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

**Upgrader Status**

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



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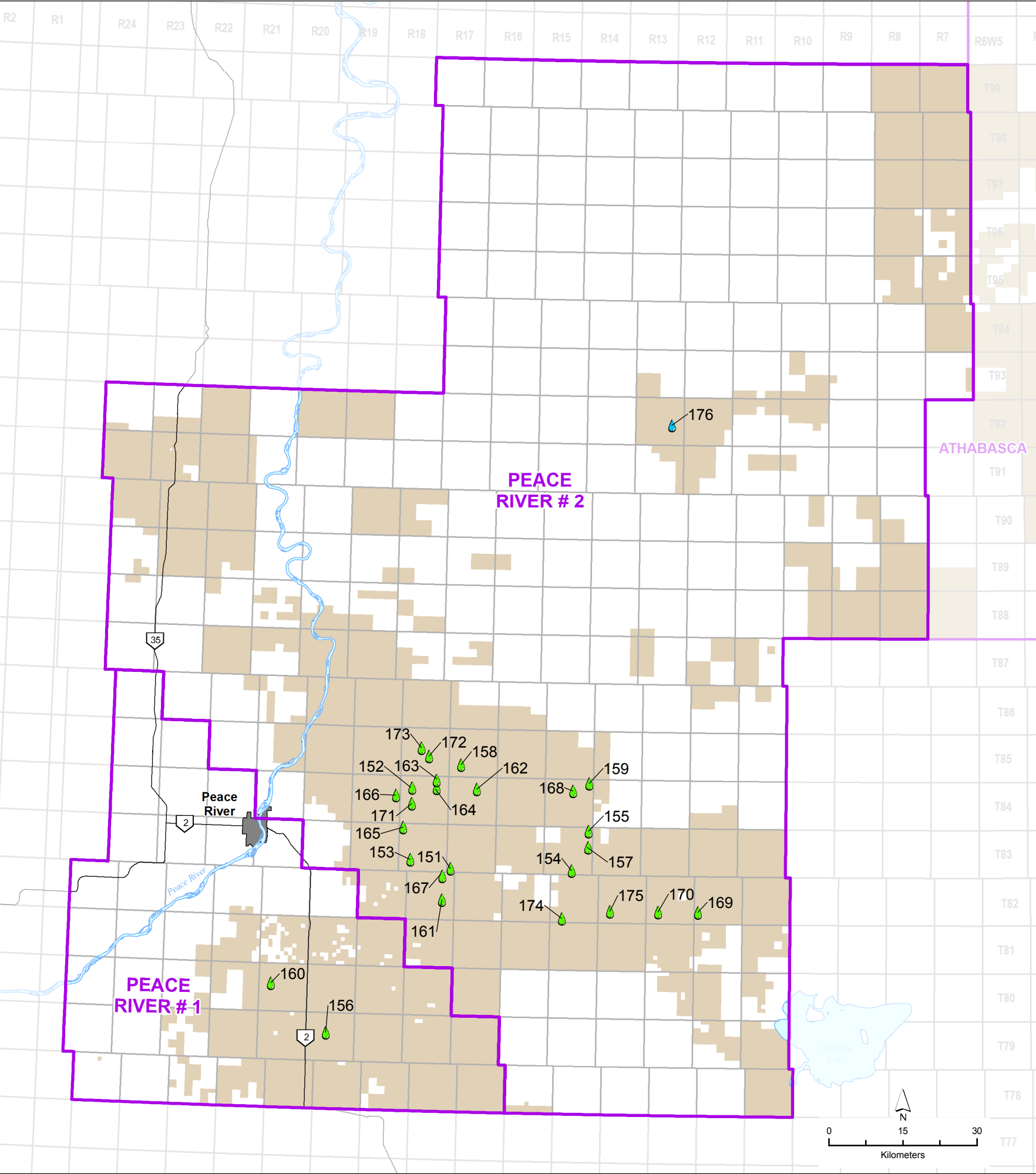
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REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE
Peace River			
151	Obsidian Energy - Seal Harmon Valley South Thermal Pilot	Experimental	Operating
152	Baytex - Cadotte Heavy Oil	Primary	Operating
153	Baytex - Harmon Valley Bluesky	Primary	Operating
154	Baytex - Murphy Seal	Primary	Operating
155	Baytex - Peace River	Primary	Operating
156	Baytex - Reno	Primary	Operating
157	Baytex - Seal I	Primary	Operating
158	Baytex - Seal Cadotte	Primary	Operating
159	Baytex - Seal-Northern Cadotte Block	Primary	Operating
160	Baytex - Tangent 11437	Primary	Operating
161	Baytex - Walrus	Primary	Operating
162	CNRL - Cliffdale	Primary	Operating
163	CNRL - Galloway	Primary	Operating
164	Murphy Oil - Murphy Cliffdale	Primary	Operating
165	Obsidian Energy - Harmon Valley	Primary	Operating
166	Obsidian Energy - Seal Cadotte	Primary	Operating
167	Obsidian Energy - Seal Harmon Valley South	Primary	Operating
168	Obsidian Energy - Seal North	Primary	Operating
169	Prosper Petroleum Ltd. - Chipmunk	Primary	Operating
170	Prosper Petroleum Ltd. - Chipmunk II	Primary	Operating
171	Baytex - Harmon Valley - Pilot	Thermal	Operating
172	CNRL - Peace River Bluesky	Thermal	Operating
173	CNRL - Peace River	Thermal	Operating
174	Obsidian Energy - Dawson Seal	Thermal	Operating
175	Obsidian Energy - Seal Main East	Thermal	Operating
176	Northern Alberta Oil - Sawn Lake	Thermal	Approved

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