

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



This map excludes active projects with production of less than 1.000 barrels

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) Base Map Data Provided by the Government of Alberta under the Alberta Open Government Licence.

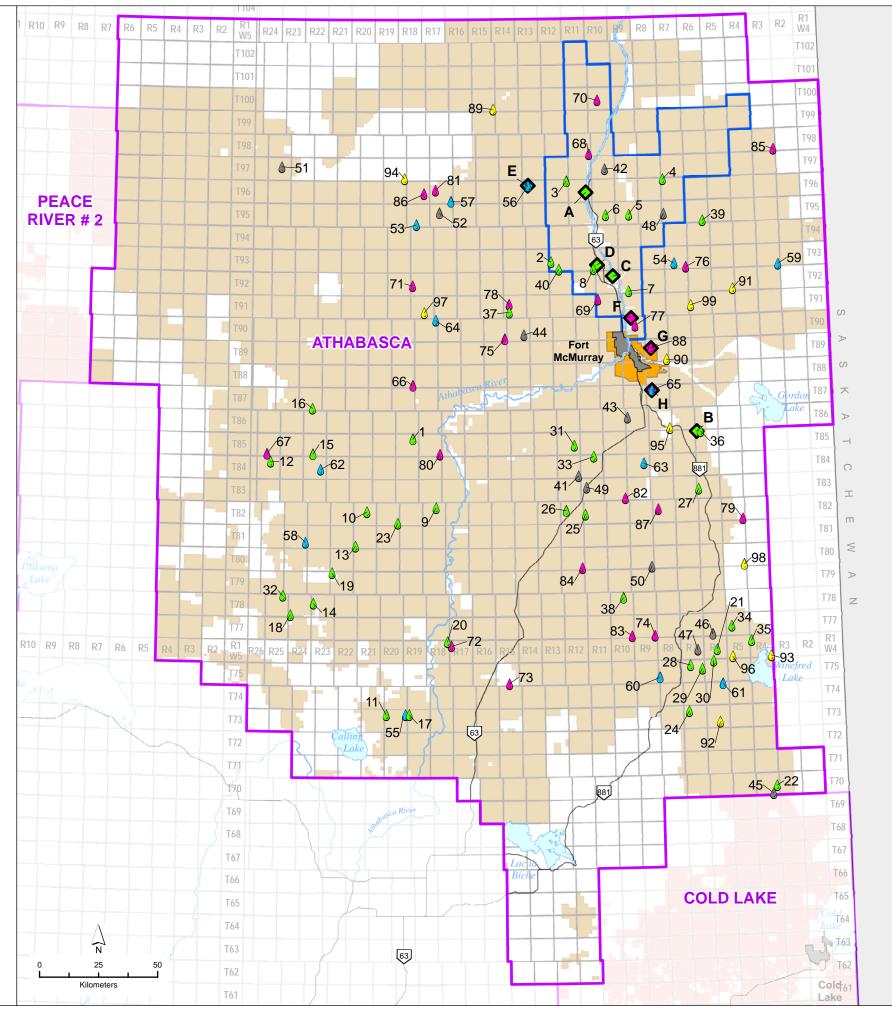
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Transverse Mercator Projection (10TM) North American Datum 1983 (NAD83)

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





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MEG Energy - Surmont	Thermal	Application
DSUM - Sepiko Kesik	Thermal	Application
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OPERATOR - PROJECT NAME PROJECT TYPE STAGE

supplemented by non-thermal EOR processes) to produce bitumen.

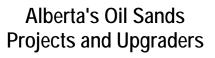
Thermal - These projects apply thermal energy (usually steam) in situ to produce bitumen.

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





-- Cold Lake / Industrial Heartland --

Project Status

Operating (67)

Construction (0)

Approved (3)

Application (2)

Announced (0)

Construction (1)

Approved (1)

Other Information

Oil Sands

Industrial Heartland

Municipality Hydrography

Major Highway

Upgrader Status

Operating (1)

Application (0)



This map excludes active projects with production of less than 1.000 barrels

The data represented was obtained from the source information listed and internal records as well as public announcements made at the time

PROJECT STATUS DEFINITION:

Operating: Currently producing bitumen and/or oil sands product.

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

SOURCE INFORMATION:

- Oilsands Review & CanOils

Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER) Urban Development Sub-Region (UDSR): Environment &

Base Map Data Provided by the Government of Alberta

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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.

of publication and are subject to change; therefore the Government of Alberta assumes no responsibility for discrepancies at time of use.

Construction: On-site construction has commenced. Approved: Regulatory approvals required to operate have been received.

- 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)

Industrial Heartland: Alberta's Industrial Heartland Association (AIHA) Leased Oil Sands Area: Alberta Energy (Feb 2015)

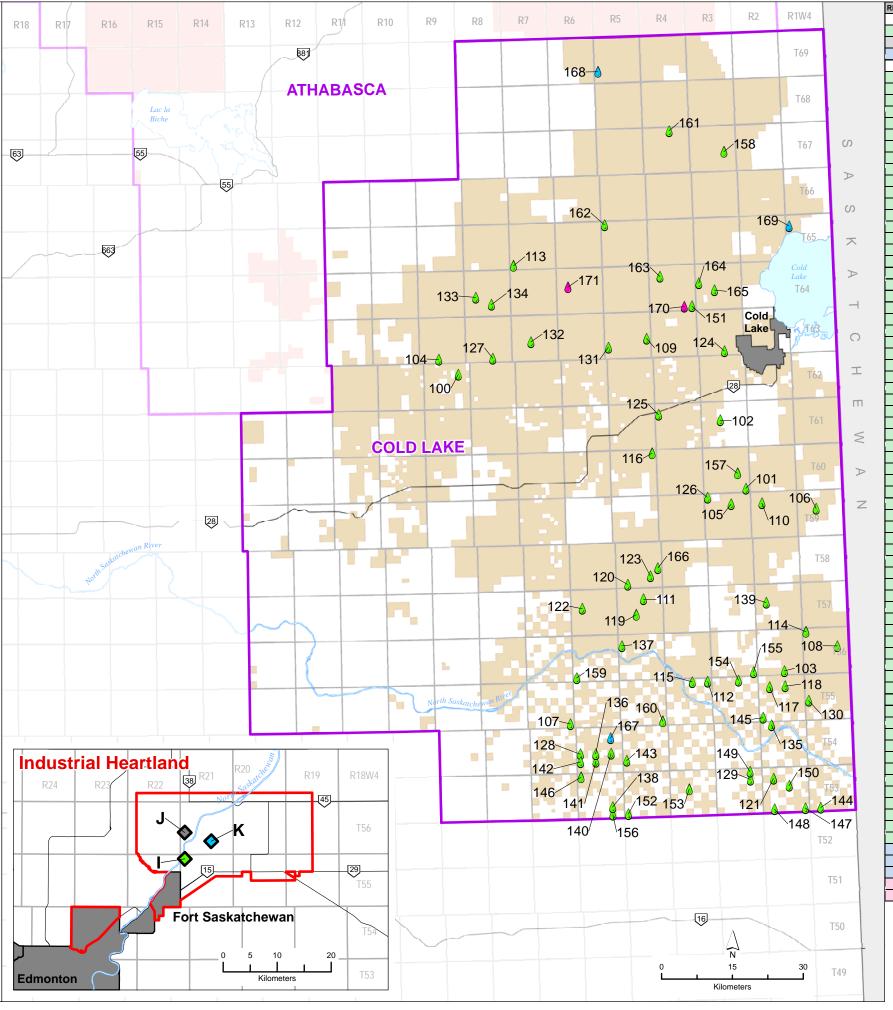
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North American Datum 1983 (NAD83)

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

RMA



	OPERATOR - PROJECT NAME	PROJECT TYPE	STAG
1 9	Upgrader - Heartland Shell - Scotford	Upgrader	Operatin
	North West Upgrading - Redwater	Upgrader	Construc
	Value Creation - Heartland	Upgrader	Approve
	Cold Lake		
	Baytex Energy - Mann Lake East	Primary	Operatin
	Baytex Energy - Reita Lake I	Primary	Operatin
	Baytex Energy - Reita Lake III Black Pearl Resources - John Lake	Primary Primary	Operatin Operatin
	CNRL - Ashmont	Primary	Operatin
	CNRL - Beartrap	Primary	Operatin
	CNRL - Beartrap East	Primary	Operatin
107	CNRL - Derwent 11574	Primary	Operatin
	CNRL - East Fishing Lake	Primary	Operatin
	CNRL - Edward Lake	Primary	Operatin
	CNRL - Elizabeth CNRL - Elk Point	Primary Primary	Operatir Operatir
	CNRL - Elk Point Project	Primary	Operatir
	CNRL - Fire Tower	Primary	Operatir
	CNRL - Fishing Lake	Primary	Operatir
115	CNRL - Frog Lake	Primary	Operatir
	CNRL - Ft. Kent	Primary	Operatir
	CNRL - John Lake	Primary	Operatir
	CNRL - John Lake 11428 CNRL - Lindbergh North	Primary	Operation
	CNRL - Lindbergh Primary	Primary Primary	Operatir Operatir
	CNRL - Marwayne	Primary	Operatir
	CNRL - Moose Hills	Primary	Operatir
	CNRL - North Murphy Lindbergh	Primary	Operatir
	CNRL - Ranger Cold Lake	Primary	Operatir
	CNRL - Reita Lake 11089	Primary	Operatir
	CNRL - Reita Lake II	Primary	Operatir
	CNRL - Seibert Lake CNRL - South Lindbergh	Primary Primary	Operatir Operatir
	CNRL - West Marwayne	Primary	Operatir
	Devon - East Tulabi John Lake	Primary	Operatir
131	Devon - Iron River	Primary	Operatir
132	Devon - Manatokan	Primary	Operatir
	Devon - Manatokan 10310	Primary	Operatir
	Devon - Mann North	Primary	Operatir
	Devon - Tulabi/John Lake Gear Energy - Lindbergh Louis	Primary	Operation
	Gear Energy - Emobergi Louis Gear Energy - Passage Elk	Primary Primary	Operatir Operatir
	Gear Energy - Swimming	Primary	Operatir
	Harvest Operations - Frog Lake Oil Sands Project	Primary	Operatir
	Harvest Operations - Lindbergh South	Primary	Operatir
_	Husky - Lindbergh 10259	Primary	Operatir
	Husky - Lindbergh 10619 Husky - Lindbergh 10812	Primary	Operatir Operatir
	Husky - Lindbergh 11041	Primary Primary	Operation
	Husky - Lindbergh 11205	Primary	Operatir
	Husky - Lindbergh 9873,11822,11541	Primary	Operatir
147	Husky - Marwayne 10597	Primary	Operatir
	Husky - Marwayne 11287	Primary	Operatir
	Husky - Marwayne 7990	Primary	Operatir
	Husky - Marwayne 8655	Primary	Operation
	Husky - Tucker Lake 9835 Long Run Exploration - Lindbergh 10631	Primary Primary	Operati: Operati:
	Solara - Lindbergh 11429	Primary	Operatir
-	Twin Butte Energy - Frog Lake	Primary	Operatir
_	Twin Butte Energy - Frog Lake 11256	Primary	Operatir
156	Twin Butte Energy - Swimming 11191	Primary	Operatir
	Baytex Energy - Gemini Pilot	Thermal	Operatir
	CNRL - Burnt Lake	Thermal	Operation
	CNRL - Elk Point CA CNRL - Lindbergh CA	Thermal Thermal	Operation
	CNRL - Lindbergh CA CNRL - Primrose	Thermal	Operatir Operatir
_	CNRL - Wolf Lake CA	Thermal	Operation
	Husky - Tucker	Thermal	Operatir
	Imperial Oil - Cold Lake	Thermal	Operatir
	OSUM - Orion	Thermal	Operatir
	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operatir
167	Rife Resources - Upper Mannville	Primary	Approve
	Husky - Caribou Lake	Thermal Thermal	Approve Approve
168		THEIHIGH	MUDITUVE
168 169	OSUM - Taiga Birchwood Resources - Sage Thermal Pilot	Thermal	Applicat

OPERATOR - PROJECT NAME

PROJECT TYPE STAGE

Thermal - These projects apply thermal energy (usually steam) in situ to produce bitumen.

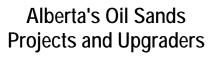
Mining -These projects utilize open pit mining methods to remove bituminous ore,

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



-- Peace River --

Project Status

Operating (29)

Construction (0)

Approved (3)

Application (0)

Announced (0)

Construction (0)

Approved (0)

Other Information

Oil Sands Area Leased Oil Sands Area

Municipality

R2

Hydrography Major Highway

Upgrader Status

Operating (0)

Application (0)



This map excludes active projects with production of less than 1,000 barrels of bitumen in the last six months.

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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

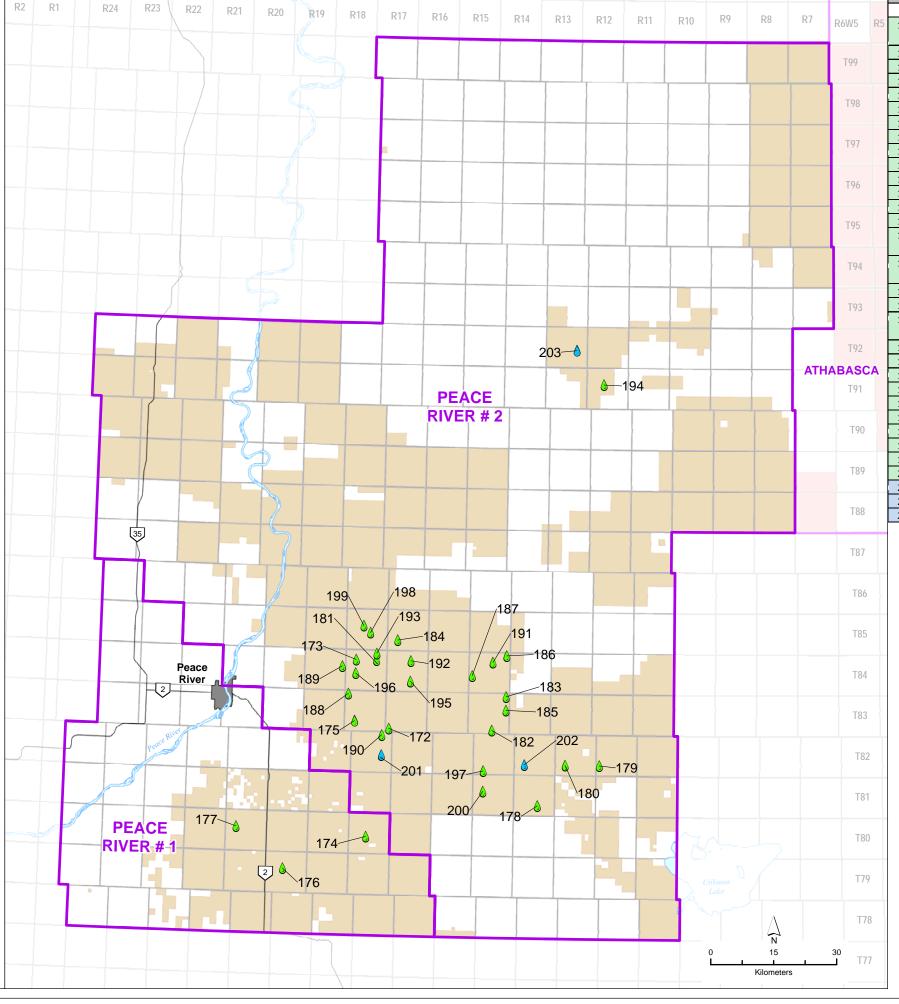
Industrial Heartland: Alberta's Industrial Heartland Association (AIHA) Leased Oil Sands Area: Alberta Energy (Feb 2015) Oil Sands & Surface Mineable Areas: Alberta Energy Regulator (AER) Urban Development Sub-Region (UDSR): Environment & Sustainable Resource Development (ESRD) Base Map Data Provided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

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RMA



REF. #	OPERATOR - PROJECT NAME	PROJECT TYPE	STAGE		
Peace River					
172	Penn West Petroleum - Seal Harmon	Experimental	Operating		
	Valley South Thermal Pilot				
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-	Primary	Operating		
	Northern Cadotte Block				
187	Murphy Oil - Seal-	Primary	Operating		
	Northern Cadotte Block II				
188	Penn West Petroleum - Harmon Valley	Primary	Operating		
189	Penn West Petroleum - Seal Cadotte	Primary	Operating		
190	Penn West Petroleum - Seal Harmon	Primary	Operating		
	Valley South				
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		

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

