

Comprehensive Community Outreach Report

RELEASE DATE >> Feb 21, 2020

Reports Included:

- Industry Activity Summary
- Industry Activity Summary Scorecard
- Land Right and Sale Summary
- Employment by Industry Report
- Well Production Summary - OIL
- Well Production Summary - GAS
- Well Production Summary - CND
- Well Closure
- Labour Force Characteristics by Economic Region
- Municipal Tax Report

Community Outreach

Industry Activity Summary

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

Location			
Province	: Alberta	UWI	: All
Municipality Type	: All	Municipality	: Lacombe County
Provincial Electoral District	: All	Member of the Legislative Assembly (MLA)	: All
Federal Electoral District	: All	Member of Parliament (MP)	: All

Operator	
Operator	: All

Notes:

Year Range is based upon Well Spud Date, with the exception of Rig Release Completion Trend.

Production from oil sands mines not included.

Production (Last 12 calendar months): Considers Oil, Gas, Condensate and Water production only.

Time Period Considered: This report reflects the current state at the date the report was run.

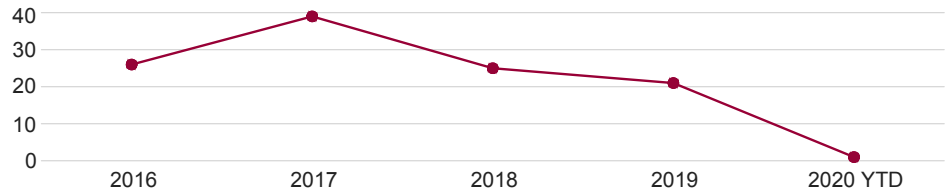
- **Active Operators:** Defined based on a consideration of the well license status of those wells operated. Those operators operating a well with the licenses status of "Active", or operators that have spudded a well in the 12 month period ending the date the report was run, are considered active operators.
- **Rig Release Completion Trend:** Based on the rig release year.
- **CAODC Active Rigs:** The CAODC active rigs metric value reflects the most recent data available.
- **Well Summary:** All well licenses present that are not reclaimed or reclamation exempt are considered.
- **Production (Last 12 calendar months):** Production from all unique well identifiers (UWIs) is considered.
- **Production (Last 12 calendar months):** A two month lag is typically observed in production data. The 12 month time period considered is from **January 2019 to December 2019**
- **Meters Drilled Yearly Trend:** Considers all meters drilled in a calendar year.

Industry Activity

Active Operators

89

Rig Release Completion Trend



CAODC Active Rigs

3

	All Rigs*	Filters Applied
Active Rigs	367	3
Rigs with Operator information	204	2
Rigs with Spud date information	198	2
Rigs with Geospatial information in gDC	367	3
Rigs plotted on Map	367	3

*For all years, production types, provinces, municipalities etc.

Well Summary Well summary section metrics consider wells of the following status types; active, inactive, suspended (reclamation certified and reclamation exempt not considered)

Well Licenses

4,385

Single Wells

2,668

Estimated Multi-Well Pad Wells

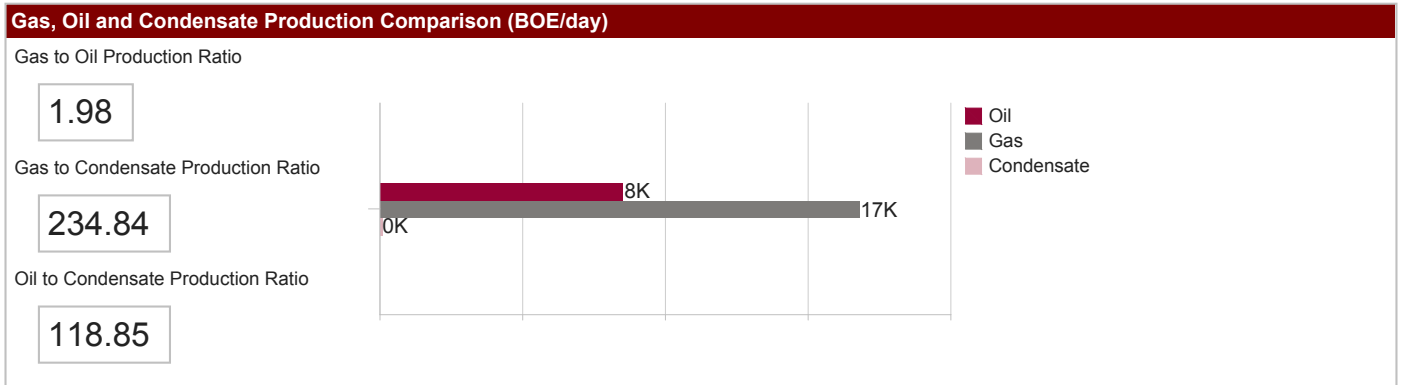
1,819

Estimated Multi-Well Pads

1,717

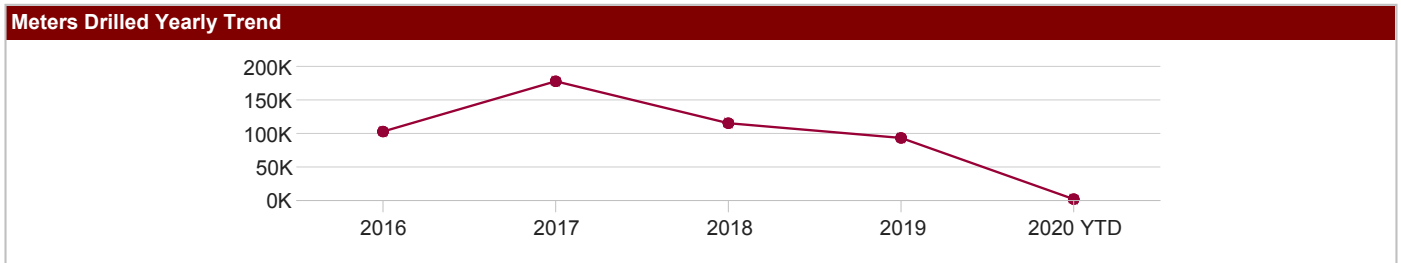
Production (Last 12 calendar months) A single well may produce from multiple well sections each with a unique well identifier (UWI). The count of UWIs reported in this section is not expected to reconcile with the count of unique wells above.

Producing UWIs 2,499	Oil Producing UWIs 454	Gas Producing UWIs 2,492	Condensate Producing UWIs 146
Oil Prod (BOE/day) 8,498	Gas Prod (MMCF/day) 101	Condensate Prod (BOE/day) 71	Water (m3/day) 4,276



Percentage of Provincial Production (Last 12 calendar months)

Overall Prod % 0.59%	Oil Prod % 0.40%	Gas Prod % 0.80%	Condensate Prod % 0.08%
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Meters Drilled (Tabular Data)

2016 102,831

2017 177,767

2018 115,281

2019 93,314

2020 YTD 2,070

Community Outreach

Industry Activity Summary Scorecard

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

Location					
Province	:	Alberta			
Municipality Type	:	Municipality	:	Lacombe County	
Provincial Electoral District	:	Member of the Legislative Assembly (MLA)		:	All
Federal Electoral District	:	Member of Parliament (MP)		:	All

Notes:

Metrics reported in the Industry Activity Scorecard reflect the most recent data available from the sources listed in the accompanying methodology document (link available in html version of this report).

Industry Activity Scorecard

Industry Activity										
	Current Month (Feb 2020)	Previous Month	Variance	Variance %	Previous Quarter	Variance	Variance %	Previous Year	Variance	Variance %
Active Operators	89	89	0	0.00% ▶						
Active Well Licenses	2,599	2,599	0	0.00% ▶						
Suspended Well Licenses	31	31	0	0.00% ▶						
Inactive Well Licenses	1,208	1,208	0	0.00% ▶						
Abandoned Well Licenses	544	544	0	0.00% ▶						
Reclamation Certified & Exempt Well Licenses	1,933	1,933	0	0.00% ▶						
Total Well Licenses	6,318	6,318	0	0.00% ▶						
CAODC Active Rigs	3	3	0	0.00% ▶						
Land Sold in Previous Month (hectares)	8,720	28,088	-19,368	-222.11% ▼						

Community Outreach

Land Rights and Sales

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

Location			
Province	:	Alberta	
Municipality Type	:	All	Municipality : Lacombe County
Provincial Electoral District	:	All	Member of the Legislative Assembly (MLA) : All
Federal Electoral District	:	All	Member of Parliament (MP) : All

Year			
Year Range Start	:	2015	Year Range End : 2019

Date considered for Land Rights: Effective Date

Date considered for Land Sale: Sale Date

Operator	
Operator	: All

Notes:

Land sales information is not present prior to 2006.

Land Rights Summary

LAND RIGHT (Geologic gDC definition): Describes the right to land, either the surface and/ or the mineral rights (track using LAND RIGHT CATEGORY). Land rights may be owned outright (Certificate of Title) or leased through an agreement. Agreements may be either primary (made directly with lessor) or secondary (made with other lessees).

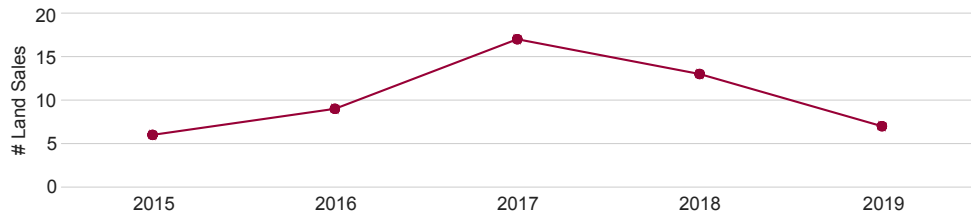
Total Land Rights	Gross Size (Ha)	Land Right Type Distribution	Land Rights associated with Land Sales									
3,677	1,372K <small>Gross size accounts for surface and sub-surface.</small>	<table border="1"> <thead> <tr> <th>Land Right Type</th> <th>Land Rights</th> <th>Gross Size (Ha)</th> </tr> </thead> <tbody> <tr> <td>LAND_AGREEMENT</td> <td style="text-align: center;">991</td> <td style="text-align: center;">1,287,691</td> </tr> <tr> <td>LAND_TITLE</td> <td style="text-align: center;">2,686</td> <td style="text-align: center;">84,022</td> </tr> </tbody> </table>	Land Right Type	Land Rights	Gross Size (Ha)	LAND_AGREEMENT	991	1,287,691	LAND_TITLE	2,686	84,022	982
Land Right Type	Land Rights	Gross Size (Ha)										
LAND_AGREEMENT	991	1,287,691										
LAND_TITLE	2,686	84,022										

Land Sales Summary

LAND SALE (Geologic gDC definition): A public offering of lands for lease. Government lessors usually offer leases through land sales so that resources can be developed. A land sale may be composed of one or many land parcels.

Land Sales	Total Land Sold (Ha)	Total Land Size (Ha)	Total Bonus (\$)	Average \$/Ha
52	972K	1,076K	\$322M	331

Land Sales Trend



Community Outreach

Employment by Industry Report

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

Location			
Province	:	Alberta	
Municipality Type	:	All	Municipality : Lacombe County
Provincial Electoral District	:	All	
Federal Electoral District	:	All	Member of the Legislative Assembly (MLA) : All
			Member of Parliament (MP) : All

Year			
Year Range Start	:	2015	Year Range End : 2019

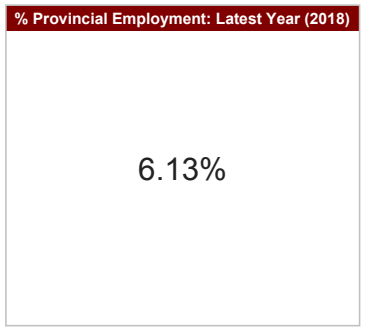
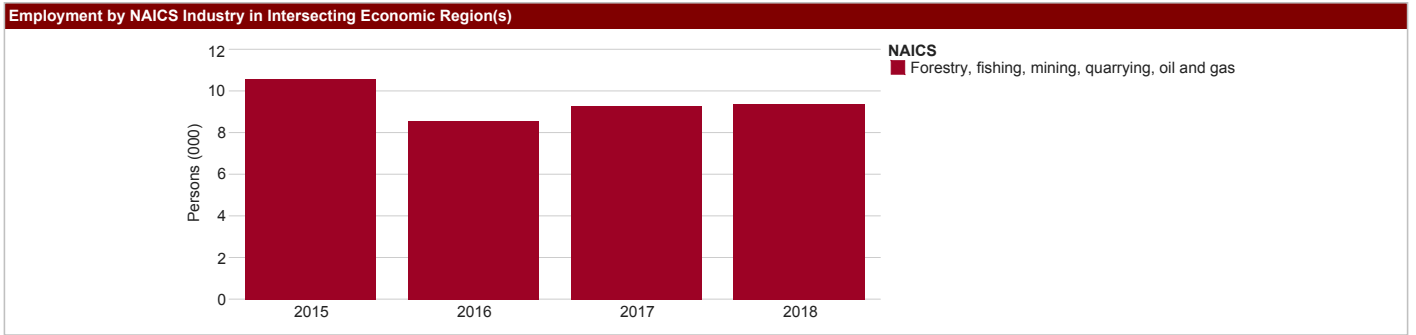
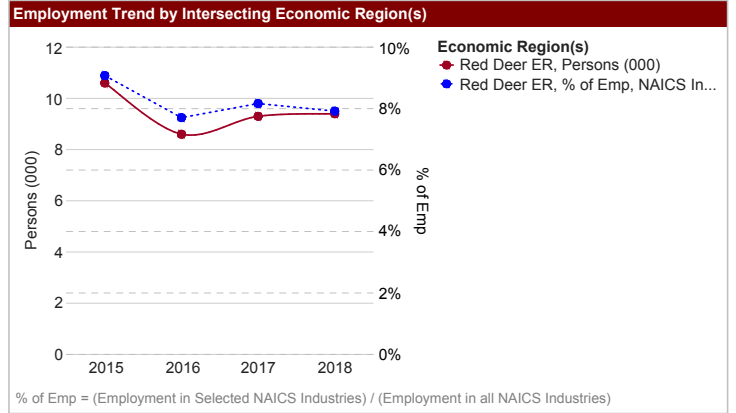
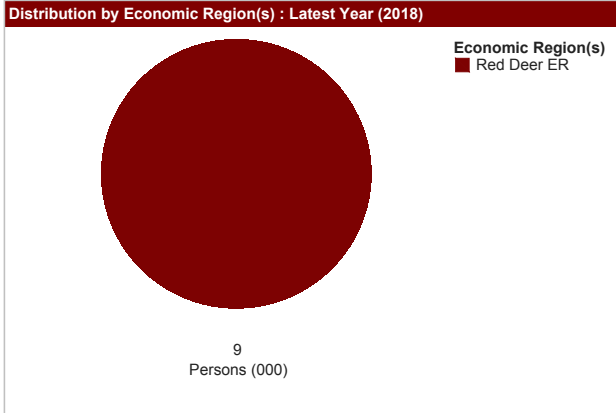
Data is available from 2001 to 2018.

NAICS Industry & Economic Region	
Industries	: Forestry, fishing, mining, quarrying, oil and gas
Economic Regions	: All

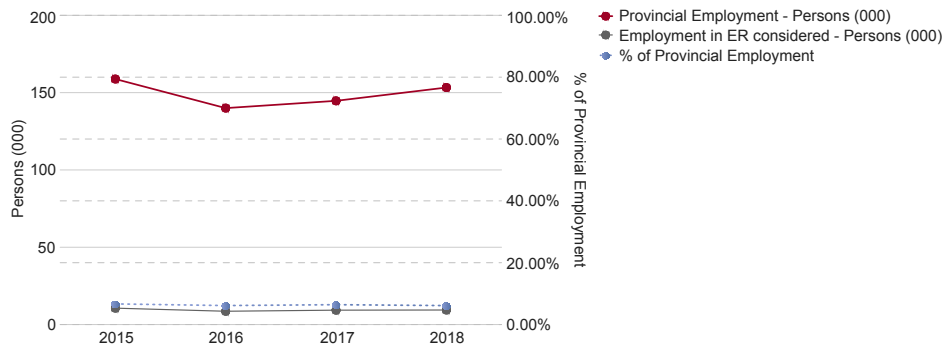
Notes:

Reported values are in 1,000 Persons.
 Data last updated: Jan 23, 2020 (StatCan data updated quarterly)
 Data Source: <https://www150.statcan.gc.ca/t1/tbl1/en/cv.action?pid=1410009201>
<https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=1410031201>: To ensure respondent confidentiality, estimates below a certain threshold are suppressed. For Canada, Quebec, Ontario, Alberta and British Columbia suppression is applied to all data below 1,500. The threshold level for Newfoundland and Labrador, Nova Scotia, New Brunswick, Manitoba and Saskatchewan is 500, while in Prince Edward Island, estimates under 200 are suppressed. For census metropolitan areas (CMAs) and economic regions (ERs), use their respective provincial suppression levels mentioned above. Estimates are based on smaller sample sizes the more detailed the table becomes, which could result in lower data quality.
<https://www150.statcan.gc.ca/t1/tbl1/en/cv.action?pid=1410009201>: An economic region is a geographical unit generally composed of several census divisions within a province. While 73 regions are defined for the purposes of sampling, some areas are too small to enable production of independent estimates from the survey. These small regions are grouped with a neighbouring region with similar economic characteristics. In the case of Prince Edward Island, the province constitutes one economic region. For geographic descriptions of economic regions, refer to the Guide to the Labour Force Survey (catalogue number 71-543-GIE).

Statistics Canada Estimated Employment by intersecting Economic Region(s)



Provincial Trend



Community Outreach

Well Production Summary - OIL

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

Location			
Province	:	Alberta	
Municipality Type	:	All	Municipality : Lacombe County
Provincial Electoral District	:	All	Member of the Legislative Assembly (MLA) : All
Federal Electoral District	:	All	Member of Parliament (MP) : All
Year			
Year Range Start	:	2015	Year Range End : 2019
Production Specific			
Activity Type	:	PRODUCTION	Product Type : Oil
Operator			
Operator	:	All	

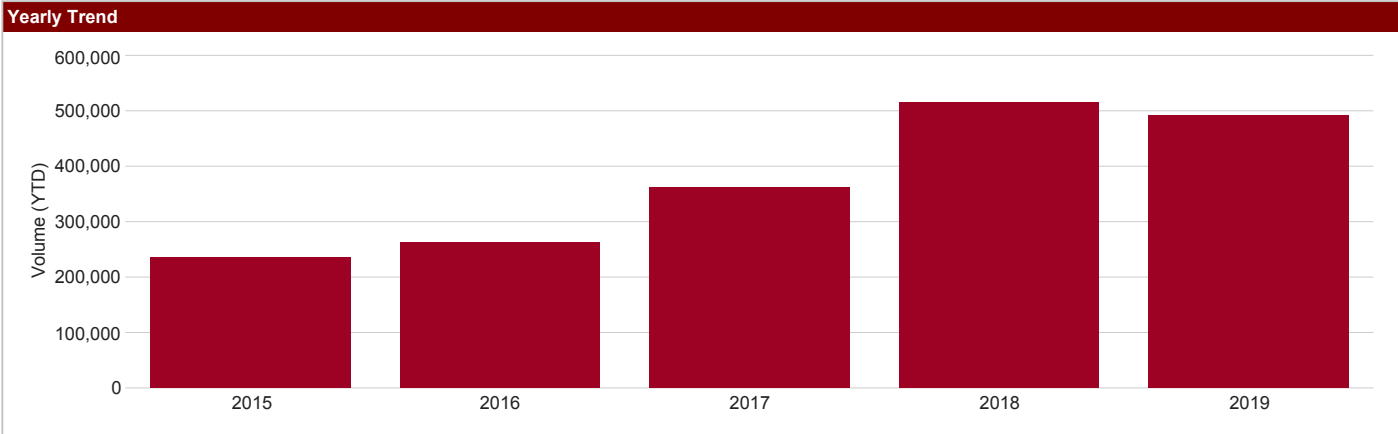
Notes:

All data is sourced from the gDC (Geologic).
Report does not consider production from Oil Sands mining.
Unit of Measurement: m3

Production Summary

Provincial Distribution	
Province	Volume (YTD)
Alberta	1,876,306.2

Top 10 Operators by total BOE	
Operator	Volume (YTD)
VESTA ENERGY LTD.	5,681,745.6
NAL RESOURCES LIMITED	1,914,661.1
CENOVUS ENERGY INC.	1,273,217.5
RALLY CANADA RESOURCES LTD.	404,292.4
ENHANCE ENERGY INC.	332,435.3
JOURNEY ENERGY INC.	279,964.1
DEL CANADA GP LTD.	269,012.6
CANADIAN NATURAL RESOURCES LIMITED	258,815.1
REPSOL OIL & GAS CANADA INC.	214,843.6
GAIN ENERGY LTD.	140,882.9



Community Outreach

Well Production Summary - GAS

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

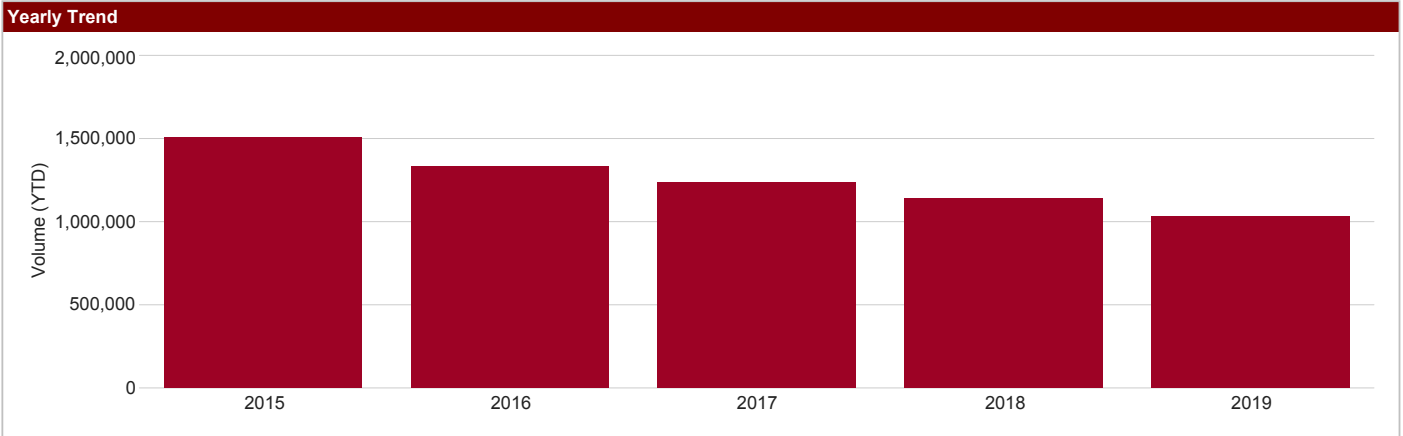
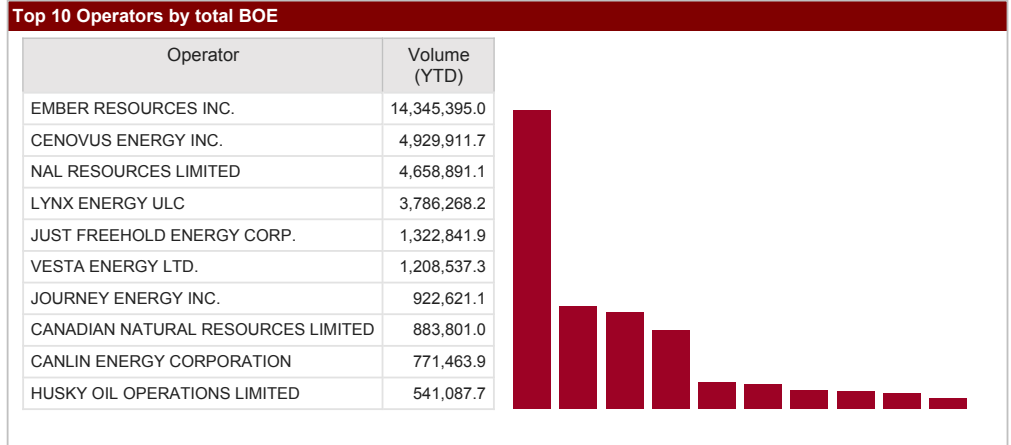
Location			
Province	:	Alberta	
Municipality Type	:	All	Municipality : Lacombe County
Provincial Electoral District	:	All	Member of the Legislative Assembly (MLA) : All
Federal Electoral District	:	All	Member of Parliament (MP) : All
Year			
Year Range Start	:	2015	Year Range End : 2019
Production Specific			
Activity Type	:	PRODUCTION	Product Type : Gas
Operator			
Operator	:	All	

Notes:

All data is sourced from the gDC (Geologic).
 Report does not consider production from Oil Sands mining.
 Unit of Measurement: m3

Production Summary

Provincial Distribution	
Province	Volume (YTD)
Alberta	6,276,792.8



Community Outreach

Well Production Summary - CONDENSATE

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

Location			
Province	:	Alberta	
Municipality Type	:	All	Municipality : Lacombe County
Provincial Electoral District	:	All	Member of the Legislative Assembly (MLA) : All
Federal Electoral District	:	All	Member of Parliament (MP) : All
Year			
Year Range Start	:	2015	Year Range End : 2019
Production Specific			
Activity Type	:	PRODUCTION	Product Type : Condensate
Operator			
Operator	:	All	

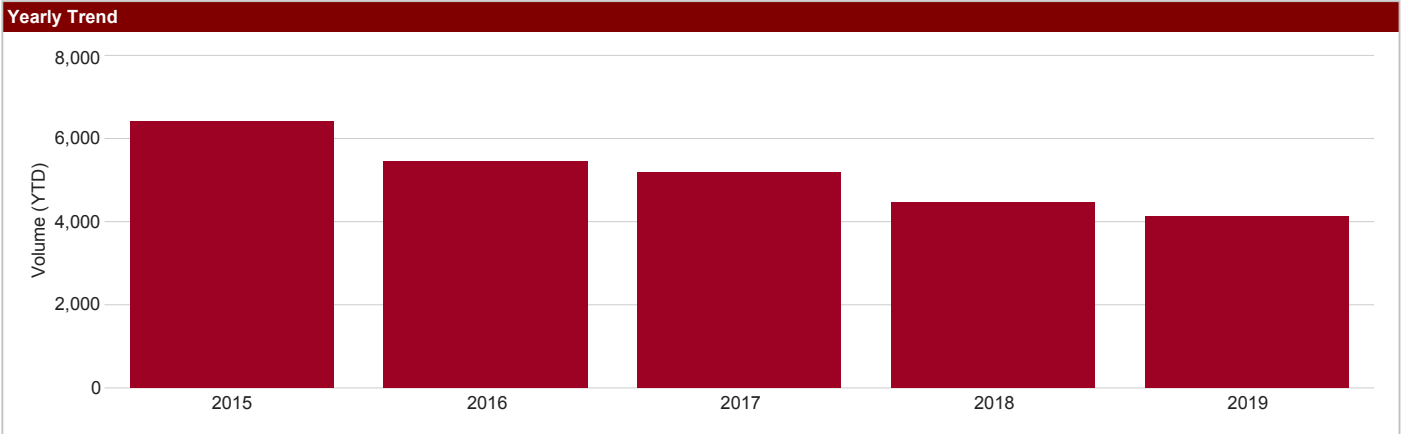
Notes:

All data is sourced from the gDC (Geologic).
Report does not consider production from Oil Sands mining.
Unit of Measurement: m3

Production Summary

Provincial Distribution	
Province	Volume (YTD)
Alberta	25,760.7

Top 10 Operators by total BOE	
Operator	Volume (YTD)
CENOVUS ENERGY INC.	8,105.9
NAL RESOURCES LIMITED	6,453.8
BONAVISTA ENERGY CORPORATION	3,620.0
JOURNEY ENERGY INC.	2,068.9
HUSKY OIL OPERATIONS LIMITED	657.9
CANLIN ENERGY CORPORATION	656.8
JUST FREEHOLD ENERGY CORP.	630.9
GAIN ENERGY LTD.	592.0
POINT LOMA RESOURCES LTD.	527.9
SIGNALTA RESOURCES LIMITED	407.7



Community Outreach

Well Closure

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

Location			
Province	: Alberta	UWI	: All
Municipality Type	: All	Municipality	: Lacombe County
Provincial Electoral District	: All	Member of the Legislative Assembly (MLA)	: All
Federal Electoral District	: All	Member of Parliament (MP)	: All

Operator	
Operator	: All

Notes:

Orphan Wells: source <http://www.orphanwell.ca/about/orphan-inventory/>
 Geospatial processing of 100% of orphan wells is not possible given limitations in the information available. Orphan wells which cannot be geospatially processed are described in the Orphan wells without location category.
 Well Licenses are described by status in the table below. This table includes the status types Reclamation certified and Reclamation exempt which are excluded from consideration in the Well Summary section of the Industry Activity Summary report.

Well Closure

Well License Distribution by Fluid Type (Source: Geologic)

Well Status Fluid Description	Well Licenses	Average Depth (m)
CARBON DIOXIDE	18	1,505
CBM&SHALE&OTHER SOURCES	2	1,026
COALBED METHANE-COALS ONLY	726	779
COALBED METHANE-COALS&OTH LITH	772	814
CRUDE OIL	1,767	2,095
GAS	1,421	1,440
Not Applicable	2,809	1,330
SOLVENT	4	1,507
WASTE	5	2,056
WATER	271	1,821
Overall - Total	6,318	

Well License Status Breakdown (Source: Geologic)

License Status Category	Well Licenses	Average Depth (m)
Active	2,599	1,251
Inactive	1,208	1,768
Suspended	31	1,376
Abandoned	544	1,782
Reclamation Certified & Exempt	1,933	1,438
<Unmapped>	3	4,389
Overall - Summary	6,318	

Provincial % of Inactive Wells

1.39%

Orphan Well Licenses

Orphan Wells Category	Well Licenses	Provincial %
Orphan Wells to be Abandoned	19	0.56%
Orphan Sites Reclaimed	10	1.23%
Orphan Wells to be Suspended	0	0.00%
Orphan Sites under Reclamation	55	2.10%
	84	1.22%

Community Outreach

Labour Force Characteristics by Economic Region

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

Location			
Province	:	Alberta	
Municipality Type	:	All	Municipality : Lacombe County
Provincial Electoral District	:	All	Member of the Legislative Assembly (MLA) : All
Federal Electoral District	:	All	Member of Parliament (MP) : All

Year			
Year Range Start	:	2015	Year Range End : 2019

Data is available from 2001 to 2018.

Economic Region	
Economic Regions	: All



Notes:

Reported values are in 1,000 Persons.

Data last updated: May 16, 2019 (StatCan data updated quarterly)

Data Source: <https://www150.statcan.gc.ca/t1/tbl1/en/cv.action?pid=1410009001>

Employment, Unemployment and Participation Rate by Economic Region(s) : Latest Year (2018)

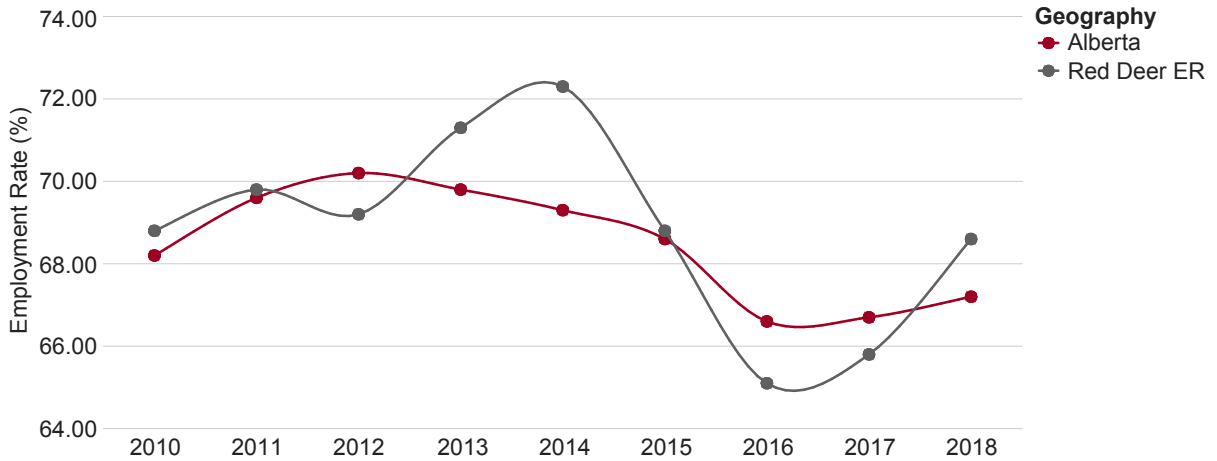
Geography	Employment Rate (%)	Participation Rate (%)	Unemployment Rate (%)
Red Deer ER	68.60	72.50	5.50
Alberta	67.20	71.90	6.60

Labour Force Characteristics (in Persons (000)) by Economic Region(s) : Latest Year (2018)

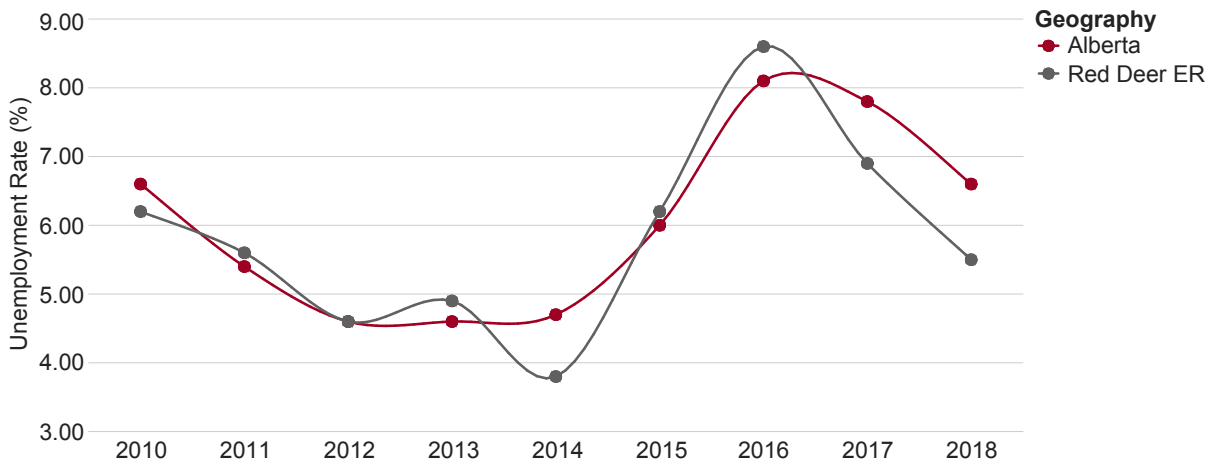
Geography	Labour force	Employment	Full-time employment	Part-time employment	Unemployment	Not in labour force	Population
Red Deer ER	126.3	119.5	96	23.5	6.9	47.9	174.2
Alberta	2,494.8	2,330.7	1,916.3	414.4	164.1	975.6	3,470.4

Note: Considers working age population (Greater than 15 years).

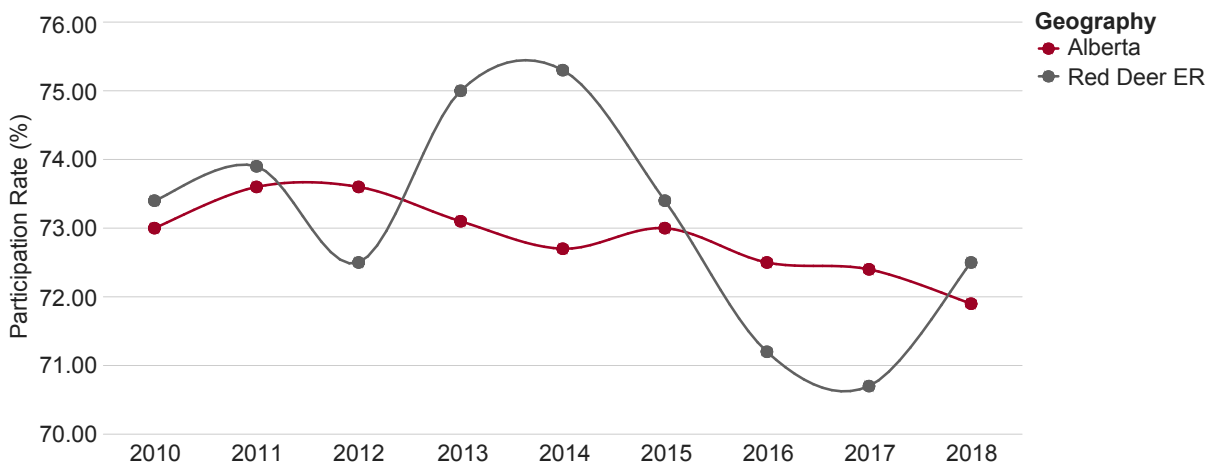
Employment Rate Trend by Intersecting Economic Region(s)



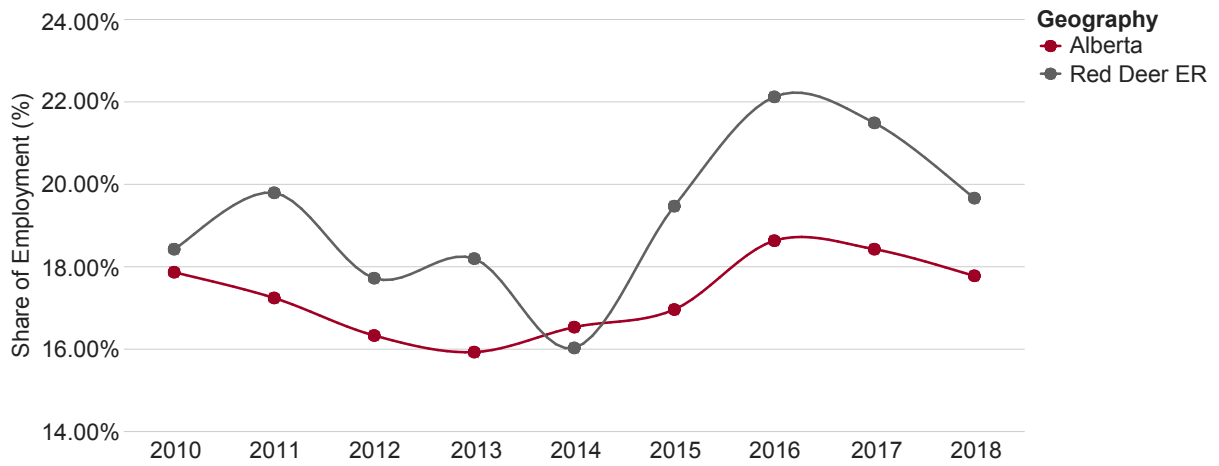
Unemployment Rate Trend by Intersecting Economic Region(s)



Participation Rate Trend by Intersecting Economic Region(s)



Share of Employment: Part-time Employment



Community Outreach

Municipal Tax Report

RELEASE DATE >> Feb 21, 2020

Parameters Selected:

Location	
Province	: Alberta
Municipality Type	: All
Municipality	: Lacombe County

Notes:

Total Revenue and Op. Expenses data is available from 2013 to 2017 only.

Latest Year (2017)

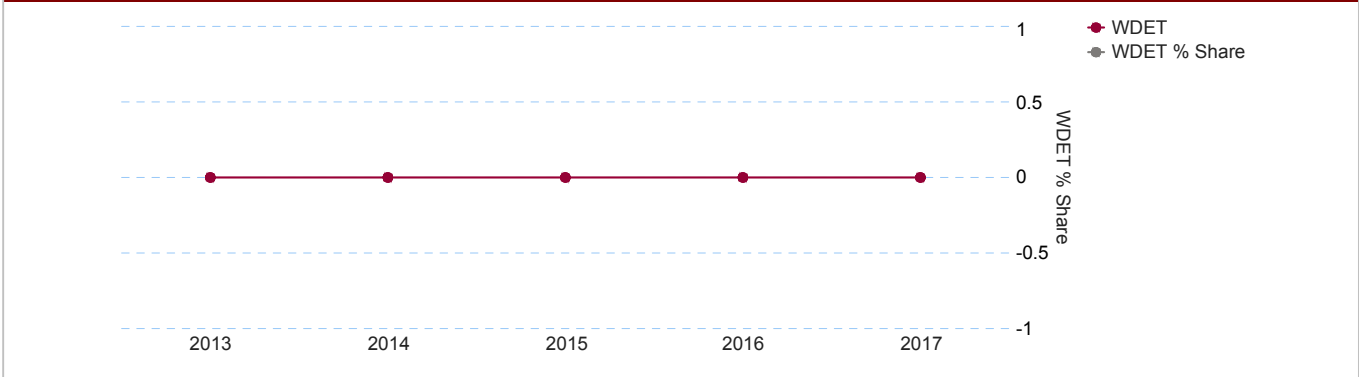
Well Drilling Equipment Tax (WDET)	Linear Property Tax (Wells)	% Share of Property Tax	Total Revenue	Total Op. Expenses
\$0K	Available in Future Release	Available in Future Release	\$43,332K	\$47,455K

Latest Year (2018)

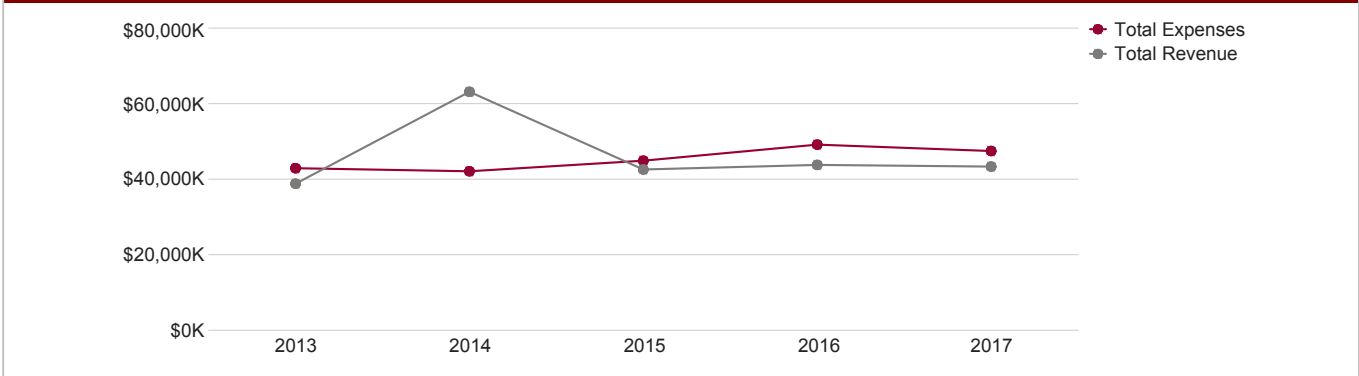
Non-Residential Municipal Tax	Residential Municipal Tax	Mill Rate Ratio
\$23,112K	\$4,564K	2.09

Yearly Trends

Well Drilling Equipment Tax (WDET) Trend



Total Op. Expenses vs Total Revenue Trend



Non-Residential vs Residential Municipal Tax Trend

