

# Metadata for Oil and Gas Surface Land Use



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## Background

The BC Oil and Gas Commission (Commission) is the single window regulatory agency with responsibilities for regulating oil and gas activities in British Columbia. Surface Land Use is a mechanism to measure surface disturbances caused by oil and gas activity and identify the type and land area attributed to historical and current oil and gas activities.

Northeast British Columbia is the location of the majority of oil and gas activity in BC. In this area the BC Oil and Gas Commission has created a dataset that represents the area cleared for oil and gas activities and assigns the area to 1 of 5 oil and gas activity groups, Well/Facility, Roads, Pipelines, Associated and Ancillary (Other Related) Activities and Geophysical (Seismic).

## Overview

Each year the Commission calculates the total surface area used by oil and gas activities. Spatial data for activities submitted prior to July 2016, have been collected and processed to create a static SLU base datasets. The Commission updates SLU base datasets each year with the boundaries for current activities that have had post-construction plans submitted.

## Input Datasets

**Table 1. Data Sources for Base Oil and Gas Surface Land Use Calculations (pre-2007) – Processing completed.**

Oil and Gas Activity Type	Source	File name (DataBC)	Geometry	Timeline	
Well	Well Surface Location	Commission	WHSE_MINERAL_TENURE.OG_SURFACE_HOLE_STATUS_SP	Point	<2007
	Well Pad Boundaries	Commission	OGC_ISR_APP.PAD_WELL	Polygon	<2007
	Well Crown Tenures	DataBC	WHSE_TANTALIS.TA_CROWN_TENURES_SVW	Polygon	<2007
Facility	Facility Crown Tenures	DataBC	WHSE_TANTALIS.TA_CROWN_TENURES_SVW	Polygon	<2007
	Historical				
Road	Development Roads	Commission	WHSE_MINERAL_TENURE.OG_PETRLM_DEV_RDS_PRE06_PUB_SP	Line	<2007
	Pipeline Crown Tenures	DataBC	WHSE_TANTALIS.TA_CROWN_TENURES_SVW	Polygon	<2007
Oil and Gas Activity Type	Other Oil and Gas				
	Crown Tenures	DataBC	WHSE_TANTALIS.TA_CROWN_TENURES_SVW	Polygon	<2007
Geophysical	Historical Seismic Lines	Commission	WHSE_MINERAL_TENURE.OG_GEOPHYSICAL_2002_2006_SP	Line	<2007
	Historical Seismic Lines	Commission	WHSE_MINERAL_TENURE.OG_GEOPHYSICAL_1996_2004_SP	Line	<2007
	Historical Seismic Lines	DataBC	WHSE_BASEMAPPING.TRIM_MISCELLANEOUS_LINES	Line	<2007

Table 2. Data Sources for Oil and Gas Surface Land Use Calculations (Activities 2007 – July 2016). Processing completed.

Oil and Gas Activity Type	Source	File name (DataBC)	Geometry	Timeline	
Well	Well Sites	Commission	WHSE_MINERAL_TENURE.OG_WELL_SITES_PUB_SP	Polygon	>2006
	Well Surface Location	Commission	WHSE_MINERAL_TENURE.OG_SURFACE_HOLE_STATUS_SP	Point	>2006
	Well Pad Boundaries	Commission	OGC_ISR_APP.PAD_WELL	Polygon	>2006
Facility	Facility Sites	Commission	WHSE_MINERAL_TENURE.OG_FACILITY_SITES_GOV_SP	Polygon	>2006
	Facility Crown Tenures	DataBC	WHSE_TANTALIS.TA_CROWN_TENURES_SVW	Polygon	>2006
Road	Road Rights of Way	Commission	WHSE_MINERAL_TENURE.OG_ANCILLARY_OTHER_APPS_PUB_SP	Polygon	>2006
	Access Roads	Commission	WHSE_MINERAL_TENURE.OG_PETRLM_ACCESS_ROADS_PUB_SP	Line	>2006
	Development Roads	Commission	WHSE_MINERAL_TENURE.OG_PETRLM_DEV_ROADS_PUB_SP	Line	>2006
Pipeline	Pipeline Rights of Way	Commission	WHSE_MINERAL_TENURE.OG_PIPELINE_RW_PUB_SP	Polygon	>2006
	Other Applications	Commission	WHSE_MINERAL_TENURE.OG_ANCILLARY_OTHER_APPS_PUB_SP	Polygon	>2006
Geophysical	Seismic Lines	Commission	WHSE_MINERAL_TENURE.OG_GEOPHYSICAL_PUB_SP	Line	>2006

Table 3. Data Sources for Yearly Updates to Oil and Gas Surface Land Use Calculations (Activities July 2016 - Current). Ongoing.

Oil and Gas Activity Type	Source	File name (DataBC)	Geometry	Timeline	
Well & Facility	Well/Facility Pads	Commission	WHSE_MINERAL_TENURE.OG_WELL_FACILITY_PERMIT_SP	Polygon	>2006
	Road Rights of Way	Commission	WHSE_MINERAL_TENURE.OG_ASSOC_ANCILLARY_PERMIT_SP	Polygon	>2006
Road	Access Roads	Commission	WHSE_MINERAL_TENURE.OG_ROAD_AREA_PERMIT_SP	Polygon	>2006
Pipeline	Pipeline Rights of Way	Commission	WHSE_MINERAL_TENURE.OG_PIPELINE_AREA_PERMIT_SP	Polygon	>2006
Other Oil and Gas Activity	Ancillary and Other Applications	Commission	WHSE_MINERAL_TENURE.OG_ASSOC_ANCILLARY_PERMIT_SP	Polygon	>2006
Geophysical	Seismic Lines	Commission	WHSE_MINERAL_TENURE.OG_GEOPHYSICAL_PERMIT_SP	Line	>2006

## Data Dictionary

Attributes / Column Name	Data Type	Data Precision	Alias	Comments
CODE_OG	Short Integer	5	Surface Land Use Code	Code Values 1 to 6
CODE_DESC	TEXT	25	Surface Land Use Code Description	1 – Well Site Facility 3 – Road 4 – Pipeline 5 – Ancillary 6 - Geophysical
SLU_DATE	Date		Surface Land Use Date	Date Surface Land Use Dataset was generated

## Renewal Triggers and Service Levels

1. Annually (typically in Spring)

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