

# **MINERAL LAND INDEX SEARCH**

## **Detailed Descriptions**

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# **LSAS - MINERAL RESOURCES SEARCHES**

## **INTRODUCTION**

The Land Status Automated System (LSAS) forms the official departmental record of all instruments recorded, pursuant to the Mines and Minerals Act, that grant or reserve rights to a crown mineral. The Mineral Subsystem of LSAS is maintained and administered by Alberta Department of Energy, Crown Land Data Support.

Land Status Automated System (LSAS) is a computerized database system that provides information on Public Lands (surface) and Crown Minerals in Alberta. This data is essential to the management of agreements that cover crown resources. Data is retrieved through computer terminals distributed throughout Energy, Sustainable Resource Development and other provincial Government departments. Crown Land Data Support is responsible for updating corporate data and training, as well as system maintenance and development in conjunction with the system analysts. The powerful automated database of LSAS permits the departments using land data to better serve the needs of the public.

The primary applications of the system are: (a) to provide access to accurate and timely information relating to public land, and surface and mineral interests on crown land. This is provided through direct terminal access for government agencies. The Public sector can access this data by the provision of hard copy reports on request or access to the Electronic Transfer System (ETS) which provides search capabilities through the Internet. And (b) to support the data capture requirements of government departments through the input and maintenance of their data, e.g. all activities and land for Sustainable Resource Development, mineral agreements for Alberta Department of Energy.

Examples of the administrative processes supported by LSAS are: access to land standing information, data recording and maintenance, application approval, disposition review and statistical/management reporting.

The data components include:

- (a) clients - all clients having an interest in Public Lands or Crown Minerals;
- (b) activities - all surface dispositions, mineral agreements, etc.
- (c) land - all Alberta township land and public subdivided land defined by a plan block lot reference
- (d) geo administrative areas - such as provincial parks, special areas, etc.

Searches described in this book.

- 1) Land Index Search (LSAS Township Search)
- 2) Land Index Search by Client ID

This publication provides samples of these search formats available from the Mineral subsystem, the applicable fees and explanations of the various data fields contained within each report.

**All agreements and data displayed within these samples are for illustrative purposes only. All persons making use of this publication are advised that the material does not have any legislative or official government sanction, and accordingly is not binding in any way upon the Government of Alberta, and, in particular, ALBERTA DEPARTMENT OF ENERGY**

For further information or to request searches, please contact

ALBERTA DEPARTMENT OF ENERGY /Crown Land Data Support

3<sup>rd</sup> Floor 9945 – 108 Street  
Edmonton, Alberta, Canada T2P 3W2  
TELEPHONE: (780) 422 - 5727  
E-mail inquiries can be sent to:  
[crownlanddatasupport@gov.ab.ca](mailto:crownlanddatasupport@gov.ab.ca)

Or from the

Electronic Transfer System (ETS) at [WWW.energy.gov.ab.ca](http://WWW.energy.gov.ab.ca)

## **LAND INDEX SEARCH (LSAS TOWNSHIP SEARCH)**

This report will be used to search by land description. Specific agreement number(s) are not required. Report will provide if selected, Agreements, Units, Wells, Restrictions, Fields, Projects, DRRZD/ZDs, Well Spacing & Units

1) Request requirements

- A) Land description must be supplied with meridian - range – township.
- B) Individual section(s), ranges of sections, quarter section(s) may also be requested.  
e.g.,  
5 - 01 - 067 (entire township)  
5 - 01 - 067 : 2 (entire Section 2)  
5 - 01 - 067 : 2NE (only NE quarter of Section 2)
- C) Maximum of 216 land keys or 6 complete townships may be entered. A land key is a range of sections, section, half section or quarter section.
- D) If only specific agreement types are required, the types must be specified (see table AGRTYPE).

2) Report Sort

Both summary and detail report will be sorted in section number order within a township.

Summary search returns information on each mineral agreement found for the specified parcel(s) of land. The agreement information is displayed as a summary line containing the agreement type, agreement number, type description, status, and various dates regarding the term of the agreement.

Detail search returns each mineral agreement that matches the search criteria and includes details for the agreements, units, DRRZD/ZD, fields, projects, restrictions and crown mineral ownership. The agreement information includes; the agreement status, agreement area, various dates, the term of the agreement, term adjustments, related agreements, service address, current participants, land/zone description, and production entity activity.

3) Fee

\$ 30.00 regardless whether a Detail or Summary report is requested.

LAND STATUS AUTOMATED SYSTEM  
PARAMETERS FOR 162S LAND INDEX SEARCH  
DRD-LSAS  
REPORT DATE: 2005-01-01 TIME: 14:03:03

LSRCCBAN  
PAGE = 1

----- ADHOC REPORT SUBMISSION OPTION PARAMETERS -----  
REQUESTED BY USER: LSASI31 NOTIFY: SEARCH JOB CREATION TIME: 14:02:12

PRINTER: TERXXX  
PRIORITY: HIGH (IMMEDIATE)  
COPIES: 01  
BURST: N  
REPORT TYPE: S

----- PARAMETER SELECTION -----  
INCLUDE AGREEMENTS Y  
INCLUDE DRRZD/ZD Y  
REPORT TYPE (A)GREETMENTS (D)DETAIL (B)OTH D  
INCLUDE FIELDS Y  
INCLUDE PSU/BLOCK/PROJECT ETC. Y  
RESRVD/WITH & RESTRICTION (R)ESRVD (B)OTH (N)O B  
INCLUDE UNITS Y  
INCLUDE WELLS Y

----- AREAL EXTENT LAND KEYS -----  
5-01-067 TO 5-01-067: 02 - 02 SE

\*\*\* END OF PARAMETER

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## SUMMARY SHOWN

**To see the detail information, Please see the Mineral Agreement Detailed Descriptions Book.**

1 LAND STATUS AUTOMATED SYSTEM  
DRD-LSAS LAND INDEX SEARCH  
REPORT DATE: 2005-01-01 TIME: 14:03:40

LFAS162S  
PAGE = 1

LAND DESCRIPTION	SUBSTANCE	CURRENT OWNERSHIP
5-01-067: 1	ALL MINRLS	NON ALBERTA CROWN
5-01-067: 2	ALL MINRLS	ALBERTA CROWN
5-01-067: 13NE	COAL	ALBERTA CROWN
5-01-067: 13NE	ALL OTHERS	NON ALBERTA CROWN
5-01-067: 13S,NW	ALL MINRLS	NON ALBERTA CROWN

\*\*\* ABOVE OWNERSHIP DOES NOT INCLUDE GOLD AND SILVER \*\*\*

2 LAND STATUS AUTOMATED SYSTEM  
 DRD-LSAS LAND INDEX SEARCH  
 REPORT DATE: 2005-01-01 TIME: 14:03:40

LFAS162S  
 PAGE = 1

AGREEMENT TYPE	AGREEMENT NUMBER	STATUS	STATUS DESCRIPTION	TERM DATE	ORIGINAL EXPIRY DATE	CURRENT EXPIRY DATE	CANCELLATION REASON
A93 APPL-MET. AND IND. MINERALS PERMIT		971693	5 ACTIVE	1997-02-21			
001 PNG LEASE		18460	5 ACTIVE	1969-05-02	1979-05-02	INDEFINITE	
002 PNG LEASE		1255	5 ACTIVE	1970-12-09	1991-12-09	INDEFINITE	
TOTAL NUMBER OF AGREEMENTS SELECTED:		3					

3 LAND STATUS AUTOMATED SYSTEM  
 ENR-LSAS LAND INDEX SEARCH  
 REPORT DATE: 2005-01-01 TIME: 09:48:16

LFAS162S  
 PAGE = 1

FIELD ID	FIELD NAME	STATUS	STATUS DESCRIPTION	EFFECTIVE DATE
0044	ALKALI	5	ACTIVE	1982-11-04
TOTAL NUMBER OF FIELDS SELECTED:		1		

4 LAND STATUS AUTOMATED SYSTEM  
 ENR-LSAS LAND INDEX SEARCH  
 REPORT DATE: 2005-01-01 TIME: 09:51:29

LFAS162S  
 PAGE = 1

PRODUCTION ENTITY ID	CODE DESCRIPTION	PSU/BLOCK/PROJECT/ETC NAME	STATUS	STATUS DESCRIPTION
01257 0	2 BLOCK	AEC GAS BLOCK NO. 1 - DEEPER ZONES	7	CANCELLED
81801 0	2 BLOCK	AEC GAS BLOCK NO. 1 - SHALLOW ZONES	7	CANCELLED
TOTAL NUMBER OF PSU, ETC. SELECTED:		2		



---

8 LAND STATUS AUTOMATED SYSTEM  
 ENR-LSAS LAND INDEX SEARCH LFA5162S  
 REPORT DATE: 2005-01-01 TIME: 09:51:29 PAGE = 1

RESTRICTION ID	NAME	RESTRICTION TYPE	STATUS	RIGHTS/ACCESS LEVEL	AREA	SECRTY TYPE	TEXT ID	CONTACT CODE
PDR 0016 01	MERIDIAN	PROPOSED DAM & RESERVOIR	5	1	0.0000	P	ENV 04	EV52
CFB 0005 02	SUFFIELD	CANADIAN FORCES BASE	5	3	0.0000	P	FDR 12	D001

RESTRICTIONS SELECTED: 2 HECTARAGE SELECTED: 0.0000

---

LAND STATUS AUTOMATED SYSTEM  
 ENR-LSAS LAND INDEX SEARCH LFA5162S  
 REPORT DATE: 2005-01-01 TIME: 09:51:29 PAGE = 1

RESTRICTION ID	NAME	RESTRICTION TYPE	STATUS	RIGHTS/ACCESS LEVEL	AREA	SECRTY TYPE	TEXT ID	CONTACT CODE
CFB 0005 03	SUFFIELD	CANADIAN FORCES BASE	5	4	0.0000	P	FDR 05	EN13

RESERVED FROM DISPOSITION SELECTED: 1 HECTARAGE SELECTED: 0.0000  
 TOTAL SELECTED: 3 TOTAL HECTARAGE SELECTED: 0.0000

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9 LAND STATUS AUTOMATED SYSTEM  
 ENR-LSAS LAND INDEX SEARCH LFA5162S  
 REPORT DATE: 2005-01-01 TIME: 09:51:29 PAGE = 1

WELL SPACING APPENDIX ID	NAME	WELL SPACING DETAIL EFFECTIVE DATE	TYPE	WELL SPACING APPENDIX SPACING	WELL SPACING APPENDIX SUB POOL/FORMATION NAME
SU 4004 A3 01	MEDICINE HAT	2002-05-24	SPACING UNIT	1/4 SECTION	NG BELLY RIVER GRP
SU 4004 D3 01	MEDICINE HAT	2002-04-25	SPACING UNIT	2 LEGALS - E/W O	NG MILK RIVER FM

TOTAL NUMBER OF WELL SPACING DETAILS SELECTED: 2  
 TOTAL NUMBER OF WELL SPACING APPENDIX(S) SELECTED: 2

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10\*\*\*\*\*

CROWN MINERAL OWNERSHIP

\*\*\*\*\*

DETAIL SHOWN of the CROWN MINERAL OWNERSHIP

LAND STATUS AUTOMATED SYSTEM  
CROWN MINERAL OWNERSHIP DETAIL

ENR-LSAS  
REPORT DATE: 2005-01-01 TIME: 08:23:52

LFAS5000  
PAGE 1

LAND DESCRIPTION: 4-01-067: 3

LAST UPDATE DATE: 2003 12 16

SUBSTANCE:  
CODE NAME:  
30 ALL MINERALS  
\*\*\* ABOVE OWNERSHIP DOES NOT INCLUDE GOLD AND SILVER \*\*\*

CURRENT OWNERSHIP  
NON ALBERTA CROWN

LAND DESCRIPTION: 4-01-067: 2;4;6-7;9-12;14;16;18;20;22;24;28-30;32;34;36

LAST UPDATE DATE: 2001 01 01

SUBSTANCE:  
CODE NAME:  
30 ALL MINERALS  
\*\*\* ABOVE OWNERSHIP DOES NOT INCLUDE GOLD AND SILVER \*\*\*

CURRENT OWNERSHIP  
ALBERTA CROWN

LAND DESCRIPTION: 4-01-067: 5N;15;25N

LAST UPDATE DATE: 2003 12 16

SUBSTANCE:  
CODE NAME:  
04 COAL  
30 ALL MINERALS  
\*\*\* ABOVE OWNERSHIP DOES NOT INCLUDE GOLD AND SILVER \*\*\*

CURRENT OWNERSHIP  
ALBERTA CROWN  
ALBERTA CROWN/NON CROWN

\*\*\*\*\*

THIS SEARCH IS PROVIDED ON THE CONDITION AND UNDERSTANDING THAT HER MAJESTY THE QUEEN IN RIGHT OF ALBERTA IS IN NO WAY RESPONSIBLE FOR LOSS OR DAMAGE ARISING FROM ANY ERRORS OR OMISSIONS IN THIS SEARCH AND ANY PERSON MAKING USE OF OR RELYING IN ANY WAY ON THIS SEARCH HEREBY RELEASES HER MAJESTY THE QUEEN IN RIGHT OF ALBERTA FROM ANY LIABILITY FOR SUCH LOSS OR DAMAGE.

\*\*\*\*\*

# Data Fields Within the Mineral Resources Land Index Search

## 1 REPORT HEADING

### CROWN MINERAL OWNERSHIP SUMMARY

REPORT DATE AND TIME: Date and time Search was generated by the Land Status Automated System (LSAS).

LAND DESCRIPTION: Describes requested lands by meridian, range, township, section(s) and part of section(s) which have a common ownership. (See LSAS Land Formats).

SUBSTANCE: Substances which have common ownership described.

CURRENT OWNERSHIP: Describes who has current ownership. e.g. non crown, national park.

## 2 AGREEMENT TYPE SUMMARY

REPORT DATE AND TIME: Date and time Mineral Agreement Search was generated by the Land Status Automated System (LSAS).

AGREEMENT TYPE / NUMBER: The first three characters identifies the agreement type, e.g., applications, postings or agreements (see table AGRTYPE).

The remaining characters are a unique agreement number assigned by The Department of Energy.

For a 10 - Digit Agreement Number

1st and 2nd Digits	Equivalent to last two digits of the agreement type.
3rd and 4th Digits	Year in which term commences (last two digits only).
5th and 6th Digits	Month in which term commences.
7th Digit	0 (zero) to indicate original agreement; A, B, C, etc., to indicate a divided or partially transferred agreement prior to 1994
8th, 9th, and 10th Digits	Sequence of agreements issued in month.

STATUS: Describes the current standing of the agreement, e.g. active, cancelled (see table ENSTATS).

STATUS DESCRIPTION: Description of the agreement status.

TERM DATE: Commencement date of the agreement.

ORIGINAL EXPIRY DATE: Date original term expired.

CURRENT EXPIRY DATE: Date term expires or the date to which the agreement continues.

CANCELLATION REASON: Describes the reason for the cancellation of an agreement.

### **3 FIELD SUMMARY**

REPORT DATE AND TIME: Date and time Mineral Agreement Search was generated by the Land Status Automated System (LSAS).

FIELD ID/FIELD NAME : The first four characters identifies the field id. The remaining characters are the field name.

STATUS / DESCRIPTION: Describes the current standing of the field, e.g., active, cancelled (see table ENSTATS).

EFFECTIVE DATE: The date that a field became effective and was assigned a field id number.

### **4 PRODUCTION ENTITY ID SUMMARY**

REPORT DATE AND TIME: Date and time Mineral Agreement Search was generated by the Land Status Automated System (LSAS).

PRODUCTION ENTITY ID NUMBER: A unique number for the purpose of collecting royalties, that has been assigned by Mineral Revenues to identify producing PNG wells that are within an approved operation. eg. Unit, project, block.

CODE DESCRIPTION: Code used to describe the type of Production Entity.

PSU/BLOCK/PROJECT/ETC NAME: Description of the Production Entity.

STATUS / DESCRIPTION: Describes the current standing of the Production Entity, e.g., active, cancelled (see table ENSTATS).

### **5 UNIT SUMMARY**

REPORT DATE AND TIME: Date and time Mineral Agreement Search was generated by the Land Status Automated System (LSAS).

UNIT / TYPE NUMBER: The first three characters identifies the unit type. The remaining characters are a unique unit number assigned by The Department of Energy. (see table AGRTYPE)

STATUS / DESCRIPTION: Describes the current standing of the unit, e.g., active, cancelled (see table ENSTATS).

EFFECTIVE DATE: The date that a unit became effective and is assigned a unit number.

EXECUTION DATE: The date that the Department of Energy signs the agreement.

TERMINATION DATE: The date a unit is terminated and no longer effective.

PRODUCTION ENTITY ID: A unique number for the purpose of collecting royalties, that has been assigned by Mineral Revenues to identify producing PNG wells that are within an approved operation. eg. Unit, project, block.

## 6 DRRZD / ZD SUMMARY

REPORT DATE AND TIME: Date and time Mineral Agreement Search was generated by the Land Status Automated System (LSAS).

DEEPER RIGHTS REVERSION ZONE DESIGNATION (DRRZD) / ZONE DESIGNATION (ZD):

A unique ID number assigned by the Energy and Utilities Board.

A Zone Designation (ZD) designates a lithostratigraphic zone described specifically by the depths identified in a particular well. ZDs are used, for instance, to describe the zones included in natural gas leases. When a ZD is being used the depths and the interval take precedence over the name given to the zone.

A Deeper Rights Reversion Zone Designation (DRRZD) identifies a zone by its name. As noted in EUB Decision 95-10, *historically the name of the zone identified within type wells takes precedence over the depths identified in terms of utilizing a DRRZD.*

TYPE: Describes the type of zone designation. Deeper Rights Reversion Zone Designation (DRRZD) / Zone Designation (ZD)

STATUS: 1 digit code that describes the current standing of a DRRZD/ZD.

STATUS DESCRIPTION: Describes the current standing of a DRRZD/ZD.

ZONE CODE: 4 digit numerical code assigned by Energy and Utilities Board to a specific geological formation or zone.

ZONE DESCRIPTION: Zone name referring to a 4 digit numerical code assigned by Energy and Utilities Board.

KEY WELL: Specific unique well identifier used by the Energy and Utilities Board in describing the stratigraphy of the referenced zone.

## 7 WELL DATA SUMMARY

REPORT DATE AND TIME: Date and time Mineral Agreement Search was generated by the Land Status Automated System (LSAS).

WELL ID: A unique well identifier which provides the approximate geographical location of the bottom of a drill hole.

STATUS: Describes the current standing of the well

DESCRIPTION: Describes the current status of the well.

## 8 RESTRICTION SUMMARY

REPORT DATE AND TIME: Date and time Mineral Agreement Search was generated by the Land Status Automated System (LSAS).

RESTRICTION ID: Key ID identifying the specific restriction detail, comprised of the classification type and number and a two digit numeric for each specific detail within the classification e.g. BSA 0001 01 Pakowki Lake

Bird Sanctuary Detail 01 ( table RESTTYP5)

OR

RESERVED/WITHDRAWN FROM DISPOSITION: Has the same data fields as Restriction Id. Withdrawn means the land /subsurface rights are permanently withdrawn from disposition. Reserved means the land /subsurface rights are temporarily withdrawn from disposition

RESTRICTION NAME: Identifies the restriction by name e.g. Pakowki Lake Bird Sanctuary

RESTRICTION TYPE: Identifies the restriction by type e.g. Bird Sanctuary

STATUS: Describes the status of the restriction.

RIGHTS / ACCESS LEVEL: Describes the level of the restriction detail. e.g. surface access is not permitted. (see table RESTACCS)

AREA: The total area of the restriction.

SECURITY TYPE: Describes the security level of the restriction detail e.g. public. (see table RESTSECR)

TEXT ID: A five digit code e.g. ENR01 where the first three characters describe the department or agency responsible for the restriction (see table RESTAGCY) followed by a two digit consecutive number.

CONTACT CODE: Is a four character code e.g. W001 which provides the contact name and their telephone number (on detailed reports). This person is responsible for the addendum and a source of information on the exact nature of the addendum.

## **9 WELL SPACING SUMMARY**

REPORT DATE AND TIME: Date and time Mineral Agreement Search was generated by the Land Status Automated System (LSAS).

WELL SPACING APPENDIX ID: Is the number allocated to a Spacing Unit Order assigned by the Energy and Utilities Board. (EUB)

NAME: Name of the well spacing unit.

EFFECTIVE DATE: Date the well spacing unit became effective.

TYPE: Describes the type of spacing unit.

WELL SPACING APPENDIX SPACING: Indicates what land area is affected by the special spacing and the orientation e.g. ½ section E/W orientation.

SUB POOL/FORMATION NAME: Describes substance(s) and zone(s) name.

## **10 CROWN MINERAL OWNERSHIP DETAIL**

**REPORT DATE AND TIME:** Date and time Search was generated by the Land Status Automated System (LSAS).

**LAND DESCRIPTION:** Describes requested lands by meridian, range, township, section(s) and part of section(s) which have a common ownership. (See LSAS Land Formats).

**LAST UPDATE DATE:** Last date any data was updated on the land for Crown Mineral Ownership.

**SUBSTANCE and CODE NAME:** Substances which have common ownership described.

**CURRENT OWNERSHIP:** Describes current ownership. Example: non crown, national park.

**DISCLAIMER:** See sample in the report.

## LAND INDEX SEARCH BY CLIENT ID

This report will be used to search by land description and client id, specific agreement number(s) are not required. Report will provide if selected, Agreements, Units, Wells, Restrictions, Fields, Projects, DRRZD/ZDs, Well Spacing & Units.

- 1) Request Requirements
  - A) Client Id(s). Maximum of 6 client ids per request.
  - B) Land description must be supplied with meridian - range - township  
  
Individual section(s), ranges of sections, quarter section(s) may also be requested.  
e.g.,  
  
5 - 01 - 067 (entire township)  
5 - 01 - 067 : 2 (entire Section 2)  
5 - 01 - 067 : 2NE (only NE quarter of Section 2)
  - C) Maximum of 216 land keys or 6 complete townships may be entered. A land key is a range of sections, section, half section or quarter section.
  - D) Summary or Detail Report

Summary search returns information on each mineral agreement found for the specified parcel(s) of land. The agreement information is displayed as a summary line containing the agreement type, agreement number, type description, status, and various dates regarding the term of the agreement.

Detail search returns each mineral agreement that matches the search criteria and includes details for the agreements, units, DRRZD/ZD, fields, projects, restrictions and crown mineral ownership. The agreement information includes; the agreement status, agreement area, various dates, the term of the agreement, term adjustments, related agreements, service address, current participants, land/zone description, and production entity activity.

- 2) Report Sort  
  
Sorted by Agreement Type/Number.
- 3) Fee  
  
\$ 30.00 Maximum of 6 client ids per request.

REPORT DATE: 2005-01-01 TIME: 14:03:03

----- ADHOC REPORT SUBMISSION OPTION PARAMETERS -----

REQUESTED BY USER: LSASI31 NOTIFY: SEARCH JOB CREATION TIME: 14:02:12

PRINTER: TERXXX  
PRIORITY: HIGH (IMMEDIATE)  
COPIES: 01  
BURST: N  
REPORT TYPE: S

----- PARAMETER SELECTION -----

CLIENTS/CLIENT ADDRESSES (ALL) 8019369 001  
INCLUDE AGREEMENTS Y  
INCLUDE DRRZD/ZD N  
REPORT TYPE (A)GREETMENTS (D)ETAIL (B)OTH D  
INCLUDE FIELDS N  
INCLUDE PSU/BLOCK/PROJECT ETC. N  
RESRVD/WITH & RESTRICTION (R)ESRVD (B)OTH (N)O N  
INCLUDE UNITS N  
INCLUDE WELLS N

----- AREAL EXTENT LAND KEYS -----

5-01-067 TO 5-01-067: 02 - 02 SE

----- SORT BREAK CRITERIA -----

ELEMENT NAME	SORT LEVEL
CLIENTS/CLIENT ADDRESSES	1
SORT LEVEL FROM WHICH TOTALLING BEGINS:	1
SORT LEVEL FROM WHICH BREAKS OCCUR:	1

\*\*\* END OF PARAMETER LIST \*\*\*

**SUMMARY SHOWN**

**To see the detail information, Please see the Mineral Agreement Detailed Descriptions Book.**

DRD-LSAS		LAND STATUS AUTOMATED SYSTEM LAND INDEX SEARCH BY CLIENT ID								LFAS162S PAGE = 1	
REPORT DATE: 2005-01-01 TIME: 14:03:40											
AGREEMENT TYPE	AGREEMENT NUMBER	STATUS	STATUS DESCRIPTION	TERM DATE	ORIGINAL EXPIRY DATE	CURRENT EXPIRY DATE	CANCELLATION REASON	AGREEMENT AREA (HA)		CLIENT HECTARES	
001	PNG LEASE	18460	5	ACTIVE	1969-05-02	1979-05-02	INDEFINITE	256.0000	256.0000	21.3332	
002	PNG LEASE	1255	5	ACTIVE	1970-12-09	1991-12-09	INDEFINITE	256.0000	256.0000	21.3332	
2 ← --- AGREEMENT COUNT								512.0000	512.0000	42.6664	
ABOVE TOTALS FOR THE SORT SEQUENCE:											
CLIENT ID # 8019369 001 CLIENT NAME : I.XL INDUSTRIES LTD.											
2 ← --- AGREEMENT COUNT								512.0000	512.0000	42.6664	
*** END OF REPORT ***											

# Data Fields Within the Mineral Resources Land Index Search by Client id

## REPORT HEADING

## AGREEMENT SUMMARY

REPORT DATE AND TIME: Date and time Mineral Agreement Search was generated by the Land Status Automated System (LSAS).

AGREEMENT TYPE / NUMBER: The first three characters identifies the agreement type, e.g., applications, postings or agreements (see table AGRTYPE).

The remaining characters are a unique agreement number assigned by the The Department of Energy.

For a 10 - Digit Agreement Number

1st and 2nd Digits	Equivalent to last two digits of the agreement type.
3rd and 4th Digits	Year in which term commences (last two digits only).
5th and 6th Digits	Month in which term commences.
7th Digit	0 (zero) to indicate original agreement; A, B, C, etc., to indicate a divided or partially transferred agreement prior to 1994
8th, 9th, and 10th Digits	Sequence of agreements issued in month.

STATUS: Describes the current standing of the agreement, e.g., active, cancelled (see table ENSTATS).

STATUS DESCRIPTION: Description of the agreement status.

TERM DATE: Commencement date of the agreement.

ORIGINAL EXPIRY DATE: Date original term expired.

CURRENT EXPIRY DATE: Date term expires or the date to which the agreement continues.

CANCELLATION REASON: Describes the reason for the cancellation of an agreement.

AGREEMENT AREA (HA) ORIGINAL: Agreement area in hectares at the time the agreement was originally issued.

AGREEMENT AREA (HA) CURRENT: Agreement area in hectares at the time issued.

CLIENT HECTARES: Current client area in hectares.

CLIENT ID: Is the client identifier assigned to a unique company, Government Department or individual name and their address which is stored in LSAS client registry.

CLIENT NAME: Is the Government Department, individual or Company name that is stored in LSAS client registry.

**TABLE NAME: AGRTYPE      DESCRIPTION: AGREEMENT TYPES**

CODE VALUE	DECODE VALUE
AAZ	OIL OFFSET
AAZ	OIL OFFSET
A04	APPL-5 YEAR PLAINS PETROLEUM AND NATURAL GAS LEASE
A05	APPL-5 YEAR NORTHERN PETROLEUM AND NATURAL GAS LEASE
A06	APPL-5 YEAR FOOTHILLS PETROLEUM AND NATURAL GAS LEASE
A10	APPL-NATURAL GAS AND PETROLEUM LEASE
A13	APPL-COAL LEASE
A14	APPL-COAL ROAD ALLOWANCE LEASE
A19	APPL-QUARRYING LEASE/QUARRIABLE MINERAL LEASE
A25	APPL-SALT LEASE
A27	APPL-SODIUM SULPHATE LEASE
A28	APPL-QUARTZ MINERAL LEASE/METALLIC MINERAL LEASE
A36	APPL-NATURAL GAS STORAGE AGREEMENT
A37	APPL-SPECIAL MINERAL LEASE
A42	APPL-OTHER AGREEMENT
A66	APPL-OIL SANDS PROSPECTING PERMIT
A67	APPL-GOLD RECOVERY PERMIT
A68	APPL-QUARTZ/METALLIC MINERALS EXPLORATION PERMIT
A69	APPL-PHOSPHATE EXPLORATION AGREEMENT
A70	APPL-OIL SANDS PERMIT
A71	APPL-OIL SANDS LEASE
A72	APPL-OIL SANDS LEASE
A73	APPL-OIL SANDS LEASE
A74	APPL-OIL SANDS LEASE
A90	APPL-PLACER MINERAL LEASE
A91	APPL-AMMONITE SHELL AGREEMENT
A93	APPL-METALLIC AND INDUSTRIAL MINERALS PERMIT
A94	APPL-METALLIC AND INDUSTRIAL MINERALS LEASE
A95	APPL-CERTIFICATE OF RECORD-QUARTZ MINERALS
A96	APPL-METALLIC AND INDUSTRIAL MINERALS SECONDARY LEASE
P04	POST-5 YEAR PLAINS PETROLEUM AND NATURAL GAS LEASE
P05	POST-5 YEAR NORTHERN PETROLEUM AND NATURAL GAS LEASE
P06	POST-5 YEAR FOOTHILLS PETROLEUM AND NATURAL GAS LEASE
P13	POST-COAL LEASE
P53	POST-2 YEAR PLAINS PETROLEUM AND NATURAL GAS LICENCE
P54	POST-4 YEAR NORTHERN PETROLEUM AND NATURAL GAS LICENCE
P55	POST-5 YEAR FOOTHILLS PETROLEUM AND NATURAL GAS LICENCE
P70	POST-OIL SANDS PERMIT
P74	POST-OIL SANDS LEASE
P93	POST-METALLIC AND INDUSTRIAL MINERALS PERMIT
WAG	WELL ACID GAS
WDI	WELL DISPOSAL/INJECTION
WOB	WELL OBSERVATION
WOH	WELL OVER HOLE
WRD	WELL ROAD ALLOWANCE
WRE	WELL RE-ENTRY
WWS	WELL WATER SOURCE

CODE VALUE	DECODE VALUE
001	PETROLEUM AND NATURAL GAS LEASE
002	NATURAL GAS LEASE
003	PETROLEUM LEASE
004	5 YEAR PLAINS PETROLEUM AND NATURAL GAS LEASE
005	5 YEAR NORTHERN PETROLEUM AND NATURAL GAS LEASE
006	5 YEAR FOOTHILLS PETROLEUM AND NATURAL GAS LEASE
008	BITUMINOUS SANDS LEASE
009	OIL SANDS LEASE
010	NATURAL GAS AND PETROLEUM LEASE
013	COAL LEASE
014	COAL ROAD ALLOWANCE LEASE
019	QUARRYING/QUARRIABLE MINERAL LEASE
025	SALT LEASE
026	IRON LEASE
027	SODIUM SULPHATE LEASE
028	QUARTZ MINERAL LEASE/METALLIC MINERAL LEASE
036	NATURAL GAS STORAGE AGREEMENT
037	SPECIAL MINERAL LEASE
042	OTHER AGREEMENT
045	PETROLEUM AND NATURAL GAS RESERVATION
046	CROWN RESERVE DRILLING RESERVATION
047	COAL EXPLORATION RESERVATION
053	2 YEAR PLAINS PETROLEUM AND NATURAL GAS LICENCE
054	4 YEAR NORTHERN PETROLEUM AND NATURAL GAS LICENCE
055	5 YEAR FOOTHILLS PETROLEUM AND NATURAL GAS LICENCE
056	NATURAL GAS LICENCE
057	CROWN RESERVE NATURAL GAS LICENCE
064	PETROLEUM AND NATURAL GAS PERMIT
065	BITUMINOUS SANDS PROSPECTING PERMIT
066	OIL SANDS PROSPECTING PERMIT
067	GOLD RECOVERY PERMIT
068	QUARTZ/METALLIC MINERALS EXPLORATION PERMIT
069	PHOSPHATE EXPLORATION AGREEMENT
070	OIL SANDS PERMIT
071	OIL SANDS LEASE
072	OIL SANDS LEASE
073	OIL SANDS LEASE
074	OIL SANDS LEASE
075	OIL SANDS LEASE
080	PLACER MINING PERMIT
081	AMMONITE SHELL COLLECTORS PERMIT
090	PLACER MINERAL LEASE
091	AMMONITE SHELL AGREEMENT
092	METALLIC AND INDUSTRIAL MINERALS LICENCE
093	METALLIC AND INDUSTRIAL MINERALS PERMIT
094	METALLIC AND INDUSTRIAL MINERALS LEASE
095	CERTIFICATE OF RECORD - QUARTZ MINERALS
096	METALLIC AND INDUSTRIAL MINERALS SECONDARY LEASE

**TABLE NAME: UNITTYPE      DESCRIPTION: UNIT TYPES**

CODE VALUE	DECODE VALUE
A85	APPL-PETROLEUM AND NATURAL GAS UNIT
A86	APPL-PETROLEUM UNIT
A87	APPL-NATURAL GAS UNIT
A88	APPL-PRODUCTION ALLOCATION UNIT
A89	APPL-NATURAL GAS STORAGE UNIT
085	PETROLEUM AND NATURAL GAS UNIT
086	PETROLEUM UNIT
087	NATURAL GAS UNIT
088	PRODUCTION ALLOCATION UNIT
089	NATURAL GAS STORAGE UNIT

**TABLE NAME: RESTAGCY      DESCRIPTION: ADDENDUM TEXT**

ADDENDUM TYPE	DESCRIPTION
CLM	COAL MINING COMPANIES
CLT	COMMUNITY DEVELOPMENT
ENR	ENERGY
ENV	ENVIRONMENTAL PROTECTION
FDR	FEDERAL GOVERNMENT
FHD	OFFSET
FRS	LAND & FOREST SERVICES
HMA	HER MAJESTY/ALBERTA
HMC	HER MAJESTY/CANADA
IFS	INFRASTRUCTURE
ILC	INDIAN LAND CLAIMS
LND	PUBLIC LANDS
MET	METIS
MIS	MISCELLANEOUS
MTR	MINERAL TITLES REDEMPTION ACT
MUN	MUNICIPAL AFFAIRS
OSG	OIL SANDS AGREEMENT AREA
PRK	ALBERTA PARKS SERVICE
UHA	ULTIMATE HEIR ACT
WLF	FISH AND WILDLIFE SERVICES

**TABLE NAME: RESTACCS      DESCRIPTION: ACCESS/RIGHTS**

ACCESS/RIGHTS TYPE	DESCRIPTION
A	WITHDRAWN FROM DISPOSITION
0	ACCESS RESTRICTIONS DO NOT APPLY
1	SURFACE ACCESS IS NOT PERMITTED
2	SURFACE ACCESS HAS YET TO BE DETERMINED
3	SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS
4	RESERVED FROM DISPOSITION
5	SUBSTANCE/ZONE CONCERN
6	AVAILABILITY CONCERN
7	SURFACE ACCESS NOT AFFECTED

**TABLE NAME: RESTACTV      DESCRIPTION: RESTRICTION ACTIVITY**

TYPE	DESCRIPTION
A	ALL ACTIVITIES
C	ALL MINING
D	REGULAR DRILLING (NON PNG)
I	INTENSIVE DRILLING (IN SITU, HIGH DENSITY)
P	PNG DRILLING
S	SURFACE MINING
U	UNDERGROUND MINING

**TABLE NAME: RESTSECR      DESCRIPTION: SECURITY LEVEL**

SECURITY TYPE	DESCRIPTION
A	ADMINISTRATIVE BRANCH
G	GOVERNMENT AGENCY
P	PUBLIC INFORMATION

**TABLE NAME: RESTTYP5      DESCRIPTION: RESTRICTION TYPES**

CODE VALUE	DECODE VALUE
ACC	ABORIGINAL COMMUNITIES ON CROWN LAND
ADM	ADMINISTRATIVE RESERVATION
AIR	AIRPORT
AMA	ACCESS MONITORING AREA
AOS	AOSTRA LANDS
ARC	ARCHAEOLOGICAL SITE
ASQ	AIR/SOIL QUALITY STUDY SITE
BSA	BIRD SANCTUARY
BWP	BUCK FOR WILDLIFE PROJECT
CDP	COAL DEVELOPMENT POLICY
CER	CANDIDATE ECOLOGICAL RESERVE
CFB	CANADIAN FORCES BASE
CHR	CANADIAN HERITAGE RIVER
CMF	COMMUNITY FOREST
CML	COAL MINE LICENCE AREA
CMP	CAMPGROUND
CRG	CARIBOU RANGE
DMR	DAM AND RESERVOIR
DND	DEPT. OF NATIONAL DEFENSE SITE
ECR	ECOLOGICAL RESERVE
ERA	EXPLORATION RESTRICTED AREA
ESA	ENVIRONMENTALLY SENSITIVE AREA
ES1	EASTERN SLOPES POLICY LAND USE ZONE 1
ES2	EASTERN SLOPES POLICY LAND USE ZONE 2
ES3	EASTERN SLOPES POLICY LAND USE ZONE 3
ES4	EASTERN SLOPES POLICY LAND USE ZONE 4
ES8	EASTERN SLOPES POLICY LAND USE ZONE 8
FLD	FLOOD CONTROL PROJECT
FRA	FOREST RECREATION AREA
FRP	FOREST RESEARCH PLOT
GEC	GEOLOGY CONCERN
GSO	GEOMAGNETIC SURVEY OBSERVATORY
GZR	GRAZING RESERVE
HIS	HISTORIC SITE

CODE VALUE	DECODE VALUE
HRM	HISTORICAL RESOURCES MANAGEMENT AREA
IFS	INFRASTRUCTURE
ILC	INDIAN LAND CLAIM
IRA	INTEGRATED RESOURCE PLAN LAND USE ZONE 3A
IRD	INTEGRATED RESOURCE PLAN RESERVED AREA
IRF	INTEGRATED RESOURCE PLAN LAND USE ZONE 5
IRS	INTEGRATED RESOURCE PLAN SPECIAL LAND USE
IR1	INTEGRATED RESOURCE PLAN LAND USE ZONE 1
IR2	INTEGRATED RESOURCE PLAN LAND USE ZONE 2
IR3	INTEGRATED RESOURCE PLAN LAND USE ZONE 3
IR4	INTEGRATED RESOURCE PLAN LAND USE ZONE 4
IR5	INTEGRATED RESOURCE PLAN LAND USE ZONE 5A
IR8	INTEGRATED RESOURCE PLAN LAND USE ZONE 8
LNT	LAND TRANSFER AREA
MAA	MINERAL ACCRETION APPLICATION
MTR	MINERAL TITLES REDEMPTION ACT
MTS	METIS SETTLEMENT
NAT	NATURAL AREA
NGS	NATURAL GAS STORAGE
OSG	OIL SANDS AGREEMENT AREA
PCM	PROPOSED CAMPGROUND
PDM	PERMIT TO DEVELOP A COAL MINE
PDR	PROPOSED DAM & RESERVOIR
PFC	PROPOSED FLOOD CONTROL PROJECT
PFR	PROPOSED FOREST RECREATION AREA
PNA	PROPOSED NATURAL AREA
POW	POWER DEVELOPMENT
PPP	PROPOSED PROVINCIAL PARK
PPR	PROPOSED PROVINCIAL RECREATION AREA
PRA	PROVINCIAL RECREATION AREA
PRP	PROVINCIAL PARK
PRS	PROPOSED RESERVOIR
RCL	RECLAMATION PROJECT
RDA	RESTRICTED DEVELOPMENT AREA
RES	RESERVOIR
RFR	RIGHT OF FIRST REFUSAL
RPW	RECREATION, PARKS, AND WILDLIFE FOUNDATION LANDS
RSA	RECREATION STAGING AREA
RUS	RESIDENTIAL/URBAN SUBDIVISION
RZR	RESERVATION OF ZONE RIGHTS
SHA	SENSITIVE HABITAT AREA
SIP	SPECIAL INTEGRATED PLAN
SMA	SURFACE MINEABLE AREA FOR OILSANDS
SMP	SURFACE MATERIALS POTENTIAL
SPA	SPECIAL PLACES 2000 AREA
SPN	SPECIAL PLACES 2000 NOMINATED SITE
SPS	SPECIAL PLACES 2000 SITE
TEN	TENURE SALES NOTATION
TPG	TOPOGRAPHIC/GROUND CONDITIONS
TSH	TRUMPETER SWAN HABITAT
UNT	UNIT CONCERN
WDA	WILDERNESS AREA
WHS	WORLD HERITAGE SITE
WLS	WILDLIFE SANCTUARY
WLT	WETLANDS FOR TOMORROW PROJECT
WPP	WILDLAND PROVINCIAL PARK
WRA	WATERSHED RESEARCH AREA

**TABLE NAME: ENSTATS      DESCRIPTION: ENTITY STATUS**

<u>STATUS TYPE</u>	<u>DESCRIPTION</u>
A	Application
I	Inactive
R	EUB reference
U	Unit draft
1	Well added by LSAS
2	EUB Interim delete
3	Encumbrance interim complete discharge
4	Encumbrance confirmed complete discharge
5	Active
6	Expired/Terminated
7	Cancelled
8	Interim delete
9	Deleted

**Abbreviations & Acronym's**

AEUB	Alberta Energy and Utilities Board (also EUB)
CORES	Corporate Registry
DOE	Department of Energy
DRRZD	Deeper Rights Reversion Zone Designation
ETS	Electronic Transfer System
EUB	Energy and Utilities Board (also AEUB)
GEO	Geophysical
GLC	General Land Classification
LE LS SC TWP RG M E	legal event-legal-section-township-range-meridian-event sequence
LSAS	Land Status Automated System
LSD	legal subdivision (also LS)
LTO	Land Titles Office
M	Meridian
PBL	Plan Block Lot
PNG/P&NG	Petroleum and Natural Gas
PRA	Petroleum Registry of Alberta
R	Range
SEC	Section
SU	Spacing Unit
TWP	Township
ZD	Zone Designation

# LSAS LAND FORMATS

MERIDIAN-RANGE-TOWNSHIP:SECTION (S)

5 - 1 - 67

TOWNSHIP

31	32	33	34	35	36
30	29	28	27	26	25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	1

5 - 1 - 67

OR

5 - 1 - 67 : 1 - 36

31	32	33	34	35	36
30	29	28	27	26	25
19	<del>20</del>	21	22	23	24
18	17	16	<del>15</del>	14	13
7	8	9	10	11	12
6	5	<del>4</del>	<del>3</del>	<del>2</del>	<del>1</del>

5 - 1 - 67 : 1 - 4; 15; 20

31	32	33	34	35	36
30	29	28	27	26	25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	<del>1</del>

5 - 1 - 67 : 1

# LSAS LAND FORMATS

TOWNSHIP

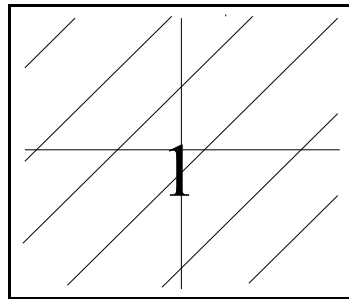
MERIDIAN-RANGE-TOWNSHIP:SECTION LEGAL

5 - 1 - 67 : 1

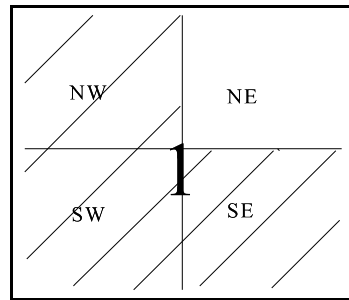
31	32	33	34	35	36
30	29	28	27	26	25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	1

5 - 1 - 67 : 1

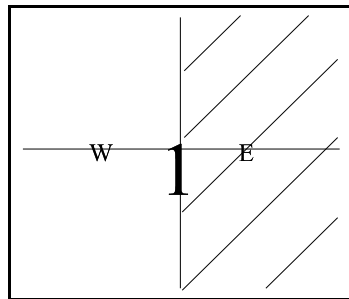
SECTION



5 - 1 - 67  
(256 HECTARES)



5 - 1 - 67 : 1S,NW  
(192 HECTARES)



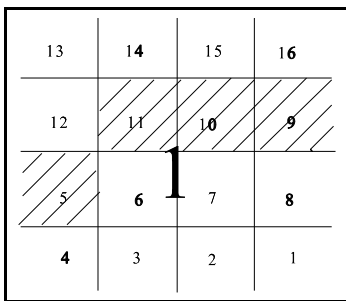
5 - 1 - 67 : 1E  
(128 HECTARES)

# LSAS LAND FORMATS

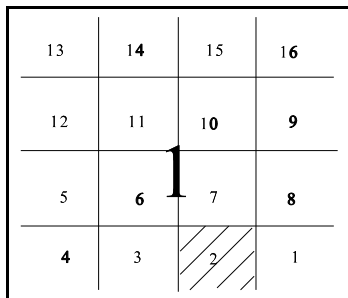
MERIDIAN-RANGE-TOWNSHIP:SECTION LEGAL

5 - 1 - 67 : 1

**5 - 1 - 67 : 1**  
SECTION



5 - 1 - 67 : 1L5, L9-11  
(64 HECTARES)  
4 LEGAL SUBDIVISIONS



5 - 1 - 67 : 1L2  
(16 HECTARES)

# LSAS LAND FORMATS

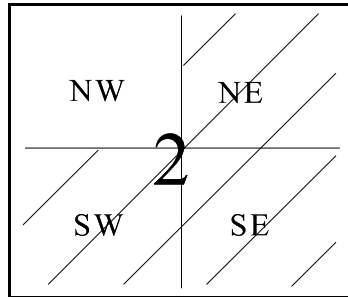
MERIDIAN-RANGE-TOWNSHIP : SECTION LEGAL

5 - 1 - 67 : 1 L2

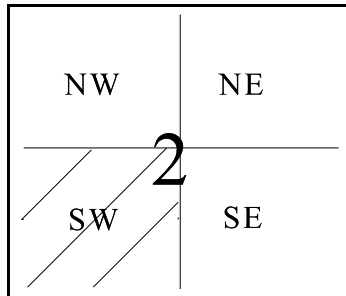
SECTION

13	14	15	16
12	11	10	9
5	6	7	8
4	3	2	1

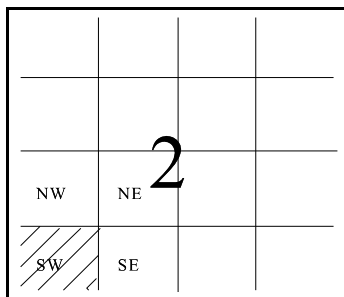
LEGAL SUBDIVISION



5 - 1 - 67 : 1L2S,L2NE  
(12 HECTARES)



5 - 1 - 67 : 1L2SW  
(4 HECTARES)  
QUADRANT



5 - 1 - 67 : 1LSWSW  
(1 HECTARE )  
QUARTER QUADRANT

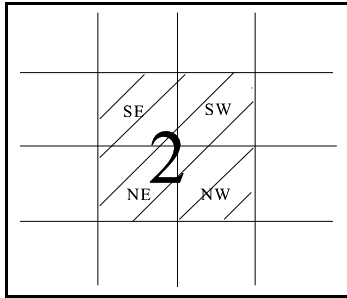
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MERIDIAN-RANGE-TOWNSHIP:SECTION LEGAL

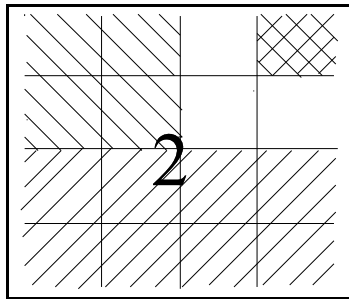
5 - 1 - 67 : 1 L2

5 - 1 - 67 : 1L2

SECTION



5 - 1 - 67 : 1L2SE, L2SW, L2NE, L2NW



5 - 1 - 67 : 1L2S, L2NW, L2NENE