

PROVINCE OF BRITISH COLUMBIA  
MINISTRY OF EMPLOYMENT AND INVESTMENT  
ENERGY AND MINERALS DIVISION

QUARRY PERMIT  
APPROVING WORK SYSTEM AND RECLAMATION PROGRAM  
(Issued pursuant to Section 10 of the Mines Act S.B.C. 1989)

Permit: Q-15-6 (Amendment to Q-11-1 dated July 8, 1980 and June 15, 1984.)

Issued to: Western Industrial Clay Products Ltd.  
714 East Sarcee Avenue  
Kamloops, B. C.  
V2H 1E7

for work located at the following property:

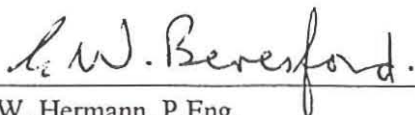
RED LAKE QUARRY

(NTS 92I/15W, Lat.: 50° 56', Long.: 120° 49'

Block A and B of the NW 1/4 of Sec. 1 and Block A of the SE 1/4 of Sec. 1  
and Block A of the NE 1/4 of Sec. 2, Twp 23, Range 21, W of the Sixth  
Meridian, Kamloops Division of Yale District, gravel road from Tranquille to  
Red Lake.)

This approval and permit is subject to the appended conditions.

Issued this 3rd day of April in the year 1996.

  
for F. W. Hermann, P.Eng.  
Chief Inspector of Mines

## PREAMBLE

Notice of intention to commence work on a quarry, including a plan of the proposed work system and a program for the protection and reclamation of the surface of the land and watercourses affected by the work dated August 25, 1995, was filed with the District Inspector on October 5, 1995. The requirement to publish notice of such filing in the local newspaper and the Gazette has been waived.

This permit contains the requirements of the Ministry of Employment and Investment, Energy and Minerals for reclamation. It is also compatible, to the extent possible, with the requirements of other provincial ministries for reclamation issues. The amount of security required by this permit, and the manner in which this security may be applied, will also reflect the requirements of those ministries. Nothing in this permit, however, limits the authority of other provincial ministries to set other conditions, or to act independently, under their respective permits and legislation.

Decisions made by staff of the Ministry of Energy, Mines and Petroleum Resources will be made in consultation with other ministries.

## CONDITIONS

The Chief Inspector of Mines (Chief Inspector) hereby approves the work plan and the program for protection and reclamation of the land surface and watercourses subject to compliance with the following conditions:

### 1. Reclamation Security

- (a) The owner, agent or manager (herein called the Permittee) shall maintain with the Minister of Finance and Corporate Relations securities in the amount of SEVENTEEN THOUSAND dollars (\$17,000.00) and by September 30, 1996, shall deposit an additional amount of TEN THOUSAND dollars (\$10,000.00) bring the total security for this permit to TWENTY-SEVEN THOUSAND dollars (\$27,000.00). The security will be held by the Minister of Finance and Corporate Relations for the proper performance of the approved program and all the conditions of this permit in a manner satisfactory to the Chief Inspector.
- (b) The Permittee shall conform to all forest tenure requirements of the Ministry of Forests. Should the Permittee not conform to these requirements then all or part of the security may be used to cover the costs of these requirements.

- (c) The Permittee shall conform to all Ministry of Environment, Lands and Parks approval, licence and permit conditions, as well as requirements under the Wildlife Act. Should the Permittee not conform to these conditions, then all or part of the security may be used to fulfill these requirements.

2. Land Use

The surface of the land and watercourses shall be reclaimed to the following land use: forest and fields.

3. Productivity

The level of land productivity to be achieved on reclaimed areas shall not be less than existed prior to mining on an average property basis unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.

4. Revegetation

Land shall be revegetated to a self-sustaining state using appropriate plant species.

5. Use of Suitable Growth Medium

- (a) On all lands to be revegetated, the growth medium shall satisfy land use, productivity, and water quality objectives. Topsoil and overburden (to rooting depth) shall be removed from operational areas prior to any disturbance of the land and stockpiled separately on the property for use in reclamation programs, unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, that reclamation objectives can otherwise be achieved.
- (b) No topsoil shall be removed from the property without the specific written permission of the District Inspector.

6. Buffer Zones and Berms

Buffer zones and/or berms shall be established between the mine and the property boundary unless exempted in writing by the District Inspector.



15. Notice of Closure

Pursuant to Part 10.5.1 of the Health, Safety and Reclamation Code for Mines in British Columbia, a Notice of Completion of Work shall be filed with the District Inspector not less than seven days prior to cessation of work.

16. Annual Reclamation Report

By March 31 of each year, an annual reclamation report shall be submitted in a form and containing the information required by the Chief Inspector.

SPECIAL CONDITIONS:

1. A revised mining and reclamation plan shall be submitted by September 30, 1996 for the Red Lake (East) pit to the District Manager and Engineer for review and approval prior to commencing this phase of the operation.
2. Exploratory drilling, excavation and testing of the lower shale seam in the Red Lake (East) pit shall be carried out before September 30, 1996 to determine future mining potential and identify further shale reserves.
3. Progressive reclamation of the Red Lake (East) pit shall commence in accordance with the approved mine plan.
4. Reclamation shall include backfilling, re-placement of stockpiled soil and overburden material, grading, sloping and planting to approved tree species as per Ministry of Forests requirements.
5. A Licence-to-Cut shall be obtained from the Ministry of Forests in Kamloops and tree clearing restricted to a maximum of 10 hectares for the Red Lake (West) expansion, as per the October 4, 1995 mining plan submitted by Geotex Consultants Limited and the detailed logging plan as per Ministry of Forests requirements.

q-permit/92-12-15

10 3/4 ha

Not done

(b) Individual roads will be exempted from the requirement for total reclamation under condition 9(a) if either:

- (1) the Permittee can demonstrate that an agency of the Crown has explicitly accepted responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road, or
- (2) the Permittee can demonstrate that another private party has explicitly agreed to accept responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road and has, in this regard, agreed to comply with all the terms and conditions, including bonding provisions, of this reclamation permit, and to comply with all other relevant provincial government (and federal government) regulatory requirements.

10. Disposal of Fuels and Toxic Chemicals

Fuels, chemicals or reagents which cannot be returned to the manufacturer/supplier are to be disposed of as directed by the Chief Inspector in compliance with municipal, regional, provincial and federal statutes.

11. Temporary Shutdown

If this quarry ceases operation for a period longer than one year the Permittee shall either continue to carry out the conditions of the permit or apply for an amendment setting out a revised program for approval by the Chief Inspector.

12. Safety Provisions

All safety and other provisions of the **Mines Act** shall be complied with to the satisfaction of the Chief Inspector.

13. Monitoring

The Permittee shall undertake monitoring programs, as required by the District Inspector, to demonstrate that reclamation objectives are being achieved.

14. Alterations to the Program

Substantial changes to the program must be submitted to the District Inspector for approval.

7. Treatment of Structures and Equipment

Prior to abandonment, and unless the Chief Inspector has made a ruling otherwise, such as heritage project consideration or industrial use,

- (a) all machinery, equipment and building superstructures shall be removed,
- (b) concrete foundations shall be covered and revegetated unless, because of demonstrated impracticality, they have been exempted by the Inspector, and
- (c) all scrap material shall be disposed of in a manner acceptable to the Inspector.

8. Watercourses

- (a) Watercourses shall be reclaimed to a condition that ensures
  - (1) long-term water quality is maintained to a standard acceptable to the Chief Inspector,
  - (2) drainage is restored either to original watercourses or to new watercourses which will sustain themselves without maintenance, and
  - (3) use and productivity objectives are achieved and the level of productivity shall not be less than existed prior to mining unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.
- (b) Water which flows from disturbed areas shall be collected and diverted into settling ponds.

9. Roads

- (a) All roads shall be reclaimed in accordance with land use objectives unless permanent access is required to be maintained.



October 7, 1996

File: 14675-30-04  
Q-15-6

Peter B. Aylen, President  
Western Industrial Clay Products Ltd.  
714 East Sarcee Avenue  
Kamloops BC V2H 1E7

Dear Mr. Aylen:

**Re: Amendment to Reclamation Permit Q-15-6**  
**Pursuant to the Mines Act**  
**Property: RED LAKE QUARRY**

As requested in your letter dated September 25, 1996, the above permit is hereby amended.

**SPECIAL CONDITION 2)**

Exploratory drilling, excavation and testing of the lower shale seam in the Red (East) pit shall be carried out before December 31, 1996 to determine future mining potential and identify further shale reserves.

Please attach this amendment to your permit dated April 3, 1996 as it becomes an integral part of it.

Yours truly,

*for* F. W. Hermann, P.Eng.  
Chief Inspector of Mines

FWH/EWB/lm

c: C. Howell, Regional Operations, Health and Safety Branch, Victoria





Q-15-6

## NOTICE OF WORK AND RECLAMATION PROGRAM ON A MINERAL PROPERTY

The information requested on this form is collected under the authority of the Mines Act (S.B.C. 1989, CHAP. 56, INDEX CHAP. 263.6) and in accordance with the Freedom of Information and Protection of Privacy Act. The information is collected for the purpose of issuing a permit under the Mines Act and may be referred to other agencies as outlined in the Health, Safety and Reclamation Code for Mines in British Columbia. If you have any questions regarding the collection and use of this information, contact the Land Management and Policy Branch in Victoria at 952-0462; or write: Land Management and Policy Branch, 4th Floor, 1810 Blanshard Street, Victoria, British Columbia, V8V 1X4.

MINISTRY OF ENERGY, MINES  
AND PETROLEUM RESOURCES  
KAMLOOPS, B.C.

Rec'd. OCT 5 1995

NAME OF PROPERTY: KITTY CLAIM

Previous Annual Work Approval Number (applicable only to those properties previously worked)

(eg. SMI91-0100500-123)

Reclamation Permit Number, if previously issued (may be several years old)

Name of Claims:

LOCATION: Is any part of this Property in a Recreation Area or Park? ☐ Yes ☒ No

Are any of the surface rights of this property privately owned? ☐ Yes ☒ No (Operator responsible for contacting owner)

Name and address of private land owner:

Mining division:

All NTS map sheets (e.g. 094L/02E) 042I/15W

Latitude: 50° 56'

Longitude: 120° 49'

Minfile No. (if known)

Access route (from nearest town to property): GRAVEL ROAD FROM TRANQUILLE TO RED LAKE  
OPEN PIT AT EASTERN EDGE OF PROPOSED WORK AREA

OPERATOR/AGENT (Person or Company controlling property on behalf of the owner):

Name: WESTERN INDUSTRIAL CLAY PRODUCTS LTD

Telephone No.: (604) 372-1600

Company contact person: PETER AYLEN

Fax No.: (604) 372-3777

Address: 714 E. SARCEE AVE.

City: KAMLOOPS

Province: B.C.

Postal Code: V2H 1E7

Signature of Operator/Agent:

Date: AUGUST 25/95

OWNER: (Title Holder)

Name: WESTERN INDUSTRIAL CLAY PRODUCTS LTD

Fax No.: (604) 372-3777

Address: 714 E. SARCEE AVE.

City: KAMLOOPS

Province: B.C.

Postal Code: V2H 1E7

Telephone No.: (604) 372-1600

Signature of Owner (or letter of Authorization from Owner):

Date: AUG. 25/95

REFERRED OCT 1995



APR. -03' 96 (WED) 13:32

Province of  
British ColumbiaMinistry of Energy, Mines and Petroleum Resources  
Mineral Resources Division

Q-15-6

NOTICE OF WORK AND  
RECLAMATION PROGRAM ON A  
MINERAL PROPERTYMINISTRY OF ENERGY, MINES  
AND PETROLEUM RESOURCES  
KAMLOOPS, B.C.

Rec'd. APR 11 1996

The information requested on this form is collected under the authority of the Mines Act (S.B.C. 1989, CHAP. 56, INDEX CHAP. 263.6) and in accordance with the Freedom of Information and Protection of Privacy Act. The information is collected for the purpose of issuing a permit under the Mines Act and may be referred to other agencies as outlined in the Health, Safety and Reclamation Code for Mines in British Columbia. If you have any questions regarding the collection and use of this information, contact the Land Management and Policy Branch in Victoria at 952-0462; or write: Land Management and Policy Branch, 4th Floor, 1810 Blanshard Street, Victoria, British Columbia, V8V 1X4.

MINISTRY OF ENERGY, MINES  
AND PETROLEUM RESOURCES  
KAMLOOPS, B.C.

NAME OF PROPERTY: KITTY CLAIM

Rec'd. OCT 5 1995

Previous Annual Work Approval Number (applicable only to those properties previously worked)

(eg. SMI91-0100500-123)

Reclamation Permit Number, if previously issued (may be several years old)

Name of Claims:

LOCATION: Is any part of this Property in a Recreation Area or Park?

Yes

☒ No

Are any of the surface rights of this property privately owned?

Yes

☒ No

(Operator responsible for contacting owner)

Name and address of private land owner:

Mining division:

All NTS map sheets (e.g. 094L/02E)

092I/15W

Latitude: 50° 56'

Longitude: 120° 49'

Minfile No. (if known)

Access route (from nearest town to property):

GRAVEL ROAD FROM TRANQUILLE TO RED LAKE  
OPEN PIT AT EASTERN EDGE OF PROPOSED WORK AREA

OPERATOR/AGENT (Person or Company controlling property on behalf of the owner):

Name: WESTERN INDUSTRIAL CLAY PRODUCTS LTD

Telephone No.: (604) 372-1600

Company contact person: PETER AYLEN

Fax No.: (604) 372-3777

Address: 714 E. SARCEE AVE.

City: KAMLOOPS

Province: B.C.

Postal Code: V2H 1E7

Signature of Operator/Agent: P. B. Aylen

Date: AUGUST 25/95

OWNER: (Title Holder)

Name: WESTERN INDUSTRIAL CLAY PRODUCTS LTD

Fax No.: (604) 372-3777

Address: 714 E. SARCEE AVE.

City: KAMLOOPS

Province: B.C.

Postal Code: V2H 1E7

Telephone No.: (604) 372-1600

Signature of Owner (or letter of Authorization from Owner):

ECM-2014-00090



NAME OF MANAGER: PETER HYLEN Manager's phone No.: (604) 372-1600  
(Person responsible for management and operation of property)

To whom is correspondence sent regarding this notice?

☒ Owner ☐ Operator

DURATION: Duration of work: From SEPTEMBER To OCTOBER 1995

EXPLORATION WORK (Non Mechanical)

Geochemical.....  
Prospecting.....  
Flagging/Blazing.....

Geophysical.....  
Geological.....  
Other.....

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Rec'd. OCT 5 1995

EXPLORATION WORK (Mechanical)

Blasting.....  
Clearing Trees 92,000 m<sup>2</sup>  
Line Cutting.....

Drilling.....  
Trenching.....

If blasting, give details of explosives, magazines, etc. ....

Give number of existing explosives storage permit.....

WATER SUPPLY (subject to approval under the Water Act)

Describe the source of water supply .....

Estimated quantity of water to be used: ..... c.f.s.

Location of water intake (show on plan).....

WASTE WATER TREATMENT (subject to approval under the Waste Management Act) including disposal of drilling mud and sludge.

Describe treatment and disposal facilities (size of settling pond, recycling, distance to nearest stream, etc). Show on plan.

N/A

ESTIMATED NUMBER OF WORKERS ON SITE (including Contractors): .....

EQUIPMENT LIST

Note: all motorized equipment to comply with the Mining Code

Number and Type	Size/Capacity	Number and Type	Size/Capacity
a) <u>25</u>		e) .....	
b) <u>2 TEREX SCRAPERS</u>	<u>TS 18 (3)</u>	f) .....	
c) <u>1 LOADER</u>		g) .....	
d) <u>1 GRADER</u>		h) .....	

13. FIRST AID FACILITIES (Must comply W.C.B. Regulations)

Describe methods of communication, emergency transportation, and type of first aid kit

TELEPHONE, TRUCK, REQUIRED KIT

Location of nearest hospital: KAMLOOPS

Travel time to hospital: 1 HOUR

14. SURFACE DISTURBANCE OFF MINERAL CLAIMS

Campsite: # of people Length: NONE m Width: m Area: m²

Road access construction: Total length: m Approximate width: m Area: m²

Other (specify): Area: m²

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15. SURFACE DISTURBANCE ON MINERAL CLAIMS

(a) Settling ponds: # 0 Length: m Width: m Area: m²

(b) Road construction: Total length 0 m Width: m Area: m²

(c) Drilling: # of sites 0 Depth: Length: m Width: m Area: m²

(d) Trenching # of trenches 0 Depth: Length: m Width: m Area: m²

(e) Test pits: # of pits 0 Depth: Length: m Width: m Area: m²

(f) Linecutting Length: m Width: m Area: m²

(g) Clearing Trees Length: 400 m Width: 230 m Area: 92000 m²

(h) Campsite: # of people Length: m Width: m Area: m²

(i) Underground work: area of surface disturbance Length: m Width: m Area: m²

(j) Rock dumps: area of surface disturbance Length: m Width: m Area: m²

(k) Other: describe: Area: m²

TOTAL SURFACE AREA DISTURBED ON MINERAL CLAIMS THIS YEAR: 92000 m²

PRIOR DISTURBANCE ON CLAIM: 0 m² PLANNED RECLAMATION THIS YEAR: 0 m²

BALANCE OF UNRECLAIMED DISTURBANCE AT THE END OF PROJECT THIS YEAR: 92000 m²

16. PRESENT STATE OF LAND ON WHICH WORK IS PROPOSED

Forested: YES

Access roads (present use and condition): OLD BUT USEABLE

Old workings (location, condition):



17. RECLAMATION PROGRAM: (All work programs require a reclamation program which must follow Guidelines for Mineral

Exploration: Environmental, Reclamation and Approval Requirement)

Proposed use of land after reclamation: FOREST OR FIELDS

Describe protective measures and proposed site reclamation methods with reference to the items listed below.

Topsoil handling (where applicable): REMOVED & PILED SEPARATELY

Camp sites:                     

Trenches, drill sites, major excavations: OPEN PIT TO BE BACKFILLED

Roads:                     

Revegetation of disturbed areas: YES.

Waste dumps:                     

Adits:                     

Drill core storage                     

Other:                     

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Rec'd. OCT 5 1995

### 18. URANIUM/THORIUM

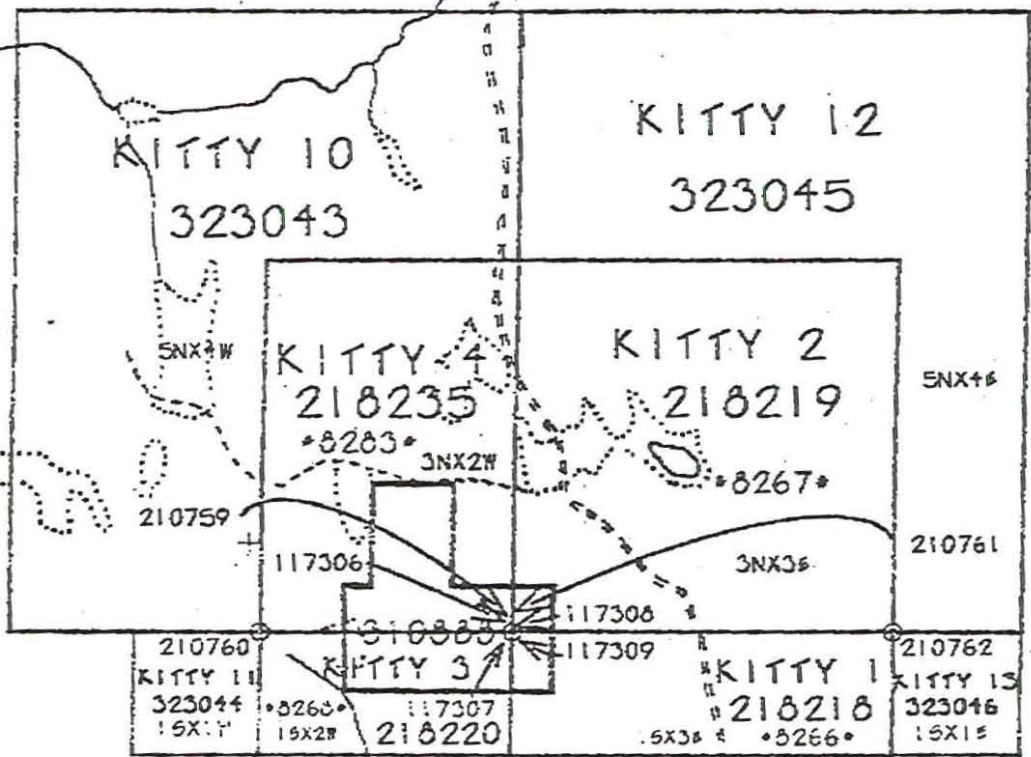
Is any part of this property designated as a Uranium/Thorium area?      Yes   X   No

If yes - has a survey been completed?      Yes      No

Note: if underground exploration or development is contemplated, an additional 'Underground Exploration Work Application for Approval' form must be completed.

This application will be returned if it is not accompanied by a legible map showing location of claim posts, property boundaries, location of property, access to property, location of work areas, roads, watercourses, proposed grid layouts, camps and other surface facilities. Preferred maps are: a) 1:50,000 topographic maps; b) claim maps; c) detailed map of area disturbed; or as required by the District Manager.

210621  
 210620  
 210620  
 210620



Rec'd. OCT 5 1995  
 MINISTRY OF ENERGY, MINES  
 AND PETROLEUM RESOURCES  
 KAMLOOPS, B.C.

Frog L.

Red Lake

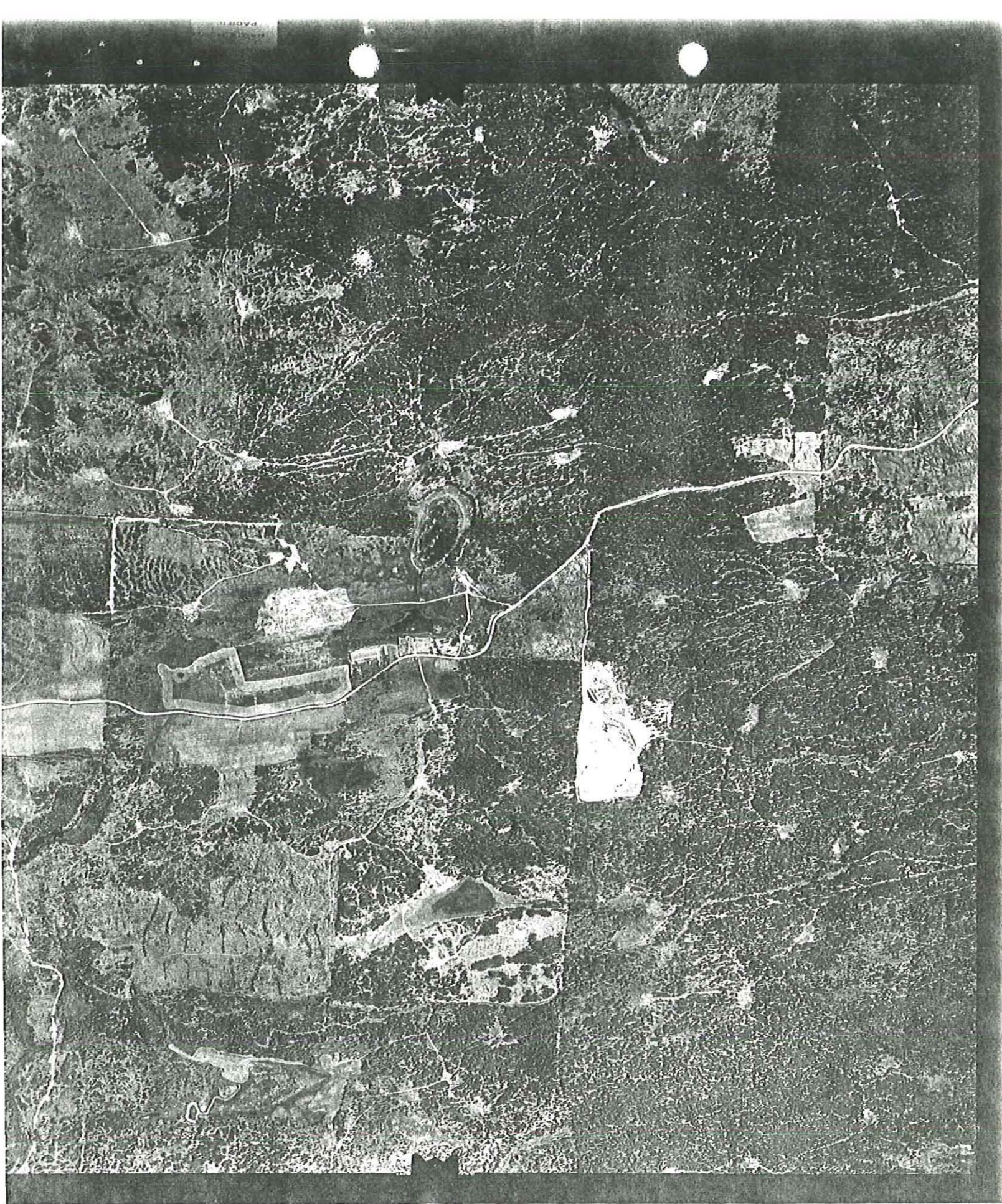
Wason Bay Springs

Cayuse











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AND PETROLEUM RESOURCES  
KAMLOOPS, B.C.  
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