

**CONFIDENTIAL**

EXPLORATION REPORT

COAL LICENCES 500-506

July, 1980

(FLATHEAD RIDGE LICENCES)

KAISER RESOURCES LTD.  
SPARWOOD, B.C.

**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

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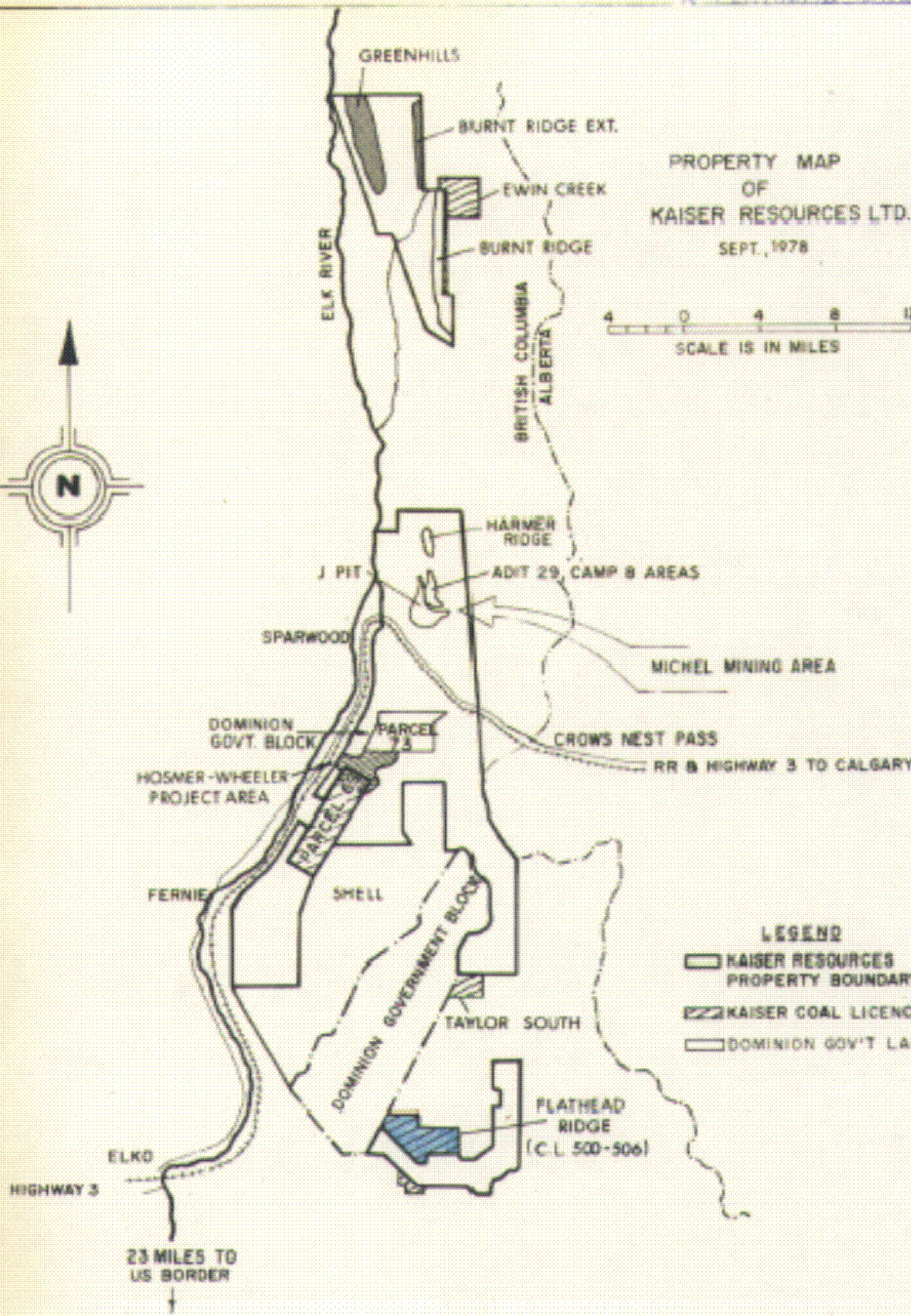
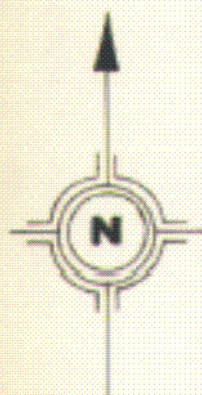
Lodgepole Coal Licences      Surface Geology



K-FLATHEAD RIDGE

PROPERTY MAP  
OF  
KAISER RESOURCES LTD.  
SEPT. 1978

4 0 4 8 12  
SCALE IS IN MILES





### Exploration Work:

Geological mapping of the Lodgepole coal licences 500 to 506 was conducted from July 1, 1979 to October 31, 1979. Mapping was done using a surveyed baseline for control. Chain and compass survey techniques were employed to map the outcrop away from the baseline. The field work was drafted on a 1:5000 plan of the area (enclosed). Aside from mapping, a geologist and student flagged in the initial trail for the access road.

A total of 7.5 kilometres of access road was constructed. Of this, 1.6 kilometres of road was access to the licences and 5.9 kilometres was constructed as access within the licence area. One drill site was flagged in and partially constructed. The access road was constructed by a bulldozer contracted from Nohel's Logging Company of Fernie.

Surveying of the access roads and the baseline was done by Kaiser Resources Ltd. surveyors and helpers. Slashing of the baseline and other survey assistance was done by summer students.

Reclamation work within the licences was conducted after completion of road construction. This work consisted of slashing and clean up of the access road, seeding and fertilizing and some backhoe and dozer work.

### General Geology:

Coal licences 500-506 are located along the southwest flank of the Crows Nest Coalfield on Flathead Ridge, north of the Lodgepole Creek drainage.

The outcrops consist of interbedded conglomerate, sandstone, mudstone and coal and are part of the Elk and coal bearing member of the Kootenay Formation. The 1979 mapping program was primarily in the Elk member.

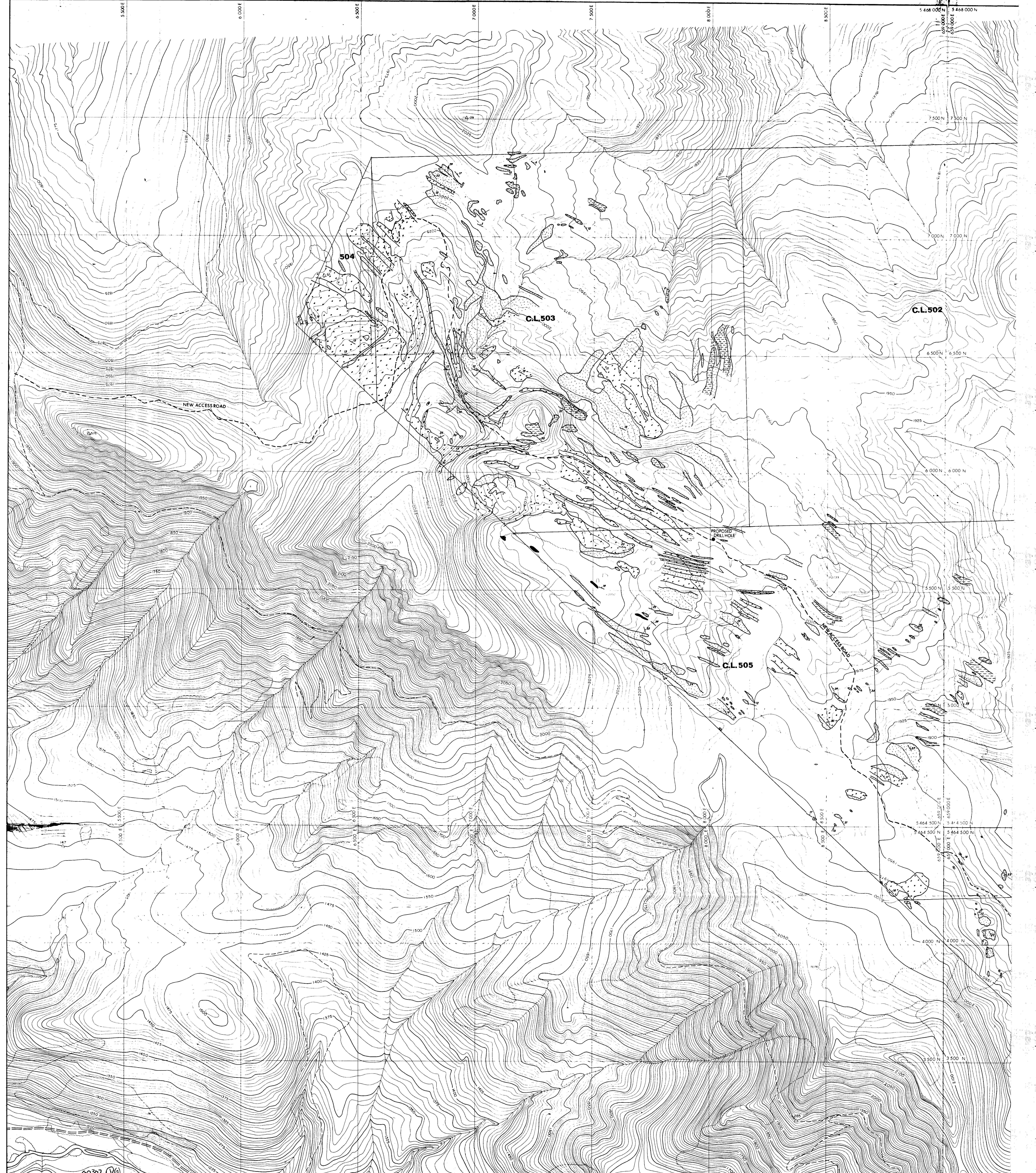
The Blairmore Group lies unconformably on top of the Kootenay Formation and is thought to occur on the top of Flathead Ridge in the northern portion of the licences. Outcrop of the Blairmore Group consist of conglomerate and conglomeratic sandstones with some siltstone and mudstone interbeds.

The beds in the licence area lie on the west limb of the McEvoy Syncline. The general strike of the beds is northwest-southeast and dip between 20 and 35 degrees to the northeast. Variations do occur in individual attitudes, especially in faulted areas. Some minor faults were observed in the licence area and are probably due to adjustments made during the formation of the McEvoy Syncline.

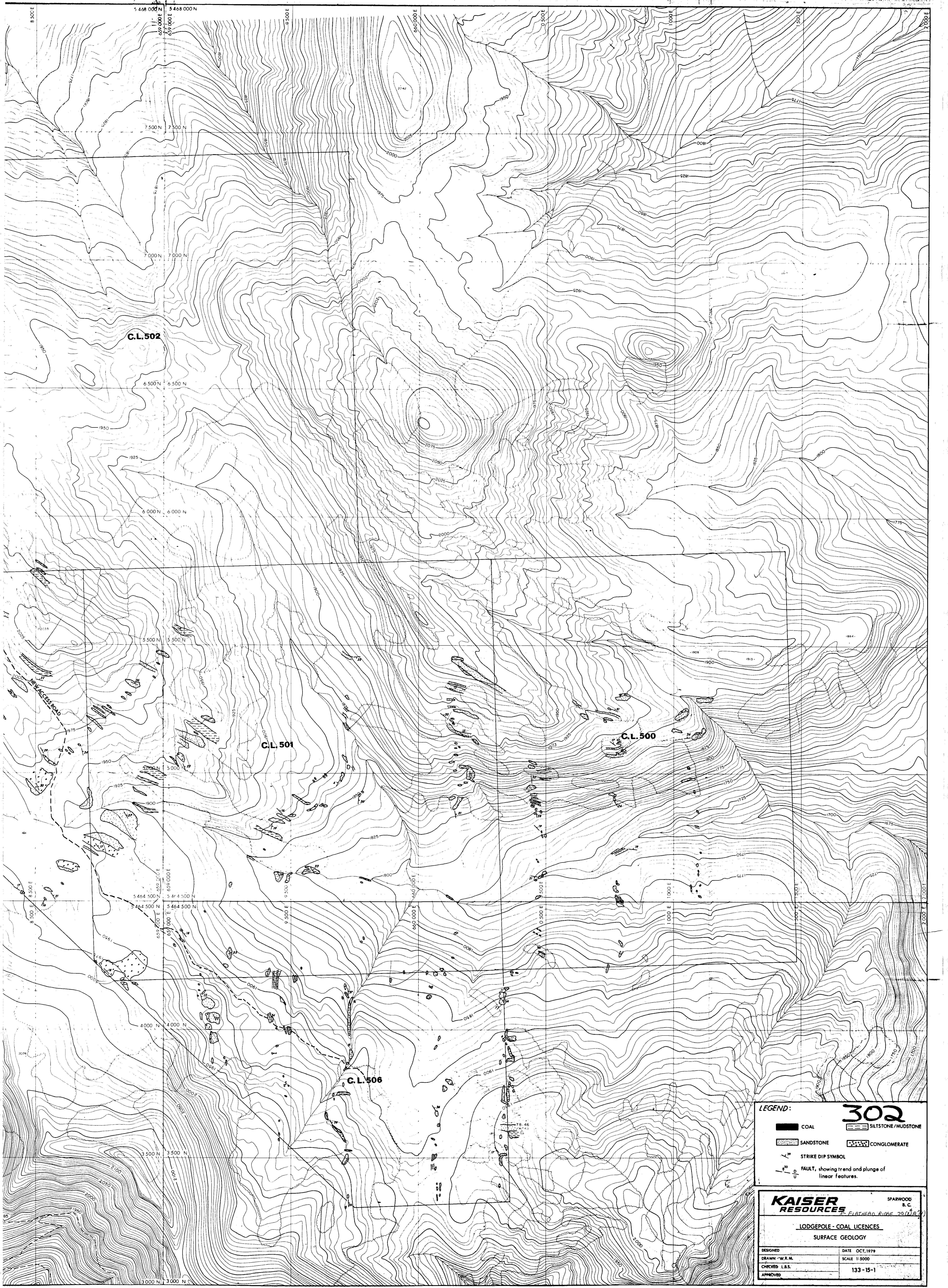
#### Proposals:

Future work planned includes one core hole and surface mapping during the 1980 field season. The core hole is expected to reach a depth of approximately 760 metres to intercept the entire coal bearing member. Surface mapping will be conducted in the northeast portion of the licence areas as well as the northwest side of Flathead Ridge.









**LEGEND:**

COAL

SANDSTONE

CONGLOMERATE

STRIKE DIP SYMBOL

FAULT, showing trend and plunge of linear features.

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SILTSTONE/MUDSTONE

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FLINTERS RIDGE 73 (1/2) 27

**LODGEPOLE - COAL LICENCES**

**SURFACE GEOLOGY**

DESIGNED	DATE OCT, 1979
DRAWN - W.R.M.	SCALE 1:5000
CHECKED L.B.S.	133-15-1
APPROVED	