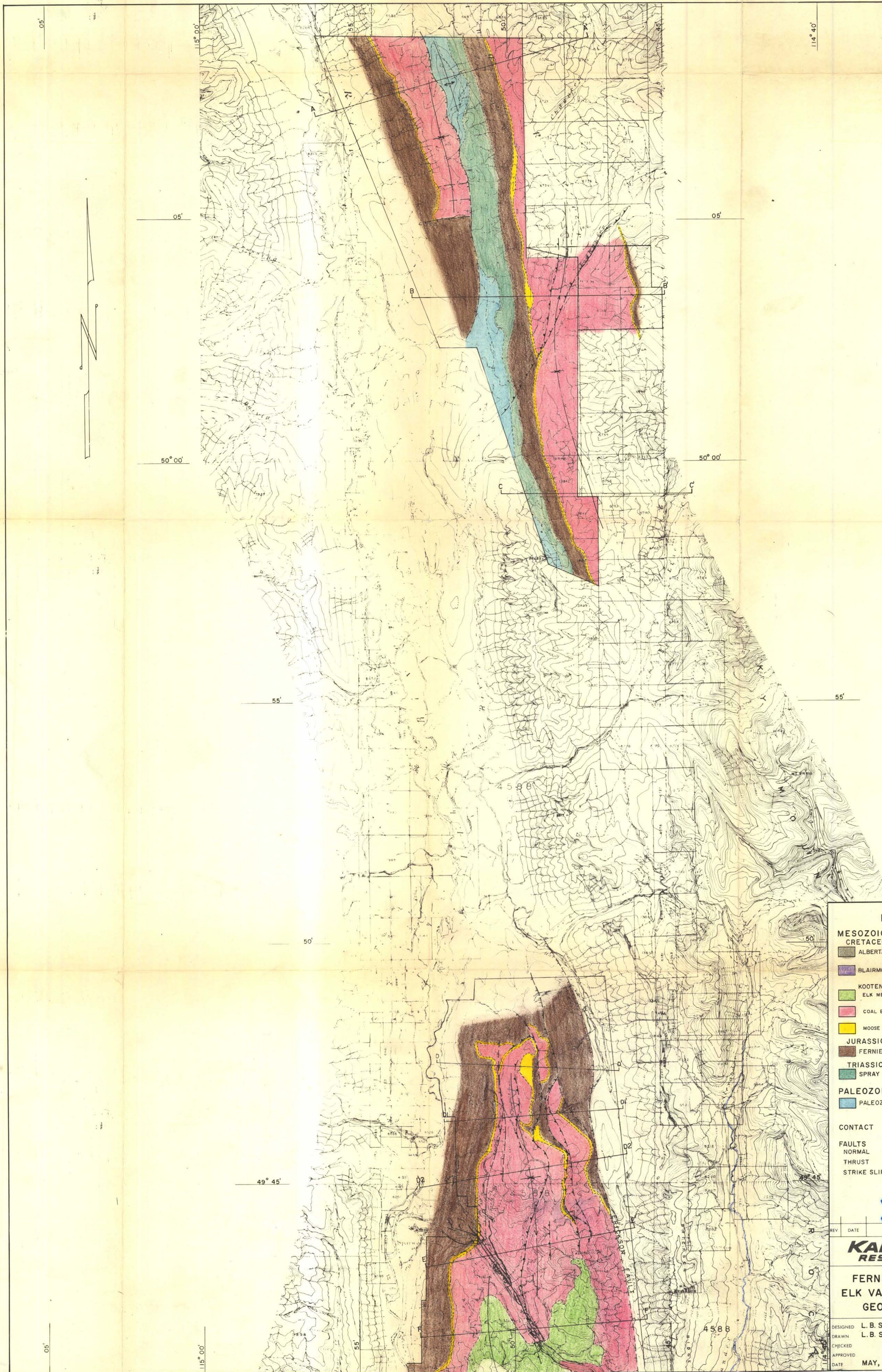


GEOLOGICAL BRANCH  
K-KAISER FREEHOLDS (GENERAL) 75(2) A  
ASSESSMENT REPORT  
DEPENDENT  
MAPS + CROSS SECTIONS.  
00 339  
KAISER RESOURCES LTD. DEC. 1973

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**LEGEND**

**MESOZOIC**  
**CRETACEOUS**  
 ALBERTA GROUP  
 BLAIRMORE GROUP  
 KOOTENAY FORMATION  
 ELK MEMBER  
 COAL BEARING MEMBER  
 MOOSE MOUNTAIN MEMBER

**JURASSIC**  
 FERNIE FORMATION (UNDIFF.)

**TRIASSIC**  
 SPRAY RIVER FORMATION

**PALEOZOIC**  
 PALEOZOICS (UNDIFF.)

**CONTACT** -----

**FAULTS**  
 NORMAL: - - - - -  
 THRUST: - - - - -  
 STRIKE SLIP: - - - - -

**339** *plc*

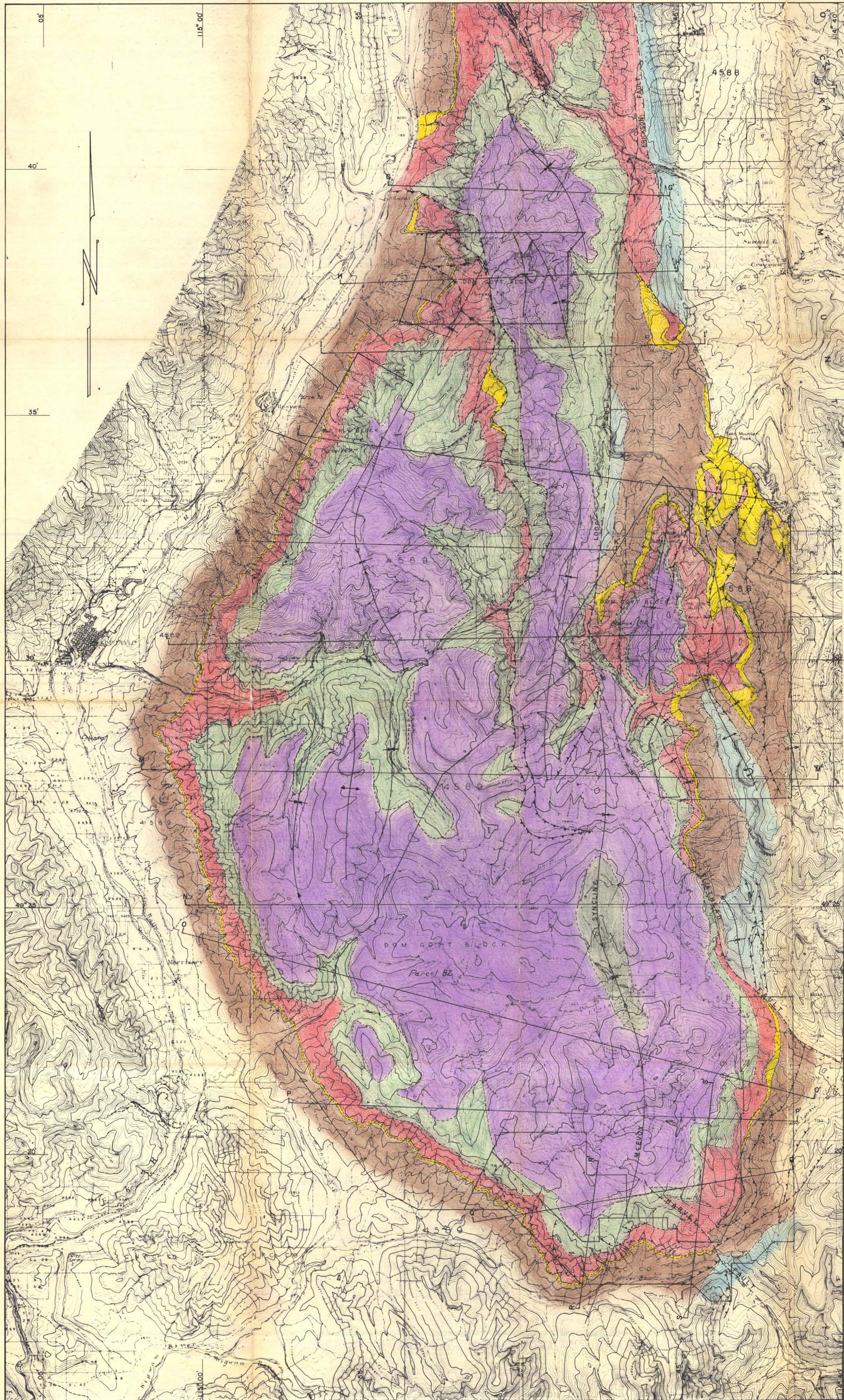
REV	DATE	REVISION	DR.	CH.	APP.

**KAISER RESOURCES** NATAL, B.C.

**FERNIE COAL BASIN & ELK VALLEY COAL FIELD GEOLOGICAL MAP**

DESIGNED L. B. S.	SCALES
DRAWN L. B. S.	HOR. 1" = 1 MILE
CHECKED	VERT. 1" = 1 MILE
APPROVED	DWG. NO. 191-15-1
DATE MAY, 1973	SHEET 1 OF 2 #





**LEGEND**

**MESOZOIC**

**CRETACEOUS**

- ALBERTA GROUP
- BLAIRMORE GROUP
- KOOTENAY FORMATION
  - ELK MEMBER
  - COAL-BEARING MEMBER
  - MOOSE MOUNTAIN MEMBER
- JURASSIC
  - FERNIE FORMATION
- TRIASSIC
  - SPRAY RIVER FORMATION
  - (UNDIFF.)

**PALEOZOIC**

- PALEOZOICS (UNDIFF.)

**CONTACT** - - - - -

**FAULTS**

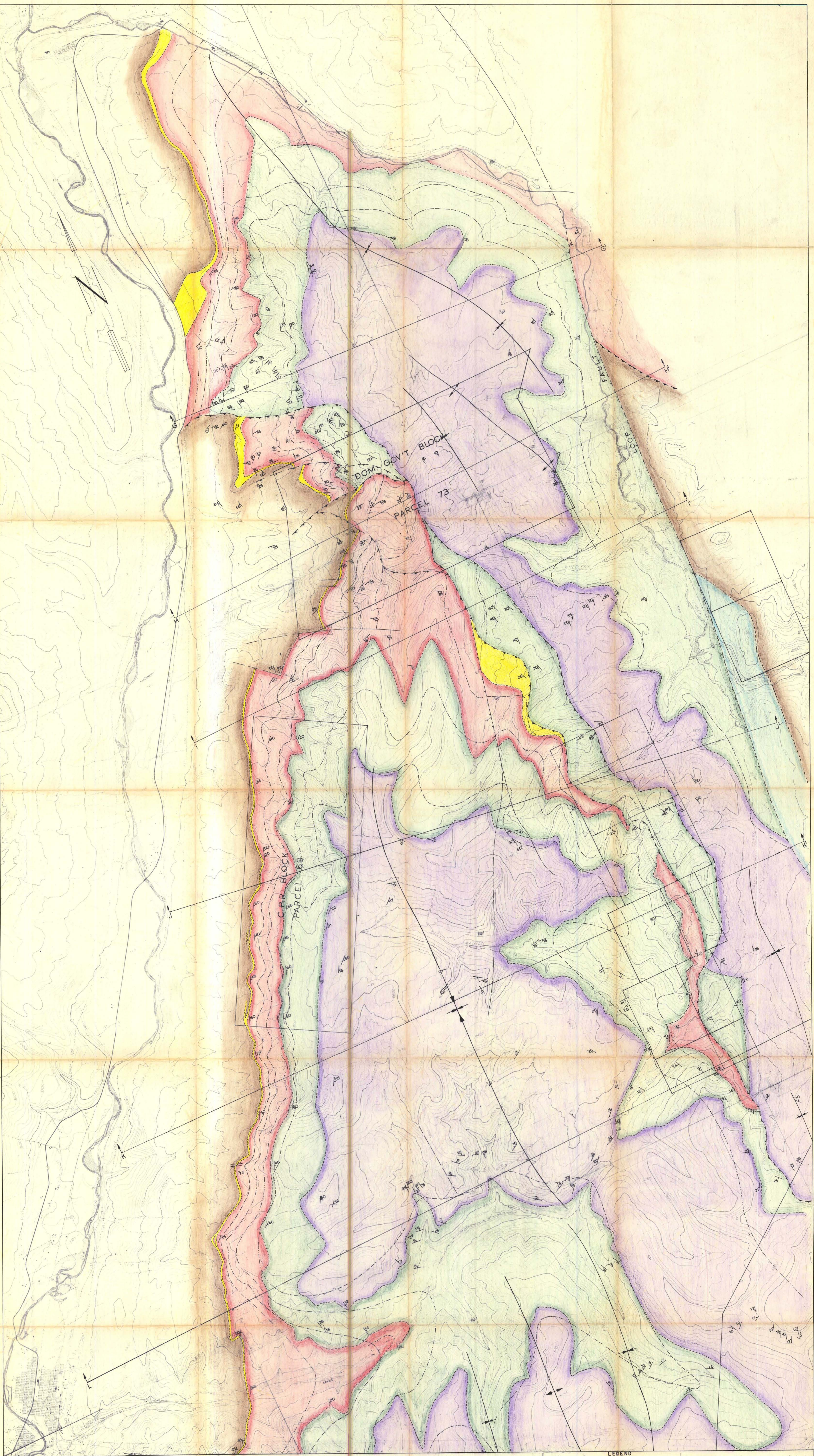
- NORMAL - - - - -
- THRUST - - - - -
- STRIKE SLIP - - - - -

Plc

**339**

REV.	DATE	REVISION	DR.	CH.	APP.
<b>KAISER RESOURCES</b>					
NATAL, B.C.					
<b>FERNIE COAL BASIN</b>					
<b>GEOLOGICAL MAP</b>					
DESIGNED	L.B.S.	SCALES			
DRAWN	L.B.S.	HOR. 1" = 1 MILE			
CHECKED		VERT. 1" = 1 MILE			
APPROVED		DWG. NO.		REV.	
DATE	MAY, 1973	191-15-1		SHEET 2 OF 2	





**LEGEND**

MESOZOIC	ALBERTA GROUP	BLAIRMORE GROUP	KOOTENAY FORMATION	ELK MEMBER	COAL-BEARING MEMBER	WOODS MOUNTAIN MEMBER	JURASSIC	FRASER RIVER FORMATION	PALEOZOIC	PALEOZOIC (UNDIFF.)
---	---	---	---	---	---	---	---	---	---	---

--- NORMAL FAULT  
 --- THRUST FAULT  
 --- STRIKE-SLIP FAULT

**339**

DESIGNED	R.B.	DRAWN	---	CHECKED	---	APPROVED	---	DATE	JANUARY, 1974
Kaiser Resources		NATAL, B.C.		FERNIE COAL BASIN		GEOLOGICAL PLAN MAP		SCALE: 1" = 2000'	
								PAGE NO. 191-16-1(A)	





DOM. GOV'T. BLOCK  
PARCEL 82

339

LEGEND		REV.	DATE	REV.	DATE	BY	CHK.	DATE
M	MESOZOIC							
C	CRETACEOUS							
A	ALBERTA GROUP							
B	BLAIRMORE GROUP							
K	KOOTENAY FORMATION							
E	ELK MEMBER							
C	COAL-BEARING MEMBER							
M	MOOSE MOUNTAIN MEMBER							
J	JURASSIC							
F	FRANKFURT FORMATION							
T	TERRACON FORMATION							
P	PALEOZOIC							
U	UNCONFORMITY							
N	NORMAL FAULT							
T	THRUST FAULT							
S	STRIKE-SLIP FAULT							

KAISER RESOURCES

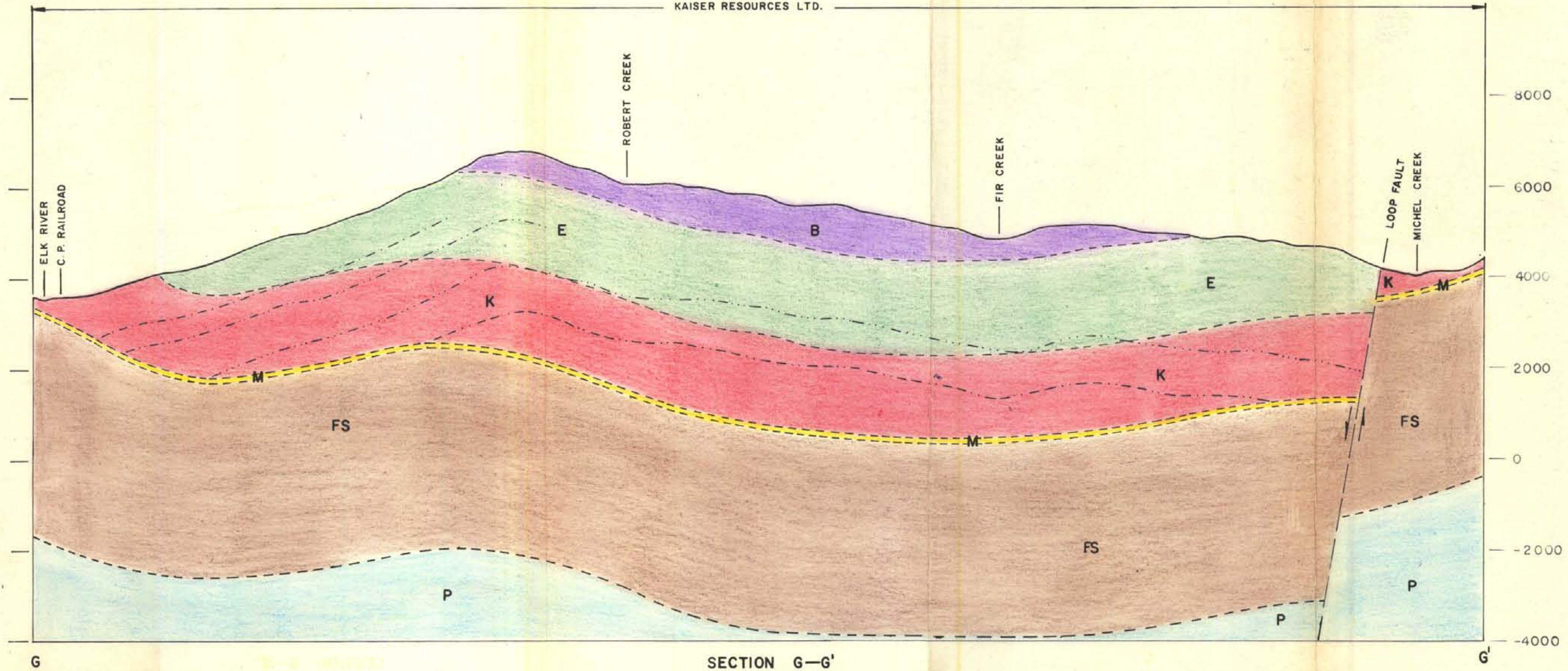
NATAL B.C.

FERNIE COAL BASIN  
GEOLOGICAL PLAN MAP

DESIGNED	R.B.	SCALE	HOR. 1" = 2000'
DRAWN		VERT.	
CHECKED		DWG. NO.	191-16-1 (B)
APPROVED		REV.	
DATE	JANUARY, 1974		



KAISER RESOURCES LTD.



- LEGEND**
- MESOZOIC**  
**CRETACEOUS**  
 A ALBERTA GROUP  
 B BLAIRMORE GROUP  
 E KOOTENAY FORMATION ELK MEMBER  
 K COAL-BEARING MEMBER  
 M MOOSE MOUNTAIN MEMBER
- JURASSIC**  
 F FERNIE FORMATION
- TRIASSIC**  
 SR SPRAY RIVER FORMATION
- PALEOZOICS**  
 P PALEOZOICS (UNDIFF.)
- FAULT  
 - - - 1000' COVER LINE  
 - - - 1500' COVER LINE  
 - - - 2500' COVER LINE  
 - - - 3500' COVER LINE

**KAISER RESOURCES**  
 SPARWOOD, B. C.

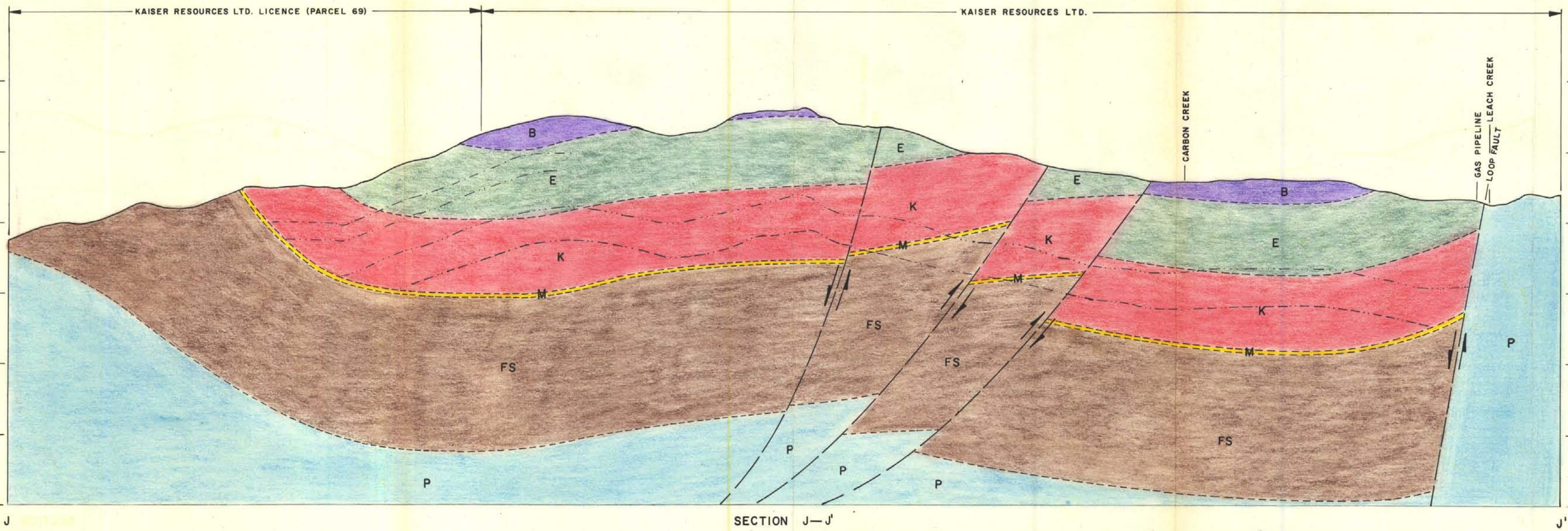
**FERNIE COAL BASIN**  
**SPARWOOD RIDGE**  
**STRUCTURAL CROSS-SECTION**

DRAWN R.B.  
 CHECKED  
 APPROVED  
 DATE DEC. 1973

SCALE  
 Horz 1" = 2000'  
 Vert 1" = 2000'

Draw No. 191-16-2





- LEGEND**
- MESOZOIC**  
**CRETACEOUS**
- A ALBERTA GROUP
  - B BLAIRMORE GROUP
  - E KOOTENAY FORMATION
  - E ELK MEMBER
  - K COAL-BEARING MEMBER
  - M MOOSE MOUNTAIN MEMBER
- JURASSIC**  
 F FERNIE FORMATION
- TRIASSIC**  
 SR SPRAY RIVER FORMATION
- PALEOZOICS**  
 P PALEOZOICS (UNDIFF.)
- FAULT  
 - - - 1000' COVER LINE  
 - - - 1500' COVER LINE  
 - - - 2500' COVER LINE  
 - - - 3500' COVER LINE

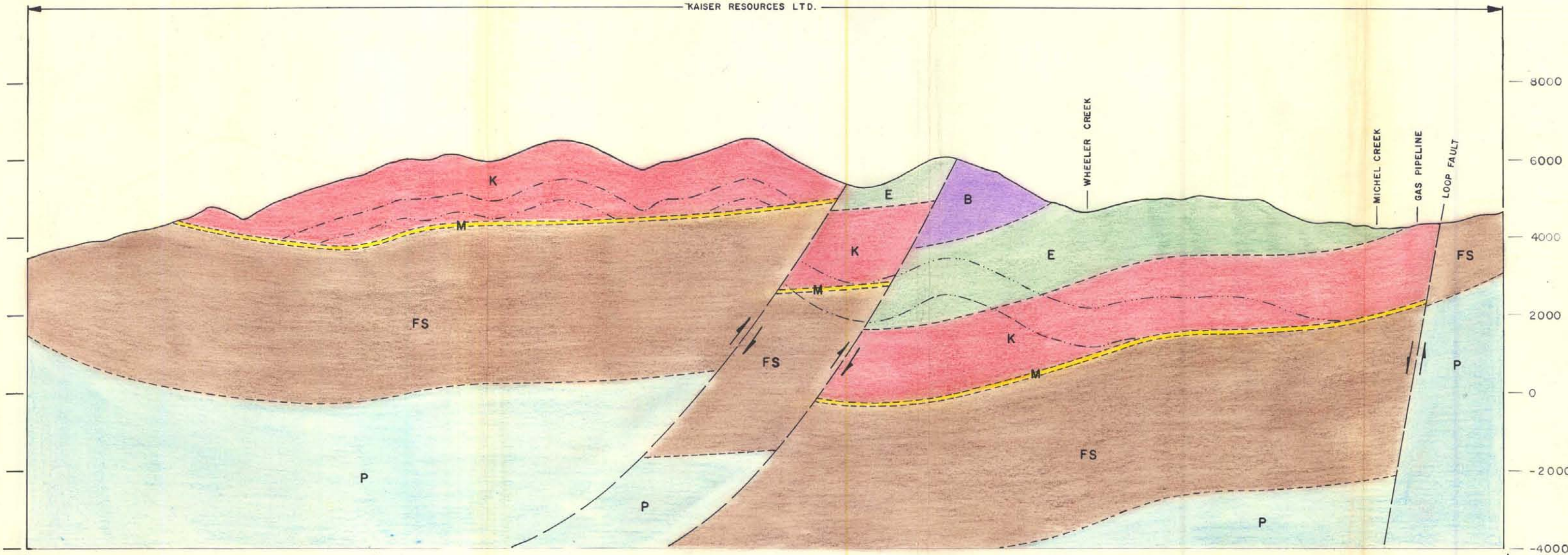
**KAISER RESOURCES**  
 SPARWOOD, B. C.

**FERNIE COAL BASIN**  
**HOSMER RIDGE**  
**STRUCTURAL CROSS-SECTION**

DRAWN	R. B.	SCALE:	1" = 2000'
CHECKED		Horz	1" = 2000'
APPROVED		Vert	1" = 2000'
DATE	DEC. 1973	Drawn By	191-16-5



KAISER RESOURCES LTD.



SECTION 1-1'

- LEGEND**
- MESOZOIC**
- CRETACEOUS**
- A ALBERTA GROUP
  - B BLAIRMORE GROUP
  - E KOOTENAY FORMATION
  - K COAL-BEARING MEMBER
  - M MOOSE MOUNTAIN MEMBER
- JURASSIC**
- FS FERNIE FORMATION (UNDIFF.)
- TRIASSIC**
- SR SPRAY RIVER FORMATION
- PALEOZOICS**
- P PALEOZOICS (UNDIFF.)
- FAULT  
 - - - - - 1000' COVER LINE  
 - · - · - 1500' COVER LINE  
 · · · · · 2500' COVER LINE  
 · · · · · 3500' COVER LINE

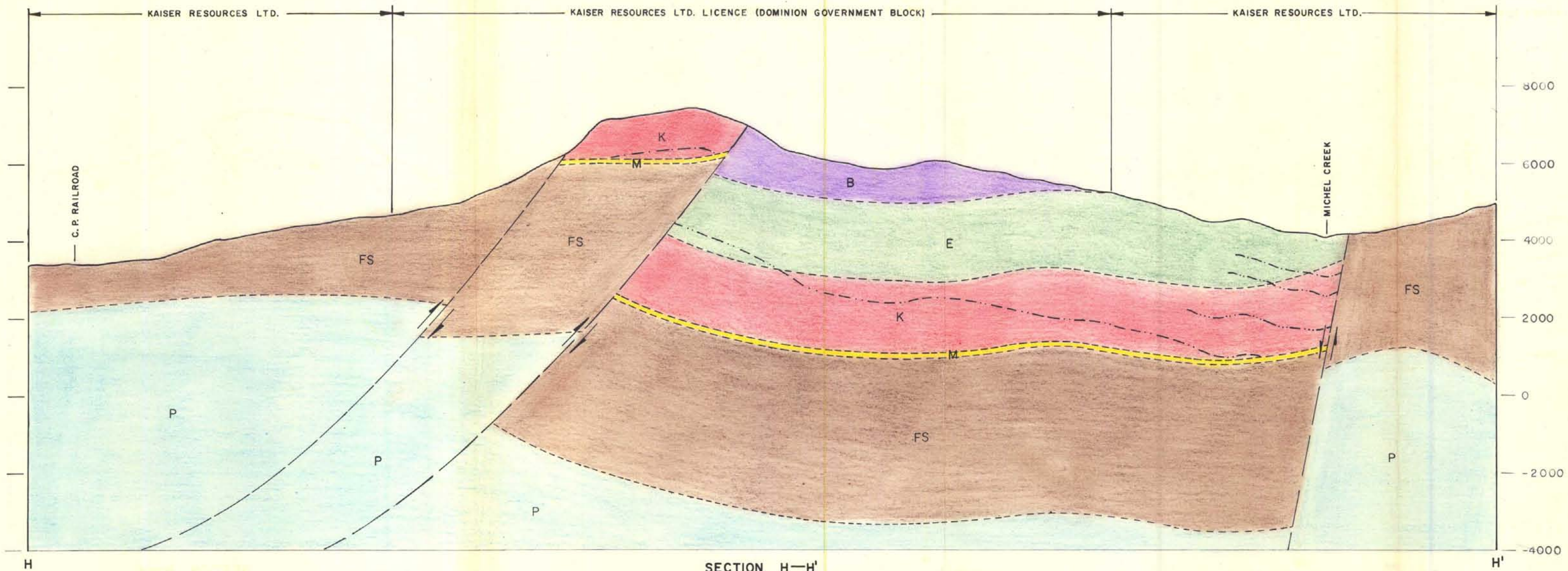
**KAISER RESOURCES**  
SPARWOOD, B. C.

**FERNIE COAL BASIN**  
HOSMER RIDGE

**STRUCTURAL CROSS-SECTION**

DRAWN	R. B.	SCALE	1" = 2000'
CHECKED		Horz	1" = 2000'
APPROVED		Vert	1" = 2000'
DATE	DEC. 1973	Draw No.	191-16-4





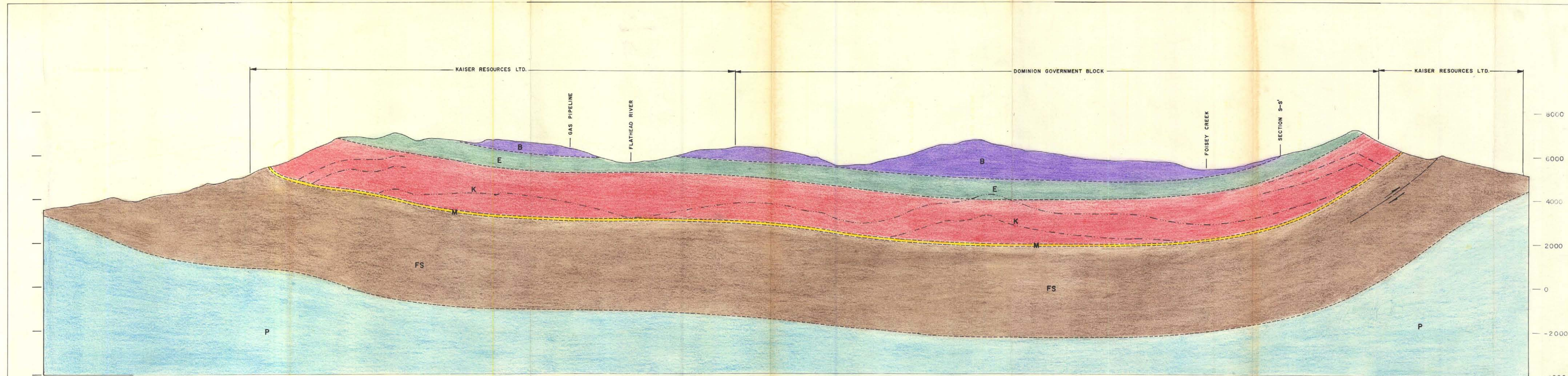
- LEGEND**
- MESOZOIC**
- CRETACEOUS**
- A ALBERTA GROUP
  - B BLAIRMORE GROUP
  - E KOOTENAY FORMATION  
ELK MEMBER
  - K COAL-BEARING MEMBER
  - M MOOSE MOUNTAIN MEMBER
- JURASSIC**
- FS FERNIE FORMATION (UNDIFF.)
- TRIASSIC**
- SR SPRAY RIVER FORMATION
- PALEOZOICS**
- P PALEOZOICS (UNDIFF.)
- FAULT
- - - 1000' COVER LINE
- · - · - 1500' COVER LINE
- · · - · - 2500' COVER LINE
- · · · - · - 3500' COVER LINE

**KAISER RESOURCES**  
SPARWOOD, B. C.

**FERNIE COAL BASIN**  
**SPARWOOD RIDGE**  
**STRUCTURAL CROSS-SECTION**

DRAWN	R.B.	SCALE	1" = 2000'
CHECKED		Horz	1" = 2000'
APPROVED		Vert	1" = 2000'
DATE	DEC. 1973	Draw No	191-16-3





- LEGEND**
- MESOZOIC CRETACEOUS**
- A ALBERTA GROUP
  - B BLAIRMORE GROUP
  - E KOOTENAY FORMATION
  - E ELK MEMBER
  - K COAL BEARING MEMBER
  - M MOOSE WATSON MEMBER
- JURASSIC FERNIE FORMATION** } FS (UNDIFF.)
- TRIASSIC SPRAY RIVER FORMATION** } SR
- PALEOZOICS**
- P PALEOZOICS (UNDIFF.)
- FAULT
- - - 000' COVER LINE
- - - 1500' COVER LINE
- - - 2500' COVER LINE
- - - 3500' COVER LINE

**KAISER RESOURCES**  
SPARWOOD, B. C.

**FERNIE COAL BASIN**  
**FLATHEAD RIDGE**  
**STRUCTURAL CROSS-SECTION**

DRAWN: R.B. SCALE: 1" = 2000'

CHECKED: \_\_\_\_\_ DATE: DEC. 1973

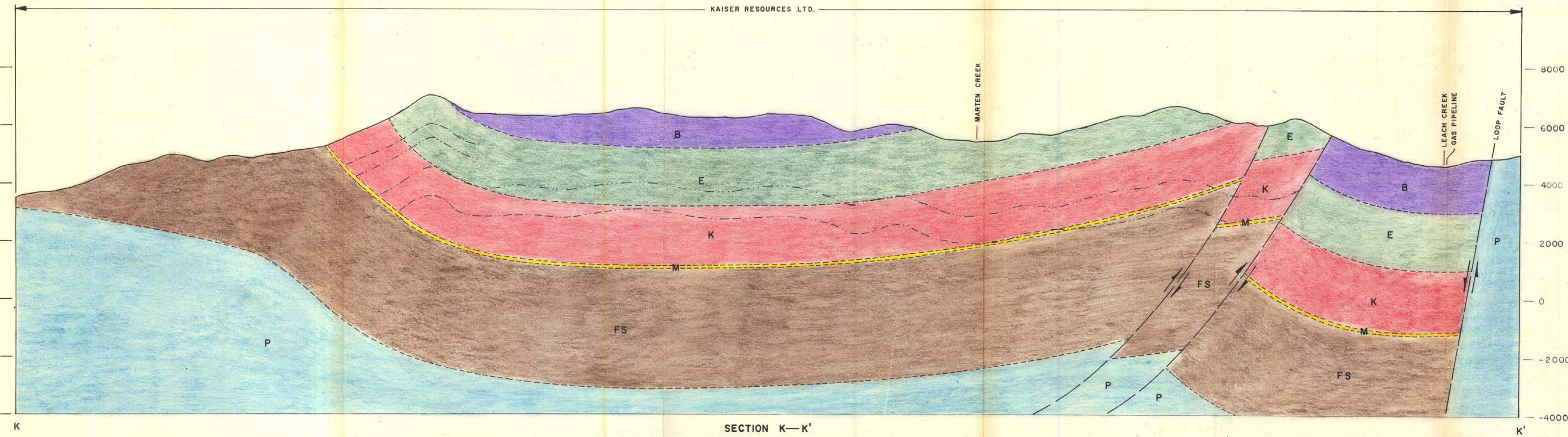
APPROVED: \_\_\_\_\_

Drawn by: 191-16-11

SECTION P—P'



KAISER RESOURCES LTD.



SECTION K-K'

- LEGEND**
- MESOZOIC**
- CRETACEOUS**
- A ALBERTA GROUP
  - B BLAIRMORE GROUP
- JURASSIC**
- E KOOTENAY FORMATION
  - K ELK MEMBER
  - M COAL-BEARING MEMBER
  - M MOOSE MOUNTAIN MEMBER
- JURASSIC FERNIE FORMATION** (FS) (UNDIFF.)
- TRIASSIC**
- SR SPRAY RIVER FORMATION
- PALEOZOICS**
- P PALEOZOICS (UNDIFF.)
- FAULT
- - - 1000' COVER LINE
- - - 1500' COVER LINE
- - - 2500' COVER LINE
- - - 3500' COVER LINE

**KAISER RESOURCES**  
SPARWOOD, B. C.

**FERNIE COAL BASIN**  
FERNIE RIDGE-MARTEN RIDGE

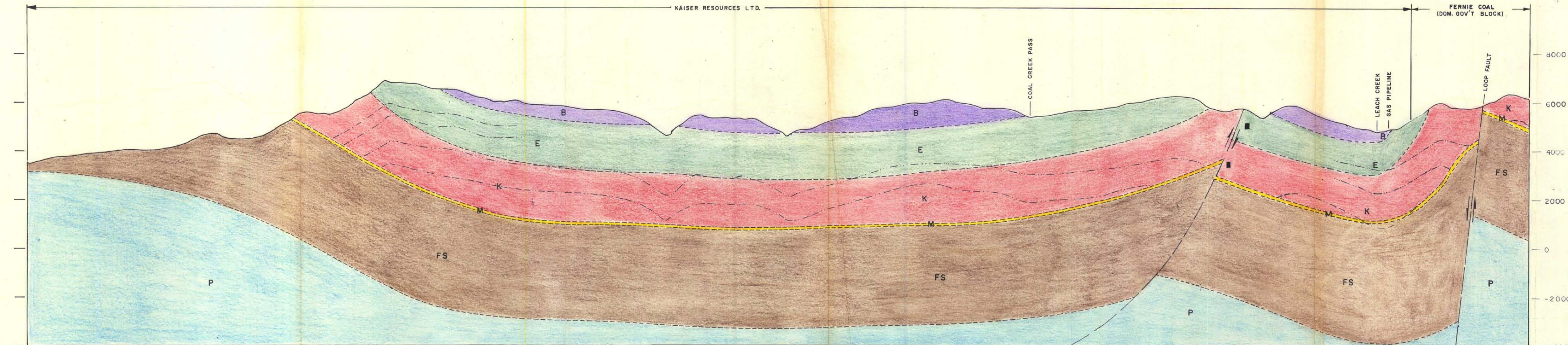
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CHECKED		Horz	1" = 2000'
APPROVED		Vert	1" = 2000'
DATE	DEC. 1973	Drawn By	191-16-6



KAISER RESOURCES LTD.

FERNIE COAL (DOM. GOV'T BLOCK)



- LEGEND**
- MESOZOIC**
- CRETACEOUS**
- A ALBERTA GROUP
  - B BLAIRMORE GROUP
  - E KOOTENAY FORMATION
  - E ELK MEMBER
  - K COAL-BEARING MEMBER
  - M MOOSE MOUNTAIN MEMBER
- JURASSIC**
- F FERNIE FORMATION
- TRIASSIC**
- SR SPRAY RIVER FORMATION
- PALEOZOICS**
- P PALEOZOICS (UNDIFF.)
- FAULT
- - - 1000' COVER LINE
- - - 1500' COVER LINE
- - - 2500' COVER LINE
- - - 3500' COVER LINE

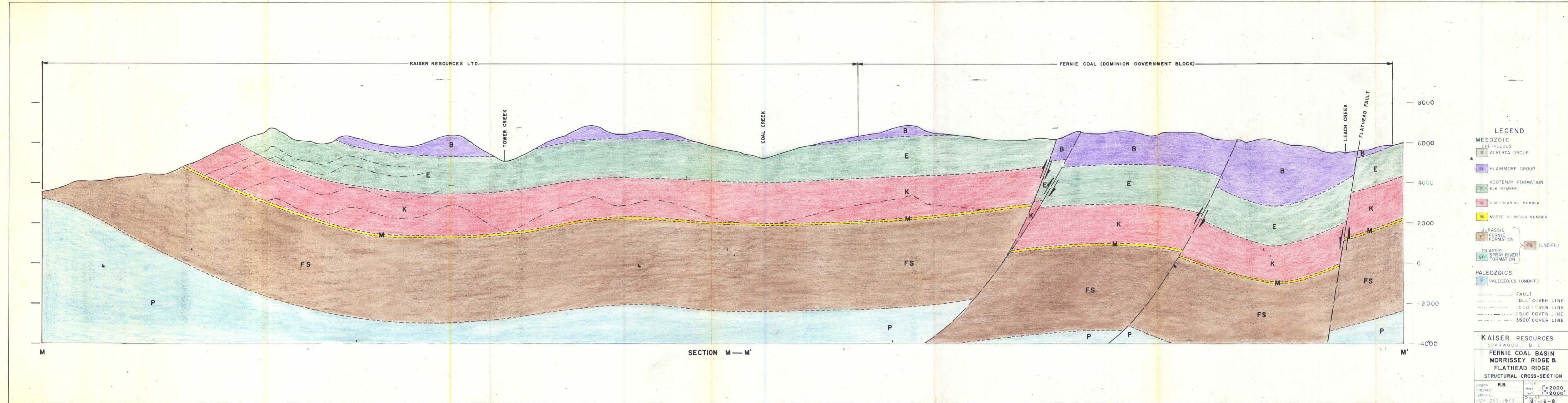
KAISER RESOURCES  
SPARWOOD, B. C.

FERNIE COAL BASIN  
FERNIE RIDGE—MARTEN RIDGE  
STRUCTURAL CROSS-SECTION

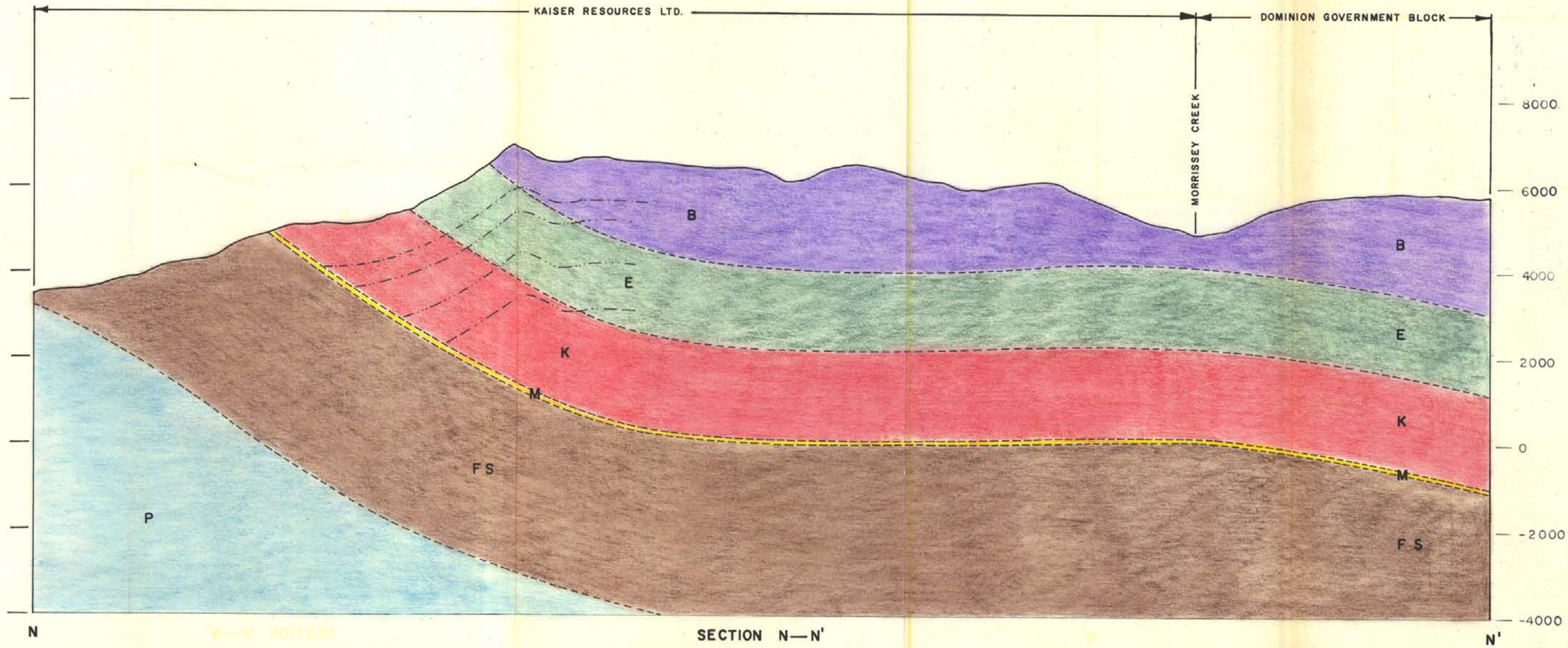
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CHECKED		Horz	1" = 2000'
APPROVED		Vert	1" = 2000'
DATE	DEC. 1973	Draw No.	191-16-7

SECTION L-L'









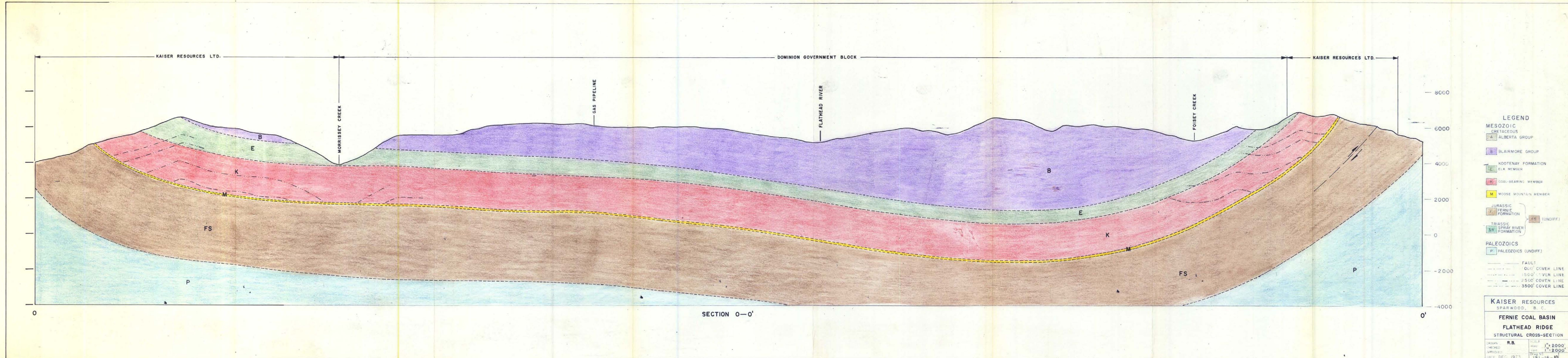
- LEGEND**
- MESOZOIC**  
**CRETACEOUS**  
 A ALBERTA GROUP  
 B BLAIRMORE GROUP  
 E KOOTENAY FORMATION  
 ELK MEMBER  
 K COAL-BEARING MEMBER  
 M MOOSE MOUNTAIN MEMBER
- JURASSIC**  
 F FERNIE FORMATION
- TRIASSIC**  
 SR SPRAY RIVER FORMATION
- PALEOZOICS**  
 P PALEOZOICS (UNDIFF.)
- FAULT  
 - - - 1000' COVER LINE  
 - - - - 1500' COVER LINE  
 - - - - - 2500' COVER LINE  
 - - - - - - 3500' COVER LINE

**KAISER RESOURCES**  
 SPARWOOD, B. C.

**FERNIE COAL BASIN**  
**MORRISSEY RIDGE &**  
**FLATHEAD RIDGE**  
**STRUCTURAL CROSS-SECTION**

DRAWN R.B. SCALE: Horz. 1" = 2000'  
 CHECKED \_\_\_\_\_ Vert. 1" = 2000'  
 APPROVED \_\_\_\_\_  
 DATE DEC. 1973 Draw No. 191-16-9





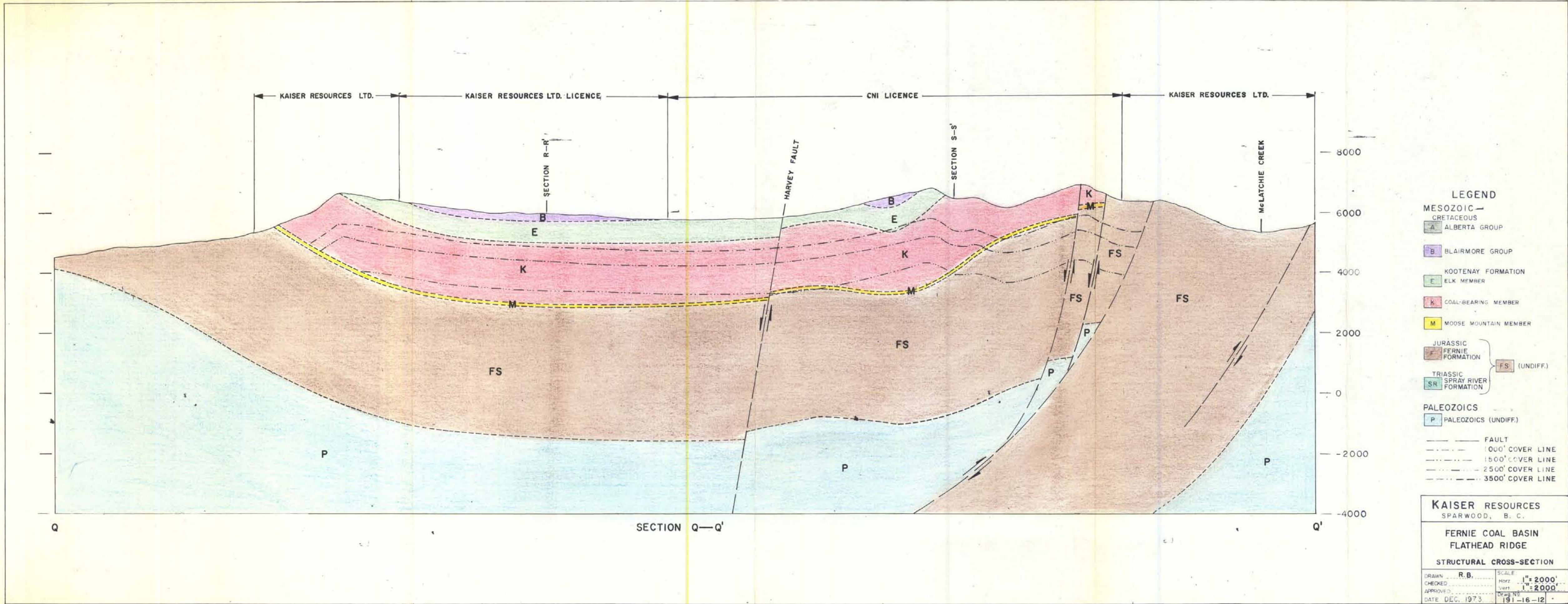
- LEGEND**
- MESOZOIC**
- CRETACEOUS**
- A ALBERTA GROUP
  - B BLAIRMORE GROUP
  - E KOOTENAY FORMATION
  - L ELK MEMBER
  - K COAL-BEARING MEMBER
  - M MOOSE MOUNTAIN MEMBER
- JURASSIC**
- F FERNIE FORMATION
- TRIASSIC**
- SR SPRAY RIVER FORMATION
- PALEOZOICS**
- P PALEOZOICS (UNDIFF.)
- FAULT
- 000' COVER LINE
- 1500' COVER LINE
- 2500' COVER LINE
- 3500' COVER LINE

**KAISER RESOURCES**  
SPARWOOD, B. C.

**FERNIE COAL BASIN**  
**FLATHEAD RIDGE**  
STRUCTURAL CROSS-SECTION

DRAWN: R.B. SCALE: 1"=2000'  
 CHECKED: J.V. DATE: DEC. 1973  
 APPROVED: DATE: 191-16-10





- LEGEND**
- MESOZOIC —**
- CRETACEOUS**
- A ALBERTA GROUP
  - B BLAIRMORE GROUP
  - E ELK MEMBER
  - K COAL-BEARING MEMBER
  - M MOOSE MOUNTAIN MEMBER
- JURASSIC**
- FS FERNIE FORMATION (UNDIFF.)
- TRIASSIC**
- SR SPRAY RIVER FORMATION
- PALEOZOICS**
- P PALEOZOICS (UNDIFF.)
- FAULT
- - - 1000' COVER LINE
- · · 1500' COVER LINE
- · · · 2500' COVER LINE
- · · · · 3500' COVER LINE

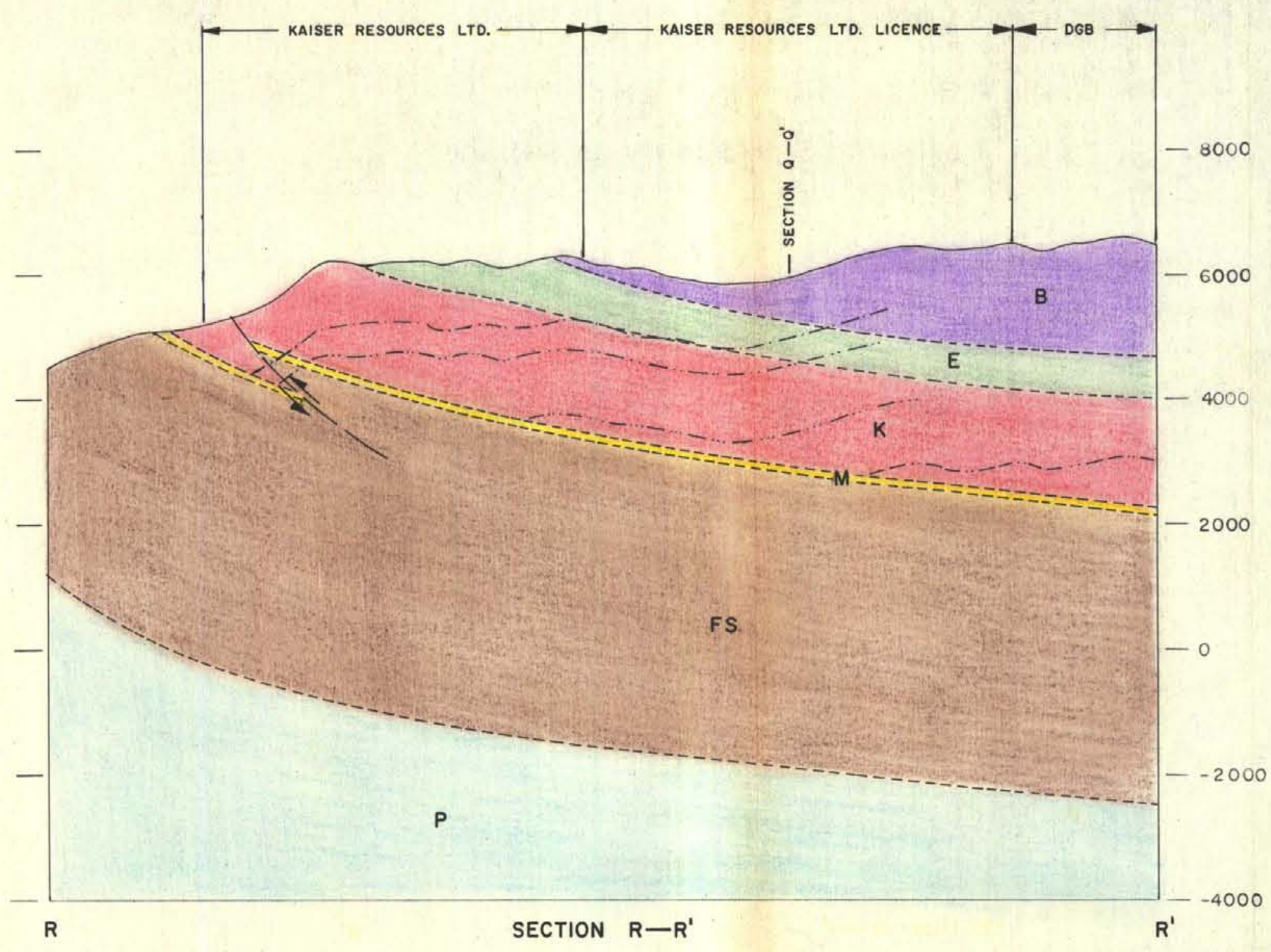
**KAISER RESOURCES**  
SPARWOOD, B. C.

**FERNIE COAL BASIN**  
**FLATHEAD RIDGE**

**STRUCTURAL CROSS-SECTION**

DRAWN	R.B.	SCALE	Horz 1" = 2000'
CHECKED		Vert	1" = 2000'
APPROVED		Drawn By	
DATE DEC. 1973		Draw No	191-16-12





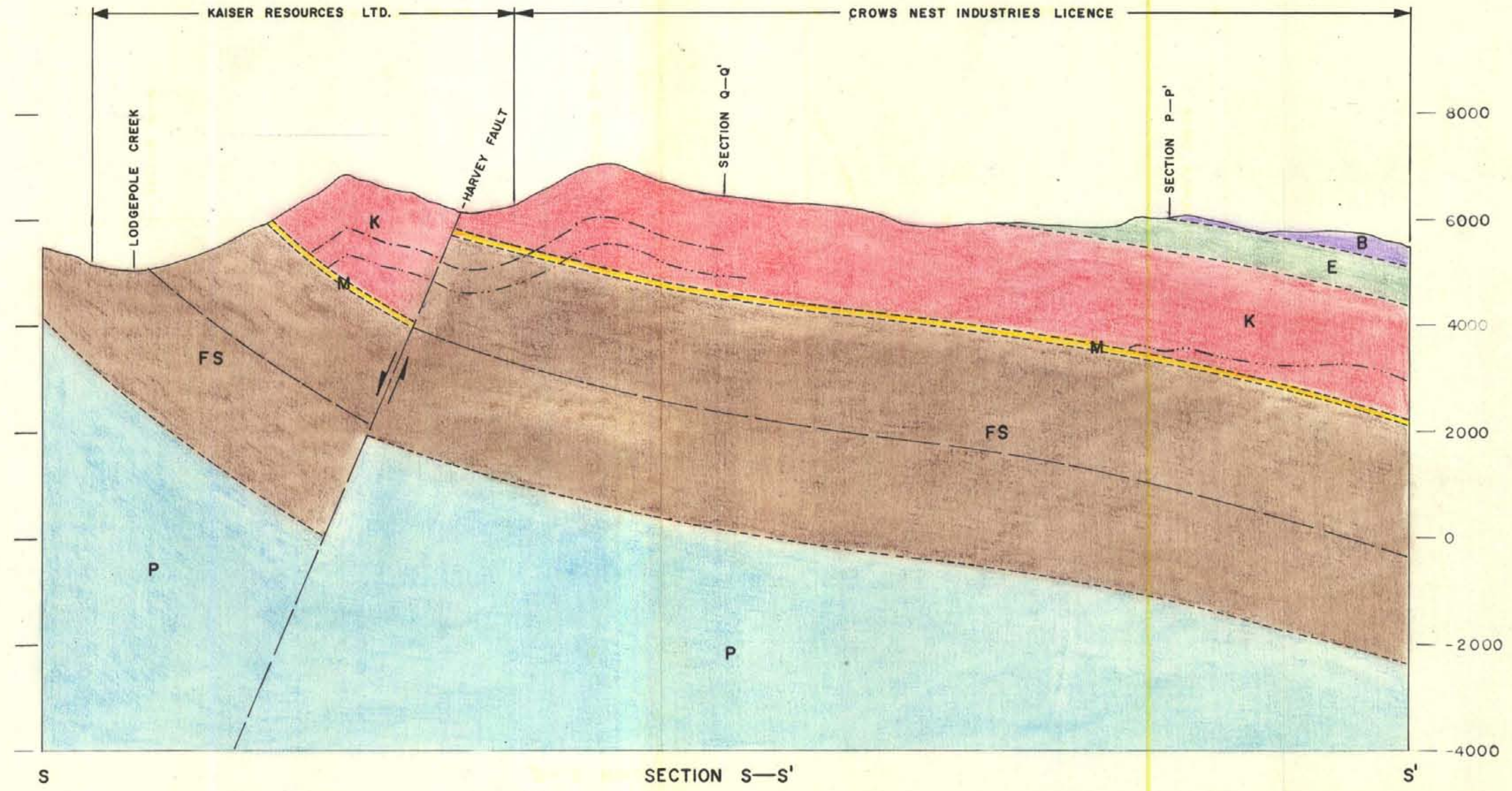
- LEGEND**
- MESOZOIC**
- CRETACEOUS**
- A ALBERTA GROUP
  - B BLAIRMORE GROUP
  - E ELK MEMBER
  - K COAL-BEARING MEMBER
  - M MOOSE MOUNTAIN MEMBER
- JURASSIC**
- FS (UNDIFF.)
- TRIASSIC**
- SR SPRAY RIVER FORMATION
- PALEOZOICS**
- P PALEOZOICS (UNDIFF.)
- — — — — FAULT
- - - - - 1000' COVER LINE
- · · · · 1500' COVER LINE
- · - · - 2500' COVER LINE
- · - · - 3500' COVER LINE

**KAISER RESOURCES**  
SPARWOOD, B. C.

**FERNIE COAL BASIN**  
**FLATHEAD RIDGE**  
**STRUCTURAL CROSS-SECTION**

DRAWN <b>R.B.</b>	SCALE: Horz. <b>1" = 2000'</b>
CHECKED	Vert. <b>1" = 2000'</b>
APPROVED	Drwg No. <b>191-16-13</b>
DATE <b>DEC. 1973</b>	





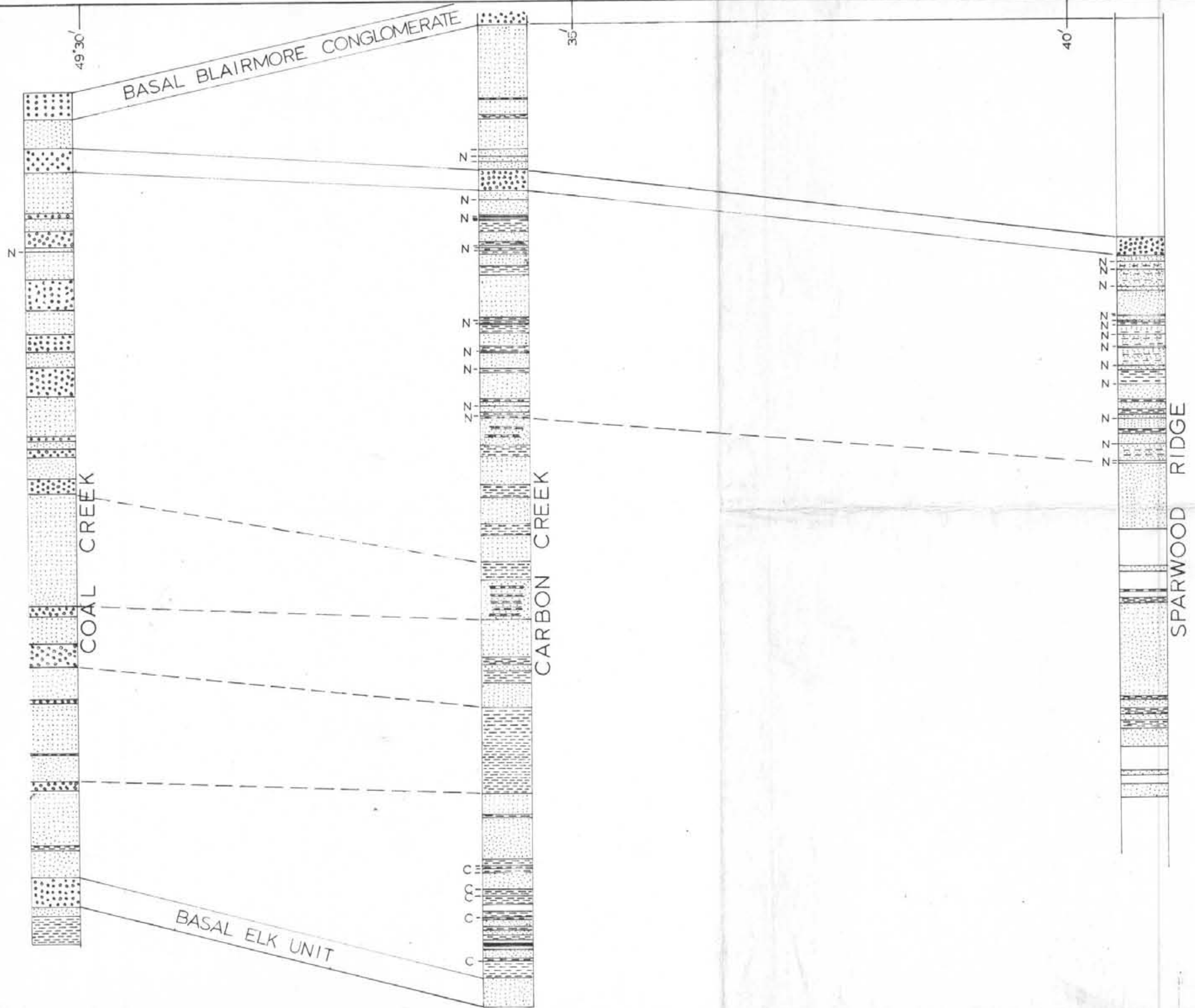
- LEGEND**
- MESOZOIC**  
**CRETACEOUS**  
 A ALBERTA GROUP  
 B BLAIRMORE GROUP  
 KOOTENAY FORMATION  
 E ELK MEMBER  
 K COAL-BEARING MEMBER  
 M MOOSE MOUNTAIN MEMBER
- JURASSIC**  
 FERNIE FORMATION
- TRIASSIC**  
 SPRAY RIVER FORMATION
- PALEOZOICS**  
 P PALEOZOICS (UNDIFF.)
- FAULT  
 - - - 1000' COVER LINE  
 - - - 1500' COVER LINE  
 - - - 2500' COVER LINE  
 - - - 3500' COVER LINE

**KAISER RESOURCES**  
 SPARWOOD, B. C.




**FERNIE COAL BASIN**  
**FLATHEAD RIDGE**  
**STRUCTURAL CROSS-SECTION**

DRAWN R.B.	SCALE
CHECKED	Horz 1" = 2000'
APPROVED	Vert 1" = 2000'
DATE DEC. 1973	Draw No 191-16-14





LEGEND

-  - CONGLOMERATE
-  - SANDSTONE
-  - SHALE
- N - NEEDLE COAL
- C - COAL

REV.	DATE	REVISION	DR	CH	APP
<b>KAISER RESOURCES</b> NATAL, B.C.					
<b>CORRELATION CHART</b> <b>ELK MEMBER</b> <b>FERNIE RIDGE - MARTEN RIDGE -</b> <b>SPARWOOD RIDGE</b>					
DESIGNED	R.B.		SCALE		
DRAWN			HOR 1" = 6000'		
RELATE			VERT 1" = 200'		
APPROVED			DRAWING NO.		
DATE	JANUARY, 1974		191-16-15		