BURNT RIDGE EXTENSION NORTH

262

AREA: BURNT RIDGE EXTENSION (NORTH)
TABLE Nº: 26

RESERVE ESTIMATE — (0–1500' COVER)

SEAM NAME	AVG. THICK.	PITCH 0–15° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 15°–30° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 30°–90° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)
1	26	25 % DIP							53,064													
3	18	20 % DIP							17,219													
PROVEN																						
PART. EXPL'D																						
PROJECTED																						
TOTALS									70,283													

SEAM NAME	CUMULATIVE TOTALS — RECOVERABLE RESERVES: OPEN PIT MINING PROVEN	OPEN PIT MINING PARTIALLY EXPLORED	OPEN PIT MINING PROJECTED	UNDERGROUND CONVENTIONAL PROVEN	UNDERGROUND CONVENTIONAL PARTIALLY EXPLORED	UNDERGROUND CONVENTIONAL PROJECTED	UNDERGROUND HYDRAULIC PROVEN	UNDERGROUND HYDRAULIC PARTIALLY EXPLORED	UNDERGROUND HYDRAULIC PROJECTED	TOTALS (000's TONS CLEAN)	SEAM NAME
1											
3											
PROVEN											
PART. EXPL'D											
PROJECTED											
TOTALS											

NOTE: (1) Average thickness computed from observations. (ie. drill holes, adit and outcrop measurements.)
(2)(i) Tons in place (cu. yds.) determined from : (a) Area of unmined coal.
(b) Average thickness as determined from (1)
(ii) 1 cu. yd. of coal in place = 1·15 net tons raw.
(iii) Slope correction applied to (2)(i)(a). (Area of unmined coal.) as follows:
(a) For 0°– 15° pitch – correction of 7½° applied to area.
(b) For 15°–30° pitch – correction of 22½° applied to area.
(c) For 30°–90° pitch – correction of 45° applied to area.

(3) Reserve Classification – Definitions for KRL property.
A – Proven Reserves – (In Place) –
Tons of coal (1·15 nt/cu.yd.) in the ground computed from observations (ie. drill holes, adits, outcrops, mine workings) spaced at intervals of 0·5 miles or less in areas of good geological continuity, with seam thickness greater than 5 feet and under less than 2500 feet of overburden.
B – Partially Explored Reserves – (In Place) –
Tons of coal (1·15 nt/cu.yd.) in the ground computed partially from observations generally spaced at intervals from 0·5 to 1·5 miles apart and partially from reasonable geological projections. Minimum seam thickness is 5 feet, and maximum overburden 2500 feet. Generally equivalent to "Probable" or "Indicated" in other systems of nomenclature.
C – Projected Reserves – (In Place) –
Tons of coal (1·15 nt/cu.yd.) in the ground where litte direct evidence is available but where geological studies have indicated the continuity of the coal bearing measures. Coal seam thickness projected from adjacent areas.

(4) Mining Method –
H – Probably better suited to hydraulic mining method. Used 50% recovery.
C – Probably suited to conventional room and pillar method. Used 85% recovery.
R – Probably suited to selective mining because of splits or proximity to other seams. Used 15% recovery.
O – Open Pit reserve. Assumed 85% recovery.

(5) Reserves Recoverable –
Proven Reserves (Recoverable) –
Proven Reserves (In Place) adjusted by well substantiated factors for mining and washing recovery.
Partially Explored Reserves (Recoverable) –
Partially Explored Reserves (In Place) adjusted by generalized factors for mining and washing recovery.

(6) Calculated yield (laboratory) at defined specific gravity arrived at by (a) bulk sample wash tests from adits and/or test pits, or (b) micro sample wash tests from adits and/or test pits.

AREA:
TABLE Nº:

BURNT RIDGE EXTENSION I EAST

262

AREA: BURNT RIDGE EXTENSION EAST
TABLE Nº: 23

RESERVE ESTIMATE — (0-1500 COVER)

SEAM NAME	AVG. THICK.	PITCH 0–15° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 15°–30° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 30°–90° AVG 31° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	CUMULATIVE TOTALS — RECOVERABLE RESERVES: OPEN PIT MINING PROVEN	OPEN PIT MINING PARTIALLY EXPLORED	OPEN PIT MINING PROJECTED	UNDERGROUND CONVENTIONAL PROVEN	UNDERGROUND CONVENTIONAL PARTIALLY EXPLORED	UNDERGROUND CONVENTIONAL PROJECTED	UNDERGROUND HYDRAULIC PROVEN	UNDERGROUND HYDRAULIC PARTIALLY EXPLORED	UNDERGROUND HYDRAULIC PROJECTED	TOTALS (000's TONS CLEAN)	SEAM NAME
Adit 8	8.1															6,546	C	C		73.8	1.50												
Adit 7	17.4															19,026	C	C		83.1	1.50												
Adit 5	6.2															4,973	C	C		83.9	1.50												
Adit 3	5.2															4,208	C	C		100	1.50												
Adit 2	5.3															4,250	C	C		77.7	1.50												
Adit 1	10.4															8,373	C	C		87.0	1.50												
4	20.0															17,192	C	H															
3	26.0															22,310	C	H															
2	21.0															17,992	C	H															
1	26.0															22,310	C	H															
PROVEN																																	
PART. EXPL'D																																	
PROJECTED																122 635																	
TOTALS																																	

NOTE: (1) Average thickness computed from observations. (ie. drill holes, adit and outcrop measurements.)
(2)(i) Tons in place (cu. yds) determined from: (a) Area of unmined coal.
(b) Average thickness as determined from (1)
(ii) 1 cu. yd. of coal in place = 1·15 net tons raw.
(iii) Slope correction applied to (2)(i)(a). (Area of unmined coal.) as follows:
(a) For 0°– 15° pitch – correction of 7½° applied to area.
(b) For 15°–30° pitch – correction of 22½° applied to area.
(c) For 30°–90° pitch – correction of 45° applied to area.

Note Seams projected from Ewin Creek Licence Area

(3) Reserve Classification – Definitions for KRL property.
A – Proven Reserves – (In Place) –
Tons of coal (1·15nt/cu.yd.) in the ground computed from observations (ie. drill holes, adits, outcrops, mine workings) spaced at intervals of 0·5 miles or less in areas of good geological continuity, with seam thickness greater than 5 feet and under less than 2500 feet of overburden.
B – Partially Explored Reserves – (In Place) –
Tons of coal (1·15 nt/cu yd.) in the ground computed partially from observations generally spaced at intervals from 0·5 to 1·5 miles apart and partially from reasonable geological projections. Minimum seam thickness is 5 feet, and maximum overburden 2500 feet. Generally equivalent to "Probable" or "Indicated" in other systems of nomenclature.
C – Projected Reserves – (In Place) –
Tons of coal (1·15 nt/cu.yd.) in the ground where little direct evidence is available but where geological studies have indicated the continuity of the coal bearing measures. Coal seam thickness projected from adjacent areas.

(4) Mining Method –
H – Probably better suited to hydraulic mining method. Used 50% recovery.
C – Probably suited to conventional room and pillar method. Used 15% recovery.
R – Probably suited to selective mining because of splits or proximity to other seams. Used 15% recovery.
O – Open Pit reserve. Assumed 85% recovery.
(5) Reserves Recoverable –
Proven Reserves (Recoverable) –
Proven Reserves (In Place) adjusted by well substantiated factors for mining and washing recovery.
Partially Explored Reserves (Recoverable) –
Partially Explored Reserves (In Place) adjusted by generalized factors for mining and washing recovery.

(6) Calculated yield (laboratory) at defined specific gravity arrived at by (a) bulk sample wash tests from adits and/or test pits, or (b) micro sample wash tests from adits and/or test pits.

AREA:
TABLE Nº:

AREA: BURNT RIDGE EXTENSION EAST
TABLE Nº: 24

RESERVE ESTIMATE — (1500-2500 ' COVER)

262

SEAM NAME	AVG. THICK.	PITCH 0–15° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 15°–30° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 30°–90° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)
Adit 8	8.1															6,546	C	C		73.8	1.50	
Adit 7	17.4															14,026	C	C		83.1	1.50	
Adit 5	6.2															2,486	C	C		83.9	1.50	
Adit 3	5.2															2,104	C	C		100	1.50	
Adit 2	5.3															2,125	C	C		77.7	1.50	
Adit 1	10.4															4,187	C	C		87.0	1.50	
4	20.0															8,596	C	H				
3	26.0															11,155	C	H				
2	21.0															8,996	C	H				
1	26.0															11,155	C	H				
PROVEN																						
PART. EXPL'D																						
PROJECTED																71,136						
TOTALS																						

CUMULATIVE TOTALS — RECOVERABLE RESERVES

OPEN PIT MINING			UNDERGROUND CONVENTIONAL			UNDERGROUND HYDRAULIC			TOTALS (000's TONS CLEAN)	SEAM NAME
PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED		

NOTE: (1) Average thickness computed from observations. (ie. drill holes, adit and outcrop measurements.)
(2)(i) Tons in place (cu. yds.) determined from: (a) Area of unmined coal.
(b) Average thickness as determined from (1)
(ii) 1 cu. yd. of coal in place = 1·15 net tons raw.
(iii) Slope correction applied to (2)(i)(a). (Area of unmined coal.) as follows:
(a) For 0°–15° pitch – correction of 7½° applied to area.
(b) For 15°–30° pitch – correction of 22½° applied to area.
(c) For 30°–90° pitch – correction of 45° applied to area.

(3) Reserve Classification – Definitions for KRL property.
A – Proven Reserves – (In Place) –
Tons of coal (1·15 nt/cu.yd.) in the ground computed from observations (ie. drill holes, adits, outcrops, mine workings) spaced at intervals of 0·5 miles or less in areas of good geological continuity, with seam thickness greater than 5 feet and under less than 2500 feet of overburden.
B – Partially Explored Reserves – (In Place) –
Tons of coal (1·15 nt/cu yd.) in the ground computed partially from observations generally spaced at intervals from 0·5 to 1·5 miles apart and partially from reasonable geological projections. Minimum seam thickness is 5 feet, and maximum overburden 2500 feet. Generally equivalent to "Probable" or "Indicated" in other systems of nomenclature.
C – Projected Reserves – (In Place) –
Tons of coal (1·15 nt/cu.yd.) in the ground where little direct evidence is available but where geological studies have indicated the continuity of the coal bearing measures. Coal seam thickness projected from adjacent areas.

(4) Mining Method –
H – Probably better suited to hydraulic mining method. Used 50% recovery.
C – Probably suited to conventional room and pillar method. Used 15% recovery.
R – Probably suited to selective mining because of splits or proximity to other seams. Used 15% recovery.
O – Open Pit reserve. Assumed 85% recovery.

(5) Reserves Recoverable –
Proven Reserves (Recoverable) –
Proven Reserves (In Place) adjusted by well substantiated factors for mining and washing recovery.
Partially Explored Reserves (Recoverable) –
Partially Explored Reserves (In Place) adjusted by generalized factors for mining and washing recovery.

(6) Calculated yield (laboratory) at defined specific gravity arrived at by (a) bulk sample wash tests from adits and/or test pits, or (b) micro sample wash tests from adits and/or test pits.

AREA:
TABLE Nº:

AREA: BURNT RIDGE EXTENION EAST
TABLE Nº: 25

RESERVE ESTIMATE — (+2500 feet COVER)

262

SEAM NAME	AVG. THICK.	PITCH 0–15° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 15°–30° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 30°–90° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	CUMULATIVE TOTALS — RECOVERABLE RESERVES: OPEN PIT MINING PROVEN	OPEN PIT MINING PARTIALLY EXPLORED	OPEN PIT MINING PROJECTED	UNDERGROUND CONVENTIONAL PROVEN	UNDERGROUND CONVENTIONAL PARTIALLY EXPLORED	UNDERGROUND CONVENTIONAL PROJECTED	UNDERGROUND HYDRAULIC PROVEN	UNDERGROUND HYDRAULIC PARTIALLY EXPLORED	UNDERGROUND HYDRAULIC PROJECTED	TOTALS (000's TONS CLEAN)	SEAM NAME
Ad.+8																																
Ad.+7																																
Ad.+5																2,486																
Ad.+3																2,104																
Ad.+2																2,125																
Ad.+1																4,187																
4																8,596																
3																11,155																
2																8,996																
1																11,155																
PROVEN																																
PART. EXPL'D																																
PROJECTED																50 804																
TOTALS																																

NOTE: (1) Average thickness computed from observations. (ie. drill holes, adit and outcrop measurements.)
(2)(i) Tons in place (cu. yds.) determined from : (a) Area of unmined coal.
(b) Average thickness as determined from (1)
(ii) 1 cu. yd. of coal in place = 1·15 net tons raw.
(iii) Slope correction applied to (2)(i)(a). (Area of unmined coal.) as follows:
(a) For 0°–15° pitch – correction of 7½° applied to area.
(b) For 15°–30° pitch – correction of 22½° applied to area.
(c) For 30°–90° pitch – correction of 45° applied to area.

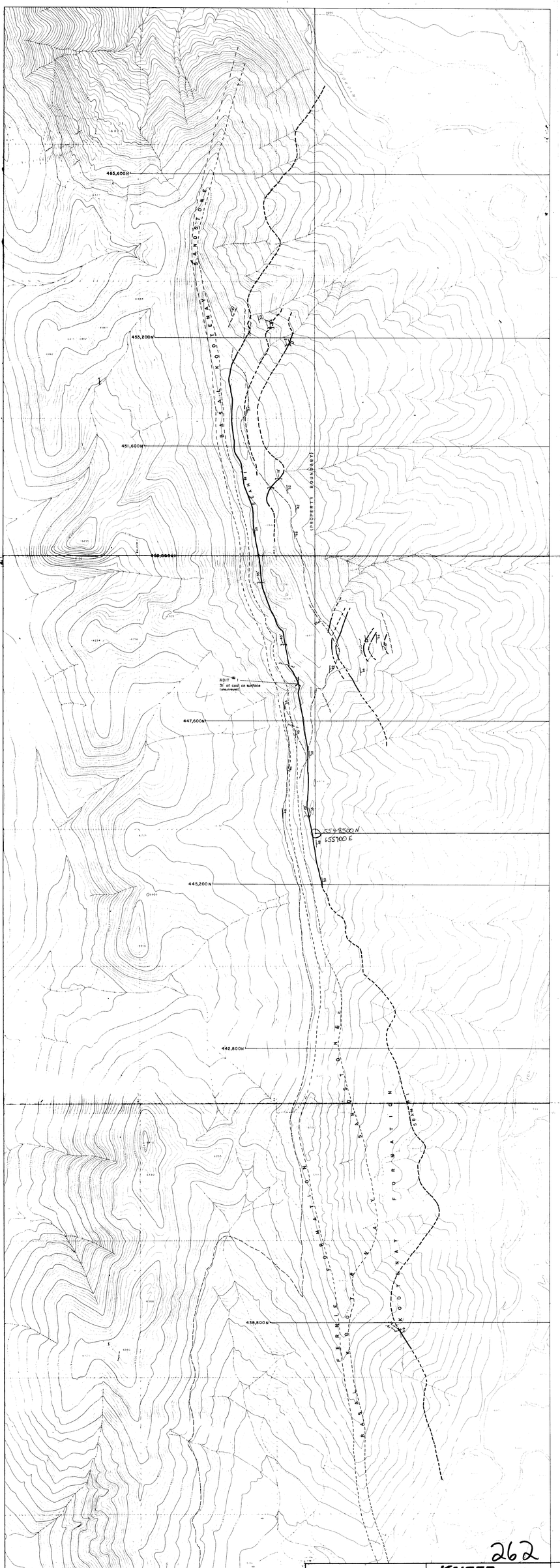
(3) Reserve Classification – Definitions for KRL property.
A – Proven Reserves – (In Place) –
Tons of coal (1·15 nt/cu. yd.) in the ground computed from observations (ie. drill holes, adits, outcrops, mine workings) spaced at intervals of 0·5 miles or less in areas of good geological continuity, with seam thickness greater than 5 feet and under less than 2500 feet of overburden.
B – Partially Explored Reserves – (In Place) –
Tons of coal (1·15 nt/cu. yd.) in the ground computed partially from observations generally spaced at intervals from 0·5 to 1·5 miles apart and partially from reasonable geological projections. Minimum seam thickness is 5 feet, and maximum overburden 2500 feet. Generally equivalent to "Probable" or "Indicated" in other systems of nomenclature.
C – Projected Reserves – (In Place) –
Tons of coal (1·15 nt/cu. yd.) in the ground where litte direct evidence is available but where geological studies have indicated the continuity of the coal bearing measures. Coal seam thickness projected from adjacent areas.

(4) Mining Method –
H – Probably better suited to hydraulic mining method. Used 50% recovery.
C – Probably suited to conventional room and pillar method. Used 15% recovery.
R – Probably suited to selective mining because of splits or proximity to other seams. Used 15% recovery.
O – Open Pit reserve. Assumed 85% recovery.
(5) Reserves Recoverable –
Proven Reserves (Recoverable) –
Proven Reserves (In Place) adjusted by well substantiated factors for mining and washing recovery.
Partially Explored Reserves (Recoverable) –
Partially Explored Reserves (In Place) adjusted by generalized factors for mining and washing recovery.

(6) Calculated yield (laboratory) at defined specific gravity arrived at by (a) bulk sample wash tests from adits and/or test pits, or (b) micro sample wash tests from adits and/or test pits.

AREA:
TABLE Nº:


KOOTENAY FORMATION
429,200 N
427,600 N
426,000 N
424,400 N
422,800 N
421,200 N
419,600 N
416,400 N
ADIT 3
ADIT 5
94,000 E
96,000 E
98,000 E
LEGEND
4-WHEEL DRIVE ROADS
COAL SEAM – TRACED AND SURVEYED
" " – TRACED AND NOT SURVEYED
" " – PROJECTED
22' CUT ON SEAM & SEAM THICKNESS
62 ATTITUDE OF ROCK
SYNCLINAL FOLD AXIS
ANTICLINAL FOLD AXIS
FAULTS
74(2)A
KAISER RESOURCES
NATAL, B.C.
COAL MOUNTAIN – BURNT RIDGE
262
DESIGNED
DRAWN L. B. SAMUELSON
CHECKED
APPROVED
DATE APRIL 15TH, 1971
SCALES
HOR. 1" = 400'
VERT. 20' CONT. INTERVAL
DWG. NO.
187 – 4 – 1
REV.



262

LEGEND

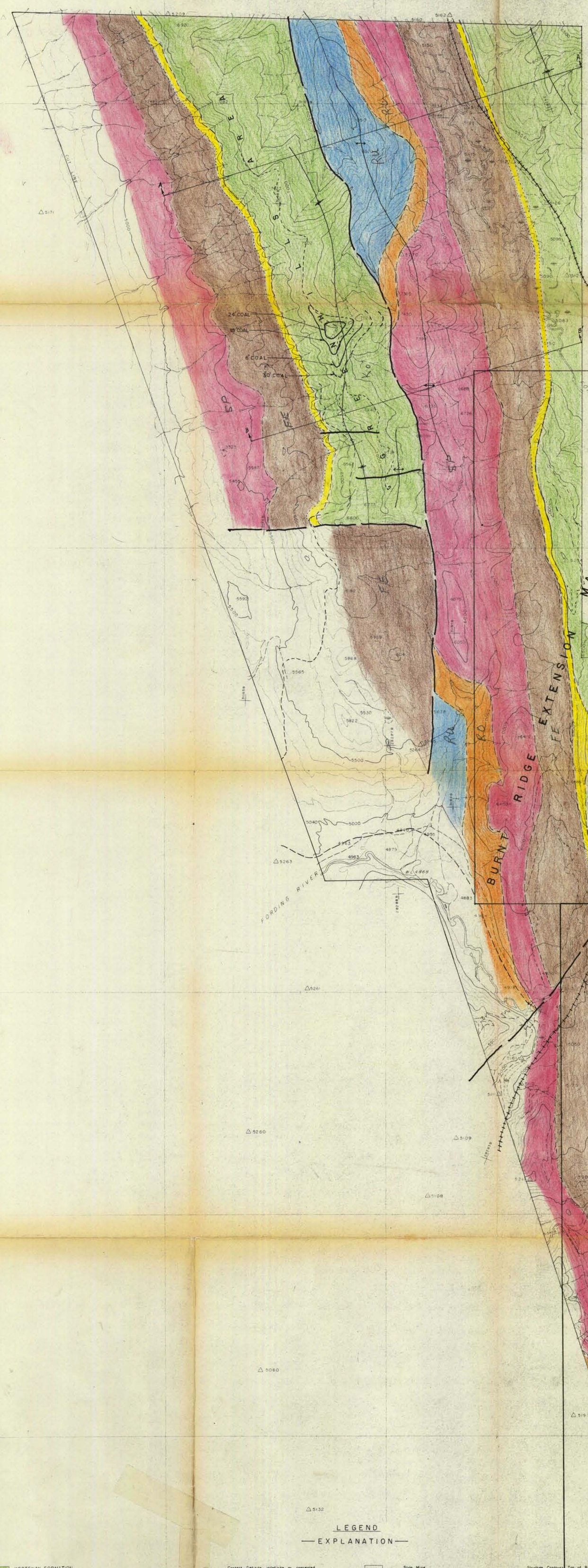
- 4-WHEEL DRIVE ROADS
- COAL SEAM-TRACED AND SURVEYED
- COAL SEAM-PROJECTED
- CUT ON SEAM & SEAM THICKNESS
- ATTITUDE OF ROCK
- SYNCLINAL FOLD AXIS
- ANTICLINAL FOLD AXIS
- FAULTS

KAISER RESOURCES NATAL, B.C.

BURNT RIDGE EXTENSION

74(2)A

DESIGNED	SCALES
DRAWN L. B. SAMUELSON	HOR 1" = 400'
CHECKED	VERT 20' CONT. INTERVAL
APPROVED	DWG NO 187-S-1 REV
DATE APRIL 19TH, 1971	



LEGEND

—EXPLANATION—

- KOOTENAY FORMATION
- BASAL KOOTENAY SANDSTONE
- FERNIE FORMATION
- SPRAY RIVER FORMATION
- ROCKY MOUNTIAN FORMATION
- RUNDLE GROUP

- Contact, Definite, indefinite or concealed
- Fault, Definite, indefinite or concealed
- Thrust Fault
- Anticline
- Syncline
- Fractures
- Dip and Strike
- Strip Mine
- Possible Strip Mine
- Explored Strip Mine
- Slump Block
- Underground Workings
- Seam Outcrop
- Structure Contours Top of Boskoo, Good Control
- Structure Contours Top of Boskoo, Fair Control
- Structure Contours Top of Boskoo, Poor Control
- Ridge Number
- Location of Adit
- Drill Hole
- Paved Highway
- Dirt Road

262

K-Burnt Ridge 7452A

KAISER RESOURCES NATAL, B.C.

COAL MOUNTAIN AREA
-NORTH END OF PROPERTY

DESIGNED	SCALES
DRAWN L.B. SAMUELSON.	HOR 1" = 2000'
CHECKED	VERT
APPROVED	DWG NO. 187-6-1
DATE APRIL, 1971	REV.

68-261

Lockwood Survey Corporation Limited
West Coast Division