

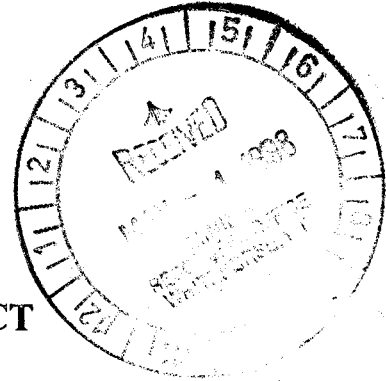
ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

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093 824



1997 FINAL REPORT
DIVISION MOUNTAIN PROJECT
SOUTHERN YUKON TERRITORY

Coal Exploration Licences Y479, Y480, Y486 and Y487
Coal Mining Leases 3000, 3001, 3002, 3003, 3004

Located on Map Sheet NTS 115H/8, 105E/5

Whitehorse Mining District

for

CASH RESOURCES LTD.

R.F. Gish, B.Sc.
March, 1998

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36	Cross Section 14+877N	Following Page 13
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SUMMARY AND RECOMMENDATIONS

The Division Mountain coal deposit is located 85 km north-northwest of Whitehorse in southwestern Yukon Territory. Access is by a 31 km four-wheel drive road leaving the Klondike Highway at Braeburn. The main area of exploration interest lies 20 km west of the highway and parallels the Yukon Energy Corporation electrical transmission grid. This point is 280 km by road from a year-round deepsea port at Skagway, Alaska.

Territorial Coal Exploration Licences encompassing the Division Mountain area were acquired by Cash Resources Ltd. in October 1992. These are held under renewable three year terms. Most of the area of detailed exploration at Division Mountain lies within five coal leases which grant mining rights for a twenty-one year term commencing April 1996.

Exploration at Division Mountain has been directed toward outlining sufficient open pitable reserves to maintain an export thermal coal mine and a 20 MW to 50 MW generating station for a period in excess of twenty years. In all, 64 diamond drill holes totalling 10,558 m have been drilled.

The 1997 exploration program consisted of ten diamond drill holes totalling 1,667 m and twenty-one excavator trenches totalling 2,695 m in length. The objective of this work was to increase reserves from approximately 30 million tonnes to the 50 million tonne potentially economic threshold. An in-house calculation of drill indicated, undiluted mineable reserves now totals 52.9 million tonnes of high Volatile Bituminous "B" coal. Calculated weighted averages for Division Mountain raw coal are 2.3% residual moisture, 27.9% ash content, 26.8% volatile matter, 43.7% fixed carbon, 0.44% sulphur and a calorific value of 51601 cal/g (9,216 Btu/lb).

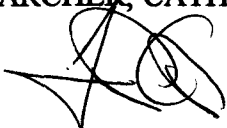
Results of Proximate Analysis and washability tests suggest that a high quality export thermal coal product can be readily produced with 4.4% residual moisture, 12.2% ash, 27.6% volatile matter, 52.1% fixed carbon, 0.46% sulphur and a calorific value of 6,170 cal/g (11,018 Btu/lb).

The coal resource remains open to extension down dip and along strike in both directions. The last two holes of the 1997 program tested the southernmost extent of the 6 km long area of detailed exploration and encountered 20.2 m (true width) of coal in five seams. Excavator and hand trenches have exposed both coal and favourable stratigraphy elsewhere on the property within a 10 km radius of the delineated resource. For instance, trenching on Corduroy Mountain, 7 km east of Division Mountain, exposed an aggregate thickness of 23 m of coal with a maximum seam width of 3 m although the most favourable part of the stratigraphy was not tested due to overburden cover.

The next phase of exploration should consist of continued diamond drilling to further define extensions to the identified resource in the Division Mountain area. Excavator trenching should continue to test other nearby areas of favourable Tanglefoot Formation bedrock stratigraphy where coal float has been found.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



R.F. Gish, B.Sc.

INTRODUCTION

The 1997 exploration program was funded by Cash Resources Ltd. and managed by Archer, Cathro & Associates (1981) Limited. The work was carried out from July to October and consisted of excavator and hand trenching, environmental baseline studies and ten diamond drill holes totalling 1,667 m. The Author's Statement of Qualifications is given in Appendix I.

The exploration camp is located approximately 200 m southeast of the Nordenskiöld River and 2.5 km northeast of Division Mountain. The winterized camp presently has dining facilities for up to thirty people and sleeping accommodations for twelve. Left at the site were five tent frames, a core logging facility and a kitchen-dry complex. A Land Use Permit to store the buildings was authorized in 1996 for a period of three years ending March 14, 1999.

PROPERTY, LOCATION AND ACCESS

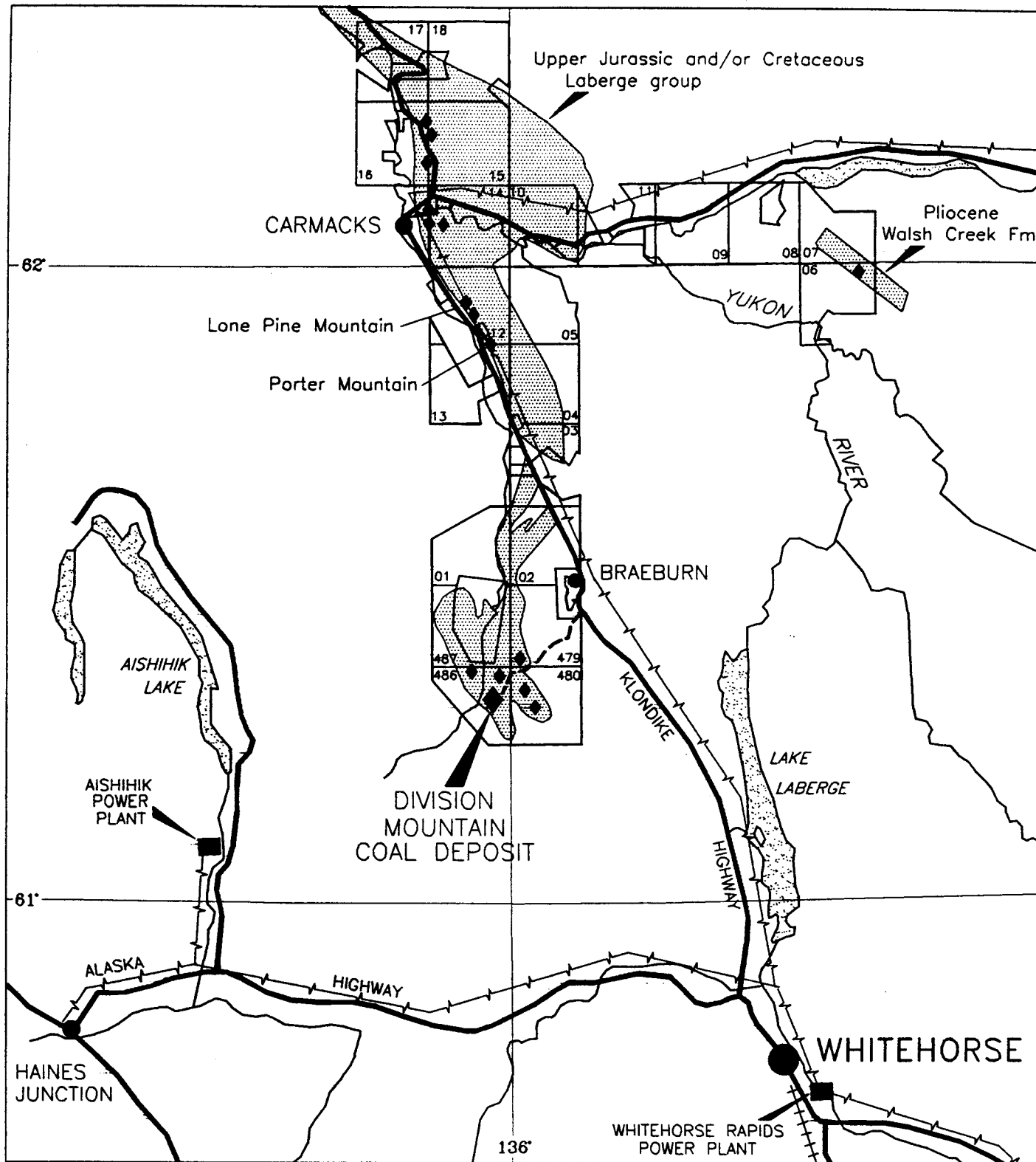
Coal exploration rights are held by Archer Cathro on behalf of Cash Resources Ltd. in south central Yukon under twenty-two Territorial Coal Exploration Licences which are valid for a three year, renewable term. These licences total 321,547 hectares and encompass Upper Jurassic, Lower Cretaceous and Tertiary coal-bearing stratigraphy including a number of previously known coal occurrences. The area of detailed exploration and resource definition at Division Mountain lies largely within five Coal Leases which confer mining rights. Figure 1 outlines the general location of the Coal Exploration Licences while Figure 2 shows the location of current exploration with respect to Coal Leases at Division Mountain. Expiry dates of both Licences and Leases are given below in Table 1.

Table 1

<u>Licence No.</u>	<u>Mining District</u>	<u>Expiry Date*</u>
CYW0001-CYW0003	Whitehorse	December 2, 1999
CYW0004-CYW0018	Whitehorse	September 6, 2000
Y479-Y480	Whitehorse	September 23, 1998
Y486	Whitehorse	April 18, 1999
Y487	Whitehorse	April 17, 1999

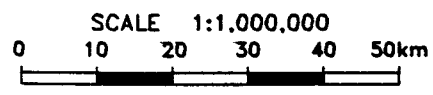
*Coal Exploration Licenses are valid for a three year, renewable term.

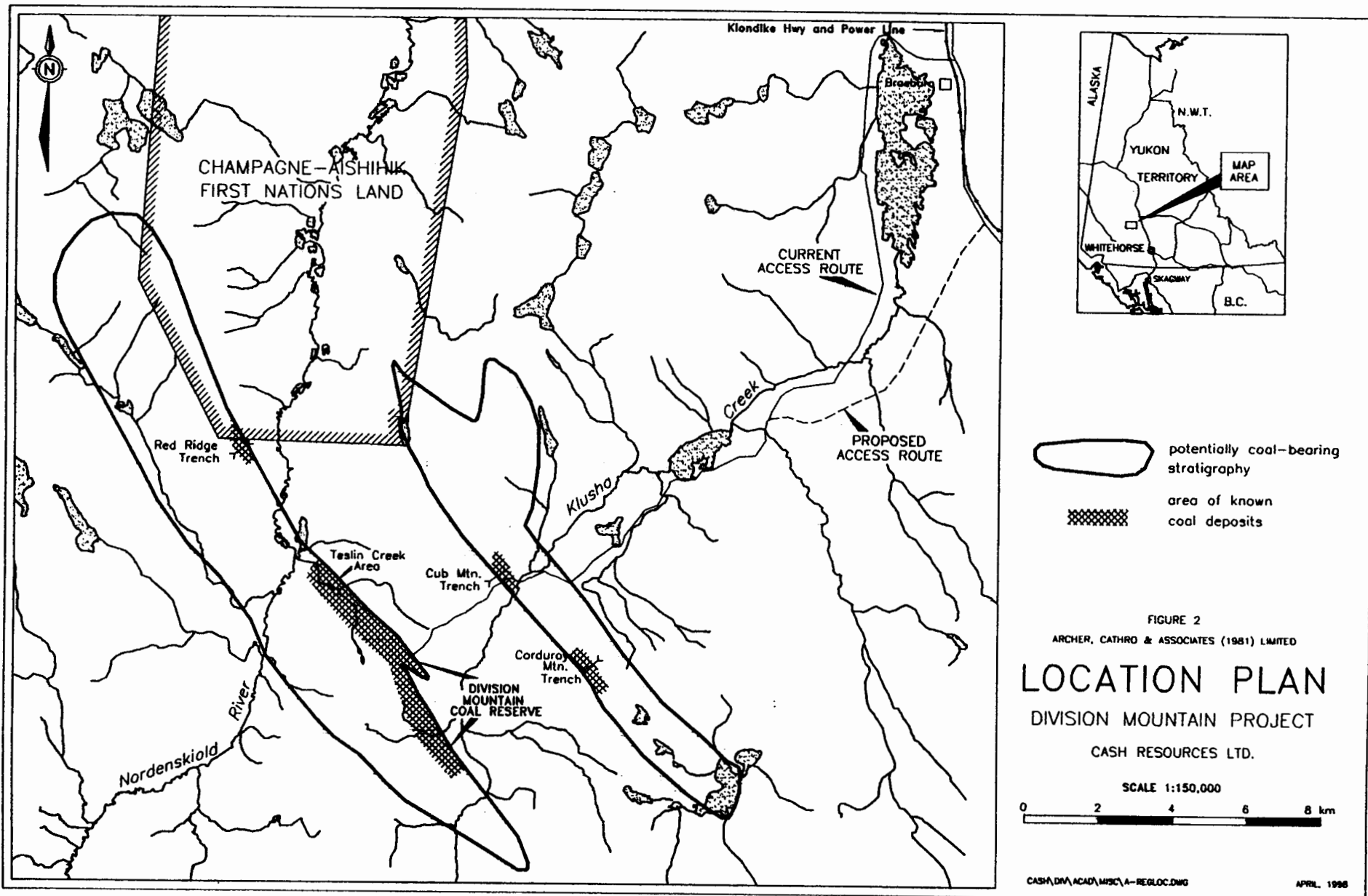
<u>Lease No.</u>	<u>Mining District</u>	<u>Expiry Date</u>
Lease 3000-3004	Whitehorse	April 18, 2017



- ◆ COAL OCCURRENCE
- +++++ WHITE PASS RAILWAY
- +— EXISTING ELECTRICAL GRID
- HYDROELECTRIC DAM
- HIGHWAY
- 02 COAL EXPLORATION LICENCE
(CYW 0001 to CYW 0018
and Y479, Y480, Y486, Y487)
- COAL BASIN

CASH RESOURCES LTD.
 FIGURE 1
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COAL EXPLORATION LICENCES
 DIVISION MOUNTAIN PROJECT





The Division Mountain area is located on NTS map sheet 115 H/8, 90 km north-northwest of Whitehorse and 300 km from tidewater at Skagway, Alaska. The Whitehorse-Aishihik-Faro electrical transmission line parallels the Klondike Highway, 20 km east of the main coal reserves. Access is by 85 km of paved highway from Whitehorse to Braeburn and a 31 km all-season four-wheel drive road from Braeburn (Figure 2). Rerouting of the access road from Braeburn is recommended as it would alleviate encroachment of Braeburn Lake residential and recreational lots and provide a more direct 20 km access to the property.

HISTORY AND PREVIOUS WORK

In 1907 D. Cairnes of the Geological Survey of Canada mapped and sampled three coal seams in Teslin Creek Canyon, 2 km north of Division Mountain. An additional coal occurrence was located by Cairnes near the base of Red Ridge approximately 5 km northwest of the Teslin Creek showings (Figure 2).

No exploration was carried out on the showings until 1970 when Arjay Kirker Resources Ltd. excavated seven bulldozer pits near the Teslin Creek coal outcrop. Eight seams were exposed ranging in thickness from 0.6 to 4.4 m. A 1047 m, six hole diamond drill program conducted in the Teslin Creek area by Arjay Kirker in 1972 outlined a geological reserve of 2.5 million tonnes.

In October 1992 Cash Resources Ltd. purchased four Territorial Coal Exploration Licenses enclosing the Division Mountain coal occurrences and later applied for others covering extensions of the favourable rocks to the north. During the 1993 field season 16 holes totalling 1810 m were drilled to test the Teslin Creek area. This diamond drilling program defined four seams with an average raw coal aggregate thickness of 10 m over a 1 km strike length forming the eastern limb of the Cairnes Syncline. Measured near-surface reserves were calculated at 2.6 million tonnes to a depth of 200 m, confirming the Arjay Kirker estimate. Hand trenching at Red Ridge 5 km to the north exposed a total thickness of 11.4 m of raw coal in three seams and demonstrated lateral continuity of the coal measures.

An exploration program consisting of 5.9 km of excavator trenching and 6034 m of HQ-size diamond drilling in 32 holes was carried out during 1994 and 1995 to explore a 5 km long southeasterly extension of previously known coal-bearing strata along the limbs of a northerly-plunging syncline-anticline pair. This work was successful in discovering a new area of coal deposition with thicker seams than the Teslin Creek area and a dramatically lower strip ratio.

All coal drill intersections greater than 1 m thick were submitted for Proximate Analysis, generally in samples composed of the entire seam core intersection. Representative intersections of coal were composited for secondary tests such as grindability, washability, ash chemistry and Ultimate Analysis. Environmental surveys, including biological and botanical inventories and water quality assessment, were also carried out.

Exploration during 1997 consisted of 1667 m of HQ-size diamond drilling in ten holes and twenty-one excavator trenches totalling 2695 m. The diamond drilling focussed on further delineating west-dipping coal-bearing strata discovered during the 1994-1995 exploration season. The strata form the east limb of a syncline which extends under Division Mountain. More than 900 m of strike length was added to the southwest while the average aggregate raw coal thickness increased to 24.7 m. The coal-bearing strata remains open along strike and to extension down dip.

The trenching program explored both the Division Mountain project area and Corduroy Mountain, 7 km east of Division Mountain. (Figures 2 and 3) where an aggregate coal thickness of 23 m was intersected although the most favourable part of the stratigraphy was not tested due to thick overburden cover.

1997 DRILL PROGRAM

The 1997 drill program consisted of ten HQ-size drill holes totalling 1,667 m. Drill production averaged 22 m per twelve hour shift (including moves).

All physical work on the property was performed under the provisions of a Territorial Land Use Permit. This includes the use of sumps at drill sites to collect return water from the drill. Upon completion of a hole the drill site was reseeded and sumps were back-filled. At the conclusion of the program all trenches were back-filled, the vegetation mat was replaced and the disturbed area was reseeded. Inspections were carried out by federal Land Use officers on a regular basis. No outstanding Land Use permit deficiencies remain from the 1997 field program.

Diamond drilling and bulldozer support were contracted to E. Caron Diamond Drilling of Whitehorse. This work utilized a skid-mounted Longyear 38 wireline-equipped drill and a D6 bulldozer for drill pad construction and drill moves. The drill was operated on a seven day per week, twenty-four hour per day basis using two, two-person crews.

All 1993 to 1995 and 1997 drill holes are marked with a 1.5 m wooden plug bearing an aluminum tag inscribed with hole number, date drilled, azimuth, dip and total depth. Surface inclination of the holes was determined using a Brunton compass with downhole inclination determined by acid tests. Results from the downhole surveys show little or no change from surface inclinations. UTM coordinates of all Division Mountain drill holes are listed in Appendix II while locations of all holes and trenches are shown on Figure 4.

The drill core was logged and sampled on site. Synoptic logs for all holes drilled to date on the property are located in Appendix III.

Overburden thicknesses in the area of the 1997 holes range from 0 to 59.5 m, generally increasing to the southeast towards Klusha Creek. All holes were drilled with HQ (6.25 cm diameter) equipment however, badly broken ground necessitated reducing to NQ (4.75 cm diameter) equipment in two holes. Core recovery of the coal intersections averaged 96%.

1997 TRENCHING PROGRAM

The 1997 excavator trenching program consisted of two phases. Phase 1, from July 15 to September 9, concentrated on the Division Mountain project area and Phase 2, from September 27 to October 8, focussed on the Corduroy Mountain area. In total, 569 hours of Hitachi UH09 excavator time was used to complete twenty-one trenches totalling 2,695 m in length. Trench locations at Division Mountain are shown on Figure 4. The excavator, operated under contract by 15317 Yukon Inc., was left on site at the termination of the 1997 program.

Phase 1 of the trenching program was employed to explore the east limb of the Division Mountain Syncline, to locate the Tantalus-Tanglefoot contact along the west limb of the Division Mountain Syncline, and for structural control of the west limb of the Cairnes Syncline.

Phase 2 consisted of a small regional trenching program carried out to explore several known coal showings and exploration targets in favourable coal-bearing stratigraphy. Hand trenches were used to extend a trench at Red Ridge and to trench in the vicinity of coal float found southwest of Cub Mountain. An excavator trench was also completed on the west side of Corduroy Mountain (Figure 3).

GEOMORPHOLOGY

Topography in the Division Mountain area is characterized by rolling hills and broad river valleys with local regions of moderate to steep relief along northerly-trending ridges (Figure 3). Elevations range between 670 and 1680 m. Most of the area is mantled by glacial till and outwash between 1 and 60 m thick. Permafrost is generally restricted to poorly drained areas of moderate to dense vegetation. Natural bedrock exposure is less than 5%, especially within the generally recessive coal measures.

REGIONAL GEOLOGY

The Division Mountain area lies within Whitehorse Trough, a northwest-trending, fore-arc basin comprised of Mesozoic volcanic and sedimentary rocks. Bounded by the Omineca Crystalline Belt to the east and the Coast Plutonic Complex to the west, the Whitehorse Trough constitutes the northern end of the Intermontane Belt of the Canadian Cordillera.

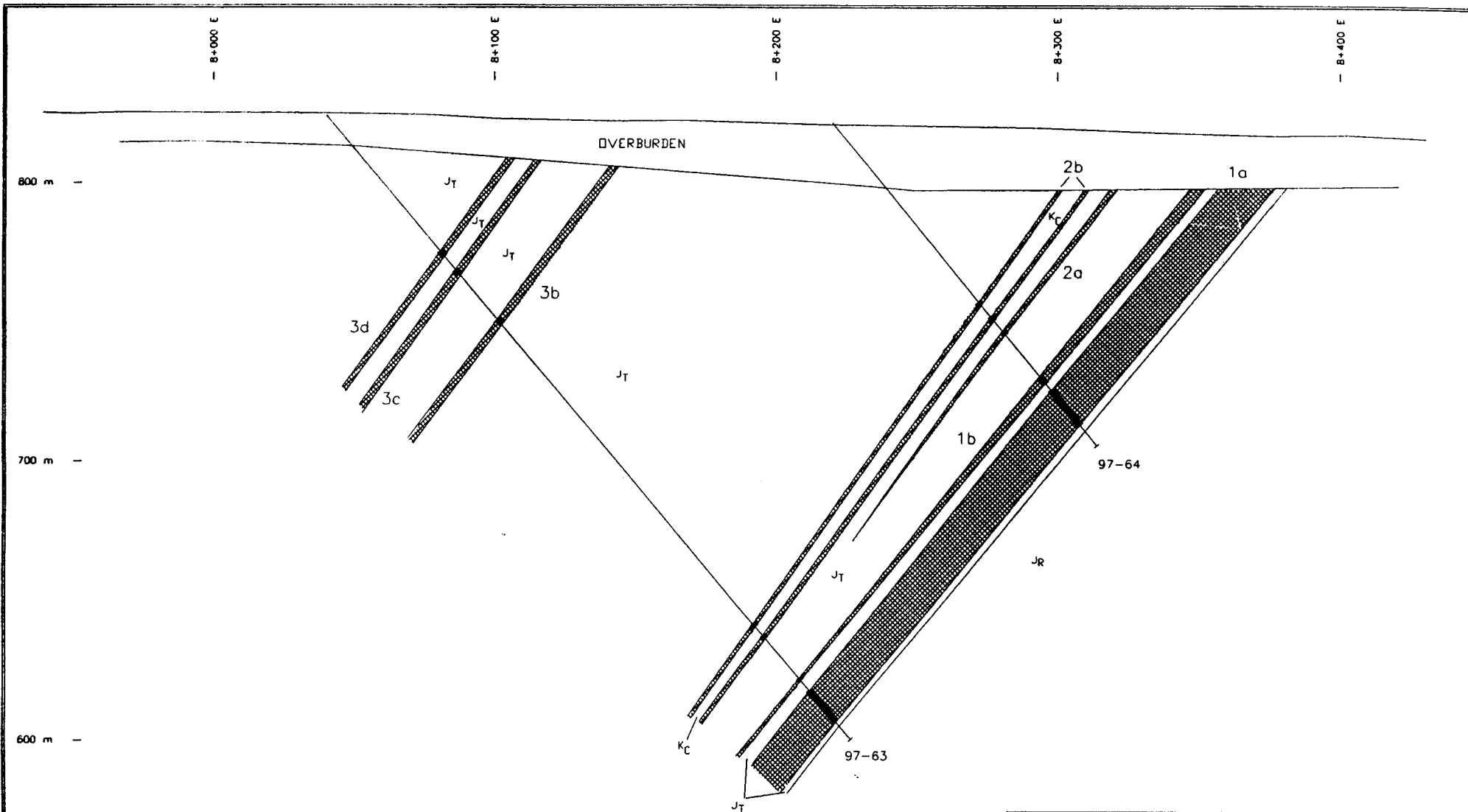
During Late Triassic time an island arc assemblage consisting of a 7,000 m thick succession of Lewes River Group aphyric to augite-phyric basaltic andesite flows, breccias and tuff, conglomerate, wacke, limestone and shale was deposited within Whitehorse Trough. Succeeding Jurassic basin-fill stratigraphy is more complex due to disconformities and hiatus in sedimentation and to diachronous or interfingering relationships in the shallow water and nearshore facies. In general, two sequences are present: Lower to Upper Jurassic conglomerate and sandstone turbidites of the marine to deltaic Laberge Group; and, Upper Jurassic to Cretaceous conglomerate, sandstone, mudstone and coal of the largely alluvial Tantalus Formation.

STRATIGRAPHY

Generalized geology of the Division Mountain area is given on Figure 3. Detailed geology of the main area of exploration is shown on Figure 4 with cross sections through the coal measures on Figures 5 to 37.


The Laberge Group in the Division Mountain area is represented by the shallow marine Richtofen Formation and the fluvial-deltaic, coal-bearing Tanglefoot Formation. The lithologically distinctive Richtofen Formation serves as an easily recognizable base for the overlying coal measures. Brown weathering black mudstone, with wispy siltstone to fine sandstone laminae in the form of low amplitude cross-stratification, alternates with thick (>10 m) intervals of massive brown weathering calcareous sandstone. A Lower to Middle Jurassic depositional span is recorded elsewhere in Whitehorse Trough for the unit but since this sequence is likely diachronous, being a record of a nearshore facies that migrated with basin fill, the precise age of the Richtofen Formation in this area will remain unknown until it can be locally constrained by paleontological data.

Middle to Upper Jurassic Tanglefoot Formation strata in the Division Mountain area record a complex fluvial-deltaic depositional environment. In general the unit consists of upwardly fining sequences of alternating sandstone-conglomerate beds and black shale or shaly mudstone, the latter commonly associated with coaly shale or coal seams. A section measured at Red Ridge consists of fifteen sedimentary cycles, each on the order of approximately 10 m thick. A typical cycle consists of:





STRATIGRAPHIC LEGEND

CARMACKS GROUP


 andesite sills and dykes

TANGLEFOOT FORMATION

 coal with seam number

 shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

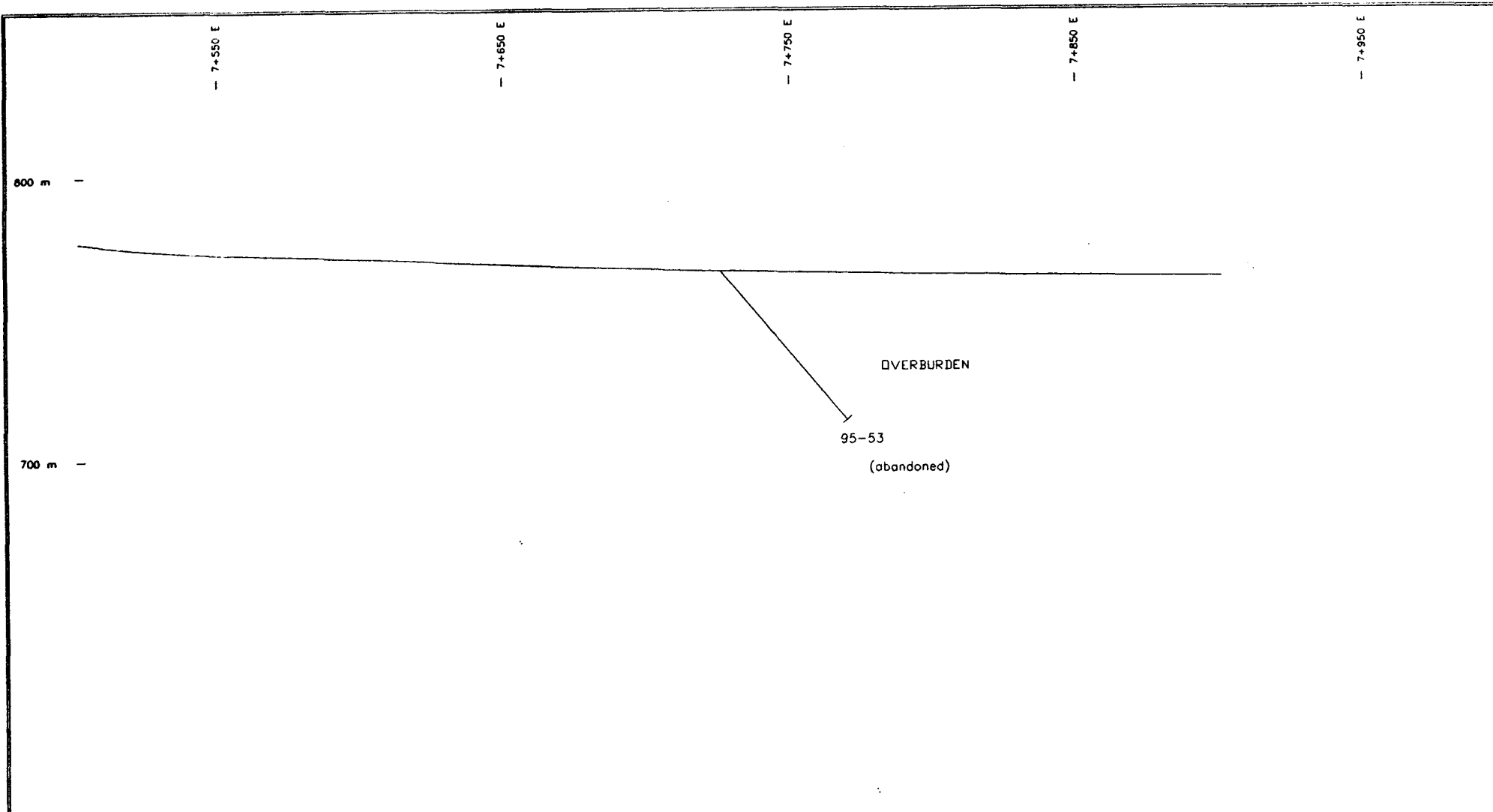
 shale-sandstone couplets, sandstone

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FIGURE 5
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Cross Section 9+100N
 DIVISION MOUNTAIN PROJECT

0 20 40 60 80 100m

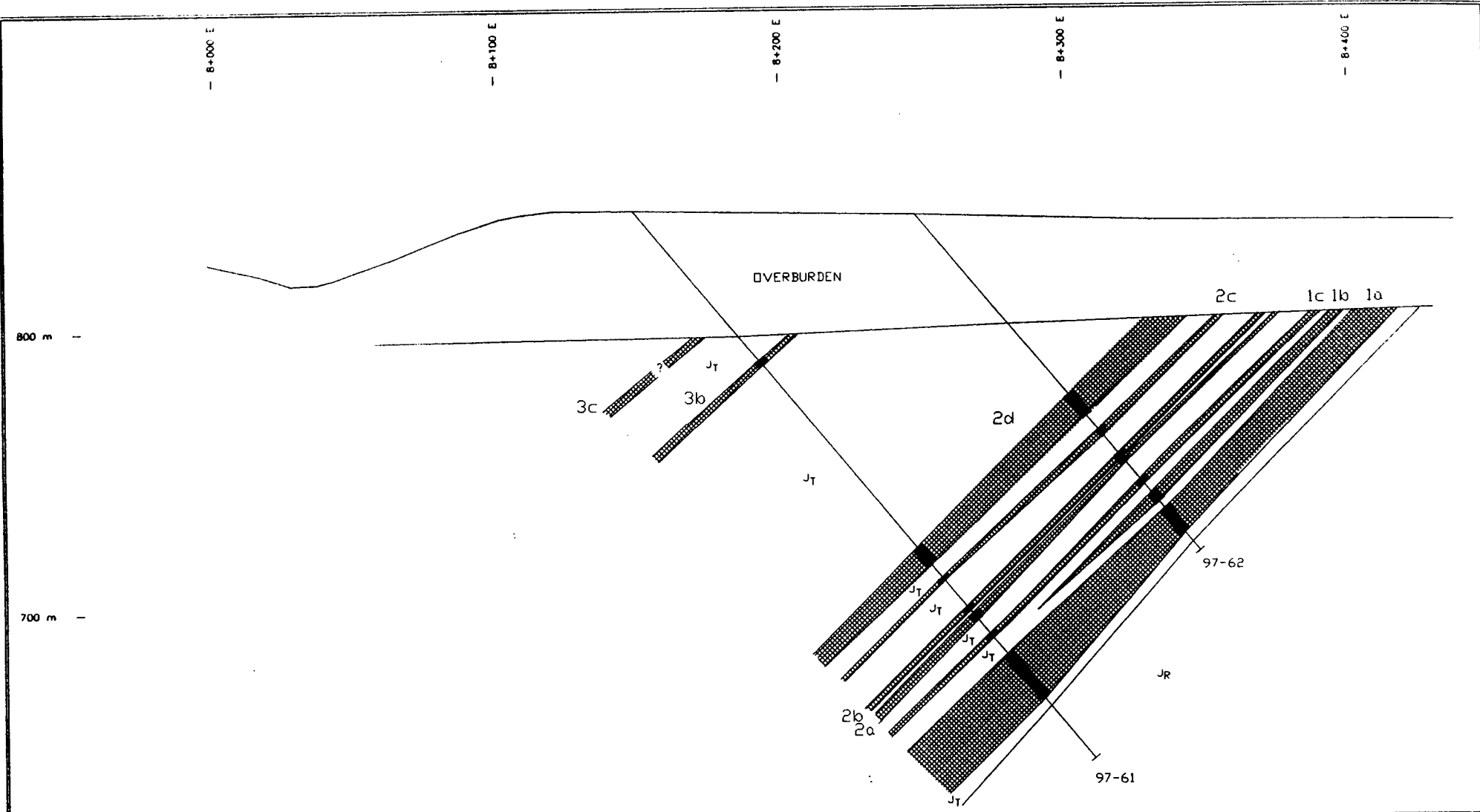
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FILE: div-mtn\autocad\ss-9100	DATE: MARCH, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP	
K	andesite sills and dykes
TANGLEFOOT FORMATION	
[stippled]	coal with seam number
T	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
JR	shale-sandstone couplets, sandstone

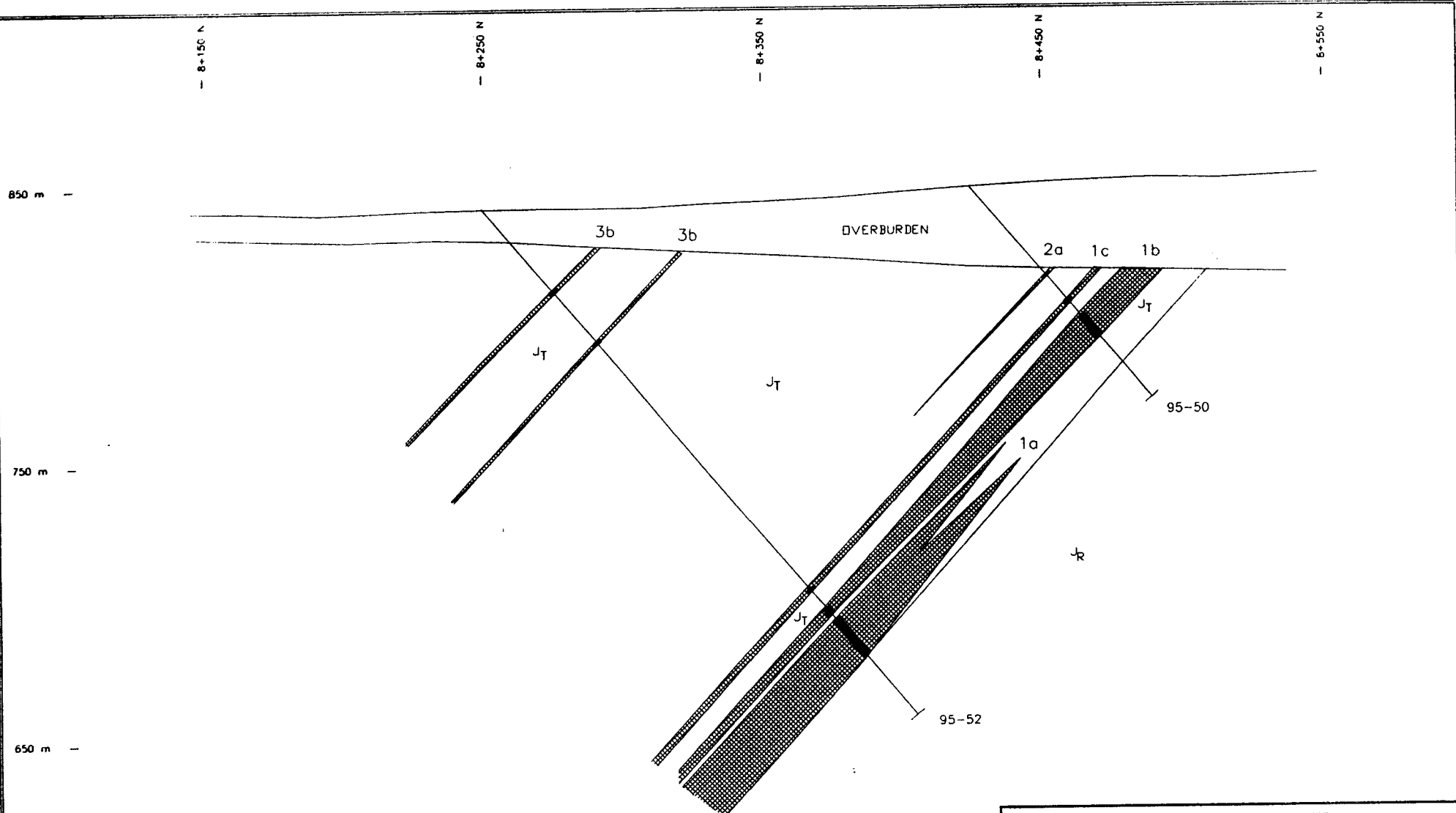
CASH RESOURCES LTD.	
FIGURE 6	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 9+300N	
DIVISION MOUNTAIN PROJECT	
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STRATIGRAPHIC LEGEND

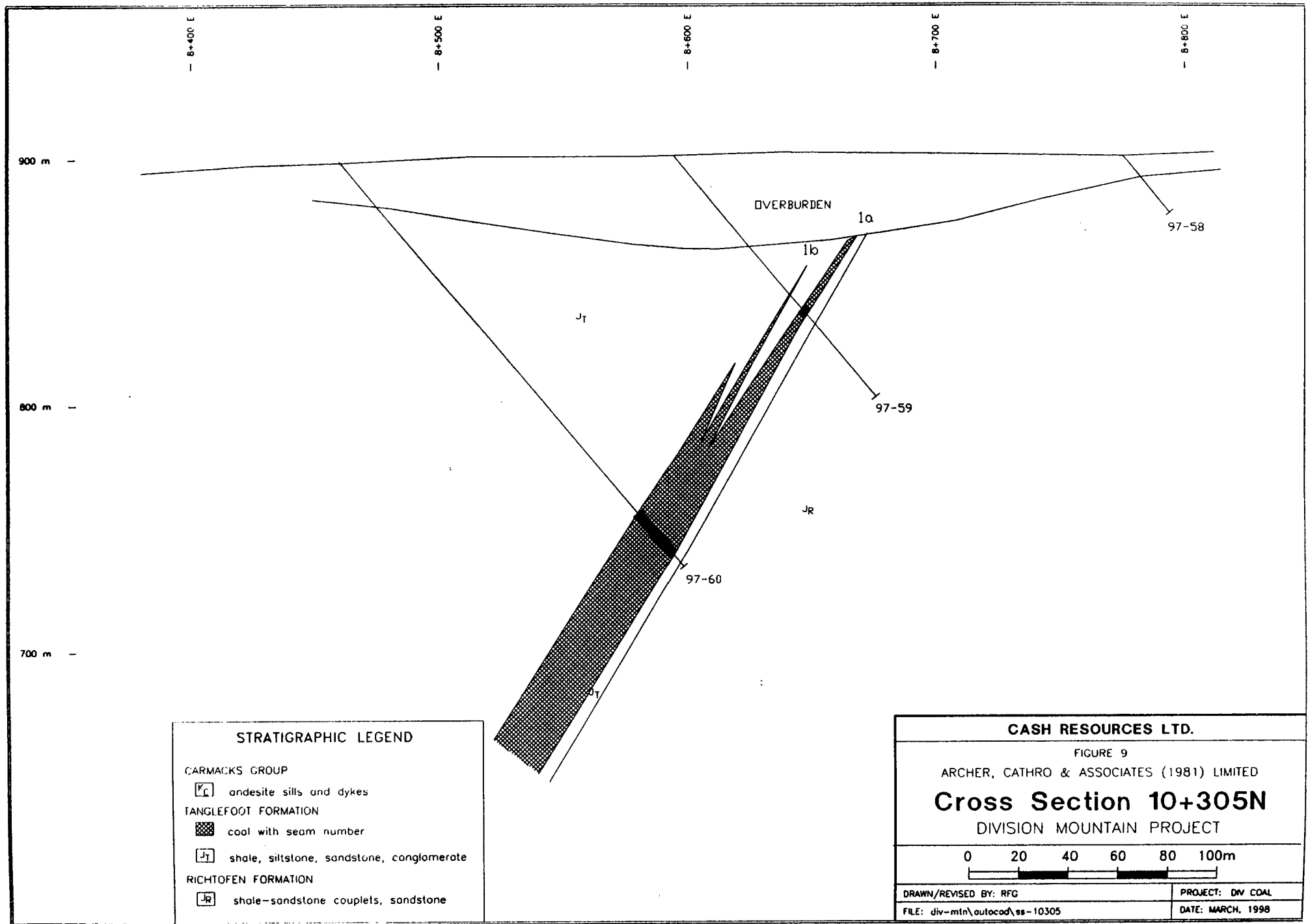
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

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FIGURE 7	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 9+700N	
DIVISION MOUNTAIN PROJECT	
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





STRATIGRAPHIC LEGEND	
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

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FIGURE B	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 10+000N	
DIVISION MOUNTAIN PROJECT	
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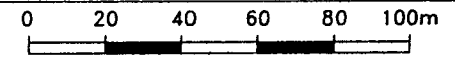


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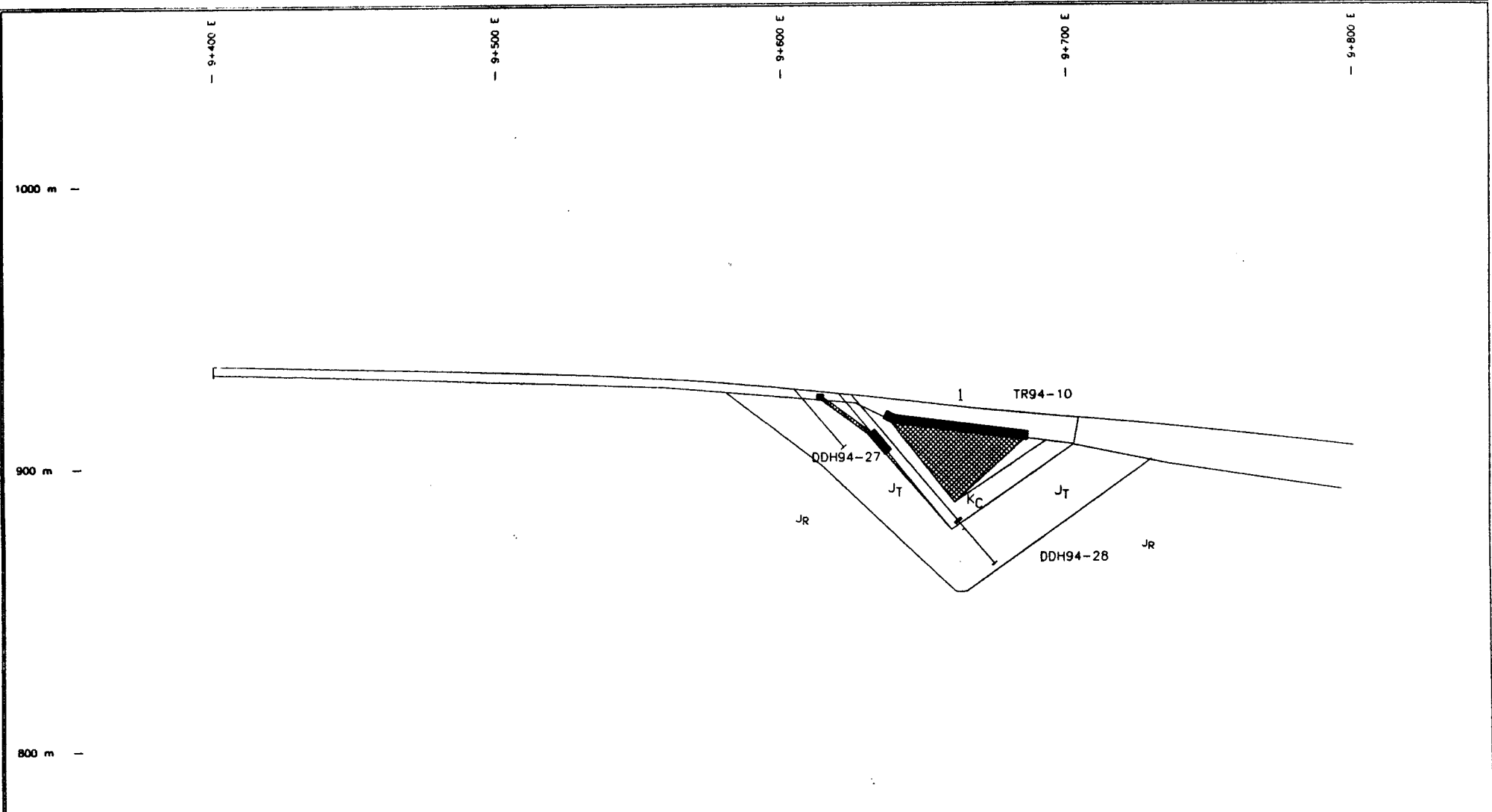
- CARMACKS GROUP**
 andesite sills and dykes
- TANGLEFOOT FORMATION**
 coal with seam number
- J_t**
 shale, siltstone, sandstone, conglomerate
- RICHTOFEN FORMATION**
 shale-sandstone couplets, sandstone

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FIGURE 9
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Cross Section 10+305N
 DIVISION MOUNTAIN PROJECT

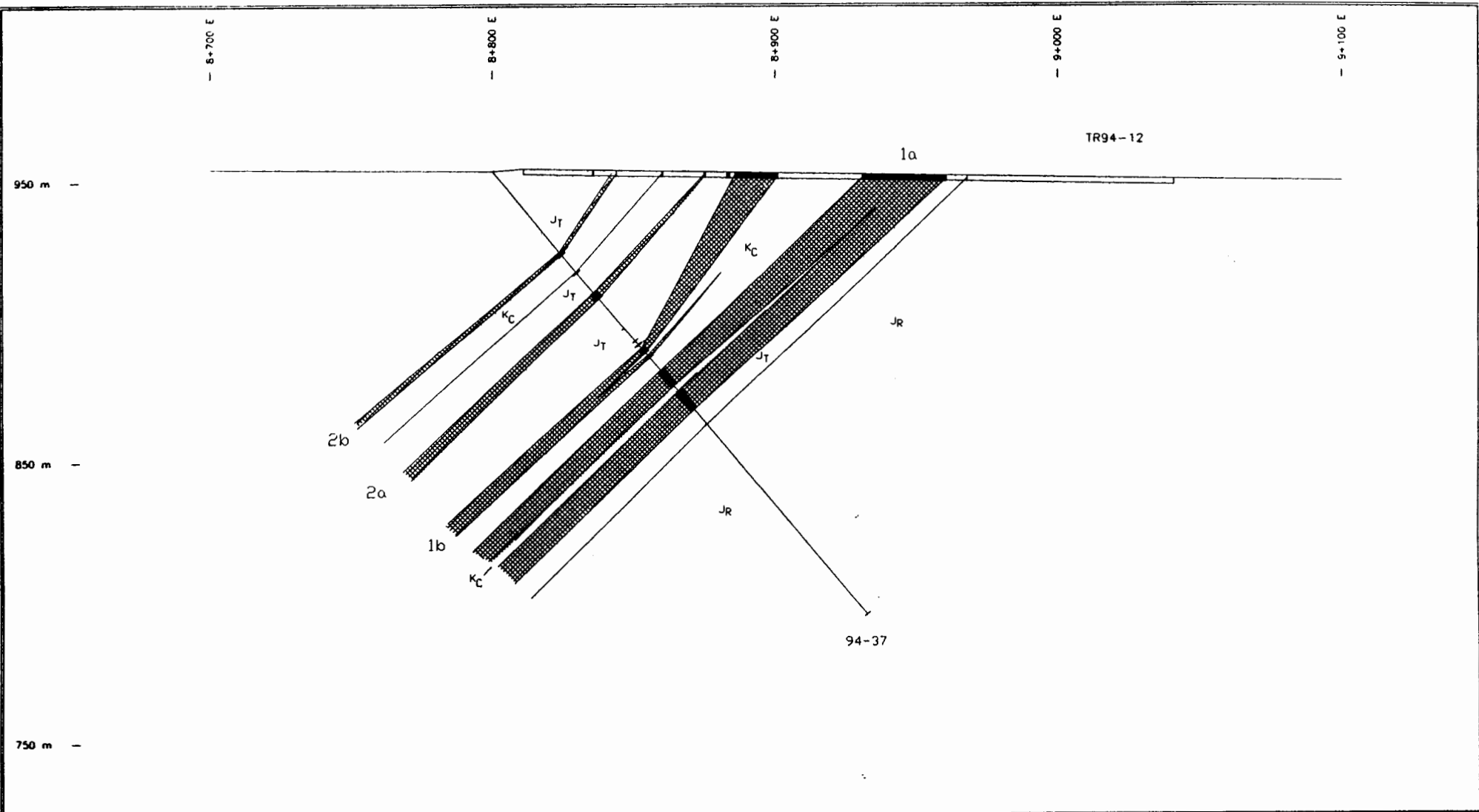


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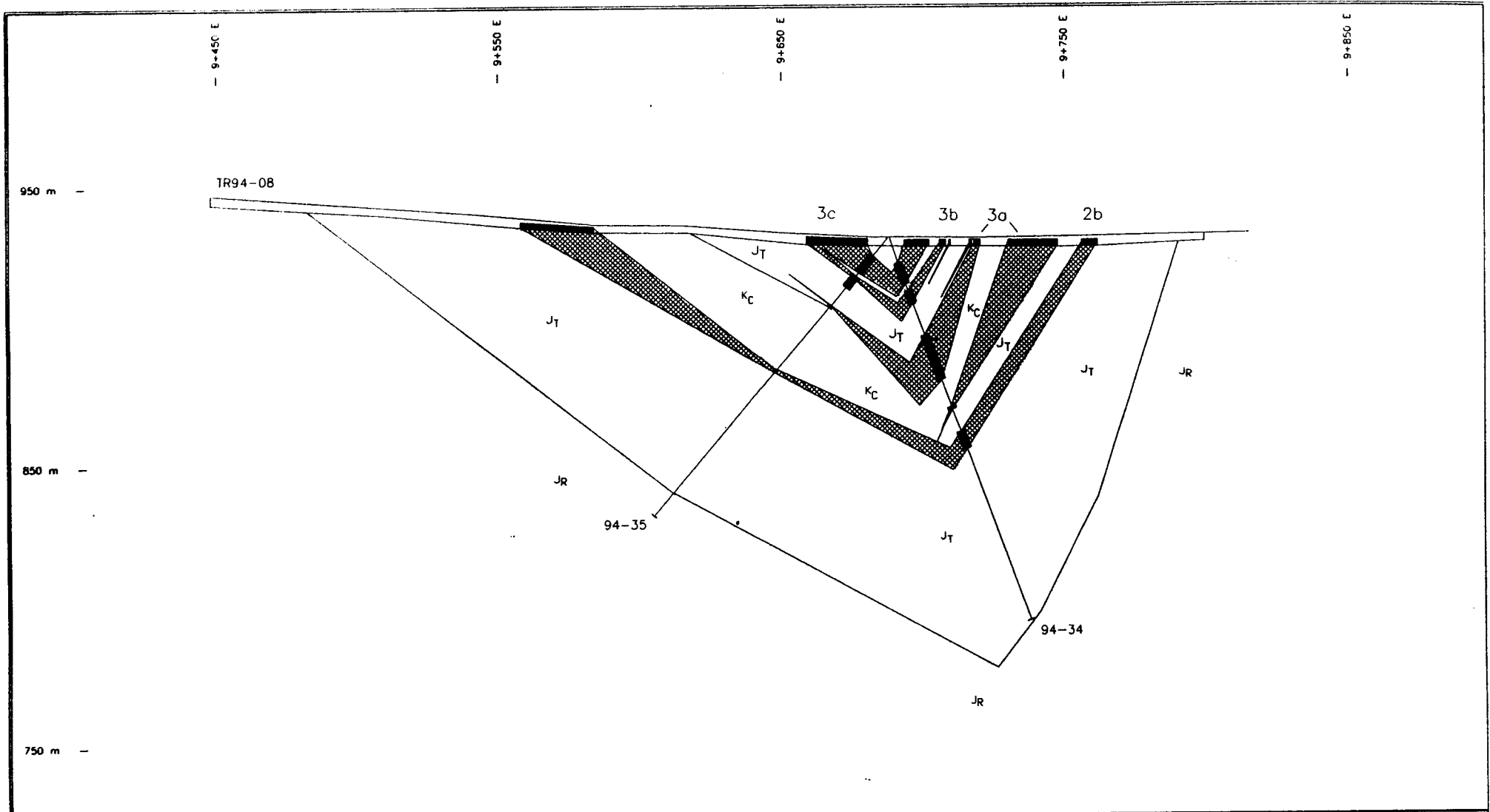
STRATIGRAPHIC LEGEND	
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

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FIGURE 10	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 10+610N	
DIVISION MOUNTAIN PROJECT	
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FILE: div-mtn\autocad\es-10610	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND	
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone, couplets, sandstone

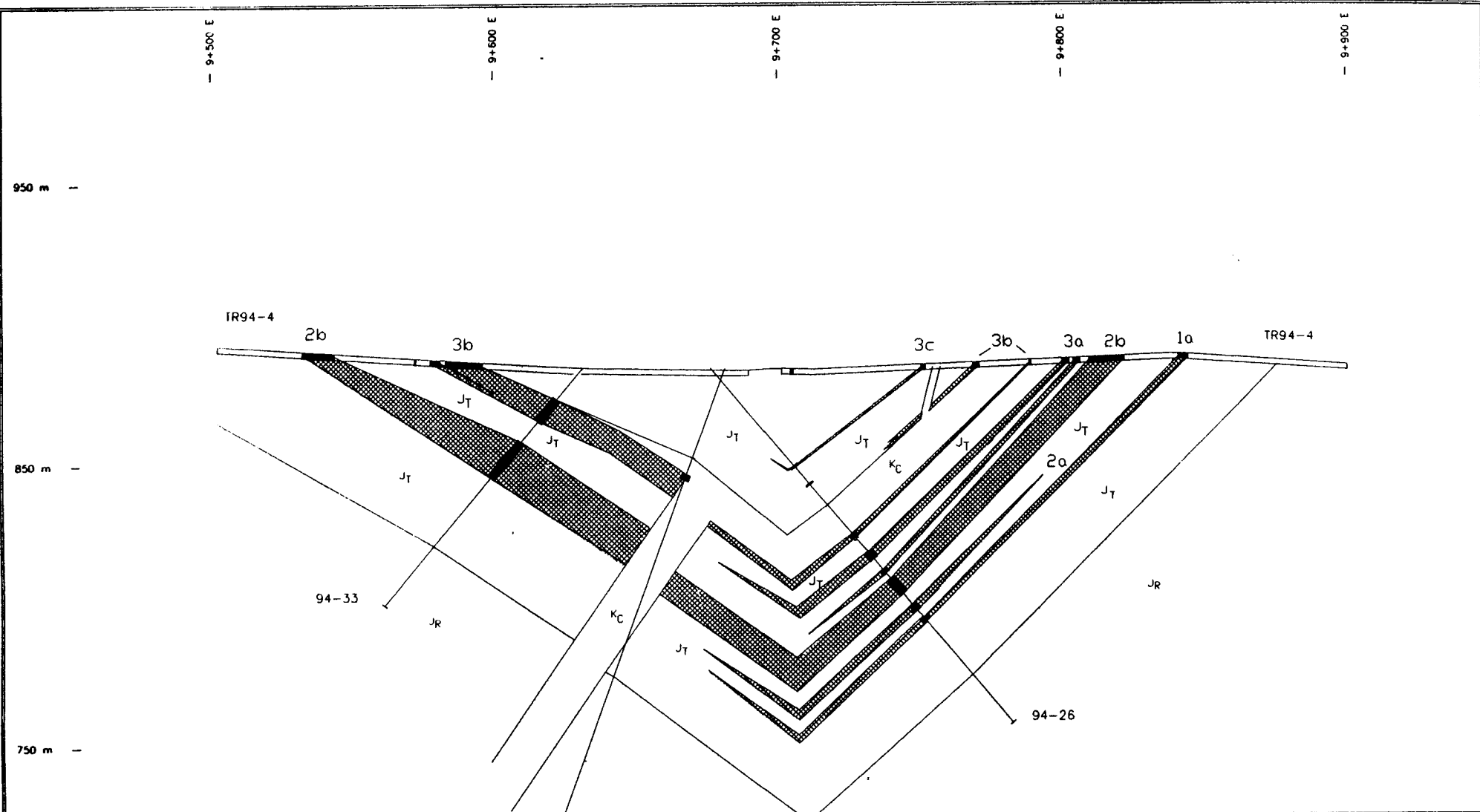
CASH RESOURCES LTD.	
FIGURE 11	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 10+710N	
DIVISION MOUNTAIN PROJECT	
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STRATIGRAPHIC LEGEND


CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

CASH RESOURCES LTD.	
FIGURE 12	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 10+725N	
DIVISION MOUNTAIN PROJECT	
DRAWN/REVISED BY: RFG	PROJECT: DIV. COAL
FILE: div-min\outocad\ss-10725	DATE: MARCH, 1998





STRATIGRAPHIC LEGEND

CARMACKS GROUP


 andesite sills and dykes

TANGLEFOOT FORMATION

 coal with seam number

 shale, siltstone, sandstone, conglomerate

RIGHTOFEN FORMATION

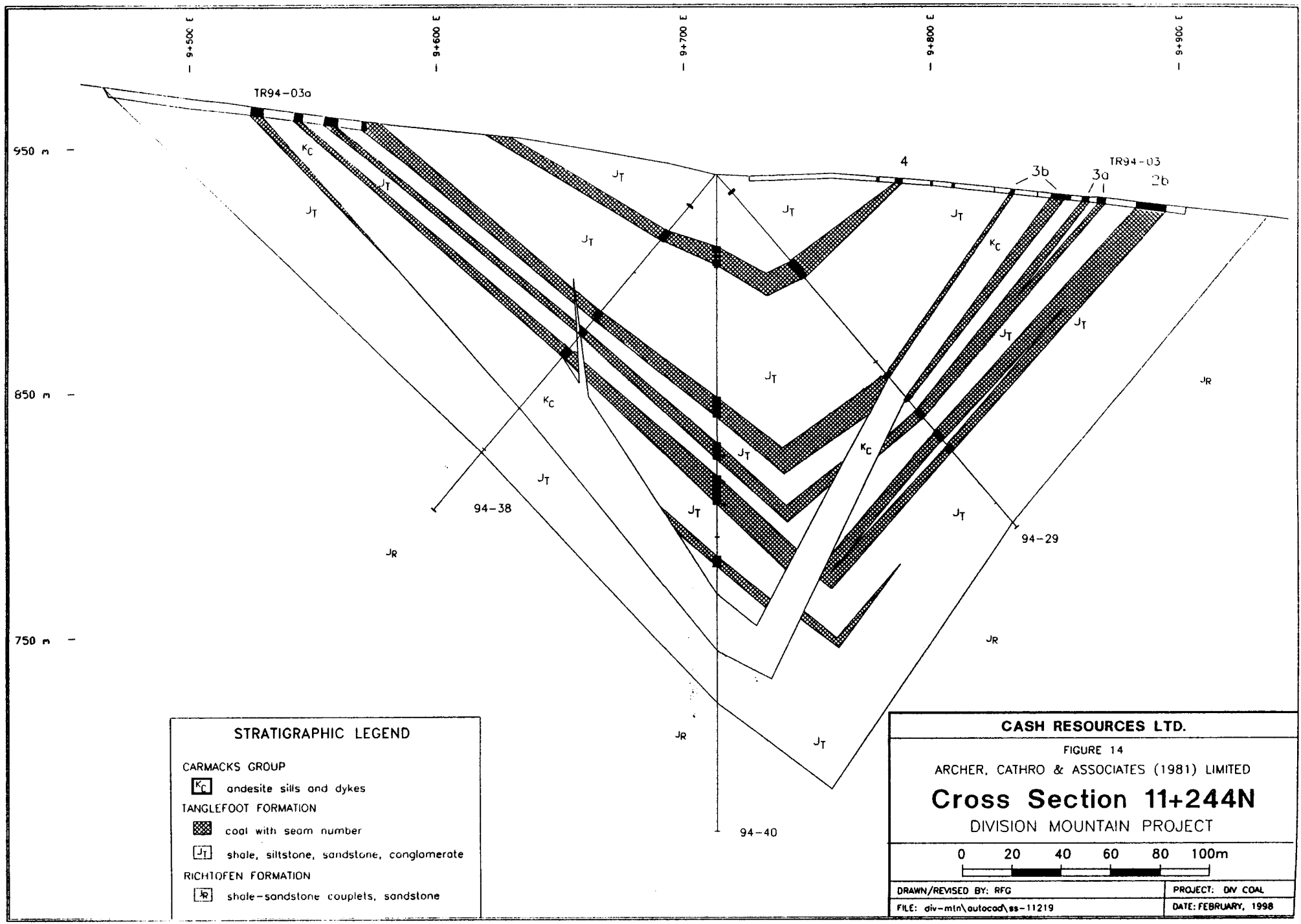
 shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 13
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Cross Section 10+914N
 DIVISION MOUNTAIN PROJECT

0 20 40 60 80 100m

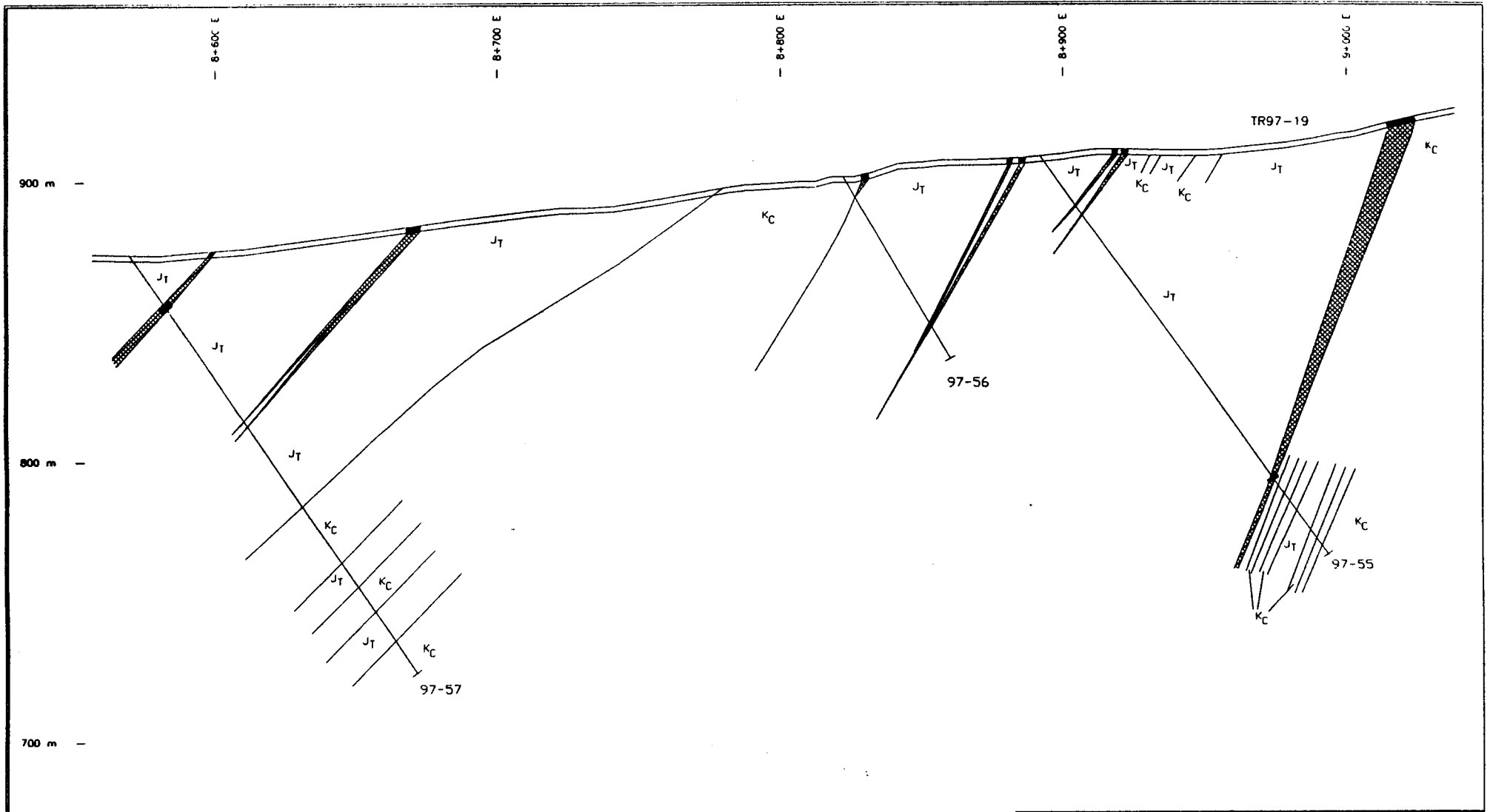
DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-min\autocad\ss-10914	DATE: FEBRUARY, 1998







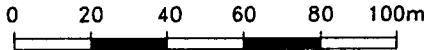
STRATIGRAPHIC LEGEND

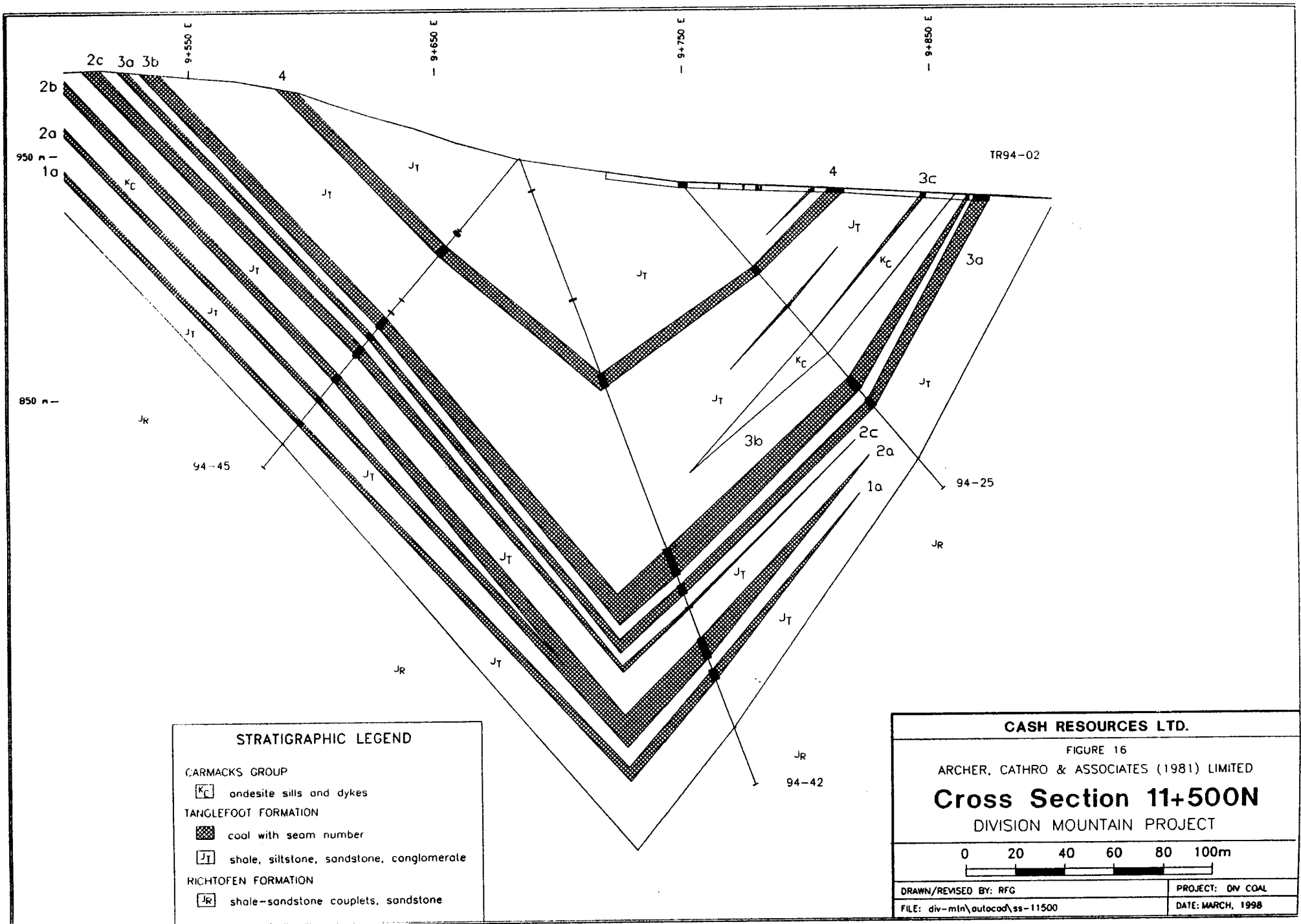
- CARMACKS GROUP**
- andesite sills and dykes
- TANGLEFOOT FORMATION**
- coal with seam number
 - shale, siltstone, sandstone, conglomerate
- RICHTHOFEN FORMATION**
- shale-sandstone couplets, sandstone

CASH RESOURCES LTD.	
FIGURE 14	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 11+244N	
DIVISION MOUNTAIN PROJECT	
DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\autocad\ss-11219	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND	
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

CASH RESOURCES LTD.	
FIGURE 15	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 11+400N	
DIVISION MOUNTAIN PROJECT	
	
DRAWN/REVISED BY: RFG	PROJECT: DM COAL
FILE: div-mtn\outocod\ss-11400	DATE: FEBRUARY, 1998

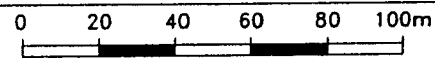


STRATIGRAPHIC LEGEND

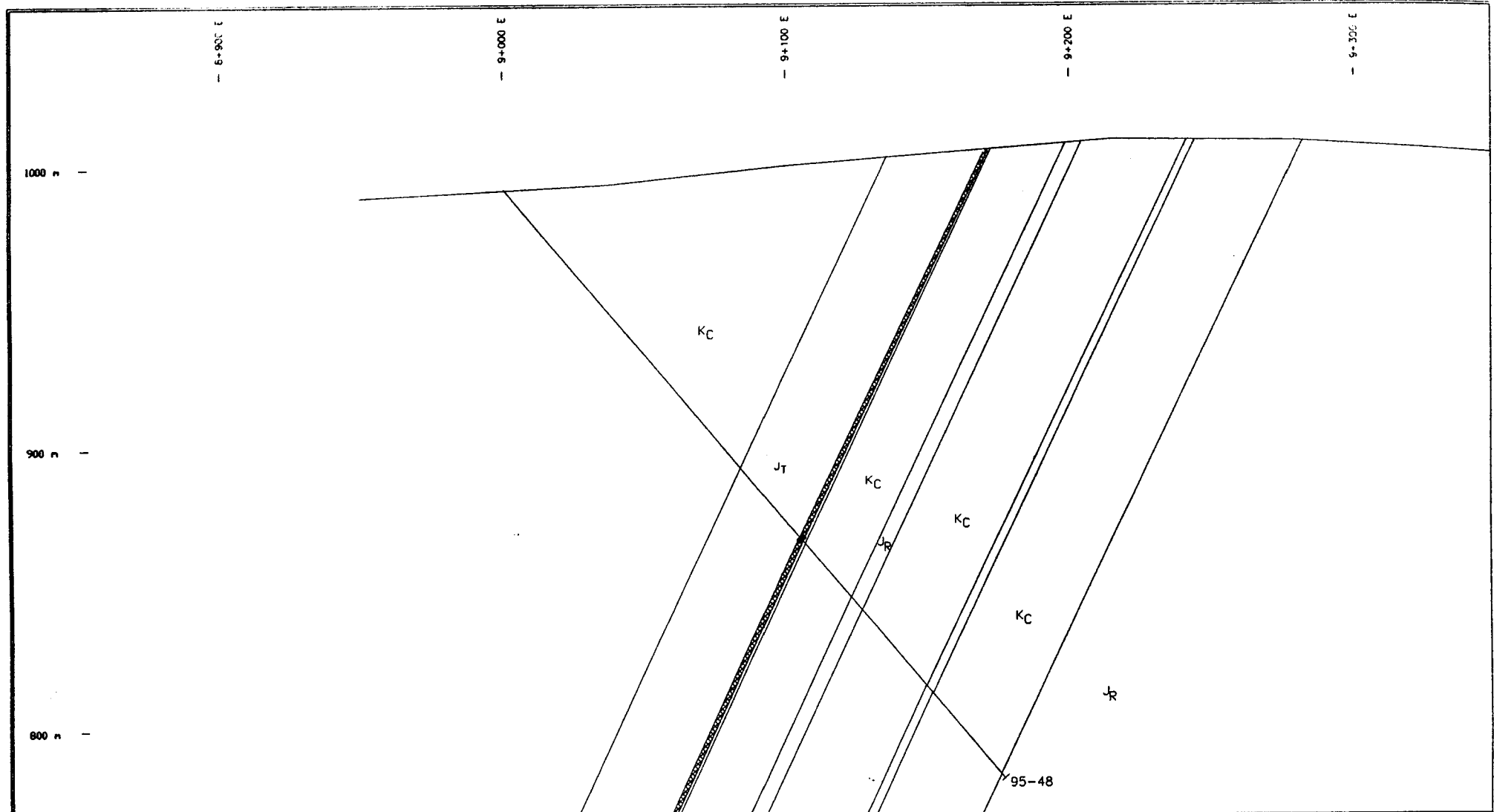
- CARMACKS GROUP
 - andesite sills and dykes
- TANGLEFOOT FORMATION
 - coal with seam number
 - shale, siltstone, sandstone, conglomerate
- RICHTOFEN FORMATION
 - shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 16
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Cross Section 11+500N
 DIVISION MOUNTAIN PROJECT



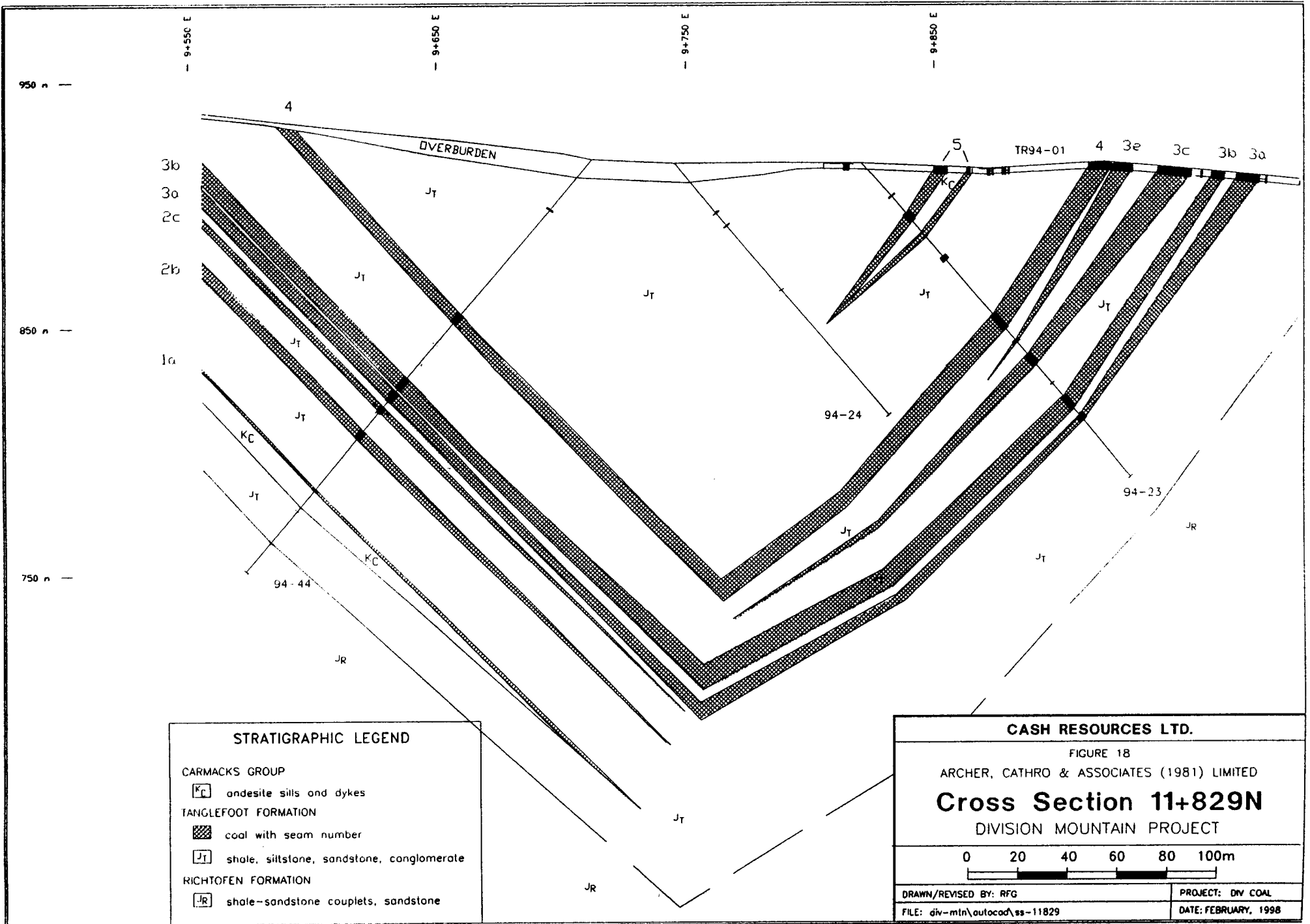
DRAWN/REVISED BY: RFG	PROJECT: DV COAL
FILE: div-min\autocad\ss-11500	DATE: MARCH, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP	
KC	andesite sills and dykes
TANGLEFOOT FORMATION	
■	coal with seam number
JT	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
JR	shale-sandstone couplets, sandstone

CASH RESOURCES LTD.	
FIGURE 17	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 11+524N	
DIVISION MOUNTAIN PROJECT	
DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\outocod\ss-11524	DATE: FEBRUARY, 1998



950 n

850 n

750 n

9+550 E

9+650 E

9+750 E

9+850 E

4

OVERBURDEN

5

TR94-01

4

3e

3c

3b

3a

3b

3a

2c

2b

1a

94-24

94-23

94-44

STRATIGRAPHIC LEGEND

CARMACKS GROUP

andesite sills and dykes

TANGLEFOOT FORMATION

coal with seam number

shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 11+829N

DIVISION MOUNTAIN PROJECT

0 20 40 60 80 100m

DRAWN/REVISED BY: RFG

FILE: div-mtn\outocod\ss-11829

PROJECT: DIV COAL

DATE: FEBRUARY, 1998

9+400 E

9+500 E

9+600 E

9+700 E

9+800 E

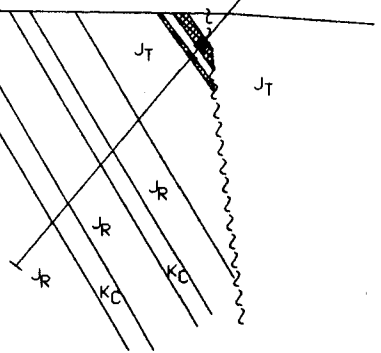
1000 m

900 m

800 m

OVERBURDEN

DDH95-54

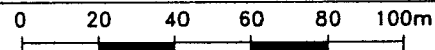


STRATIGRAPHIC LEGEND

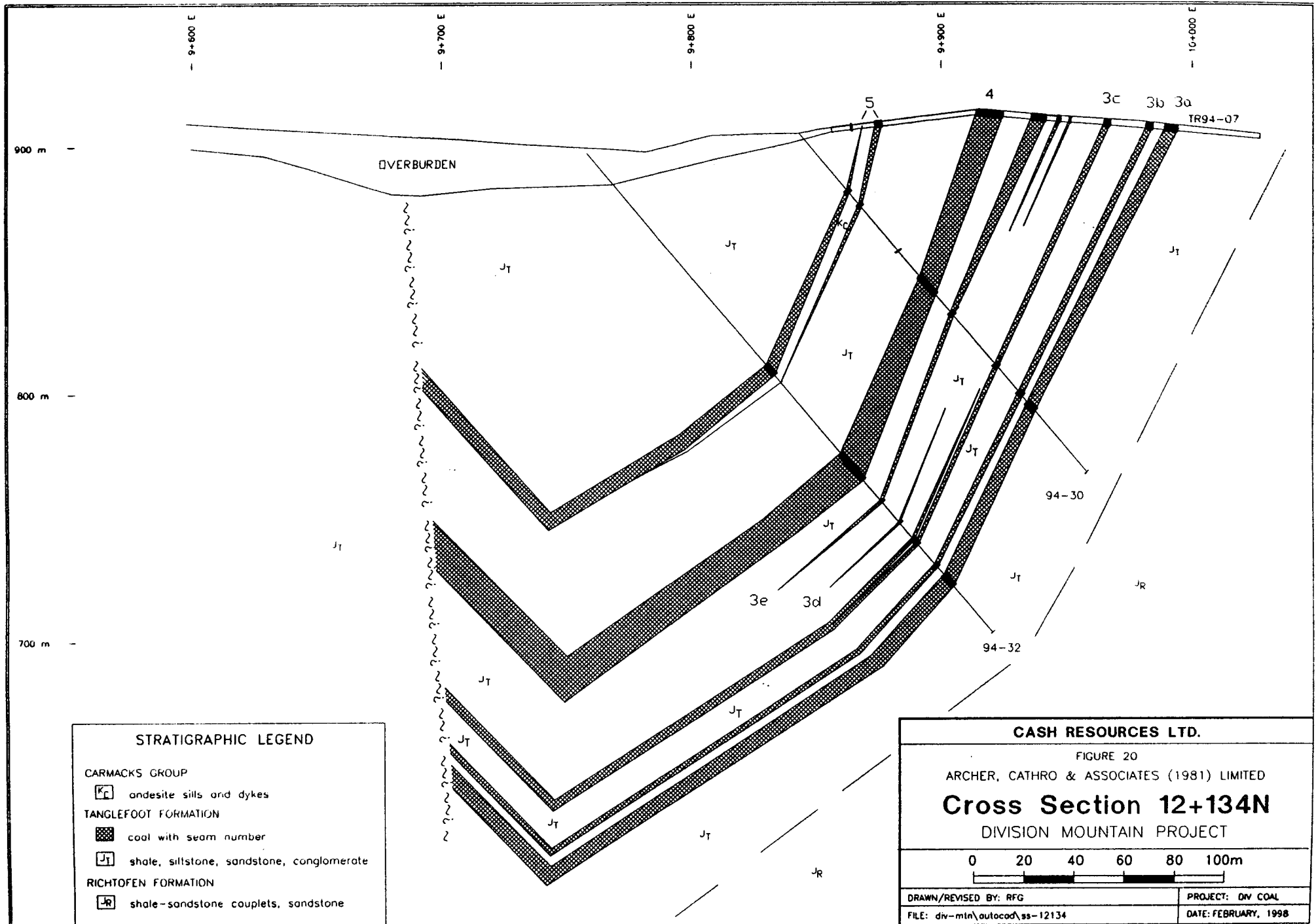
- CARMACKS GROUP
 - andesite sills and dykes
- TANGLEFOOT FORMATION
 - coal with seam number
 - shale, siltstone, sandstone, conglomerate
- RICHTOFEN FORMATION
 - shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 19
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Cross Section 12+025N
 DIVISION MOUNTAIN PROJECT



DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-min\autocad\ss-12025	FEBRUARY, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP

andesite sills and dykes

TANGLEFOOT FORMATION

coal with seam number

shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 20

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 12+134N

DIVISION MOUNTAIN PROJECT

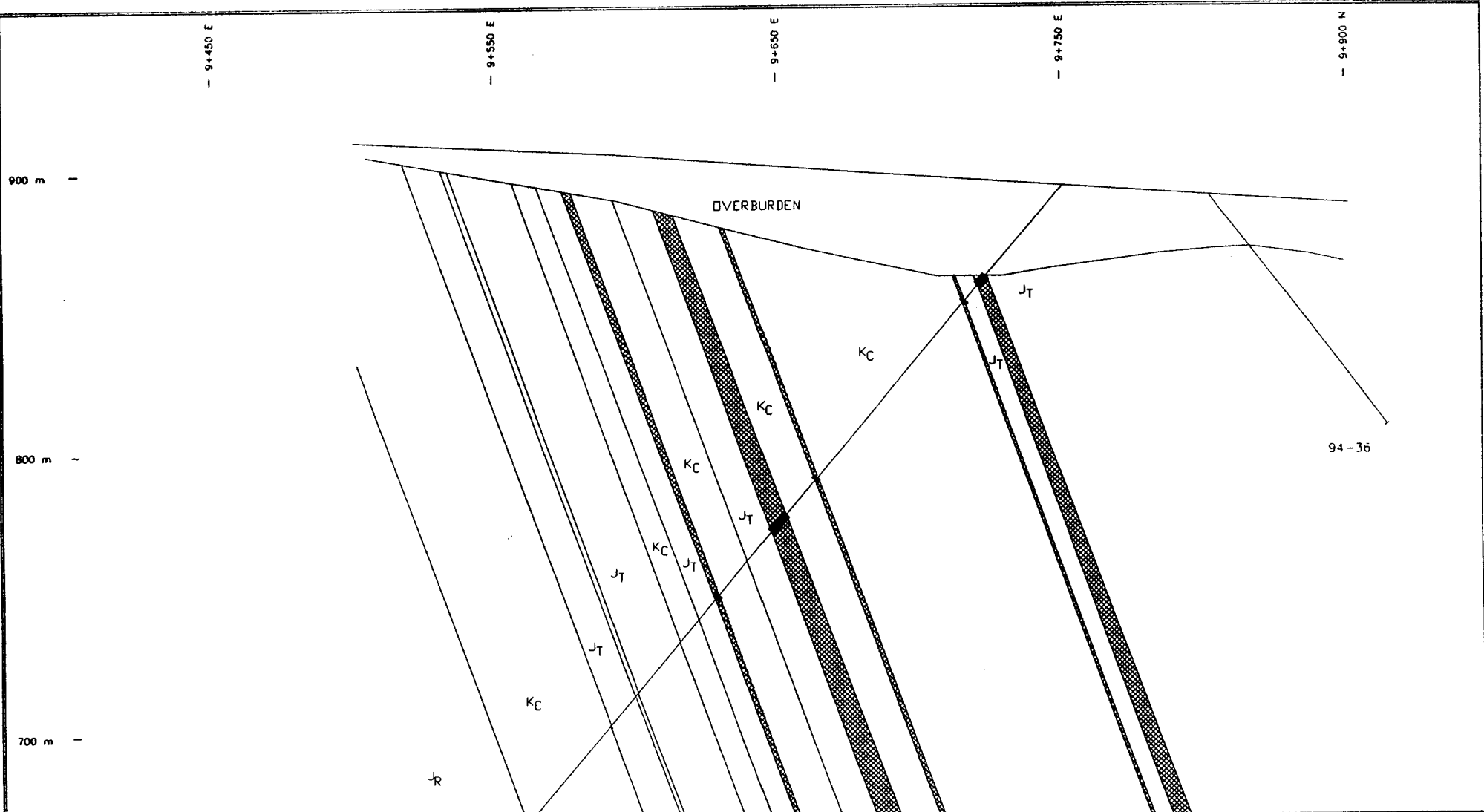
0 20 40 60 80 100m

DRAWN/REVISED BY: RFG

PROJECT: DIV COAL

FILE: div-min\autocad\ss-12134

DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP

andesite sills and dykes

TANGLEFOOT FORMATION

coal with seam number

shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 21

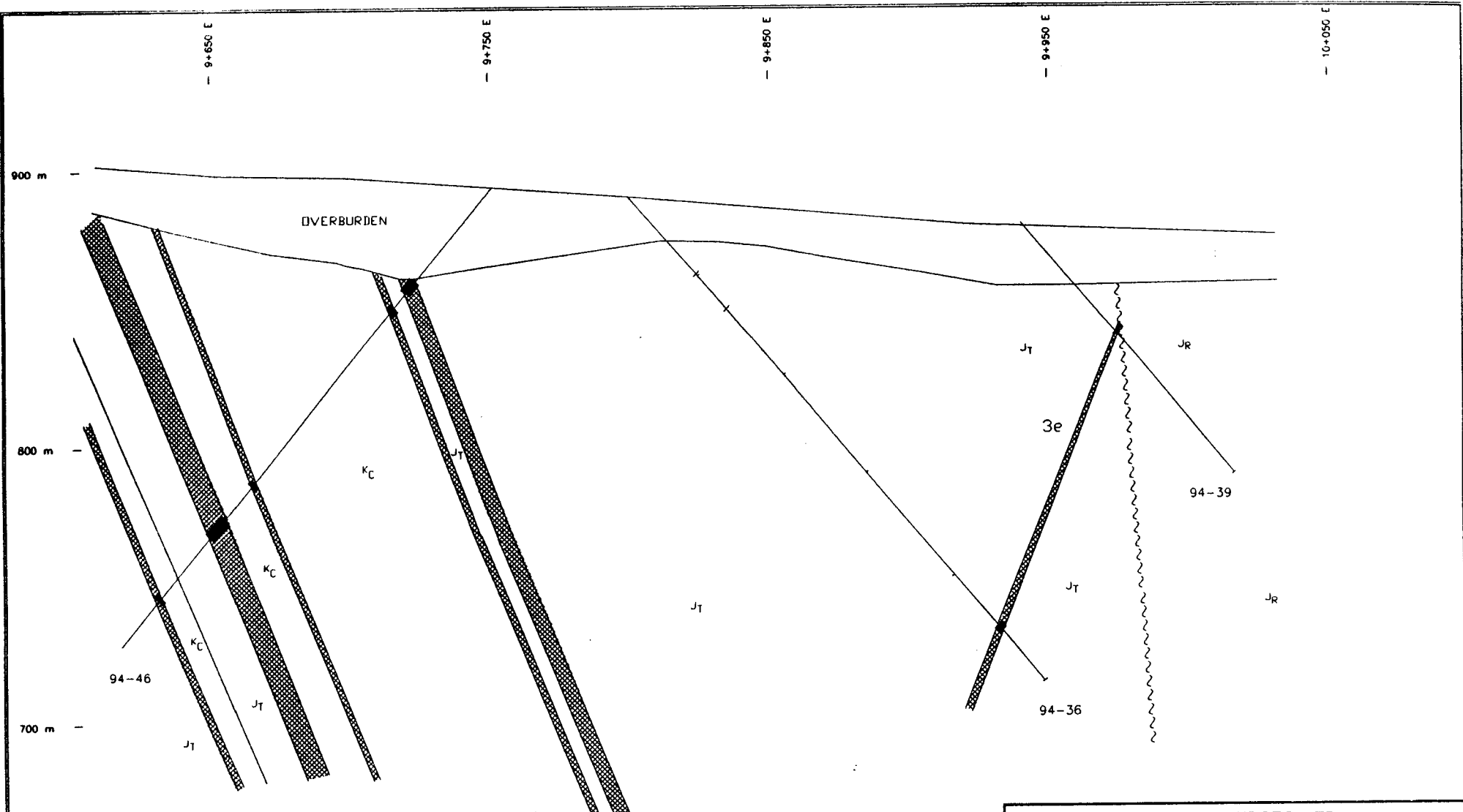
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 12+438N (West)

DIVISION MOUNTAIN PROJECT

0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\autocad\ss-12439	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

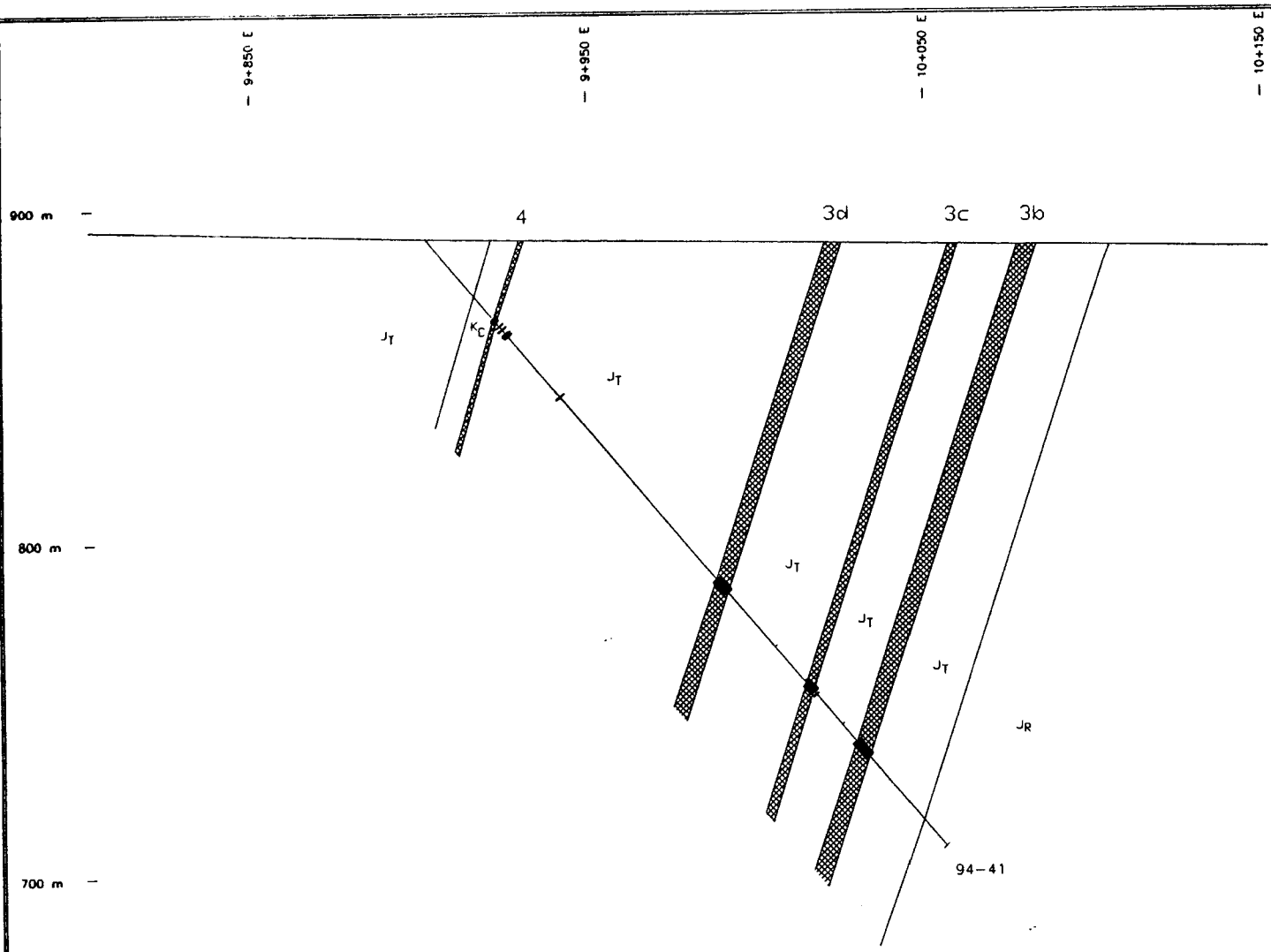
CASH RESOURCES LTD.

FIGURE 22
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 12+438N (East)
 DIVISION MOUNTAIN PROJECT

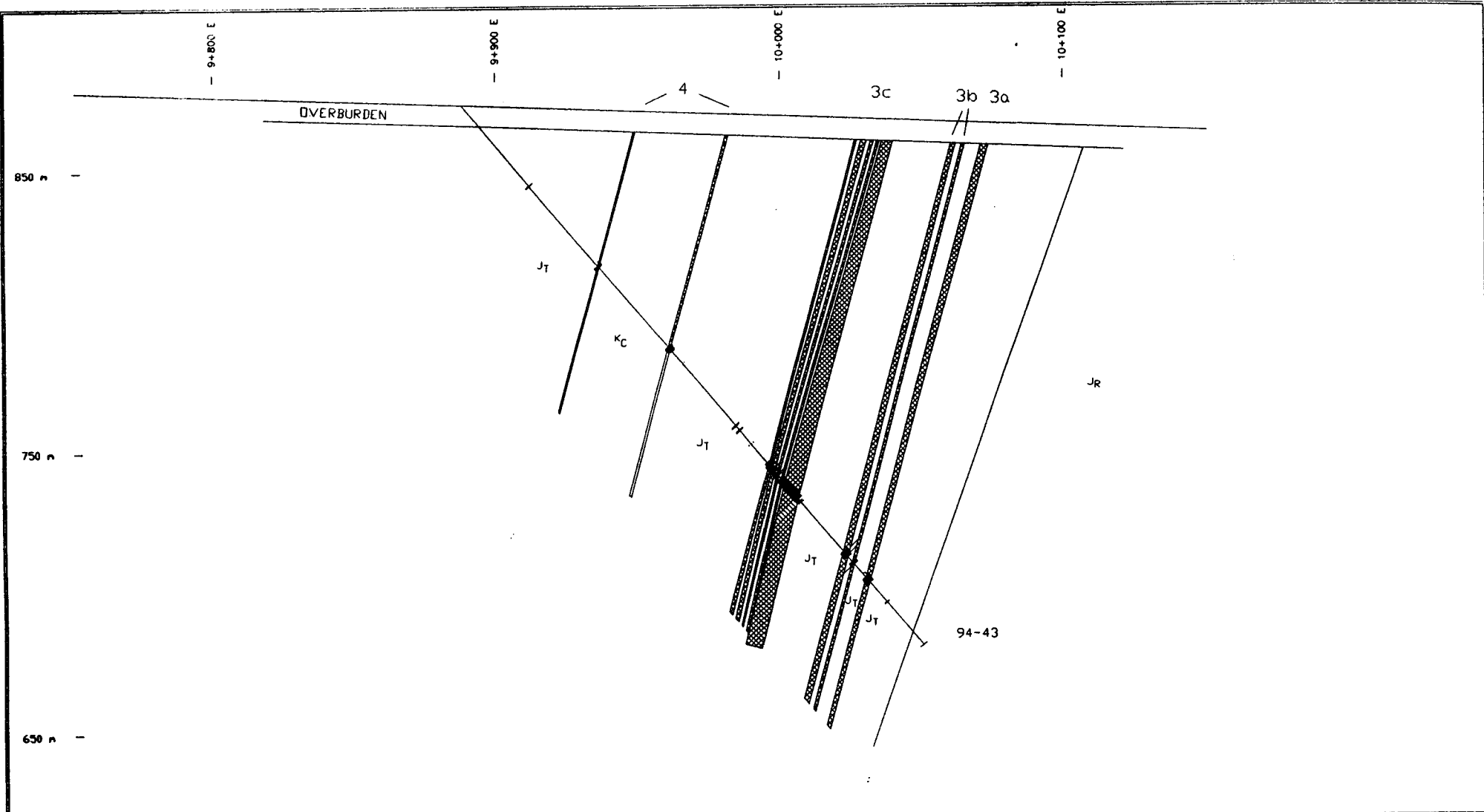
0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\autocad\ss-10000	DATE: FEBRUARY, 1998



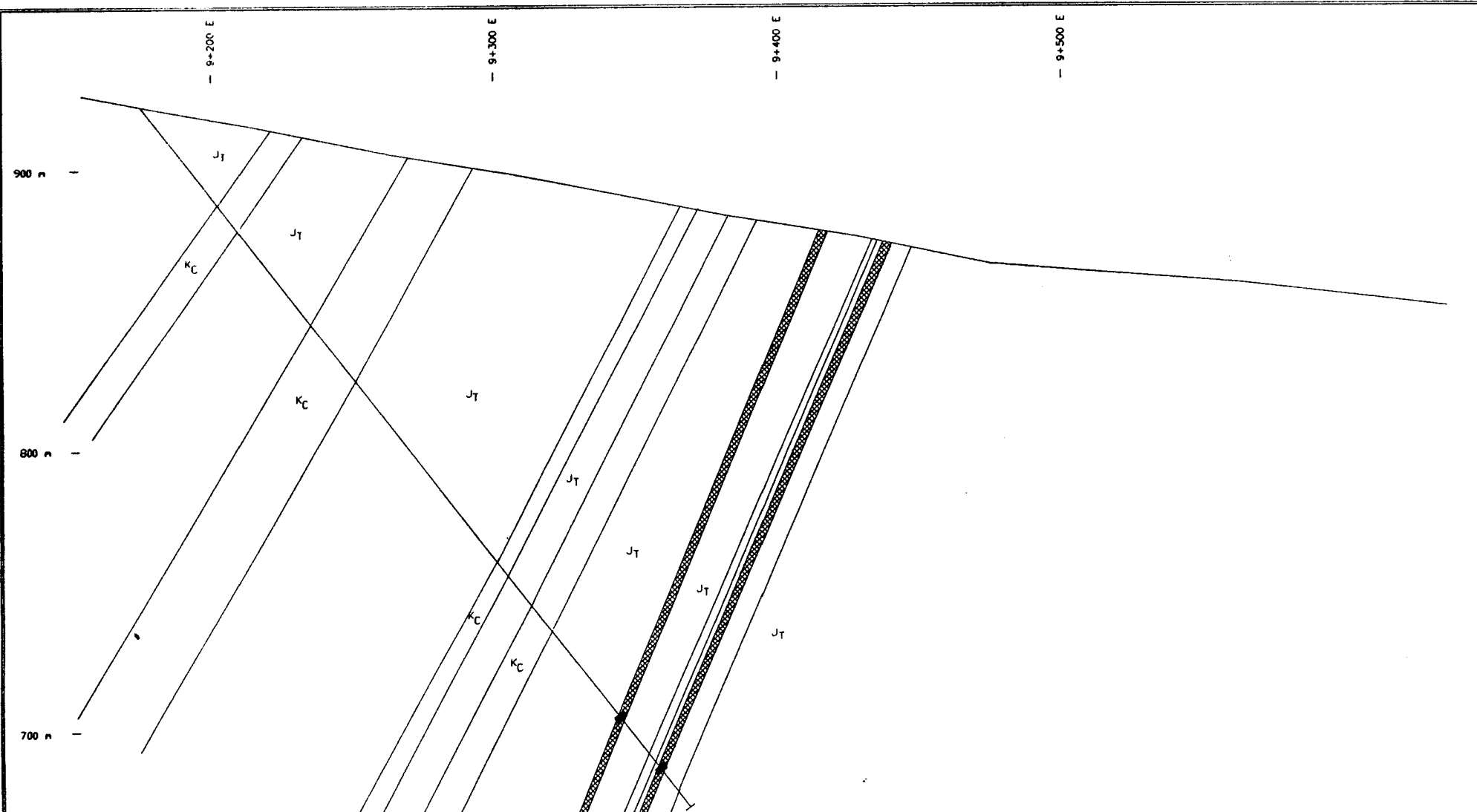
STRATIGRAPHIC LEGEND	
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

CASH RESOURCES LTD.	
FIGURE 23	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 12+754N	
DIVISION MOUNTAIN PROJECT	
DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-min\autocad\ss-12743	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND	
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

CASH RESOURCES LTD.	
FIGURE 24	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 13+048N	
DIVISION MOUNTAIN PROJECT	
DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: giv-mtn\autocad\ss-13048	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP

[K_C] andesite sills and dykes

TANGLEFOOT FORMATION

[Hatched] coal with seam number

[J_T] shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

[R] shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 25

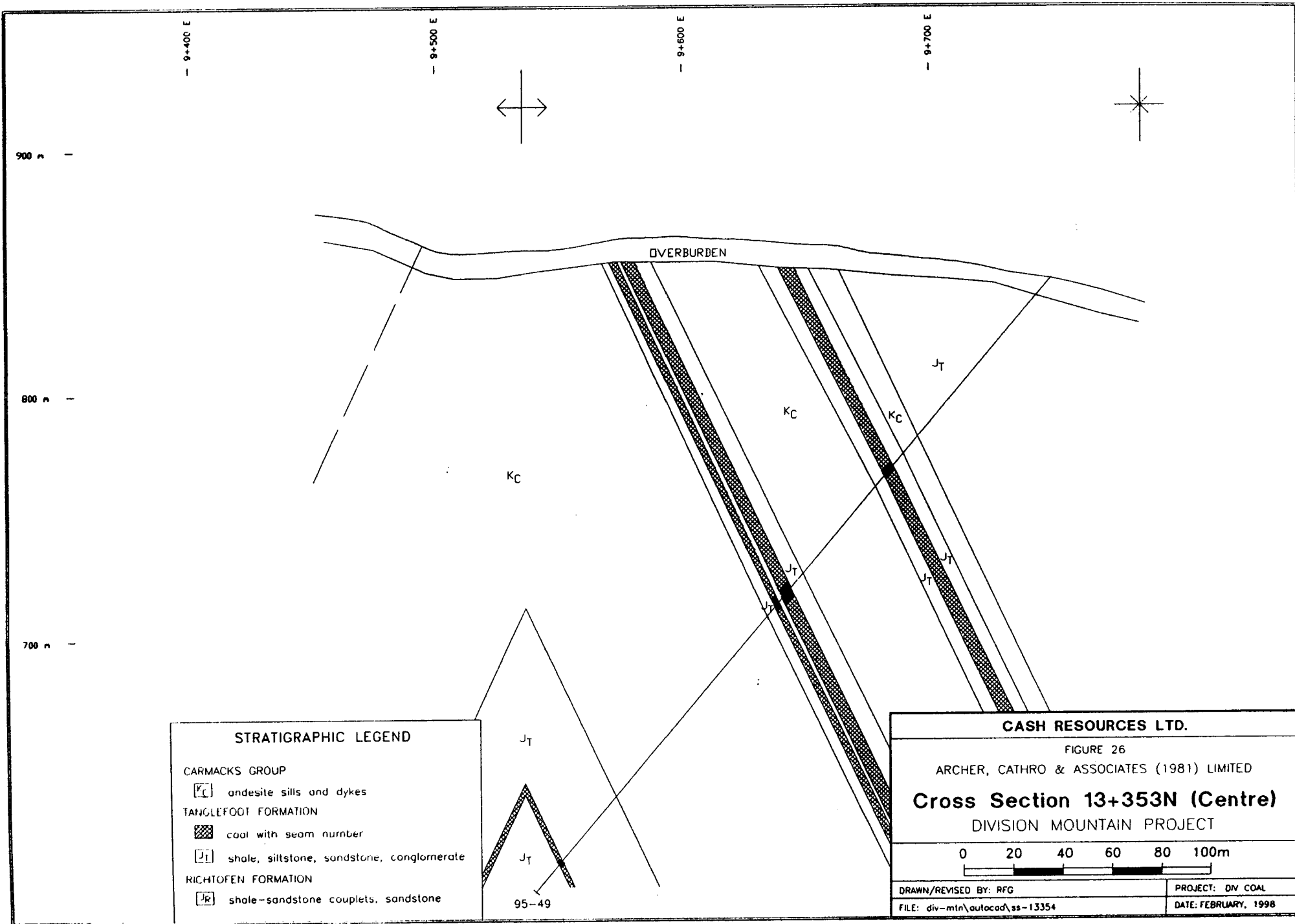
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 13+353N (West)

DIVISION MOUNTAIN PROJECT

0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div--mtn\autocad\ss-13355	DATE: FEBRUARY, 1988



STRATIGRAPHIC LEGEND

CARMACKS GROUP

[KC] andesite sills and dykes

TANGLEFOOT FORMATION

[JT] shale, siltstone, sandstone, conglomerate

[Coal] coal with seam number

[JR] shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 26

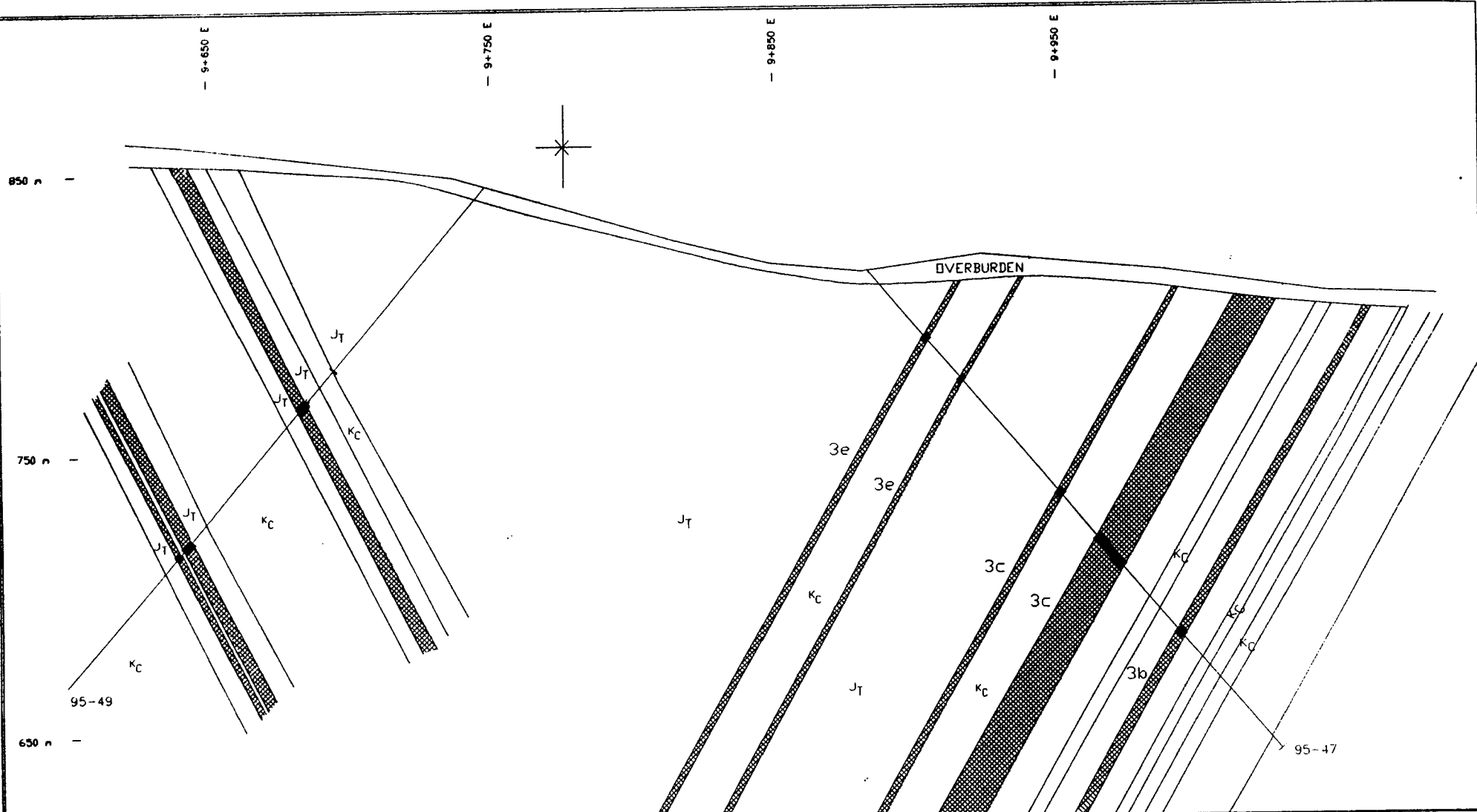
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 13+353N (Centre)

DIVISION MOUNTAIN PROJECT

0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV. COAL
FILE: div-min\autocad\ss-13354	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP

[Kc] andesite sills and dykes

ANGLEFOOT FORMATION

[3] coal with seam number

[Jt] shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

[R] shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 27

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 13+353N (East)

DIVISION MOUNTAIN PROJECT

0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\outocad\ss-13353	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP

[K_C] andesite sills and dykes

TANGLEFOOT FORMATION

[J_T] shale, siltstone, sandstone, conglomerate

[R] shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 28

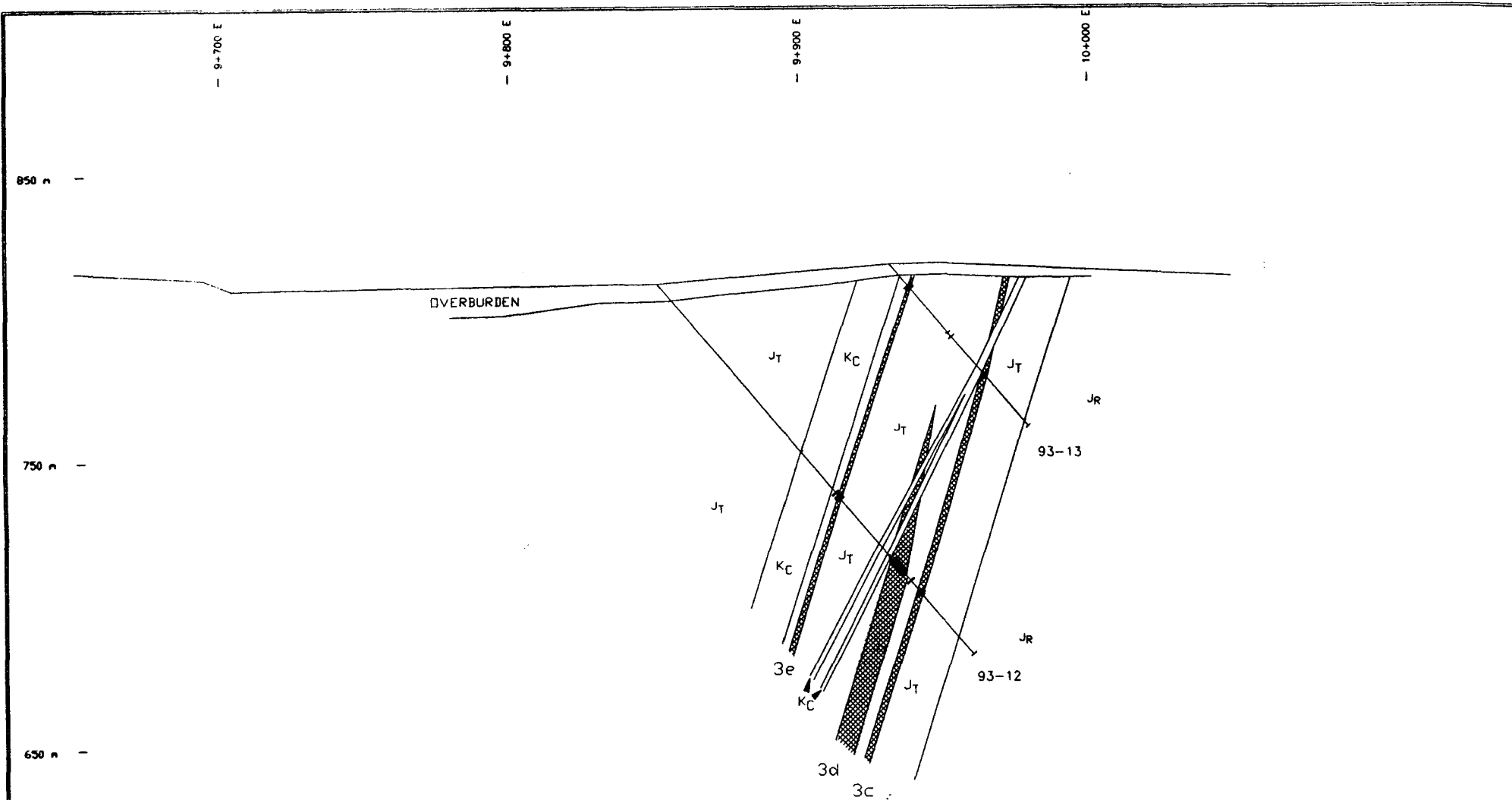
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 13+658N

DIVISION MOUNTAIN PROJECT

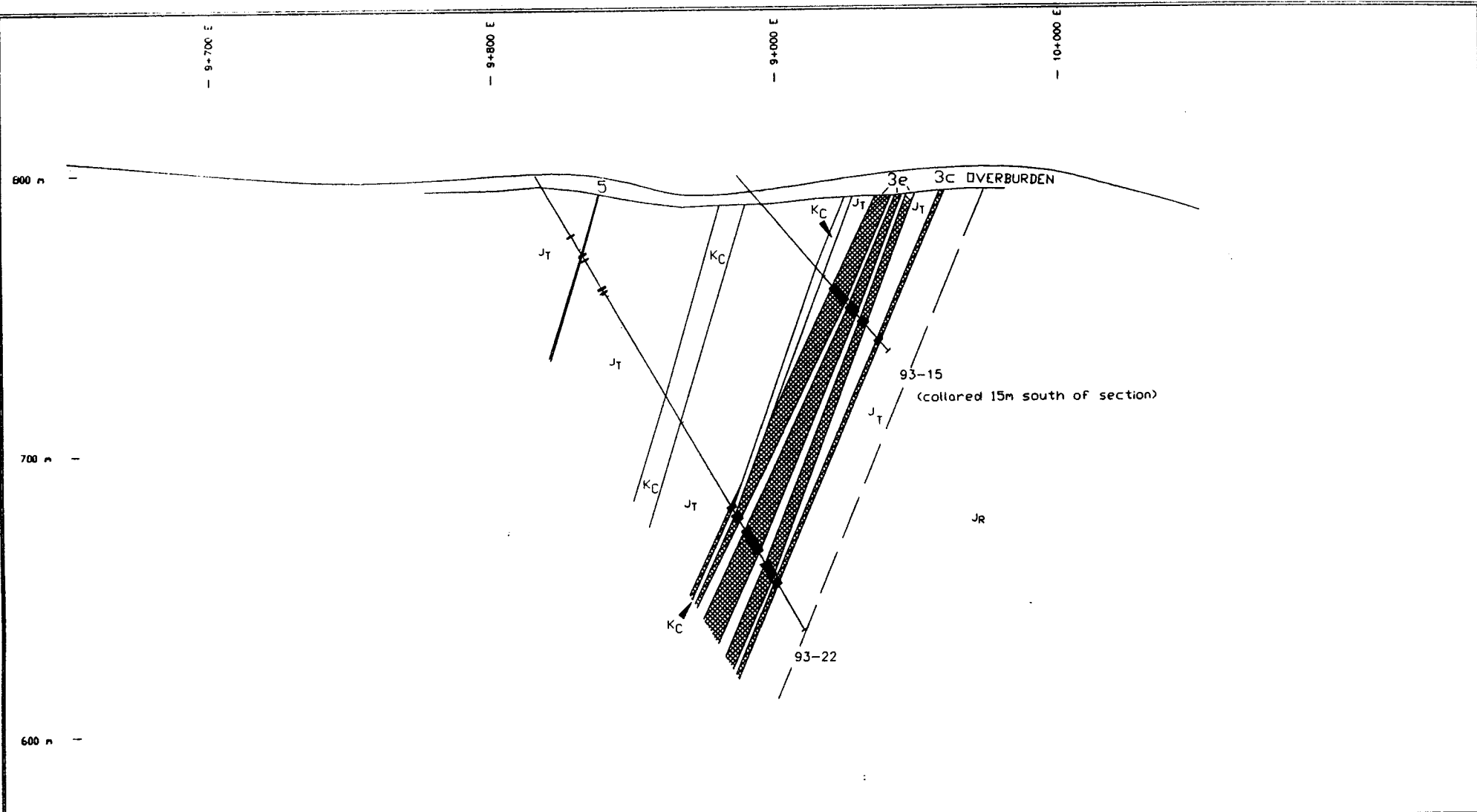
0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\autocad\ss-13658	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND	
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

CASH RESOURCES LTD.	
FIGURE 29	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 13+962N	
DIVISION MOUNTAIN PROJECT	
DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\autocad\ss-13962	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP

KC andesite sills and dykes

TANGLEFOOT FORMATION

Coal with seam number

Jt shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

JR shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 30

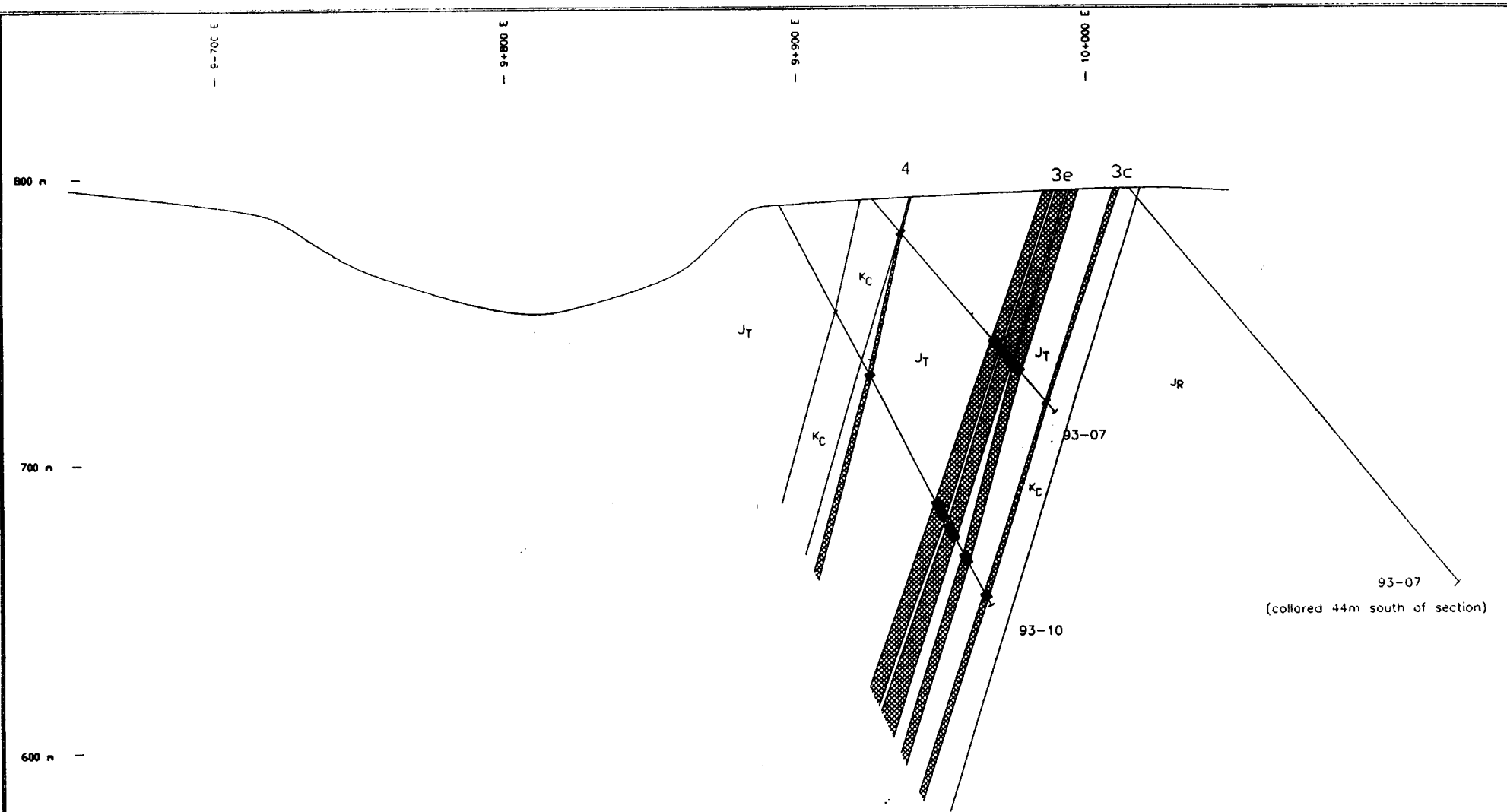
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 14+075N

DIVISION MOUNTAIN PROJECT


0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-min\autocad\ss-14075	DATE: FEBRUARY, 1998





STRATIGRAPHIC LEGEND

CARMACKS GROUP


 andesite sills and dykes

TANGLEFOOT FORMATION

 coal with seam number

 shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

 shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 31

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 14+267N

DIVISION MOUNTAIN PROJECT

0 20 40 60 80 100m



DRAWN/REVISED BY: RFG

PROJECT: DIV COAL

FILE: div-mtn\autocad\ss-14267

DATE: FEBRUARY, 1998

9+800 N

9+900 N

10+000 N

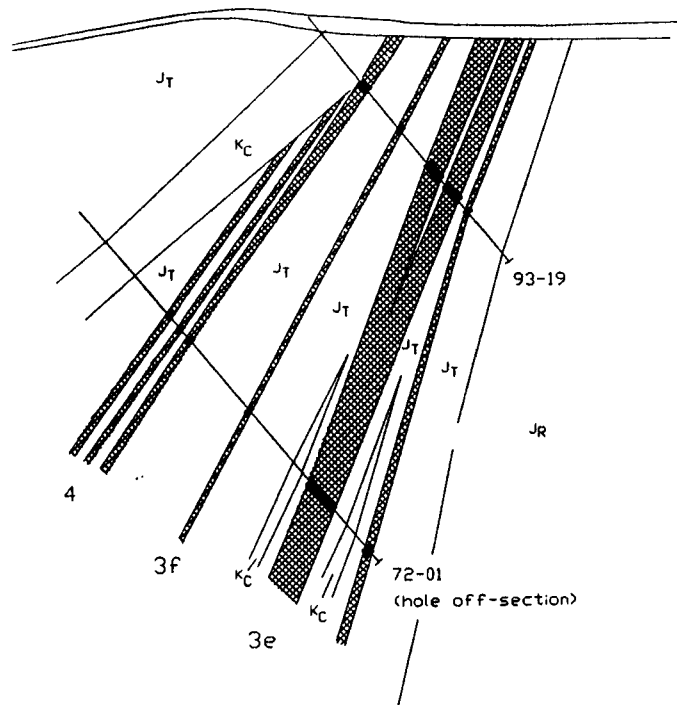
10+100 N

10+200 N

800 m

700 m

600 m



STRATIGRAPHIC LEGEND

CARMACKS GROUP

[KC] andesite sills and dykes

TANGLEFOOT FORMATION

[shaded] coal with seam number

[JT] shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

[JR] shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 32

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 14+404N

DIVISION MOUNTAIN PROJECT

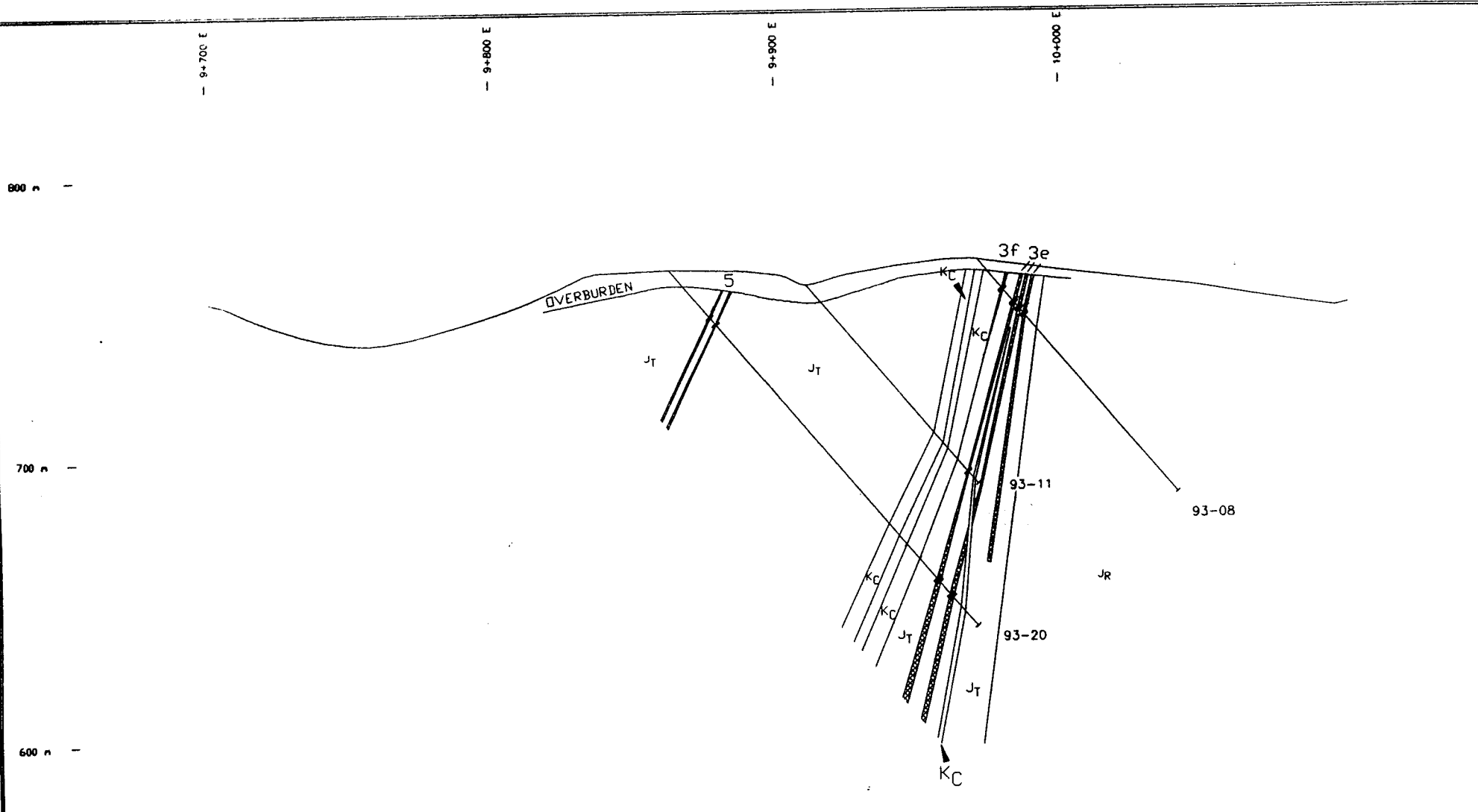
0 20 40 60 80 100m

DRAWN/REVISED BY: RFG

PROJECT: DM COAL


FILE: dlv-mtn\autocad\ss-14434

DATE: FEBRUARY, 1998





STRATIGRAPHIC LEGEND

CARMACKS GROUP


 andesite sills and dykes

TANGLEFOOT FORMATION

 coal with seam number

 shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

 shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 33

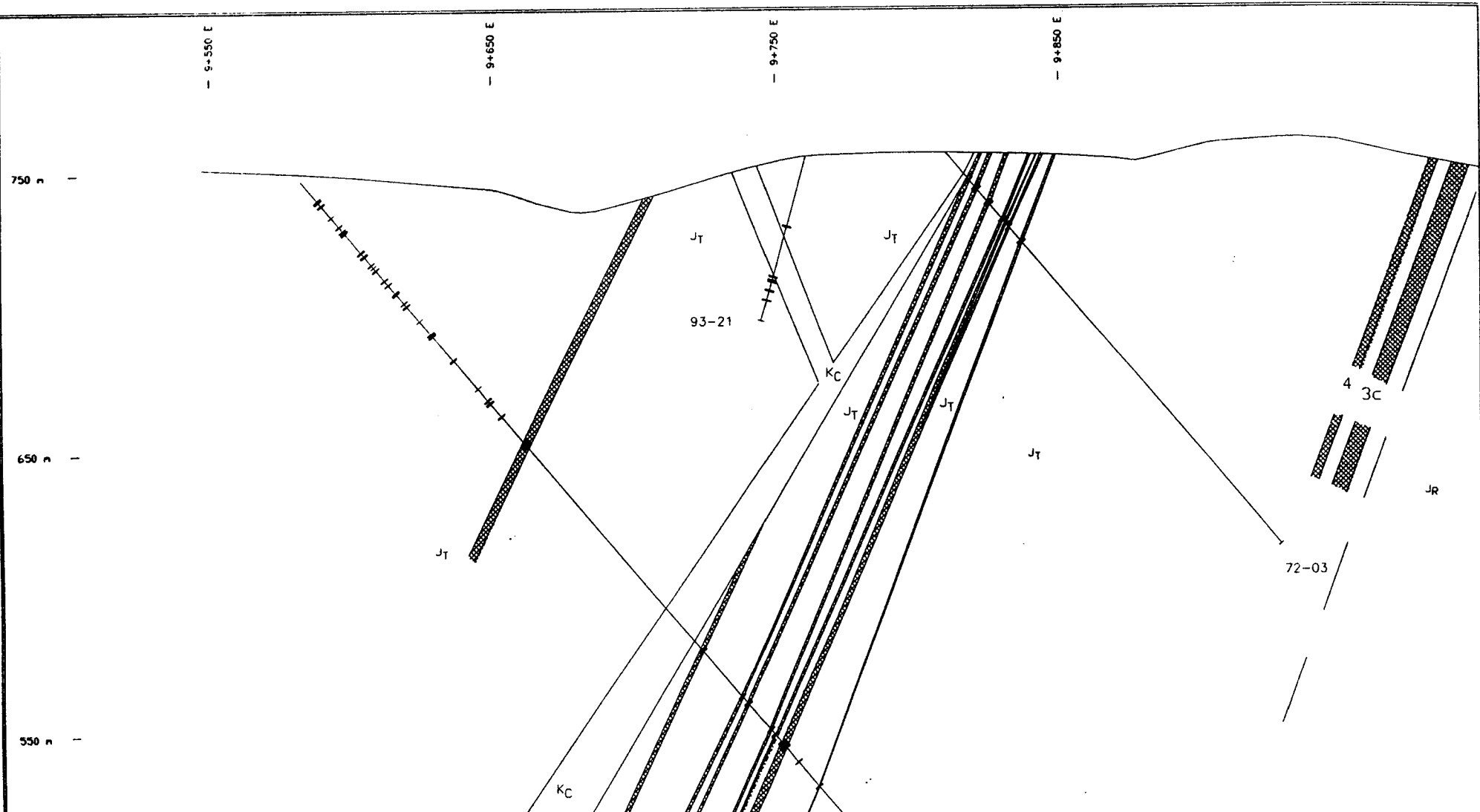
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 14+572N

DIVISION MOUNTAIN PROJECT

0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\autocad\ss-14572	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP

[KC] andesite sills and dykes

TANGLEFOOT FORMATION

[JT] coal with seam number

[JT] shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

[JR] shale-sandstone couplets, sandstone

CASH RESOURCES LTD.

FIGURE 34

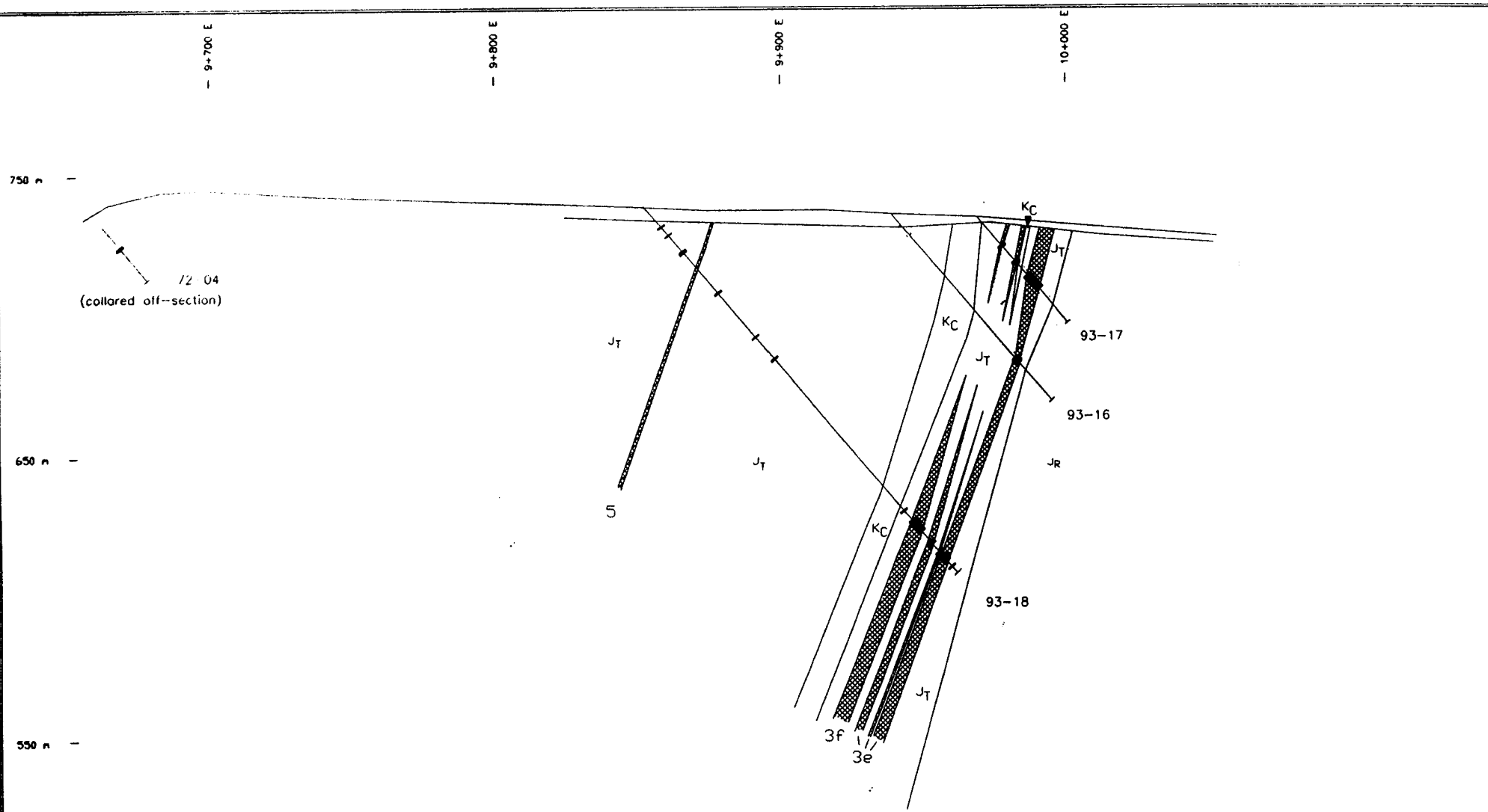
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 14+650N

DIVISION MOUNTAIN COAL

0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-min\autocad\ss-14650	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND

CARMACKS GROUP

KC andesite sills and dykes

TANGLEFOOT FORMATION

coal with seam number

JT shale, siltstone, sandstone, conglomerate

RICHTOFEN FORMATION

JR shale-sandstone couplets, sandstone

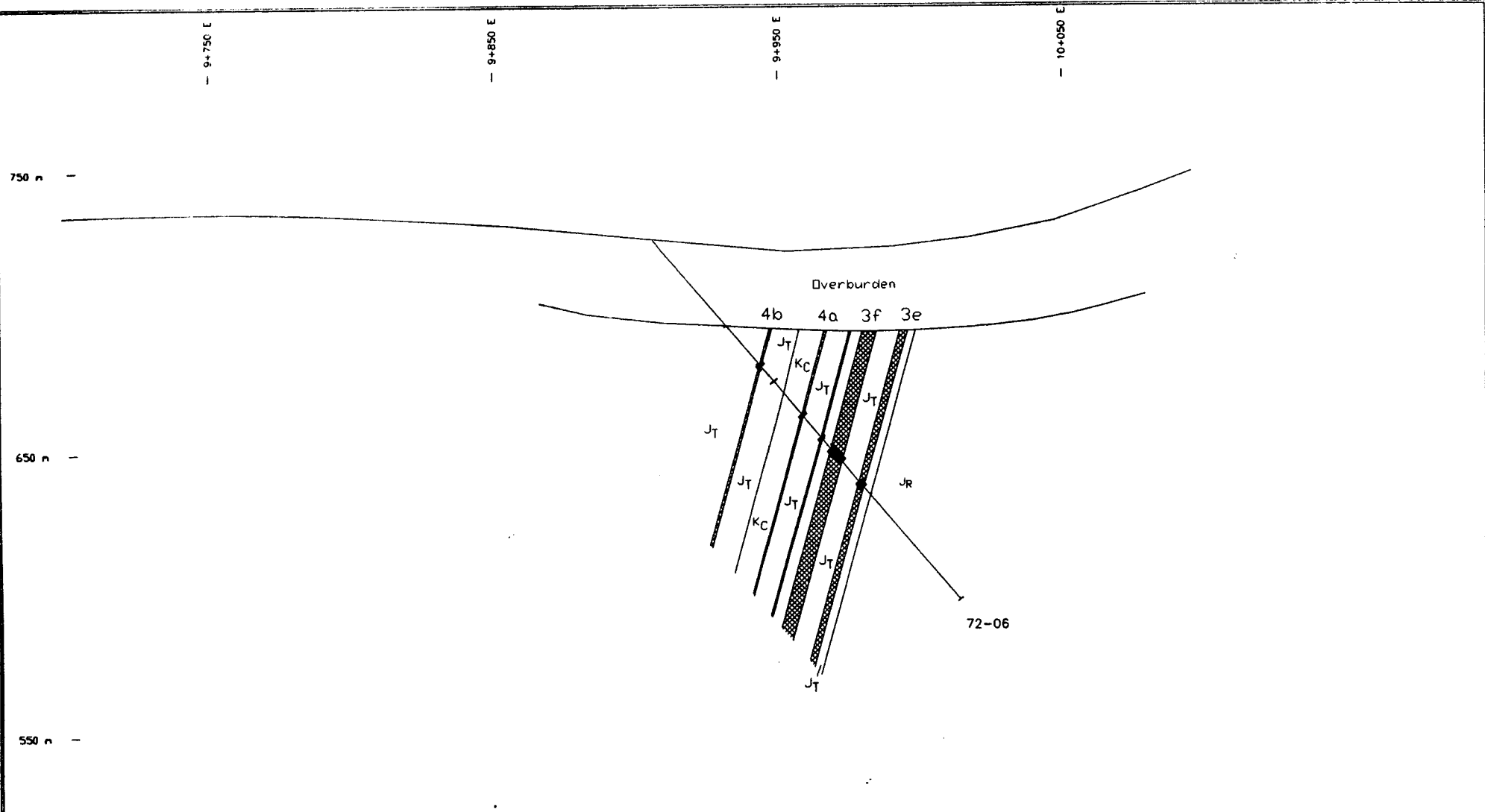
CASH RESOURCES LTD.

FIGURE 35
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Cross Section 14+745N
 DIVISION MOUNTAIN PROJECT

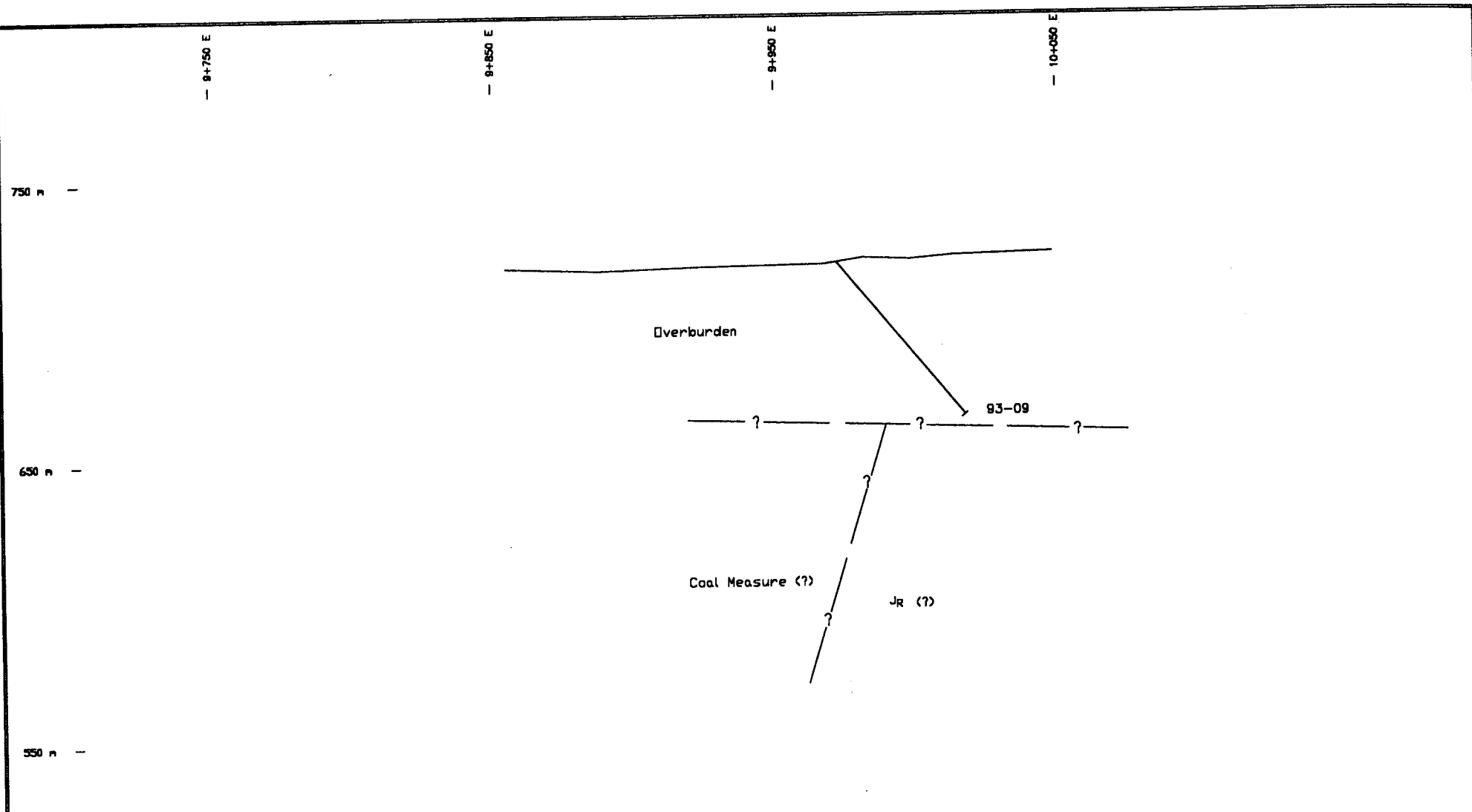
0 20 40 60 80 100m

DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\autocad\ss-14745	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND	
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

CASH RESOURCES LTD.	
FIGURE 36	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 14+877N	
DIVISION MOUNTAIN PROJECT	
DRAWN/REVISED BY: RFG	PROJECT: DV COAL
FILE: div-min\autocad\ss-14745	DATE: FEBRUARY, 1998



STRATIGRAPHIC LEGEND	
CARMACKS GROUP	
	andesite sills and dykes
TANGLEFOOT FORMATION	
	coal with seam number
	shale, siltstone, sandstone, conglomerate
RICHTOFEN FORMATION	
	shale-sandstone couplets, sandstone

CASH RESOURCES LTD.	
FIGURE 37	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
Cross Section 15+182N	
DIVISION MOUNTAIN PROJECT	
DRAWN/REVISED BY: RFG	PROJECT: DIV COAL
FILE: div-mtn\autocad\88-15182	DATE: FEBRUARY, 1988

1. a scour-based arkosic pebble conglomerate containing fossils, twigs and branches lying transverse to paleoflow along 1 to 2 m trough foresets;
2. conglomerate lags infilling troughs as lenticular beds;
3. a fining-upward zone of medium- to fine-grained arkose containing trough cross-beds which exhibit an upward decrease in set size;
4. grey organic rich shale or shaly mudstone containing leaves, grasses and *Metasequoia* needles and twigs;
5. coaly shale to shaly coal, commonly rich in coalified twigs and branches;
6. banded coal; and,
7. either a transition back to grey shale or an abrupt termination by the basal pebbly conglomerate bed of the next cycle.

The depositional environment was one of a rapidly aggrading flood-dominated delta. Cross-bedded conglomerate-sandstone cycles represent point-bar deposits from a high energy fluvial system. Paleocurrent variance supports a meandering river interpretation. Of particular interest is that, despite the generally coarse-grained nature of the channel sandstones and conglomerates, the overbank deposits and related coals are relatively thick and demonstrate remarkable lateral continuity. The coal seams were deposited in long-lived delta plain swamps that served as collection sites for transported organic material and for generation of peat bogs. Closer to the Tanglefoot-Tantalus contact, coal becomes less abundant. Instead, grey shale and coaly shale predominates as much thinner beds than the coal seams lower in the succession.

Trenching in the vicinity of Cub Mountain and Corduroy Mountain exposed northeast-dipping coal and Tanglefoot Formation stratigraphy. This is probably a fold repeat of the coal-bearing Division Mountain and Cairnes Syncline Tanglefoot Formation sequences.

Resistant beds of thick-bedded chert pebble conglomerate of the Upper Jurassic to Lower Cretaceous Tantalus Formation cap the Tanglefoot Formation coal-bearing sequence, forming prominent topographic highs at Division Mountain, Red Ridge and Corduroy Mountain.

Depositional environment of the Tantalus Formation appears to be one of an active flood plain.

Coal has previously been mined within the Tantalus conglomerates 100 km to the north of Division Mountain in the Carmacks region. Coal float has been found in the vicinity of gopher holes in areas underlain by the Tantalus Formation at Division Mountain and Red Ridge but to date none has been found in bedrock.

Small stocks, dykes and sills of porphyritic basalt, andesite and dacite intrude the Tanglefoot Formation coal measures. The presence of glassy chill zones and rare amygdaloidal textures are indicative of emplacement in a near-surface setting. Age of the intrusions is unknown but they are probably related to regionally extensive volcanic rocks of the Upper Cretaceous Carmacks Group which unconformably overlie the Laberge and Tantalus stratigraphy in the Division Mountain area.

STRUCTURAL GEOLOGY

Deformation in the Whitehorse Trough occurred primarily as flexural slip folding during the Middle Cretaceous. Synclinal and anticlinal axes trend north-northwest, parallel to the trough axis. Fold wavelengths are generally between 500 m and 2 km, although complex tight folds with wavelengths less than 3 m have been noted. The coal-bearing Cairnes Syncline outlined by 1994-95 exploration trends 310° and plunges 9° to the northwest (Figure 4). The limbs dip between 25 and 72° . Diamond drilling in 1997 concentrated on the coal rich east limb of the Division Mountain Syncline about 2 km south of the Cairnes Syncline. This syncline also trends approximately 310° with the east limb dipping 45 to 55° to the southwest. Exploration to date has not yet defined either the fold nose or the western limb of the Division Mountain Syncline.

The folded stratigraphy has only been slightly modified by northwest- and northeast-trending normal faults with minor dip-slip displacements.

DETAILED GEOLOGY OF THE COAL MEASURES

There are no natural exposures of coal in the Division Mountain area. Bedrock occurrences have either been located by hand or machine trenching through glacial till cover in areas of coal float or where coal-bearing stratigraphy has been projected to be present.

Coal seams occur throughout the 450 m thick Tanglefoot Formation but the thickest and most continuous accumulations of coal are present near the base of the unit. Internal stratigraphy and structure of the recessive coal measures is best illustrated on the geology map (Figure 4) and on cross sections showing drill hole data (Figures 5 to 37). This relatively rigorous investigation of the coal measures along a strike distance of almost 6 km has defined five main seams with a number of subsidiary seams, totalling fourteen in all.

Three depositional basins are present. Between the southeastern limit of current exploration at Section 9+00N and Section 10+050N (Figure 3), Seams 1a to 2b lie near the Tanglefoot-Richtofen contact. Seam 1a, which forms the base of the coal measures, is unusually thick here, reaching a maximum of 17.3 m in Hole 97-61. A relatively thick barren interval lies between Seams 2 and 3. Strata which host Seams 4 and 5 have not been tested by drilling in this area.

A stratigraphic cut-out or pinch-out occurs on Section 10+050N where only Seam 1a at 1.7 m thick is present near surface. Hole 97-60, however intersected a 16.8 m thickness in the same seam just 80 m down the dip.

Between Section 10+050N and Section 13+962N, where another pinch-out is present, Seams 1 to 3 are moderately thick and lie in an evenly spaced manner within a 50 m stratigraphic

interval some 20 to 30 m above the Tanglefoot-Richtofen contact. Seams 4 and 5 are also present above a 40 to 50 m barren interval.

Northwest of Section 13+962N Seams 1 and 2 are not present. A number of relatively thin subsidiary splits of Seams 3, 4 and 5 have been intersected by drilling, however only the basal Seams 3c and 3e have any economic significance.

The only petrologic examination of the coal was carried out in 1992 on detailed samples taken from an old bulldozer trench exposure at Teslin Creek near drill section 14+296N. The main seam here is probably typical of the bulk coal resource established at Division Mountain. It is 11.0 m thick, with two shale partings 65 and 38 cm thick. Petrographically, on a mineral-matter free basis, the coals average 54% vitrinite, predominately desmocollinite. Macerals of the liptinite group (primarily sporangite) comprise, on average, 10% of the coal. Average total inertite content, principally fusinite, is 36%. Some anisotropic fusinite (pyrolytic carbon) is wood char derived from peat fires. Mineral matter content varies throughout the seam, ranging from 4 to 47% and closely follows ash content. The most common minerals are quartz and kaolin with lesser calcite and siderite.

The Red Ridge coal occurrence was first discovered in 1907 by D.C. Cairnes of the Geological Survey of Canada. It lies approximately 5 km along strike to the northwest of the Teslin Creek discovery area. In 1972 Arjay Kirker Resources Ltd. relocated the coal showing and measured a section from the top of Red Ridge northeast to the Nordenskiold River, which defines approximately 245 m of Tantalus conglomerate overlying finer-grained Tanglefoot sedimentary rocks containing coal and carbonaceous shale. In 1993, a 25 m hand trench was cut near the

break-in-slope to the Nordenskiöld River valley (Figure 3). A further 15 m was added to this trench in 1997. The trench profile consists of a blanket of glacial soil overlying a series of sub-horizontal layers of arkose-sandstone grit, sand lenses and coal fragment horizons varying in thickness from 20 to 70 cm. Structures within the coal fragment horizon are virtually nonexistent. The nature of the stratigraphy in the trench is most likely attributed to downhill creep of a coal horizon uphill at least 10 m from the initial exposure. The probable aggregate true width of bedrock coal may be in the range of 12 to 15 m.

A 30 m long hand trench 2 km southwest of Cub Mountain (Figure 3) exposed coal, shale, siltstone and sandstone of the Tanglefoot Formation. This trench was cut perpendicular to bedding near the location where numerous patches of coal float were found. Although the trench was over 2 m deep it is questionable whether bedrock was reached. This area warrants a 500 to 600 m, southwest-oriented excavator trench from the Tanglefoot-Tantalus contact at Cub Mountain toward Division Mountain.

Tanglefoot Formation stratigraphy was explored with a 360 m long trench on the west side of Corduroy Mountain. The stratigraphy on here is 5 km along strike to the southeast of the same rocks at Cub Mountain. A total of 23 m of coal were uncovered in 25 seams, the thickest seam being 3 m. The rocks strike 130 to 150° and dip 45 to 85° to the northeast. Due to overburden thickness which exceeded the 6 m limit of the excavator, the most favourable part of the lower Tanglefoot Formation stratigraphy was not explored. Additional trenching should also be carried out in this area to define targets for resource definition by diamond drilling.

COAL RESOURCE AND COAL QUALITY

Whole core samples of coal intersections were sent to Chemex Labs Ltd. of North Vancouver, B.C. in 1992, 1994 and 1995 and to Loring Laboratories Ltd. of Calgary, Alberta in 1997 for proximate analyses. Coal quality data for 1972 to 1997 drill core intersections are tabulated on the synoptic drill logs (Appendix III). Analytical Certificates for 1997 diamond drill core samples are located in Appendix IV.

A seam by seam listing of coal quality data for each drill hole intersection is given in Appendix V. A tonnage estimate for each intersection is also given using an area of influence equal to half the distance to the next drill hole but not exceeding 250 m from the bedrock surface. Specific gravities are assigned on the basis of ash content.

A total near-surface resource of 52.9 million tonnes has been defined with a calorific value of 5161 cal/g, 2.3% residual moisture, 27.9% ash, 26.8% volatile matter, 43.7% fixed carbon and 0.44% sulphur. This resource could be defined as Indicated using criteria set out in the standardized Coal Resource/Reserve Reporting System established by the Geological Survey of Canada (GSC Paper 88-21).

From the resource summary, which appears at the end of Appendix V, two conclusions are apparent. Firstly, 32% of the coal resource at Division Mountain lies within Seam 1a, the bulk of which lies along the relatively shallow-dipping southeast limb of the Division Mountain Syncline where true thicknesses range up to 17.3 m. Secondly, coal quality in this area is significantly better than the deposit average. For instance, calorific value of Seam 1a is 5315 cal/g versus the

average of 5161 cal/g. This is largely due to lower ash contents. Other seams in this area have the lowest ash contents of any intersected so far at Division Mountain. These include analyses of 8.7% ash (Seam 3d, Section 9+100N), 8.2% ash (Seam 3c, Section 10+00N), 8.2% ash (Seam 3b, Section 9+700N), 13.0% ash (Seam 2c, Section 9+700N), 12.3% ash (Seam 2b, 9+700N) and 14.3% ash (Seam 1b, 9+100N).

The coincidence of shallow-dipping, low ash coal in thick seams is even more important in the context of the excellent potential for further expansion of near-surface reserves by additional drilling to the southeast of Section 9+000N.

Stripping ratios of bedrock waste per tonne of raw coal for the Division Mountain 52.9 million tonne near-surface resource are given on a section by section basis in Appendix VI. These are calculated by superimposing pit profiles (with slopes less than 60°) on cross sections through the coal measures. Potential pit depths were taken down to between 100 and 250 m from bedrock surface. Average stripping ratio is 3.5 bank cubic metres of waste rock per tonne of raw coal.

APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, R. Frank Gish, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address on Bowen Island, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 1993 with a B.Sc. majoring in Geological Sciences.
2. From 1976 to 1980 and 1986 to present, I have been actively engaged in mineral exploration in the Yukon Territory and am presently employed with Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in and supervised the field work reported herein.

A handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke at the bottom, positioned above the printed name.

R.F. Gish, B.Sc.

APPENDIX II

DIAMOND DRILL HOLE COORDINATES

APPENDIX II
DIAMOND DRILL HOLE COORDINATES

Drill Hole Number	UTM Coordinates	
	Northing	Easting
72-01	6,801,719	442,025
72-02	6,801,692	442,270
72-03	6,801,806	441,807
72-04	6,801,758	441,649
72-05	6,801,656	441,633
72-06	6,802,025	441,694
93-07	6,801,658	442,178
93-08	6,801,889	441,974
93-09	6,802,263	441,496
93-10	6,801,633	442,158
93-11	6,801,837	441,931
93-12	6,801,407	442,368
93-13	6,801,470	442,418
*93-14	6,801,254	442,624
93-15	6,801,496	442,319
93-16	6,801,975	441,809
93-17	6,801,995	441,831
93-18	6,801,910	441,751
93-19	6,801,779	442,099
93-20	6,801,798	441,900
93-21	6,801,784	441,774
93-22	6,801,453	442,254
94-23	6,800,048	444,005
94-24	6,799,983	443,958
94-25	6,799,780	444,226
94-26	6,799,363	444,633
94-27	6,799,123	444,828
94-28	6,799,125	444,830
94-29	6,799,577	444,412
94-30	6,800,250	443,786
94-31	6,799,366	444,636
94-32	6,800,187	443,737
94-33	6,799,319	444,605
94-34	6,799,254	444,780
94-35	6,799,253	444,780
94-36	6,800,417	443,521
94-37	6,798,560	444,228
94-38	6,799,580	444,410
94-39	6,800,538	443,591
94-40	6,799,579	444,409
94-41	6,800,684	443,350
94-42	6,799,726	444,189
94-43	6,800,862	443,102
94-44	6,799,958	443,936
94-45	6,799,728	444,190

Drill Hole Number	UTM Coordinates	
	Northing	Easting
95-46	6,800,380	443,485
95-47	6,801,040	442,860
95-48	6,799,190	443,755
95-49	6,800,945	442,785
95-50	6,797,614	444,653
95-51	6,800,500	442,420
95-52	6,797,510	444,554
95-53	6,796,835	444,670
95-54	6,798,800	443,720
*97-55	6,799,026	443,784
*97-56	6,798,970	443,744
*97-57	6,798,775	443,592
97-58	6,798,089	444,681
97-59	6,797,925	444,556
97-60	6,797,837	444,467
97-61	6,797,233	444,703
97-62	6,797,307	444,766
97-63	6,796,798	445,122
*97-64	6,796,916	445,222

*approximate UTM coordinates

APPENDIX III
SYNOPTIC DIAMOND DRILL HOLE LOGS

ABBREVIATIONS USED IN SYNOPTIC LOGS

S	-	total sulphur
CV	-	calorific value
RM	-	residual moisture
VM	-	volatile matter
FC	-	fixed carbon
OVB	-	overburden
EOH	-	end of hole
ANDS	-	andesite
BRXX	-	andesite breccia
Richtofen	-	contact of coal-bearing Tanglefoot Formation with underlying Richtofen Formation
N.B.	-	all coal quality data is reported on an air-dried basis

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 93-07
NORTHING 14 + 267N
EASTING 9 +927E

ELEVATION 792m
DEPTH 97.84 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	0.50	0.50									
ANDS	0.50	14.80	14.30									
COAL	14.80	15.86	1.06	0.92								4
COAL	64.00	68.25	4.25	3.70	seam 2bC	5856	2.9	19.3	30.2	47.6	0.42	3e3
parting	66.30	66.36	0.06	0.05								
parting	65.30	65.33	0.03	0.03								
COAL	69.35	74.65	5.30	4.61	seam 2bB	4977	2.7	28.3	28.4	40.6	0.44	3e2
COAL	75.75	79.70	3.95	3.44	seam 2bA	5540	2.7	22.5	29.8	45.0	0.52	3e1
parting	77.30	77.33	0.03	0.03								
parting	78.50	78.54	0.04	0.03								
COAL	92.77	95.05	2.28	1.98	seam 1	5423	2.5	25.2	31.3	41.0	0.62	3c
EOH	97.84											

partings were included in samples

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 93-10
NORTHING 14 + 267N
EASTING 9 + 895E

ELEVATION 792 m
DEPTH 157.30 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -62.5
@ 157.30m -60

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	4.50	4.50									
ANDS	42.00	61.10	19.10									
COAL	66.44	68.50	2.06	1.50								
COAL	97.50	97.75	0.25	0.18								
COAL	115.80	123.00	7.20	5.26	seam 2bC	5938	2.8	17.9	31.4	47.9	0.42	3e3
COAL	125.00	130.90	5.90	4.31	seam 2bB	5657	2.5	22.1	28.4	47.0	0.45	3e2
COAL	136.50	140.00	3.50	2.56	*	5540	2.7	22.5	29.8	45.0	0.52	3e1
COAL	152.20	156.00	3.80	2.77	seam 1	4851	2.4	31.5	28.6	37.5	0.54	3c
EOH	157.30											

* not sampled- coal quality is assumed to be the same as Seam 3e1 in Hole 93-07

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 93-13
NORTHING 13 + 962N
EASTING 9 + 932E

ELEVATION 810 m
DEPTH 74.37 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 74.37 m -54

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	6.71	6.71									
ANDS	7.22	8.22	1.00									
COAL	10.20	11.57	1.37	1.15	*	3992	2.2	43.8	8.1	46	0.40	3e
ANDS	46.93	49.72	2.79									
COAL	50.60	51.65	1.05	0.88	**	5918	3	19.8	32.1	45.1	0.61	3c
EOH	74.37											

* not sampled- coal quality is assumed to be the same as Seam 3e in Hole 93-14

** not sampled- coal quality is assumed to be the same as Seam 3c in Hole 93-12

SYNOPTIC LOG

DIVISION MOUNTAIN PROJECT

CASH RESOURCES LTD.

HOLE 93-14

NORTHING 13 + 658N

EASTING 9 +894E

ELEVATION 810 m

DEPTH 148.13 m

CORE SIZE HQ

AZIMUTH 035

DIP @ COLLAR -57.5

@ 148.13m -62

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVV	0.00	6.40	6.40									
ANDS	24.69	44.95	20.26									
COAL	44.95	45.92	0.97	0.86								3e2
COAL	46.94	48.92	1.98	1.76	seam 3	3992	2.2	43.8	8.1	46.0	0.40	3e1
ANDS	84.88	86.15	1.27									
ANDS	87.80	90.99	3.19									
ANDS	119.98	141.76	21.78									
COAL	141.76	142.99	1.23	1.10	*	5918	3.0	19.8	32.1	45.1	0.61	3c
ANDS	145.28	148.13	2.85									
EOH	148.13											

* not sampled- coal quality is assumed to be the same as Seam 3c in Hole 93-12

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 93-18
NORTHING 14 + 745N
EASTING 9 + 855E

ELEVATION 718 m
DEPTH 170.38 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@170.38m -56

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	5.48	5.48									
COAL	9.65	10.03	0.38	0.33								
COAL	21.11	22.19	1.08	0.94								5
COAL	40.42	40.89	0.47	0.41								
COAL	60.96	61.26	0.30	0.26								
COAL	71.00	71.50	0.50	0.44								
ANDS	130.14	141.18	11.04									
COAL	145.86	151.10	5.24	4.56	93 18-2	5218	1.9	29.2	23.7	45.2	0.46	3f
*parting	147.50	147.75	0.25	0.22								
*parting	149.45	149.55	0.10	0.09								
COAL	160.35	164.90	4.55	3.96	93 18-1	4876	2.4	29.6	29.1	38.9	0.48	3e1
*parting	161.13	161.53	0.40	0.35								
*parting	161.60	161.85	0.25	0.22								
COAL	167.21	167.65	0.44	0.38								
EOH	170.38											

*partings were excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 93-19
NORTHING 14 + 404N
EASTING 9 + 968E

ELEVATION 785 m
DEPTH 84.10m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	5.18	5.18									
ANDS	5.18	22.55	17.37									
COAL	22.55	24.50	1.95	1.93	93 19-3	3301	10.0	41.1	6.3	42.6	0.19	4
*parting	23.11	23.36	0.25	0.24								
COAL	35.66	37.05	1.39	1.26								3f
COAL	48.80	53.64	4.84	4.15	93 19-2C	5908	3.2	17.9	30.3	48.7	0.41	3e2
COAL	55.25	60.14	4.89	4.19	93 19-2B	5520	2.8	23.1	29.4	44.7	0.48	3e1
COAL	64.16	65.55	1.39	1.19	93 19-2A	5402	3.0	22.8	31.1	43.1	0.72	3c
EOH	84.10											

*parting was included in sample

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 93-22
NORTHING 14 + 087N
EASTING 9 +816E

ELEVATION 777 m
DEPTH 187.50 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -60
@187.50m -65

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	4.00	4.00									
COAL	24.84	25.14	0.30	0.26								5c
COAL	32.50	33.00	0.50	0.44								5b
COAL	34.69	34.99	0.30	0.26								5a
ANDS	91.13	101.28	10.15									
COAL	136.51	142.65	6.14	5.42	93-22-2C	5443	3.5	26.4	9.5	60.6	0.45	3e3
*parting	137.76	139.82	2.06	1.82								
COAL	146.30	156.06	9.76	8.62	93-22-2B	5651	2.7	22.0	28.9	46.4	0.40	3e2
COAL	160.12	169.06	8.94	7.89	93-22-2A	5362	3.1	24.8	27.5	44.7	0.41	3e1/3c
*parting	165.76	167.28	1.52	1.34								
EOH	187.50											

*partings were excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-23
NORTHING 11 + 840N
EASTING 9 +820E

ELEVATION 914 m
DEPTH 160.02 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 160m -46

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	5.79	5.79									
COAL	20.42	24.60	4.18	3.97	9423-1	5001	1.6	28.7	22.7	47.1	0.37	5
ANDS	24.60	30.39	5.79									
COAL	30.39	32.45	2.06	1.96	9423-2	2597	1.0	54.3	17.0	27.5	0.28	5
COAL	32.98	33.03	0.05	0.05								
COAL	45.03	45.48	0.45	0.43								
COAL	74.50	82.42	7.92	7.52	9423-3	6000	2.2	18.8	30.7	48.3	0.42	4
COAL	88.30	89.54	1.24	1.18	9423-4	5161	2.1	29.5	26.1	43.8	0.49	3e
COAL	96.05	101.10	5.05	4.80	9423-5	5720	2.3	22.5	29.2	46.1	0.49	3c
*parting	99.35	99.53	0.18	0.17								
COAL	111.39	111.74	0.35	0.33								
COAL	118.31	124.44	6.13	5.82	9423-6	4086	1.7	41.0	28.7	40.0	0.52	3b
*parting	122.60	123.65	1.05	1.00								
COAL	128.20	130.70	2.50	2.38	9423-7	3857	1.7	42.9	26.0	29.4	0.38	3a
EOH	160.02											

*parting was excluded from sample

SYNOPTIC LOG**DIVISION MOUNTAIN PROJECT****CASH RESOURCES LTD.****HOLE 94-25****NORTHING 11 + 500N****EASTING 9 + 750E****ELEVATION 937 m****DEPTH 163.98 m****CORE SIZE HQ, NQ****AZIMUTH 040****DIP @ COLLAR -50****@ 163.98m -45**

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	5.48	5.48									
COAL	45.27	49.13	3.86	3.74	9425-1	5734	3.0	19.3	30.0	47.7	0.39	4
COAL	66.37	67.37	1.00	0.97								
*parting	66.69	66.82	0.13	0.13								
ANDS	81.70	92.07	10.37									
COAL	104.90	111.56	6.66	6.46	9425-2	5674	3.1	20.9	29.8	46.2	0.41	3b
COAL	116.80	120.85	4.05	3.93	9425-3	4965	2.1	28.2	31.2	38.5	0.50	3a
EOH	163.98											

*parting was included in sample

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-26
NORTHING 10 + 918N
EASTING 9 + 675E

ELEVATION 935 m
DEPTH 164.90 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 164m -50

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	3.81	3.81									
COAL	46.02	47.02	1.00	1.00	9426-1	5212	2.5	28.2	26.8	42.6	0.73	3c
COAL	54.12	54.42	0.30	0.30								
COAL	61.65	63.79	2.14	2.13	9426-2	2344	7.1	52.9	2.8	37.2	0.43	3b
ANDS	63.79	77.00	13.21									
COAL	77.00	78.94	1.94	1.93	9426-3	4087	8.0	35.0	8.1	48.9	0.50	3b
COAL	85.69	88.95	3.26	3.25	9426-4	5836	3.4	20.0	28.9	47.7	0.48	3a2
*parting	87.68	87.92	0.24	0.24								
COAL	94.09	95.48	1.39	1.38	9426-5	5807	3.0	18.6	32.1	46.3	0.64	3a1
COAL	98.05	105.05	7.00	6.97	9426-6	5859	3.0	18.8	29.8	48.3	0.39	2b
COAL	109.88	112.78	2.90	2.89	9426-7	5752	2.9	20.3	31.7	45.1	0.60	2a
COAL	116.03	117.70	1.67	1.66	9426-8	3274	2.0	48.0	23.5	26.5	0.54	1a
EOH	164.90											

*parting was included in sample

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-29
NORTHING 11 + 244N
EASTING 9 + 720E

ELEVATION 939 m
DEPTH 188.37 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 391m -49

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	4.57	4.57									
COAL	46.73	55.07	8.34	8.34	9428-1	4829	3.0	32.2	26.7	38.1	0.36	4
*parting	52.06	52.51	0.45	0.45								
COAL	106.38	108.15	1.77	1.77	9428-2	4925	4.8	27.4	21.9	45.9	0.30	3b
ANDS	108.15	119.13	10.98									
COAL	119.13	120.40	1.27	1.27	9428-3	5283	5.5	24.0	7.6	62.8	0.28	3b
COAL	125.70	129.93	4.23	4.23	9428-4	5357	2.2	25.7	28.0	44.1	0.62	3a
COAL	137.41	141.79	4.38	4.20	9428-5	5086	2.7	28.2	28.0	41.2	0.36	2b2
parting	139.38	139.46	0.08	0.08								
parting	141.46	141.57	0.11	0.11								
COAL	145.08	148.08	3.00	3.00	9428-6	5743	2.5	20.6	31.4	45.5	0.62	2b1
EOH	188.37											

*parting was excluded from the sample

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-30
NORTHING 12 + 134N
EASTING 9 + 842E

ELEVATION 906 m
DEPTH 178.61m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 177m -46

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	5.40	5.40									
COAL	29.50	31.17	1.67	1.52	9430-1	4207	2.3	36.6	11.4	49.8	0.30	5
ANDS	31.17	37.00	5.83									
COAL	37.00	38.62	1.62	1.47	9430-2	5073	2.3	28.0	10.6	59.2	0.44	5
COAL	74.98	84.75	9.77	8.89	9430-3	6067	3.1	16.9	29.7	50.4	0.51	4
*parting	80.13	80.60	0.47	0.43								
COAL	94.10	96.05	1.95	1.77	9430-4	5583	2.6	23.0	28.2	46.2	0.54	3e
COAL	118.90	119.05	0.15	0.14								3d
COAL	121.53	123.53	2.00	1.82	9430-5	5489	2.3	25.1	31.0	41.5	0.59	3c
COAL	136.17	138.72	2.55	2.32	9430-6	2861	1.8	52.7	25.0	20.6	0.43	3b
parting	137.91	138.07	0.16	0.15								
COAL	141.93	146.57	4.64	4.22	9430-7	4114	2.0	40.1	26.4	31.6	0.59	3a
parting	9cm											
EOH	178.61											

*parting excluded from sample

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-32
NORTHING 12 + 134N
EASTING 9 + 760E

ELEVATION 898 m
DEPTH 252.07m
CORE SIZE HQ & NQ

AZIMUTH 040
DIP @ COLLAR -60
@ 252m -56

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVV	0.00	18.50	18.50									
COAL	111.86	117.19	5.33	5.20	9432-1	4317	2.4	39.0	19.0	39.7	0.31	5
ANDS	117.19	121.00	3.81									
COAL	158.24	172.41	14.17	13.95	9432-2	5879	2.6	19.8	29.1	48.5	0.43	4
*parting	168.12	168.64	0.52	0.47								
COAL	182.94	184.17	1.23	1.20	9432-3	3552	1.5	47.5	24.0	27.0	0.38	3e
COAL	194.37	195.22	0.85	0.76								3d
COAL	202.70	204.00	1.30	1.17	9432-4	5724	1.9	23.1	30.3	44.7	0.62	3d
COAL	205.11	206.40	1.29	1.16	9432-5	4899	1.8	31.8	28.6	37.9	0.51	3c
COAL	216.60	218.41	1.81	1.62	9432-6	5417	1.6	27.0	31.0	40.5	0.54	3b
COAL	220.30	228.56	8.26	8.10	9432-7	3510	1.5	46.9	24.4	27.3	0.36	3a
EOH	252.07											

*partings were excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-33
NORTHING 10 + 914N
EASTING 9 + 630E

ELEVATION 935 m
DEPTH 109.73 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 109.73m -52

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	5.94	5.94									
COAL	14.48	24.58	10.10	10.00	9433-1	5884	1.8	18.9	24.9	54.4	0.67	3b
*parting	15.34	16.06	0.72	0.71								
*parting	19.96	20.76	0.80	0.79								
*parting	21.33	23.74	2.41	2.39								
COAL	34.00	50.60	16.60	16.43	9433-2	5373	2.2	21.4	30.4	46.1	0.58	2b
*parting	35.54	37.34	1.80	1.78								
EOH	109.73											

*partings were excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-34
NORTHING 10 + 725N
EASTING 9 + 690E

ELEVATION 930 m
DEPTH 145.39 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -70
@ 145m -70

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	3.05	3.05									
COAL	9.75	17.72	7.97	6.38	9434-1	5540	2.7	20.5	29.4	47.4	0.40	3c
parting	13.00	13.03	0.03	0.02								
parting	13.50	13.53	0.03	0.02								
COAL	20.20	24.50	4.30	3.44	9434-2	4078	1.9	40.9	24.0	33.2	0.40	3b
COAL	37.19	54.40	17.21	13.77	9434-3	4208	3.0	39.1	17.8	40.1	0.38	3a
parting	42.40	42.43	0.03	0.02								
parting	41.05	41.09	0.04	0.03								
parting	44.40	44.58	0.18	0.14								
ANDS	54.40	63.80	9.40									
COAL	64.60	65.48	0.88	0.70								3a
COAL	73.97	80.50	6.53	5.22	9434-4	4008	1.6	41.3	25.0	32.1	0.68	2b
parting	10%											
EOH	145.39											

partings were not excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-35
NORTHING 10 + 725N
EASTING 9 + 690E

ELEVATION 930 m
DEPTH 129.23 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 129.23m -51

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	3.66	3.66									
COAL parting	8.84 5%	16.31	7.47	7.46	9435-1	5656	2.4	21.6	30.7	45.3	0.55	3c
COAL *parting	18.00 18.90	18.90 19.22	0.90 0.32	0.90 0.32	9435-2	3681	1.9	44.2	24.0	29.9	0.47	3b
COAL	31.60	31.80	0.20	0.20								3a
ANDS	32.56	64.23	31.67	31.64								
COAL parting	65.35 40%	67.66	2.31	2.31	9435-3	NA	0.8	76.8	13.7	8.8	0.22	2b
ANDS	83.27	85.60	2.33									
ANDS	109.95	118.65	8.70									
Richtofen	118.65	129.23	10.58									
EOH	129.23											

*parting was excluded from sample

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-37
NORTHING 10 + 710N
EASTING 8 + 800E

ELEVATION 958 m
DEPTH 206.04 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 184.71m -53

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	3.05	3.05									
COAL	36.96	38.17	1.21	1.21	9437-1	NA	2.2	75.2	11.8	10.9	0.18	2b
ANDS	38.17	46.06	7.89									
COAL	46.06	46.60	0.54	0.54								2b
COAL	55.57	58.57	3.00	3.00	9437-2	3060	1.5	50.2	10.6	37.7	0.57	2a
*parting	57.91	58.30	0.39	0.39								
ANDS	58.57	58.86	0.29									
COAL	82.05	84.24	2.19	2.19	9437-3	4335	1.3	38.3	17.9	42.5	0.75	1b
ANDS	84.24	84.92	0.68									
COAL	84.92	85.45	0.53	0.53	**	5927	2.8	17.3	35.0	45.0	0.56	1b
COAL	86.06	86.56	0.50	0.50								1a
ANDS	86.56	92.66	6.10									
COAL	92.66	99.80	7.14	7.13	9437-4	5186	2.2	27.1	24.0	46.8	0.34	1a
partings	5%											
ANDS	99.80	102.55	2.75									
COAL	102.55	110.95	8.40	8.39	9437-5	5062	2.1	28.5	26.2	43.1	0.74	1a
ANDS	175.65	183.72	8.07									
EOH	206.04											

*parting was excluded from sample

** not sampled- coal quality is assumed to be the same as Seam 1b in Hole 95-52

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-38
NORTHING 11 + 244N
EASTING 9 + 720E

ELEVATION 940 m
DEPTH 178.61 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 178m -51

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	3.17	3.17									
COAL	30.37	35.10	4.73	4.66	9438-1	4456	2.7	35.0	26.8	35.6	0.35	4
*partings	10%											
COAL	72.85	76.24	3.39	3.32	9438-2	5452	1.8	30.5	8.7	59.1	0.35	3b
COAL	82.63	85.59	2.96	2.90	9438-3	3370	3.3	47.3	10.5	38.9	0.32	3a
*partings	10%											
ANDS	85.59	87.68	2.09									
COAL	92.90	97.08	4.18	4.18	9438-4	2059	5.2	54.8	10.9	29.2	0.20	2b
*partings	10%											
ANDS	97.08	124.20	27.12									
Richtofen	148.10	177.52	29.42									
EOH	178.61											

*partings were included in samples

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-40
NORTHING 11+ 244N
EASTING 9 + 720E

ELEVATION 940 m
DEPTH 268.22 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -90
@ 271m -90

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	4.63	4.63									
COAL	29.64	37.20	7.56	6.96	9440-1	5673	3.5	21.1	29.8	45.6	0.45	4
*parting	32.09	33.02	0.93	0.86								
*parting	34.10	35.08	0.98	0.90								
COAL	90.91	99.03	8.12	6.40	9440-2	5979	3.3	18.0	30.9	47.8	0.46	3b
parting	92.96	93.06	0.10	0.08								
COAL	109.80	114.20	4.40	3.47	9440-3	5869	3.4	18.7	29.2	48.7	0.48	3a
COAL	114.20	116.42	2.22	1.75	9440-4	3731	2.4	43.7	25.1	28.7	0.45	3a
partings	10%											
COAL	123.23	134.77	11.54	9.09	9440-5	5099	2.6	28.6	27.8	41.0	0.43	2b
COAL	155.80	159.83	4.03	3.18	9440-6	5672	1.3	25.2	26.0	47.6	0.69	2a
AND	171.32	194.55	23.23									
Richtofen	249.97	268.22	18.25									
EOH	268.22											

*partings were excluded from the sample

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-41
NORTHING 12 + 754N
EASTING 9 + 900E

ELEVATION 890 m
DEPTH 239.88 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	3.65	3.65									
AND	22.33	31.19	8.86									
COAL partings	31.19 30%	32.61	1.42	1.22	9441-1	NA	1.5	86.3	9.0	3.3	0.46	4
COAL	33.94	34.13	0.19	0.16								
COAL	35.25	35.45	0.20	0.17								
COAL	36.87	37.50	0.63	0.54								
COAL	37.93	38.10	0.17	0.15								
COAL	61.80	62.00	0.20	0.17								3e
COAL	133.48	138.73	5.25	4.52	9441-2	4919	2.5	32.0	26.9	38.6	0.35	3d
COAL *parting	174.55 175.62	177.69 176.16	3.14 0.54	2.70 0.46	9441-3	4621	7.0	34.0	7.5	51.5	0.31	3c
COAL	178.91	179.15	0.24	0.21								
COAL *parting	197.50 202.34	203.41 202.56	5.91 0.22	5.08 0.19	9441-4	4876	2.6	32.0	26.6	38.9	0.72	3b
Richtofen	228.17	239.88	11.71									
EOH	239.88											

*partings were excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-42
NORTHING 11 + 500N
EASTING 9 + 680E

ELEVATION 948 m
DEPTH 273.10 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -70

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	3.65	3.65									
COAL	94.00	99.97	5.97	5.95	9442-1	5723	3.0	22.2	29.5	45.3	0.42	4
COAL	169.94	181.92	11.98	10.90	9442-3	5401	2.2	25.3	29.4	43.1	0.40	3b
COAL	186.08	190.29	4.21	3.83	9442-4	5448	2.3	25.3	27.5	44.9	0.42	3a
COAL	195.65	196.49	0.84	0.76								2c
COAL	209.34	218.13	8.79	8.00	9442-5	5479	2.1	25.8	28.9	43.1	0.42	2a
*parting	209.91	210.12	0.21	0.19								
*parting	215.18	215.54	0.36	0.33								
COAL	222.75	227.39	4.64	4.22	9442-6	3927	1.8	41.7	25.8	30.7	0.39	1a
Richtofen	248.35	273.10	24.75									
EOH	273.10											

*partings were excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-43
NORTHING 13 + 048N
EASTING 9 + 887E

ELEVATION 876 m
DEPTH 252.07 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 252.07m -48

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	6.03	6.03									
COAL	74.67	75.34	0.67	0.56								4
ANDS	75.34	113.20	37.86	31.39								
COAL	113.20	114.83	1.63	1.35	9443-1	NA	2.0	67.3	8.0	22.6	0.10	4
*parting	114.05	114.59	0.54	0.45								
COAL	151.79	152.04	0.25	0.21								3d
partings	10%											
COAL	167.53	175.13	7.60	6.30	9443-2	4020	1.2	42.8	13.2	42.8	0.30	3c3
*parting	168.52	169.43	0.91	0.75								
*parting	170.69	172.00	1.31	1.09								
*parting	172.54	174.16	1.62	1.34								
COAL	176.23	179.58	3.35	2.78	9443-3	5552	1.9	25.0	26.6	46.5	0.38	3c2
COAL	179.93	183.48	3.55	2.94	9443-4	3803	1.5	44.9	23.7	30.0	0.40	3c1
*parting	181.87	182.62	0.75	0.62								
COAL	208.18	213.99	5.81	4.82	9443-5	4967	1.9	35.4	15.3	47.5	0.42	3b
*parting	210.61	213.03	2.42	2.01								
*parting	213.25	213.44	0.19	0.16								
COAL	220.23	222.45	2.22	1.84	9443-6	5335	1.8	27.8	29.9	40.5	0.46	3a
partings	10%											
Richtofen	246.81	252.06	5.25									
EOH	252.07											

*partings were excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN PROJECT
CASH RESOURCES LTD.

HOLE 94-44
NORTHING 11 + 840N
EASTING 9 + 706E

ELEVATION 918 m
DEPTH 215.49 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 215.49m -48

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	6.40	6.40									
COAL	24.27	24.60	0.33	0.33								6
COAL	80.16	84.84	4.68	4.67	9444-1	5082	3.4	29.6	28.2	38.8	0.43	4
partings	5%											
COAL	114.00	119.78	5.78	5.77	9444-2	6080	3.4	18.3	31.3	47.0	0.46	3b
COAL	121.00	126.01	5.01	5.00	9444-3	5451	3.0	24.8	27.9	44.3	0.47	3a
*parting	124.24	124.97	0.73	0.73								
COAL	128.93	131.55	2.62	2.61	9444-4	5510	2.2	25.1	28.6	44.2	0.57	2c
partings	15%											
COAL	141.52	145.62	4.10	4.09	9444-5	5366	2.6	26.3	28.9	42.2	0.49	2b
partings	5%											
COAL	171.68	172.50	0.82	0.82								1a
partings	10%											
ANDS	172.50	181.05	8.55									
Richtofen	199.33	215.49	16.16									
EOH	215.49											

*parting was excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 94-45
NORTHING 11 + 500N
EASTING 9 + 680E

ELEVATION 947 m
DEPTH 163.37 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	4.88	4.88									
COAL partings	46.49 10%	51.50	5.01	4.96	9445-1	4725	3.0	31.6	27.9	37.6	0.37	4
COAL partings	84.81 10%	89.78	4.97	4.92	9445-2	6110	3.4	17.0	30.9	48.7	0.45	3b
COAL partings	93.72 5%	96.10	2.38	2.36	9445-3	5826	3.5	19.7	28.5	48.4	0.50	3a
COAL	100.06	102.87	2.81	2.78	9445-4	5562	3.2	23.4	27.3	46.2	0.49	2c2
COAL parting	103.16 103.63	104.48 103.81	1.32 0.18	1.31 0.18	9445-5	5150	1.3	27.9	28.4	41.2	0.58	2c1
COAL	114.85	118.27	3.42	3.39	9445-6	4251	0.4	35.4	14.0	50.2	0.16	2b
ANDS	118.27	126.79	8.52	8.43								
COAL	128.45	128.83	0.38	0.38								
COAL parting	138.98 5%	140.97	1.99	1.97	9445-7	5639	2.8	21.2	31.1	44.9	0.55	1a
Richtofen	150.99	163.37	12.38									
EOH	163.37											

partings were included in samples

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 95-46
NORTHING 12 + 438N
EASTING 9 + 750E

ELEVATION 895 m
DEPTH 306.32 m
CORE SIZE HQ & NQ

AZIMUTH 220
DIP @ COLLAR -50
@ 306.32m -53

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVV	0.00	41.76	41.76									
COAL	42.67	46.91	4.24	3.67	9546-1	4675	5.3	31.7	9.9	53.1	1.05	3e
partings	20%											
COAL	54.14	55.05	0.91	0.79								3d
ANDS	56.39	135.59	79.20									
COAL	135.59	136.82	1.23	1.07								3e
ANDS	136.82	152.87	16.05									
COAL	152.87	156.10	3.23	2.80	9546-2	4778	4.0	30.5	9.7	55.9	0.17	3b2
partings	10%											
COAL	156.85	160.78	3.93	3.40	9546-3	3694	1.9	47.1	10.1	40.9	0.37	3b1
partings	20%											
COAL	174.46	174.86	0.40	0.35								
ANDS	174.86	190.05	15.19									
COAL	190.05	191.67	1.62	1.40	9546-4	4204	2.9	39.2	9.3	48.7	0.31	3a
partings	15%											
ANDS	201.49	211.00	9.51									
ANDS	235.12	236.22	1.10									
ANDS	249.90	295.25	45.35									
Richtofen	296.65	306.32	9.67									
EOH	306.32											

partings were included in samples

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 95-47
NORTHING 13 + 353N
EASTING 9 + 875E

ELEVATION 883 m
DEPTH 224.03 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	5.49	5.49									
COAL partings	30.78 15%	33.00	2.22	2.09	9547-1	3137	6.0	48.0	6.5	39.6	0.19	3e
ANDS	33.00	50.55	17.55									
COAL partings	50.55 20%	52.01	1.46	1.37	9547-2	2858	5.4	49.7	6.1	38.8	0.23	3e
COAL	97.96	98.50	0.54	0.51	9547-3	5098	7.4	25.0	6.2	61.4	0.33	3d
COAL	103.65	106.01	2.36	2.22	9547-4	5258	5.7	22.4	9.5	62.4	0.46	3c
ANDS	106.01	124.77	18.76									
COAL *parting	124.77 128.70	138.90 131.37	14.13 2.67	13.28 2.51	9547-5	5425	2.2	26.2	27.7	43.9	0.47	3c
ANDS	153.16	158.60	5.44									
COAL partings	168.40 20%	171.68	3.28	3.08	9547-6	4708	1.7	33.3	27.8	37.2	0.38	3b
ANDS	171.68	172.40	0.72									
ANDS	181.61	185.43	3.82									
ANDS	190.97	196.44	5.47									
Richtofen	217.22	220.57	3.35									
EOH	224.03											

*parting was excluded from sample

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 95-48
NORTHING 11 + 524N
EASTING 9 + 000E

ELEVATION 992 m
DEPTH 274.32 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 274m -53

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVV	0.00	6.50	6.50									
ANDS	6.50	11.15	4.65									
ANDS	13.86	22.25	8.39									
ANDS	78.20	88.00	9.80									
ANDS	101.19	134.40	33.21									
*BRXX	134.40	162.35	27.95									
COAL	162.35	163.87	1.52	1.38								
ANDS	164.89	189.80	24.91									
Richtofen	189.80	195.54	5.74									
ANDS	195.54	198.10	2.56									
ANDS	203.22	233.43	30.21									
ANDS	237.48	273.95	36.47									
EOH	274.32											

*brecciated andesite

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 95-49
NORTHING 13 + 353N
EASTING 9 + 750E

ELEVATION 840 m
DEPTH 327.05 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 327.05m -57

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	3.35	3.35									
COAL	83.85	84.10	0.25	0.23								3e3
ANDS	84.25	97.97	13.72									
COAL	102.41	105.16	2.75	2.56	9549-1	4574	3.3	31.2	13.9	51.7	0.45	3e2
COAL	109.67	109.95	0.28	0.26								3e1
ANDS	109.95	152.52	42.57									
COAL	160.93	163.37	2.44	2.27	9549-2	5595	1.7	27.1	8.4	62.8	0.62	3d
COAL	164.68	165.58	0.90	0.84								
COAL	167.79	169.19	1.40	1.30	9549-3	4619	3.1	33.6	10.5	52.8	0.21	3c
COAL	174.04	174.95	0.91	0.85								3b
ANDS	174.95	271.89	96.94									
COAL	273.61	273.83	0.22	0.20								3a
COAL	274.31	274.54	0.23	0.21								3a
COAL	282.17	282.55	0.38	0.35								2
COAL	286.72	287.18	0.46	0.43								2
COAL	288.87	289.21	0.34	0.32								2
COAL	307.37	308.28	0.91	0.85								
COAL	310.12	311.96	1.84	1.71	9549-4	5386	0.8	31.0	17.5	50.8	0.62	1
*partings	20%											1
COAL	319.65	320.10	0.45	0.42								
EOH	327.05											

*partings were included in sample

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 95-50
NORTHING 10 + 000N
EASTING 8 + 400E

ELEVATION 845 m
DEPTH 100.58 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 100m -53

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	39.90	39.90									
COAL	42.36	42.83	0.47	0.44								2a
COAL	53.79	55.35	1.56	1.47	9550-1	5538	2.5	23.4	28.7	45.4	0.49	1c
*parting	53.79	53.95	0.16	0.15								
COAL	61.72	71.51	9.79	9.20	9550-2	5731	2.1	21.3	30.6	45.9	0.39	1b
Richtofen	86.25	100.58	14.33									
EOH	100.58											

*parting was included in sample

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 97-56
NORTHING 11+400N
EASTING 8+824E

ELEVATION 1000 m **AZIMUTH 040**
DEPTH 76.20 m **DIP @ COLLAR -60**
CORE SIZE HQ **@ 76m -60**

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
AND	0.00	9.62	9.62									
*BRXX	14.25	53.10	38.85									
AND	53.10	54.10	1.00									
COAL	61.60	61.80	0.20	0.19								
COAL	62.15	62.30	0.15	0.14								
EOH	76.20											

* andesitic breccia similar to that found in DDH 95-48

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 97-57
NORTHING 11+400N
EASTING 8+570E

ELEVATION 965 m
DEPTH 182.88 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -55
@ 182m -55

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
COAL	14.53	14.93	0.40	0.39								
COAL	21.96	23.85	1.89	1.83	9757-1	6336	3.4	12.0	32.9	51.7	0.44	
COAL	26.56	27.30	0.74	0.71	9757-2	5085	3.2	26.5	31.3	39.0	0.59	
COAL	28.20	28.95	0.75	0.72	9757-3	4478	2.9	34.5	27.8	34.8	0.43	
COAL	33.35	33.85	0.50	0.48								
COAL	71.70	72.05	0.35	0.34								
COAL	74.00	74.25	0.25	0.24								
*BRXX	99.06	111.85	12.79									
ANDS	111.85	132.15	20.30									
EOH	182.88											

*andesitic breccia

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 97-61
NORTHING 9+700N
EASTING 8+141E

ELEVATION 840 m **AZIMUTH 040**
DEPTH 255.73 m **DIP @ COLLAR -50**
CORE SIZE HQ & NQ **@ 255m -50**

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	59.50	59.50									
COAL	70.80	72.70	1.90	1.78	9761-1	6854	3.0	8.2	30.9	57.8	0.39	3b
COAL	83.43	83.63	0.20	0.19								3a
COAL	131.42	131.60	0.18	0.17								2e
COAL	158.85	164.65	5.80	5.43	9761-2	5424	1.7	24.0	30.4	43.9	0.38	2d
COAL	170.28	170.94	0.66	0.62	*	6458	2.1	13.0	31.4	53.5	0.51	2c
COAL	184.27	185.38	1.11	1.04	9761-3	6617	1.9	12.3	33.7	52.2	0.65	2b
COAL	187.85	190.96	3.11	2.91	9761-4	5159	1.6	28.0	28.2	42.2	0.41	2a
COAL	197.21	198.00	0.79	0.74	**	4648	1.8	31.4	28.9	37.9	0.45	1c2
COAL	198.68	198.90	0.22	0.21								1c1
COAL	208.60	227.10	18.50	17.33	9761-5	5545	1.7	23.3	29.7	45.4	0.32	1a
Richtofen	230.45	255.73										
EOH	255.73											

* not sampled- coal quality is assumed to be the same as that for Seam 2c in Hole 97-62

** not sampled- coal quality is assumed to be the same as that for Seam 1c in Hole 97-62

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 97-62
NORTHING 9+700N
EASTING 8+240E

ELEVATION 838 m **AZIMUTH 040**
DEPTH 159.10 m **DIP @ COLLAR -50**
CORE SIZE HQ & NQ **@ 159m -50**

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	53.38	53.38									
COAL	86.07	96.31	10.24	10.04	9762-1	5197	2.1	27.0	28.9	42.1	0.39	2d
COAL	101.95	104.00	2.05	2.01	9762-2	6458	2.1	13.0	31.4	53.5	0.51	2c
COAL	113.39	114.91	1.52	1.49	9762-3	5745	2.2	20.6	30.9	46.3	0.41	2b
parting	114.57	114.61	0.04	0.04								
COAL	115.80	116.17	0.37	0.36								2a
COAL	125.58	127.25	1.67	1.64	9762-4	4648	1.8	31.4	28.9	37.9	0.45	1c
*parting	126.30	126.65	0.35	0.34								
COAL	130.11	130.82	0.71	0.70	**	5513	1.8	23.7	30.5	44.1	0.40	1b2
COAL	133.20	135.75	2.55	2.50	9762-5	5513	1.8	23.7	30.5	44.1	0.40	1b1
COAL	139.62	149.96	10.34	10.13	9762-6	5749	2.4	20.7	29.9	47.0	0.34	1a
*parting	140.21	140.87	0.66	0.65								
parting	145.07	145.15	0.08	0.08								
Richtofen	154.05											
EOH	159.10											

*partings were excluded from samples

** not sampled- coal quality is assumed to be the same as that for Seam 2c in Hole 97-61

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 97-63
NORTHING 9+100N
EASTING 8+040E

ELEVATION 825 m
DEPTH 293.22 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 293m -50

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	15.85	15.85									
COAL	62.72	66.36	3.64	3.53	9763-1	6775	3.3	8.7	31.9	56.2	0.48	3d2
COAL	67.74	68.13	0.39	0.38								3d1
COAL	73.83	75.40	1.57	1.52	9763-2	4473	2.2	35.9	25.9	36.0	0.54	3c
COAL	92.27	92.62	0.35	0.34								3b7
COAL	96.25	98.31	2.06	2.00	9763-3	5719	3.2	18.1	29.0	49.8	0.38	3b6
COAL	99.05	99.36	0.31	0.30								3b5
COAL	101.28	101.52	0.24	0.23								3b4
COAL	103.17	103.68	0.51	0.49								3b3
parting	103.30	103.34	0.04	0.04								
COAL	105.22	105.52	0.30	0.29								3b2
COAL	107.66	107.90	0.24	0.23								3b1
COAL	239.39	239.73	0.34	0.33								2b
ANDS	239.73	244.44	4.71									
COAL	244.44	246.06	1.62	1.55	9763-4	3942	4.6	37.4	7.0	51.0	0.37	2b
COAL	263.10	264.35	1.25	1.21	9763-5	5497	1.8	23.9	30.3	44.1	0.44	1b
COAL	269.15	284.07	14.92	14.47	9763-6	5451	1.6	22.7	30.6	45.2	0.37	1a
*parting	272.02	273.00	0.98	0.95								
*parting	274.15	275.15	1.00	0.97								
Richtofen	286.90											
EOH	293.22											

*partings were excluded from samples

SYNOPTIC LOG
DIVISION MOUNTAIN
CASH RESOURCES LTD.

HOLE 97-64
NORTHING 9+100N
EASTING 8+220E

ELEVATION 825 m
DEPTH 149.96 m
CORE SIZE HQ

AZIMUTH 040
DIP @ COLLAR -50
@ 149 -50

UNIT	FROM (m)	TO (m)	WIDTH (m)	TRUE WIDTH	SAMPLE	CV Cal/g	RM %	ASH %	VM %	FC %	S %	SEAM
OVB	0.00	29.65	29.65									
COAL	84.40	84.75	0.35	0.34								2b
ANDS	84.75	89.34	4.59									
COAL	89.34	91.43	2.09	2.04	9764-1	3190	1.0	50.0	13.5	35.5	0.27	2b
COAL	97.63	99.84	2.21	2.16	9764-2	6360	2.2	50.0	33.1	14.7	0.49	2a
COAL	118.95	121.00	2.05	2.00	9764-3	5356	2.3	14.3	28.9	54.5	0.51	1b
COAL	124.33	140.75	16.42	16.06	9764-4	5819	1.5	25.2	30.6	42.8	0.36	1a
*parting	127.67	128.57	0.90	0.88								
*parting	130.14	131.00	0.86	0.84								
EOH	149.96											

*partings were excluded from samples

APPENDIX IV

1997 ANALYTICAL CERTIFICATES

LORING LABORATORIES LTD.

629 Beaverdam Road N.E. Calgary, Alberta T2K 4W7

Tel : (403) 274-2777 Fax : (403) 275-0541

TO : CASH RESOURCES LTD.
 ATTN : ROB CARNE
 PROJECT : DIVISION MOUNTAIN

LLL FILE # : 3 9 6 5 6
 DATE : 19 Nov, 97
 REPORT BY : ARNO HOOGVELD

SAMPLE TYPE : RAW COAL

P.O.#

SAMPLE	BASIS	----- % -----				Cal/gm	
		H2O	ASH	V.M.	F.C.		
9757	1	A.R.	7.18	11.49	31.65	49.68	6089
		A.D.	3.42	11.96	32.93	51.69	6336
		Dry	-----	12.38	34.10	53.52	6560
9757	2	A.R.	6.29	25.66	30.30	37.75	4924
		A.D.	3.22	26.50	31.29	38.99	5085
		Dry	-----	27.38	32.33	40.29	5254
9757	3	A.R.	5.06	33.70	27.17	34.07	4380
		A.D.	2.94	34.45	27.78	34.83	4478
		Dry	-----	35.49	28.62	35.89	4614
9759	1	A.R.	15.39	26.29	21.71	36.62	4262
		A.D.	1.73	30.53	25.21	42.53	4950
		Dry	-----	31.07	25.65	43.28	5037
9760	1	A.R.	7.38	32.97	17.68	41.97	4298
		A.D.	1.29	35.14	18.84	44.73	4581
		Dry	-----	35.60	19.09	45.31	4641
9761	1	A.R.	7.71	7.81	29.44	55.03	6522
		A.D.	3.02	8.21	30.94	57.83	6854
		Dry	-----	8.47	31.90	59.63	7067
9761	2	A.R.	6.84	22.70	28.84	41.62	5142
		A.D.	1.73	23.95	30.42	43.90	5424
		Dry	-----	24.37	30.96	44.67	5519
9761	3	A.R.	10.19	11.22	30.83	47.75	6058
		A.D.	1.90	12.26	33.68	52.16	6617
		Dry	-----	12.50	34.33	53.17	6745
9761	4	A.R.	6.49	26.61	26.83	40.07	4901
		A.D.	1.57	28.01	28.24	42.18	5159
		Dry	-----	28.46	28.69	42.85	5241

LORING LABORATORIES LTD.

629 Beaverdam Road N.E. Calgary, Alberta T2K 4W7

Tel : (403) 274-2777 Fax : (403) 275-0541

TO : CASH RESOURCES LTD.
 ATTN : ROB CARNE
 PROJECT : DIVISION MOUNTAIN

LLL FILE # : 3 9 6 5 6
 DATE : 19 Nov, 97
 REPORT BY : ARNO HOOGVELD

SAMPLE TYPE : RAW COAL

P.O.#

SAMPLE	BASIS	----- % -----				Cal/gm	
		H2O	ASH	V.M.	F.C.		
9761	5	A.R.	5.65	22.33	28.45	43.57	5321
		A.D.	1.67	23.27	29.65	45.41	5545
		Dry	-----	23.67	30.15	46.18	5639
9762	1	A.R.	5.24	26.11	27.94	40.71	5029
		A.D.	2.07	26.98	28.88	42.07	5197
		Dry	-----	27.55	29.49	42.96	5307
9762	2	A.R.	20.25	10.60	25.57	43.58	5262
		A.D.	2.12	13.01	31.38	53.49	6458
		Dry	-----	13.29	32.06	54.65	6598
9762	3	A.R.	5.64	19.91	29.78	44.67	5540
		A.D.	2.16	20.64	30.88	46.32	5745
		Dry	-----	21.10	31.56	47.34	5872
9762	4	A.R.	7.94	29.44	27.07	35.55	4356
		A.D.	1.76	31.42	28.89	37.93	4648
		Dry	-----	31.98	29.41	38.61	4731
9762	5	A.R.	6.90	22.48	28.88	41.75	5225
		A.D.	1.76	23.72	30.47	44.05	5513
		Dry	-----	24.14	31.02	44.84	5612
9762	6	A.R.	5.39	20.10	28.95	45.56	5570
		A.D.	2.36	20.74	29.88	47.02	5749
		Dry	-----	21.24	30.60	48.16	5888
9763	1	A.R.	8.71	8.17	30.08	53.04	6397
		A.D.	3.32	8.65	31.86	56.17	6775
		Dry	-----	8.95	32.95	58.10	7008
9763	2	A.R.	5.03	34.85	25.14	34.97	4344
		A.D.	2.21	35.89	25.89	36.01	4473
		Dry	-----	36.70	26.48	36.82	4574

LORING LABORATORIES LTD.

629 Beaverdam Road N.E. Calgary, Alberta T2K 4W7

Tel : (403) 274-2777 Fax : (403) 275-0541

TO : CASH RESOURCES LTD.
 ATTN : ROB CARNE
 PROJECT : DIVISION MOUNTAIN

LLL FILE # : 3 9 6 5 6
 DATE : 20 Nov, 97
 REPORT BY : ARNO HOOGVELD

SAMPLE TYPE : RAW COAL

P.O.#

SAMPLE	BASIS	----- % -----				F.C.	Cal/gm
		H2O	ASH	V.M.			
9763	A.R.	4.82	17.77	28.51	48.90	5621	
	A.D.	3.16	18.08	29.01	49.75	5719	
	Dry	-----	18.67	29.96	51.37	5906	
9763	A.R.	8.96	35.72	6.65	48.66	3762	
	A.D.	4.61	37.43	6.97	50.99	3942	
	Dry	-----	39.24	7.31	53.45	4133	
9763	A.R.	6.42	22.75	28.83	42.00	5236	
	A.D.	1.75	23.88	30.27	44.10	5497	
	Dry	-----	24.31	30.81	44.89	5595	
9763	A.R.	6.87	21.45	28.93	42.76	5160	
	A.D.	1.61	22.66	30.56	45.17	5451	
	Dry	-----	23.03	31.06	45.91	5540	
9764	A.R.	10.89	45.01	12.18	31.92	2872	
	A.D.	1.03	49.99	13.53	35.45	3190	
	Dry	-----	50.51	13.67	35.82	3223	
9764	A.R.	5.96	48.06	31.83	14.14	6115	
	A.D.	2.19	49.99	33.11	14.71	6360	
	Dry	-----	51.11	33.85	15.04	6502	
9764	A.R.	5.98	13.77	27.77	52.48	5156	
	A.D.	2.33	14.30	28.85	54.52	5356	
	Dry	-----	14.64	29.54	55.82	5484	
9764	A.R.	8.03	23.47	28.59	39.92	5431	
	A.D.	1.45	25.15	30.63	42.77	5819	
	Dry	-----	25.52	31.08	43.40	5905	

APPENDIX V

DIVISION MOUNTAIN COAL RESOURCE BY SEAM

APPENDIX V
DIVISION MOUNTAIN COAL RESOURCE BY SEAM

March 12, 1998

	SECT.	LENGTH	WIDTH	THICK.	CV	RM	ASH	VM	FC	S	S. G.	TONNES
SEAM 5		metres	metres	metres	cal/g	%	%	%	%	%	g/cc	
DDH 94-23*	11+829N	317	54	5.9	4250	1.4	37.1	20.8	40.6	0.34	1.56	157,554
DDH 94-30*	12+134N	357	58	3.0	4617	2.3	32.2	11.0	54.2	0.37	1.56	96,904
DDH 94-32*	12+134N	285	206	5.2	4317	2.4	39.0	19.0	39.7	0.31	1.63	497,626
				5.1	4342	2.2	37.7	18.3	41.8	0.32	1.61	752,084
SEAM 4												
DDH 94-29	11+244N	293	63	8.3	4829	3.0	32.2	26.7	38.1	0.36	1.54	235,943
DDH 94-40	11+244N	293	30	7.0	5673	3.5	21.1	29.8	45.6	0.45	1.46	89,834
DDH 94-38	11+244N	293	90	4.7	4456	2.7	35.0	26.8	35.6	0.35	1.58	195,824
DDH 94-25	11+500N	292	84	3.7	5734	3.0	19.3	30.0	47.7	0.39	1.44	130,685
DDH 94-42	11+500N	292	80	6.0	5723	3.0	22.2	29.5	45.3	0.42	1.47	206,035
DDH 94-45	11+500N	292	84	5.0	4725	3.0	31.6	27.9	37.6	0.37	1.55	190,092
DDH 94-23	11+829N	317	230	7.5	6000	2.2	18.8	30.7	48.3	0.42	1.44	787,428
DDH 94-44	11+829N	317	254	4.7	5082	3.4	29.6	28.2	38.8	0.43	1.54	582,789
DDH 94-30	12+134N	392	110	8.9	6067	3.1	16.9	29.7	50.4	0.51	1.43	548,788
DDH 94-32	12+134N	300	252	14.0	5879	2.6	19.8	29.1	48.5	0.43	1.45	1,534,680
DDH 72-01	14+404N	152	60	1.7	6082	1.3	22.9	16.7	59.1	0.46	1.49	23,101
				9.4	5746	2.8	21.3	29.3	46.7	0.43	1.46	4,003,599
SEAM 3e												
DDH 94-23	11+829N	317	172	3.4	5161	2.1	29.5	26.1	43.8	0.49	1.53	283,634
DDH 94-30	12+134N	412	124	1.8	5583	2.6	23.0	28.2	46.2	0.54	1.48	136,098
DDH 94-32	12+134N	360	155	1.2	3552	1.5	47.5	24.0	27.0	0.38	1.71	114,502
DDH 95-47*	13+353N	305	150	3.4	2858	5.4	49.7	6.1	38.8	0.23	1.74	270,657
DDH 93-14	13+658N	305	55	2.7	3992	2.2	43.8	8.1	46.0	0.40	1.68	76,091
DDH 93-13	13+962N	209	68	1.2	3992	2.2	43.8	8.1	46.0	0.40	1.68	28,651
DDH 93-15	14+075N	157	78	12.9	5627	2.7	22.3	28.8	46.0	0.45	1.47	232,221
DDH 93-22	14+075N	157	70	19.7	6108	3.4	24.1	26.3	54.7	0.46	1.48	320,424
DDH 93-07	14+267N	165	90	11.8	4454	2.8	23.7	29.3	43.9	0.46	1.48	259,340
DDH 93-10	14+267N	165	66	12.1	5768	2.7	20.4	30.1	47.1	0.45	1.47	193,700
DDH 93-19	14+404N	153	96	8.3	5741	3.0	20.6	30.0	46.9	0.45	1.46	177,989
DDH 72-01*	14+404N	153	60	8.1	5891	2.3	30.2	17.6	49.9	0.55	1.54	114,511
				8.9	5007	3.0	29.5	23.7	45.2	0.44	1.54	2,207,820

SECTION		LENGTH	WIDTH	THICK.	CV	RM	ASH	VM	FC	S	S. G.	TONNES
SEAM 3d		metres	metres	metres	cal/g	%	%	%	%	%	g/cc	
DDH 97-63	9+100N	450	85	3.5	6775	3.3	8.7	31.9	56.2	0.48	1.36	182,070
DDH 94-32	12+134N	400	80	1.2	5724	1.9	23.1	30.3	44.7	0.62	1.48	56,832
DDH 94-41	12+754N	395	134	4.5	4919	2.5	32.0	26.9	38.6	0.35	1.55	369,187
				3.9	5550	2.7	24.2	28.7	44.4	0.41	1.49	608,089

SEAM 3c

DDH 97-63	9+100N	750	95	1.5	4473	2.2	35.9	25.9	36.0	0.54	1.57	167,794
DDH 95-52	10+000N	600	157	1.6	6756	4.4	8.2	31.2	56.2	0.40	1.35	203,472
DDH 94-34	10+725N	110	20	6.4	5540	2.7	20.5	29.4	47.4	0.40	1.46	20,557
DDH 94-35	10+725N	110	25	7.5	5656	2.4	21.6	30.7	45.3	0.55	1.46	30,113
DDH 94-26	10+914N	170	60	1.0	5212	2.5	28.2	26.8	42.6	0.73	1.52	15,504
DDH 94-23	11+829N	330	25	4.8	5720	2.3	22.5	29.2	46.1	0.49	1.47	58,212
DDH 94-30	12+134N	432	146	1.8	5489	2.3	25.1	31.0	41.5	0.59	1.50	170,294
DDH 94-32	12+134N	350	221	1.2	4899	1.8	31.8	28.6	37.9	0.51	1.50	139,230
DDH 94-41	12+754N	360	184	2.7	4621	7.0	34.0	7.5	51.5	0.31	1.57	280,791
DDH 94-43	13+048N	305	125	12.0	4328	1.4	39.2	18.7	40.6	0.34	1.62	741,150
DDH 95-47*	13+353N	305	226	15.5	5401	2.7	25.7	29.7	46.5	0.47	1.50	1,602,623
DDH 93-14	13+658N	305	106	1.1	5918	3.0	19.8	32.1	45.1	0.61	1.45	51,566
DDH 93-13	13+962N	208	96	0.9	5918	3.0	19.8	32.1	45.1	0.61	1.45	26,058
DDH 93-15	14+075N	152	104	1.4	5615	2.5	23.9	28.5	45.1	0.52	1.48	32,754
DDH 93-22	14+075N	152	110	1.8	5362	3.1	24.8	27.5	44.7	0.41	1.49	44,843
DDH 93-07	14+267N	164	112	2.0	5423	2.5	25.2	31.3	41.0	0.62	1.49	54,737
DDH 93-10	14+267N	164	46	2.8	4851	2.4	31.5	28.6	37.5	0.54	1.54	32,530
DDH 93-19	14+404N	152	96	1.2	5402	3.0	22.8	31.1	43.1	0.72	1.48	25,915
DDH 72-01	14+404N	152	56	2.1	5800	1.6	24.2	28.4	45.9	0.52	1.48	26,455
				9.9	5164	2.8	28.5	25.8	44.9	0.45	1.52	3,724,598

SECTION		LENGTH	WIDTH	THICK.	CV	RM	ASH	VM	FC	S	S. G.	TONNES
SEAM 3b		metres	metres	metres	cal/g	%	%	%	%	%	g/cc	
DDH 97-63	9+100N	600	134	2.0	5719	3.2	18.1	29.0	49.8	0.38	1.43	229,944
DDH 97-61	9+700N	600	160	1.8	6854	3.0	8.2	30.9	57.8	0.39	1.35	233,280
DDH 95-52	10+000N	302	184	1.2	4934	3.7	27.2	26.2	43.0	0.37	1.51	100,689
DDH 94-34	10+725N	140	28	3.4	4078	1.9	40.9	24.0	33.2	0.40	1.65	21,991
DDH 94-35	10+725N	140	45	0.9	3681	1.9	44.2	24.0	29.9	0.47	1.69	9,582
DDH 94-26*	10+914N	260	140	1.9	4087	8.0	35.0	8.1	48.9	0.50	1.58	109,273
DDH 94-31*	10+914N	260	80	2.1	3056	9.1	41.9	12.6	36.4	0.77	1.65	72,072
DDH 94-33	10+914N	246	60	10.0	5884	1.8	18.9	24.9	54.4	0.67	1.44	212,544
DDH 94-29*	11+244N	293	130	3.0	5142	5.2	26.3	16.1	53.7	0.30	1.50	171,405
DDH 94-40	11+244N	293	80	6.4	5979	3.3	18.0	30.9	47.8	0.46	1.43	214,523
DDH 94-38	11+244N	293	150	3.3	5452	1.8	30.5	8.7	59.1	0.35	1.54	223,354
DDH 94-25	11+500N	305	136	6.5	5674	3.1	20.9	29.8	46.2	0.41	1.46	393,645
DDH 94-42	11+500N	305	142	10.9	5401	2.2	25.3	29.4	43.1	0.40	1.49	703,398
DDH 94-45	11+500N	305	228	4.9	6110	3.4	17.0	30.9	48.7	0.45	1.43	487,267
DDH 94-23	11+829N	317	290	5.8	4086	1.7	41.0	28.7	40.0	0.52	1.64	874,438
DDH 94-44	11+829N	317	330	5.6	6080	3.4	18.3	31.3	47.0	0.46	1.43	837,717
DDH 94-30	12+134N	447	154	2.3	2861	1.8	52.7	25.0	20.6	0.43	1.77	280,239
DDH 94-32	12+134N	350	214	1.6	5417	1.6	27.0	31.0	40.5	0.54	1.50	179,760
DDH 94-41	12+754N	340	136	5.1	4876	2.6	32.0	26.6	38.9	0.72	1.55	365,527
DDH 94-43	13+048N	305	125	4.8	4967	1.9	35.4	15.3	47.5	0.42	1.58	289,140
DDH 95-47	13+353N	305	226	3.1	4708	1.7	33.3	27.8	37.2	0.38	1.56	333,345
				5.3	5214	2.7	27.5	26.9	44.5	0.46	1.52	6,343,134

SEAM 3a

DDH 94-34	10+725N	162	60	13.8	4208	3.0	39.1	17.8	40.1	0.38	1.63	218,642
DDH 94-26	10+914N	260	186	4.6	5865	3.3	19.7	30.0	47.6	0.53	1.44	320,337
DDH 94-29	11+244N	293	148	4.2	5357	2.2	25.7	28.0	41.2	0.36	1.50	273,193
DDH 94-40	11+244N	293	95	5.2	5172	3.1	27.2	27.9	42.1	0.47	1.51	218,560
DDH 94-38*	11+244N	293	168	2.9	3370	3.3	47.3	10.5	38.9	0.32	1.71	244,102
DDH 94-25	11+500N	305	144	3.9	4965	2.1	28.2	31.2	38.5	0.50	1.52	260,358
DDH 94-42	11+500N	305	160	3.8	5448	2.3	25.3	27.5	44.9	0.42	1.50	278,160
DDH 94-45	11+500N	305	242	2.4	5826	3.5	19.6	28.5	48.4	0.50	1.45	256,859
DDH 94-23	11+829N	317	300	2.4	3857	1.7	42.9	26.0	29.4	0.38	1.65	376,596
DDH 94-44	11+829N	317	364	5	5451	3.0	24.8	27.9	44.3	0.47	1.49	859,641
DDH 94-30	12+134N	467	158	4.2	4114	2.0	40.1	26.4	31.6	0.59	1.64	508,238
DDH 94-32	12+134N	350	270	8.1	3510	1.5	46.9	24.4	27.3	0.36	1.68	1,285,956
DDH 94-43	13+048N	305	125	1.8	5335	1.8	27.8	29.9	40.5	0.46	1.52	104,310
				5.4	4576	2.3	34.6	25.9	37.2	0.44	1.58	5,204,951

		SECTION LENGTH	WIDTH	THICK.	CV	RM	ASH	VM	FC	S	S. G.	TONNES
SEAM 2d		metres	metres	metres	cal/g	%	%	%	%	%	g/cc	
DDH 97-62	9+700N	600	82	10.0	5197	2.1	27.0	28.9	42.1	0.39	1.51	742,920
DDH 97-61	9+700N	600	210	5.4	5424	1.7	24.0	30.4	43.9	0.38	1.48	1,006,992
				7.4	5328	1.9	25.3	29.8	43.1	0.38	1.49	1,749,912
SEAM 2c												
DDH 97-62	9+700N	600	100	2.0	6458	2.1	13.0	31.4	53.5	0.51	1.39	166,800
DDH 97-61	9+700N	600	210	0.6	6458	2.1	13.0	31.4	53.5	0.51	1.39	105,084
DDH 94-45	11+500N	305	260	4.1	5417	2.6	24.6	27.6	44.5	0.52	1.49	484,444
DDH 94-44	11+829N	317	350	2.6	5510	2.2	25.1	28.6	44.2	0.57	1.49	429,820
				3.0	5689	2.3	22.1	28.8	46.5	0.54	1.47	1,186,148
SEAM 2b												
DDH 97-63*	9+100N	450	146	1.9	3942	4.6	37.4	7.0	51.0	0.37	1.61	200,976
DDH 97-64*	9+100N	450	120	2.0	3190	1.0	50.0	13.5	35.5	0.27	1.75	189,000
DDH 97-62	9+700N	600	106	1.5	5745	2.2	20.6	30.9	46.3	0.41	1.46	139,284
DDH 97-61	9+700N	600	215	1.0	6617	1.9	12.3	33.7	52.2	0.65	1.39	179,310
DDH 94-34	10+725N	260	126	5.2	4008	1.6	41.3	25.0	32.1	0.68	1.65	281,081
DDH 94-26	10+914N	260	156	7.0	5859	3.0	18.8	29.8	48.3	0.39	1.44	408,845
DDH 94-33	10+914N	260	134	16.4	5373	2.2	21.4	30.4	46.1	0.58	1.47	839,923
DDH 94-29	11+244N	293	234	7.3	5412	2.6	25.3	29.0	21.7	0.46	1.49	745,749
DDH 94-40	11+244N	293	106	9.1	5099	2.6	28.6	27.8	41.0	0.43	1.52	429,594
DDH 94-38*	11+244N	293	168	4.2	2059	5.2	54.8	10.9	29.2	0.20	1.76	363,864
DDH 94-45*	11+500N	305	260	3.4	4251	0.4	35.4	14.0	50.2	0.16	1.58	426,000
DDH 94-44	11+829N	317	344	4.1	5366	2.6	26.3	28.9	42.2	0.49	1.50	670,645
				7.0	4883	2.5	29.4	25.0	39.9	0.44	1.53	4,874,270
SEAM 2a												
DDH 97-64	9+100N	600	120	2.2	6360	2.2	50.0	33.1	14.7	0.49	1.74	275,616
DDH 97-61	9+700N	600	220	2.9	5159	1.6	28.0	28.2	42.2	0.41	1.51	578,028
DDH 94-37*	10+710N	548	318	3.0	3060	1.5	50.2	10.6	37.7	0.57	1.75	914,886
DDH 94-26	10+914N	260	122	2.9	5752	2.9	20.3	31.7	45.1	0.60	1.45	133,383
DDH 94-40	11+244N	293	98	3.2	5672	1.3	25.2	26.0	47.6	0.69	1.50	137,827
DDH 94-42	11+500N	305	200	8.0	5479	2.1	25.8	28.9	43.1	0.42	1.50	732,000
				4.2	4724	1.8	36.4	23.1	38.6	0.50	1.6	2,771,740
SEAM 1c												
DDH 97-62	9+700N	600	120	1.6	4648	1.8	31.4	28.9	37.9	0.45	1.54	177,408
DDH 97-61	9+700N	600	220	1.0	4648	1.8	31.4	28.9	37.9	0.45	1.54	203,280
DDH 95-50	10+000N	302	85	1.5	5538	2.5	23.4	28.7	45.4	0.49	1.50	57,758
DDH 95-52*	10+000N	302	176	1.3	2625	2.1	43.1	21.2	33.6	0.32	1.66	110,290
				1.3	4335	1.9	32.9	27.3	37.8	0.43	1.6	548,736

		SECTION LENGTH	WIDTH	THICK.	CV	RM	ASH	VM	FC	S	S. G.	TONNES
SEAM 1b		metres	metres	metres	cal/g	%	%	%	%	%	g/cc	
DDH 97-64	9+100N	450	164	2.0	5356	2.3	14.3	28.9	54.5	0.51	1.40	206,640
DDH 97-63	9+100N	450	98	1.2	5497	1.8	23.9	30.3	44.1	0.44	1.49	78,851
DDH 97-62	9+700N	600	130	3.2	5513	1.8	23.7	30.5	44.1	0.40	1.48	369,408
DDH 95-50	10+000N	302	93	9.2	5731	2.1	21.3	30.6	45.9	0.39	1.46	377,251
DDH 95-52	10+000N	302	230	3.0	5927	2.8	17.3	35.0	45.0	0.56	1.43	297,983
DDH 94-37	10+710N	548	340	0.5	5927	2.8	17.3	35.0	45.0	0.56	1.43	133,219
				4.2	5668	2.2	19.9	31.6	46.3	0.46	1.45	1,463,352

SEAM 1a

DDH 97-63	9+100N	450	150	14.5	5451	1.6	22.7	30.6	45.2	0.37	1.48	1,448,550
DDH 97-64	9+100N	450	162	16.1	5819	1.5	25.2	30.6	42.8	0.36	1.49	1,748,798
DDH 97-61	9+700N	600	225	17.3	5545	1.7	23.3	29.7	54.4	0.32	1.48	3,456,540
DDH 97-62	9+700N	600	138	10.1	5749	2.4	20.7	29.9	47.0	0.34	1.46	1,220,969
DDH 95-52	10+000N	302	230	16.0	5542	2.2	23.0	31.7	43.0	0.36	1.48	1,644,813
DDH 97-59	10+305N	355	88	1.7	4950	1.7	30.5	25.2	42.5	0.47	1.54	81,786
DDH 97-60	10+305N	355	210	16.8	4581	1.3	35.1	18.8	44.7	0.41	1.58	1,978,855
DDH 94-37*	10+710N	553	370	15.5	5129	2.1	27.9	25.2	44.9	0.56	1.51	4,788,897
DDH 94-26	10+914N	260	94	1.7	3274	2.0	48.0	23.5	26.5	0.54	1.74	72,294
DDH 94-42	11+500N	305	115	4.2	3927	1.8	41.7	25.8	30.7	0.39	1.65	243,070
DDH 94-45	11+500N	305	304	2.0	5639	2.8	21.2	31.1	44.9	0.55	1.45	268,888
				15.2	5315	1.9	26.3	27.5	46.3	0.42	1.50	16,953,460

SUMMARY

	THICK.	CV	RM	ASH	VM	FC	S	%	TONNES
	metres	cal/g	%	%	%	%	%		
SEAM 5	5.1	4342	2.2	37.7	18.3	41.8	0.32	1.4	752,084
SEAM 4	8.9	5641	2.8	22.5	29.1	45.7	0.43	8.6	4,525,199
SEAM 3e	8.9	5007	3.0	29.5	23.7	45.2	0.44	4.2	2,207,820
SEAM 3d	3.9	5550	2.7	24.2	28.7	44.4	0.41	1.1	608,089
SEAM 3c	9.9	5164	2.8	28.5	25.8	44.9	0.45	7.0	3,724,598
SEAM 3b	5.3	5214	2.7	27.5	26.9	44.5	0.46	12.0	6,343,134
SEAM 3a	5.4	4576	2.3	34.6	25.9	37.2	0.44	9.8	5,204,951
SEAM 2d	7.4	5328	1.9	25.3	29.8	43.1	0.38	3.3	1,749,912
SEAM 2c	3.0	5689	2.3	22.1	28.8	46.5	0.54	2.2	1,186,148
SEAM 2b	7.0	4883	2.5	29.4	25.0	39.9	0.44	9.2	4,874,270
SEAM 2a	4.2	4724	1.8	36.4	23.1	38.6	0.5	5.2	2,771,740
SEAM 1c	1.3	4335	1.9	32.9	27.3	37.8	0.43	1.0	548,736
SEAM 1b	4.2	5668	2.2	19.9	31.6	46.3	0.46	2.8	1,463,352
SEAM 1a	15.1	5316	1.9	26.3	27.5	46.3	0.42	32.0	16,953,460
	9.3	5161	2.3	27.9	26.8	43.7	0.44	100.0	52,913,493

* coal quality may be affected by proximity to andesite intrusion

APPENDIX VI

DIVISION MOUNTAIN STRIPPING RATIOS BY SECTION

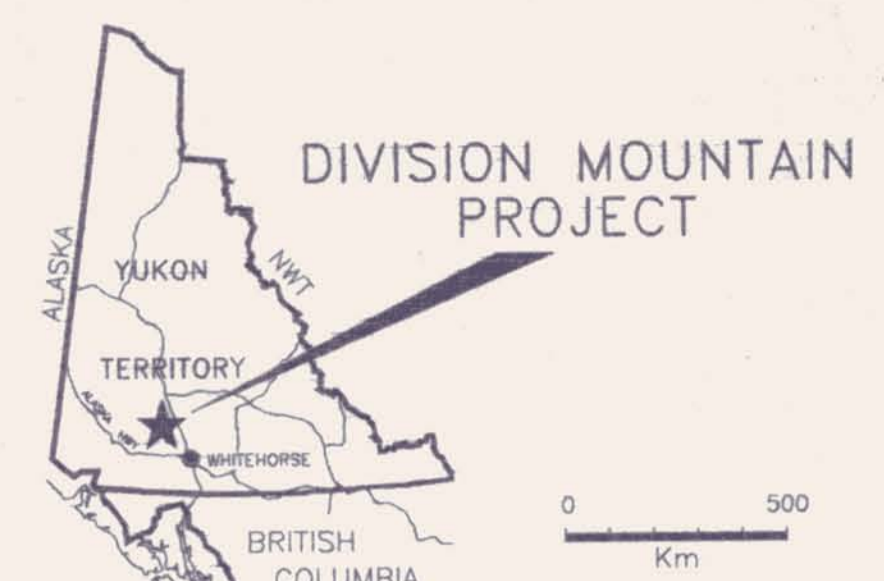
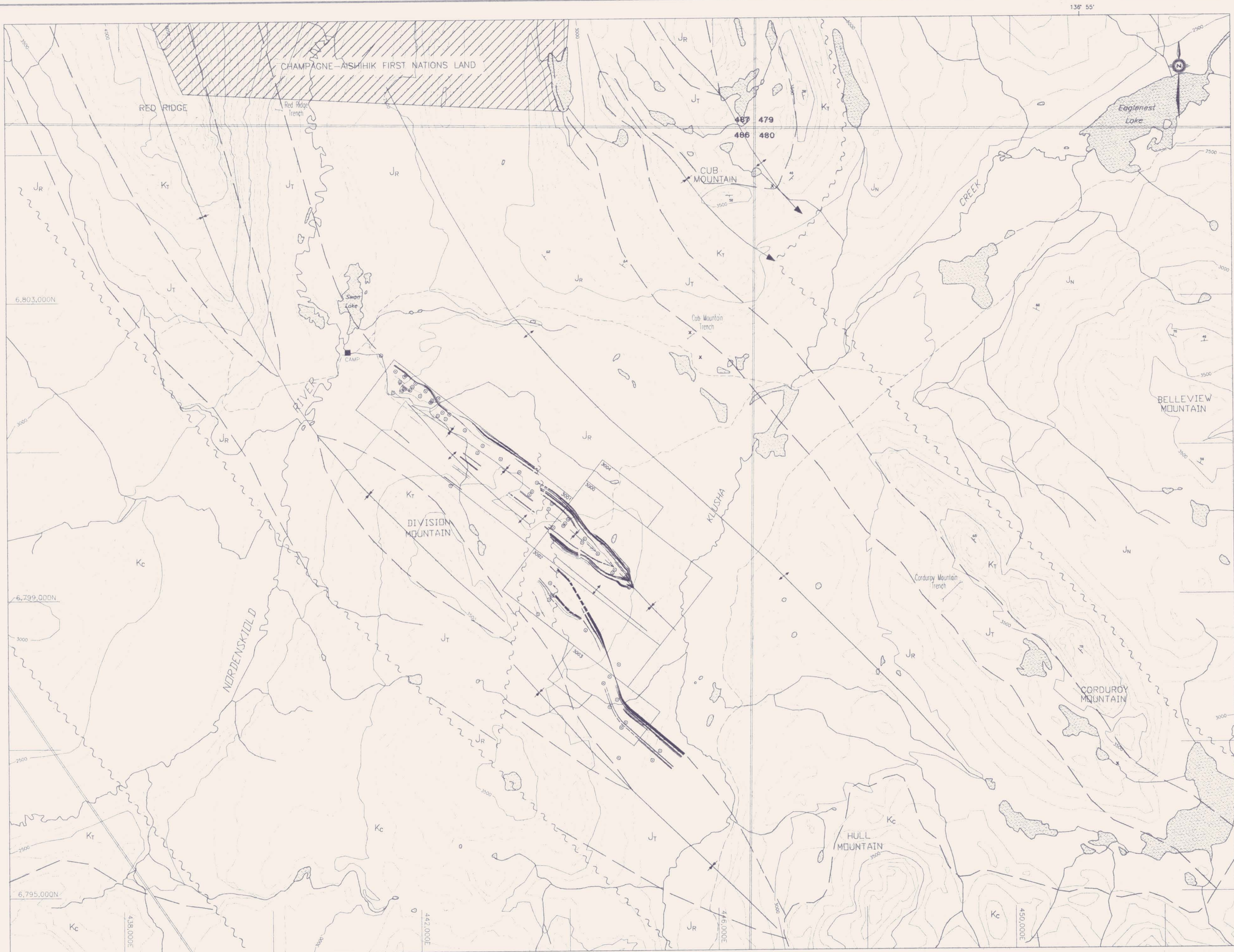
APPENDIX VI
DIVISION MOUNTAIN STRIPPING RATIOS BY SECTION

March 12, 1998

SECTION	X-SECTION AREA m2	LENGTH m	VOLUME WASTE m3	TONNES WASTE	TONNES COAL	STRIP RATIO	
						tw/tc*	bcm/tc*
9+100N	38,400	450	17,280,000	45,792,000	4,728,239	9.7	3.7
9+700N	37,632	600	22,579,200	59,834,880	8,579,303	7.0	2.6
10+000N	46,698	302	14,102,796	37,372,409	2,792,256	13.4	5.1
10+305N	37,700	355	13,383,500	35,466,275	2,060,641	17.2	6.5
10+710N	48,125	553	26,613,125	70,524,781	5,837,002	12.1	4.6
10+725N	6,308	162	1,021,896	2,708,024	581,966	4.7	1.8
10+914N	9,680	260	2,516,800	6,669,520	2,184,175	3.1	1.2
11+244N	21,000	293	6,153,000	16,305,450	3,543,772	4.6	1.7
11+500N	37,740	292	11,020,080	29,203,212	5,060,901	5.8	2.2
11+829N	50,600	317	16,040,200	42,506,530	5,918,474	7.2	2.7
12+134N	62,400	467	29,140,800	77,223,120	5,549,147	13.9	5.3
12+754N	15,452	340	5,253,680	13,922,252	1,015,505	13.7	5.2
13+048N	13,990	305	4,266,950	11,307,418	1,134,600	10.0	3.8
13+353N	31,900	305	9,729,500	25,783,175	2,206,625	11.7	4.4
13+658N	6,550	305	1,997,750	5,294,038	127,657	41.5	15.6
13+962N	4,230	209	884,070	2,342,786	54,709	42.8	16.2
14+075N	11,840	157	1,858,880	4,926,032	630,242	7.8	2.9
14+267N	12,010	164	1,969,640	5,219,546	540,307	9.7	3.6
14+404N	10,500	152	1,596,000	4,229,400	367,972	11.5	4.3
			187,407,867	496,630,848	52,913,493	9.4	3.5

*tw/tc tonnes waste (rock) per tonne of raw coal

*bcm/tc bank cubic metres of waste (rock) per tonne of raw coal



TRUE NORTH
 UTM GRID NORTH
 MAGN. NORTH
 0° 46'

NTS 115 H/8 E, 105 E/S W
 UTM ZONE 8
 CONTOUR INTERVAL 100ft
 Approximate mean declination 1988
 Annual change decreasing 3.0'

LEGEND

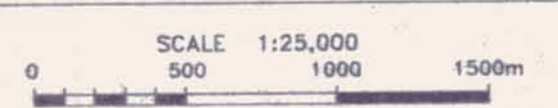
- Upper Cretaceous
 Carmacks Group
 [Kc] andesite sills and dykes
- Upper Jurassic to Lower Cretaceous
 Tantalus Formation
 [Kr] chert pebble conglomerate
- Middle to Upper Jurassic
 Tanglefoot Formation
 [Jt] coal
 [Jt] coaly shale, shale, siltstone, sandstone, conglomerate
- Lower to Middle Jurassic
 Richtofen Formation
 [Jr] interlaminated black shale and siltstone to gritty siltstone
 [Jn] dacite tuff, sandstone, conglomerate, shale
- formational contact (known)
- - - formational contact (assumed)
- + syncline axis
- - - anticline axis
- ~ ~ ~ fault
- ⊙ diamond drill hole
- ⊙ attitude of bedding
- 3002 Coal Lease
- 487 Coal Exploration Licence
- x coal float occurrence
- - - trench
- - - four wheel drive road

DW9 ②

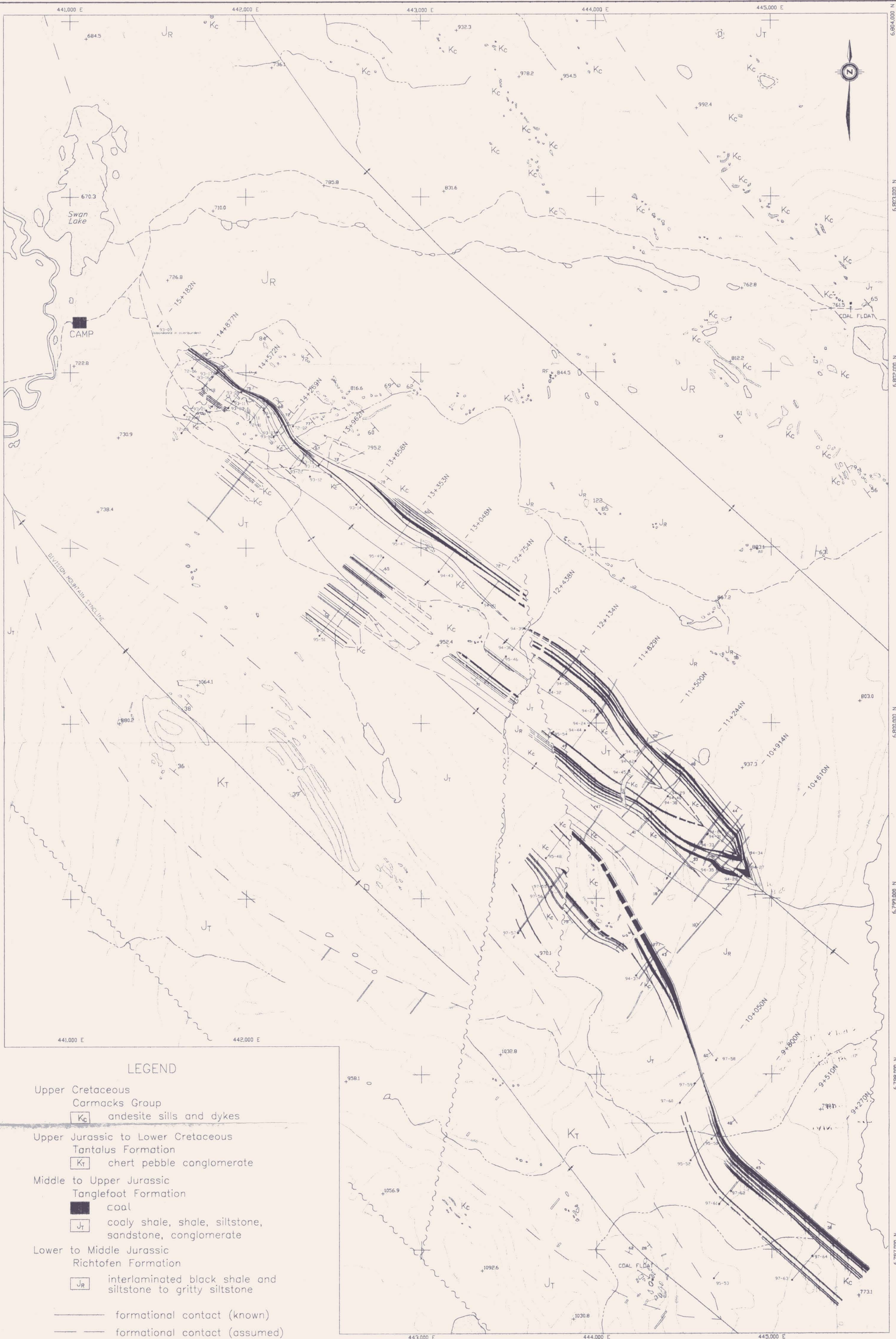
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CASH RESOURCES LTD.

FIGURE 3
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COMPILATION MAP
 DIVISION MOUNTAIN PROJECT



DRAWN/REVISED BY: TCH/RFG/AG PROJECT: DIVISION MOUNTAIN
 FILE: CASH/DNA/ACAD/25K/250-COMP.DWG DATE: MARCH, 1998



LEGEND

- Upper Cretaceous
Carmacks Group
Kc andesite sills and dykes
- Upper Jurassic to Lower Cretaceous
Tantalus Formation
Kt chert pebble conglomerate
- Middle to Upper Jurassic
Tanglefoot Formation
Coal
Jt coaly shale, shale, siltstone, sandstone, conglomerate
- Lower to Middle Jurassic
Richtofen Formation
Jr interlaminated black shale and siltstone to gritty siltstone
- formational contact (known)
- - - formational contact (assumed)
- + syncline axis
- - - anticline axis
- ~ ~ ~ fault
- 97-58 diamond drill hole
- trench
- attitude of bedding
- area of bedrock exposure



TRUE NORTH
UTM GRID NORTH
MAGN. NORTH
7° 48' 29' 34"
N.T.S. 115H/8
UTM ZONE 8
CONTOUR INTERVAL 25m
Approximate mean declination 1998
Annual change decreasing 3.0'

CASH RESOURCES LTD. DIAND - YUKON REGION, LIRRAI

FIGURE 4
ARCHER, CATRO & ASSOCIATES (1981) LIMITED
DWG 1
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DETAILED GEOLOGY
DIVISION MOUNTAIN PROJECT

SCALE 1:10,000
0 100 200 300 400 500m

DRAWN/REVISED BY: AG PROJECT: DIVISION MOUNTAIN
FILE: CASH.DWG/ACAD/10K/106EQDCL.DWG DATE: MARCH, 1998