

K-Shell-Burnt Ridge Ext. 80(L)A

82 5/2
"Burnt Ridge Extension"
SHELL CANADA RESOURCES
LTD.
CL = 272,
273, 276
R.J. Morris
April 1981

376

OPEN FILE CONFIDENTIAL

BURNT RIDGE EXTENSION

NORTH BLOCK PROJECT

REPORT ON COAL LICENSES

NOS. 264 to 276 INCLUSIVE

OPERATED BY: CROWS NEST RESOURCES LIMITED

HELD BY: SHELL CANADA RESOURCES LIMITED

KOOTENAY LAND DISTRICT

SOUTHEASTERN BRITISH COLUMBIA

NTS MAP : 82J/2

50° 02' to 50° 08' NORTHERN LATITUDE

114° 45' to 114° 50' WESTERN LONGITUDE

REPORT DATE: April 1981

AUTHOR: R. J. Morris, M.Sc

2/ABc.1

30576

PROFESSIONAL VERIFICATION OF REPORT

TITLED: Burnt Ridge Extension
 North Block Project
 Report on Coal Licences
 No's: 264-276 Inclusive

Mr. Robert J. Morris carried out the 1980 geological field program on the North Block B.C. Coal Licences held by Shell Canada Resources Limited and operated by Crows Nest Resources Limited. He also prepared this report.

Robert J. Morris, M.Sc., received his B.Sc. in geology from the University of British Columbia in 1973, and his M.Sc. in Mineral Exploration from Queen's University in 1978. Since graduation, he has worked for a number of major mining companies. His experience with western Canadian coal exploration includes positions with Kaiser Resources Ltd.

I consider the aforementioned geologist to be well qualified to have undertaken the responsibilities he was assigned for this project. I am satisfied that the attached report dated April 30, 1981, has been competently prepared and justly represents the information obtained from this report.

April 30, 1981



J. J. Crabb
J. J. Crabb, P.Eng.

BURNT RIDGE EXTENSION

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10-1 ✓	5 548 440 N	K-Shell-Burnt "
10-2 ✓	5 548 700 N	Ridge Ext. "
10-3 ✓	5 549 365 N	80(2)A "
10-4 ✓	5 550 000 N	"
10-5 ✓	5 550 460 N	"
10-6 ✓	5 550 750 N	"
10-7 ✓	5 551 250 N	"
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11 ✓	Rock Volume Classification	sketch not to scale
12 ✓	Rock Volume Calculation, Above Coal Section	sketch not to scale
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14 ✓	Rock above coal section	1:5 000

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15	✓ Stratigraphic Sections (38) (Reference to locations on General Information Map)	1:2 00
16	✓ Stratigraphic Sections (66) (Coal sections, Ref. to Locations General Information)	1:20

} K-Shell-Burnt
Ridge Ext. 80(3)A

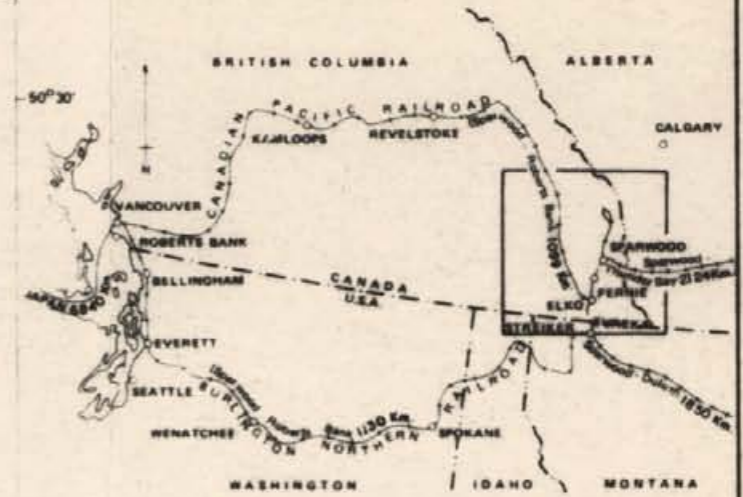
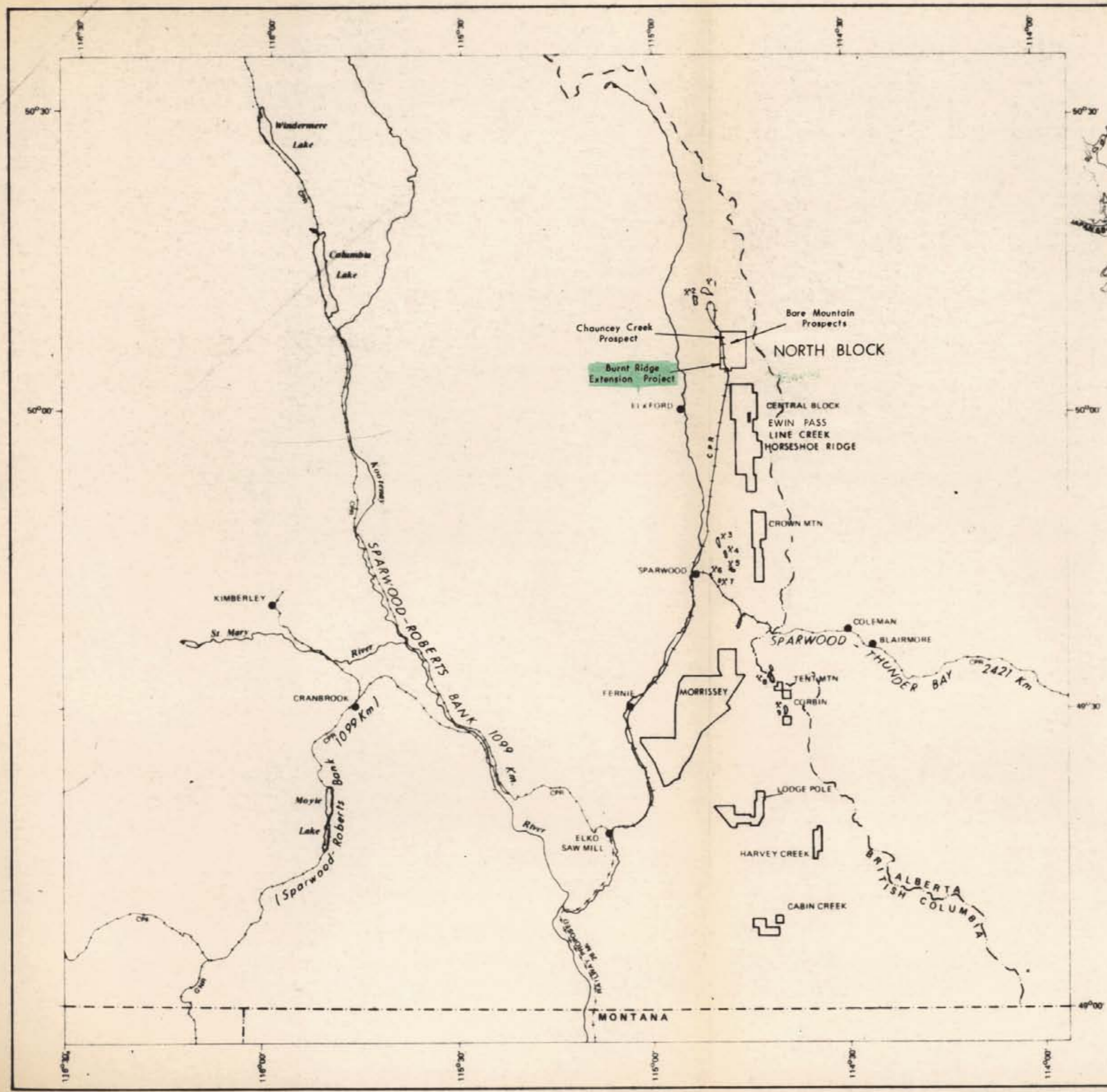
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<u>NO.</u>	<u>TABLES</u>	<u>NOT TO SCALE</u>
17	- Composite Section Summary	"
18	- Reserve Classification per Sections	"
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21	- Overburden Ratio per Sections	"
22	- Coal Quality Summary (four sheets)	
23	- Table of Formations	

APPENDIX

24	- Cost Statement (copy of Application to Extend Term of Licences)	not to scale
25	✓ - Report on Location Survey North Block 4051 M, S.E. B. C. by Sheltech Canada Ltd. including Traverse Survey Map. <i>K. Shill-Burnt Ridge Ext. 80(2)A</i>	Scale 1:5 000



LEGEND

- OPERATING MINES**
- FORDING COAL LTD
 - 1 CLODE PIT
 - 2 GREENHILLS PIT
 - KAISER RESOURCES LTD
 - 3 HARMER PITS 1 & 2
 - 4 ADIT 28 PIT
 - 5 CAMP 8 & ADIT 40A PITS
 - 6 BALMER SOUTH HYDRAULIC UNDERGROUND MINE
 - 7 BALMER NORTH CONVENTIONAL UNDERGROUND MINE
 - COLEMAN COLLIERIES LTD
 - 8 TENT MOUNTAIN PITS
 - BYRON CREEK COLLIERIES LTD
 - 9 CORBIN PIT
- COAL RIGHT OWNED/LICENCED BY**
- SHELL CNRL



Scale 1:800 000

Crows Nest Resources Limited
EXPLORATION

SOUTHEAST B.C.
LOCATION MAPS

Encl. 1

AUTHOR C. BEAVAN	SCALE 1:800 000	ENCLOSURE NO.
DATE 81 03 11	REVISED	DRAWING NO. BA-281
To Accompany		

K-shell-Burnt Ridge Ext 80(2)A

1.0 SUMMARY:

The Burnt Ridge Extension Project is part of the Elk Valley Coalfield in the Rocky Mountains of southwestern British Columbia.

The project is located in an area of extensive coal developments: the Fording Coal operations to the North, B.C. Coal's Greenhills development to the west. The name ties the project area to the Burnt Ridge on the south which is the northern extension of CNRL's Line Creek Mine development.

Railway access into the area follows the Fording River at the foot of the slope on which the project is located.

The early Cretaceous Coal Bearing Member of the Kootenay Formation outcrops on the upper slopes dipping steeper than but quasi parallel with the surface. Such a dip-slope situation is favorable for open pit development.

There exists a full section of the Coal Bearing Member at Burnt Ridge Extension. Coarse sandstones of the Moose Mountain and Elk Members under and overlie the coal measures outcropping above the crest and on the lower slopes respectively. Sixty-seven meters of coal was found in an up to 400 m succession in road cuts and by hand trenching. A full range of medium volatile bituminous coal is indicated by analysis of surface samples.

Geological in place coal reserves (indicated and inferred categories) are estimated to be 78 million tons surface mineable at a corresponding overburden ratio of 7.43:1 m³ rock per tonne of coal. 20-25% additional reserves are located along the western border of the property on licences held by B.C. Coal. The lower part of the coal succession outcrops there dipping under the Shell-CNRL licences.

The North Block or group #214 is comprised of thirteen B.C. Coal Licences (Nos. 264 to 276 inclusive) covering 3178 hectares held by Shell Canada Resources Limited operated by its wholly owned subsidiary Crows Nest Resources Limited.

The Burnt Ridge Extension Project is part of the North Block.

The 1980 Exploration Program included reconnaissance geological mapping, trenching of most of the coal occurrences, sampling and proximate analysis. The total expenditures amounted to \$172,423.

Continuous core (diamond) drilling of at least three holes, detailed geological mapping and trenching is recommended for 1981.

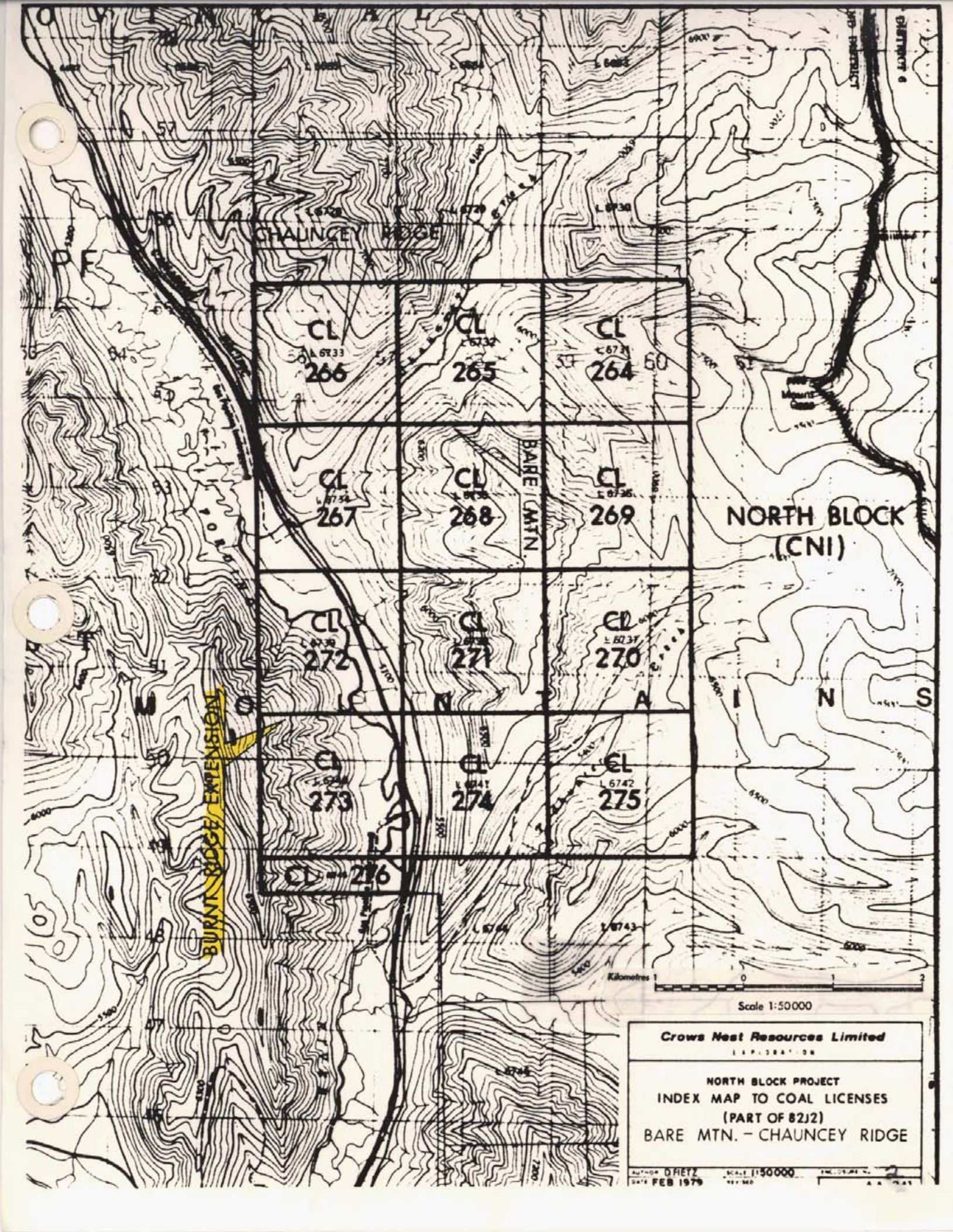
2.0 INTRODUCTION:

2.1 Location and Physiography: Enclosure 2 : Project Subdivision Map

The property is located in the Rocky Mountains of southeastern British Columbia. The Burnt Ridge Extension Project is on the west side of the Fording River nine air-kilometres northeast of Elkford and four kilometres south of the Fording Coal operations.

The area of interest comprises a ridge with an east dipping flank to the Fording River with prominent gullies with only seasonal stream flow.

B. C. Coal's Greenhills open pit mine development is almost adjacent to this project, the nearest pit planned being within 3 km. B.C. Coal's proposed coal preparation plant is as close to Burnt Ridge Extension as it is to Greenhills.



CHAUNCEY RIDGE

CL
L 6733
266

CL
L 6732
265

CL
L 6731
264

CL
L 6734
267

CL
L 6735
268

CL
L 6736
269

NORTH BLOCK
(CNI)

CL
L 6738
272

CL
L 6739
271

CL
L 6737
270

CL
L 6740
273

CL
L 6741
274

CL
L 6742
275

CL
L 6743
276

BURNING RIDGE EXTENSION

BARE MTN.

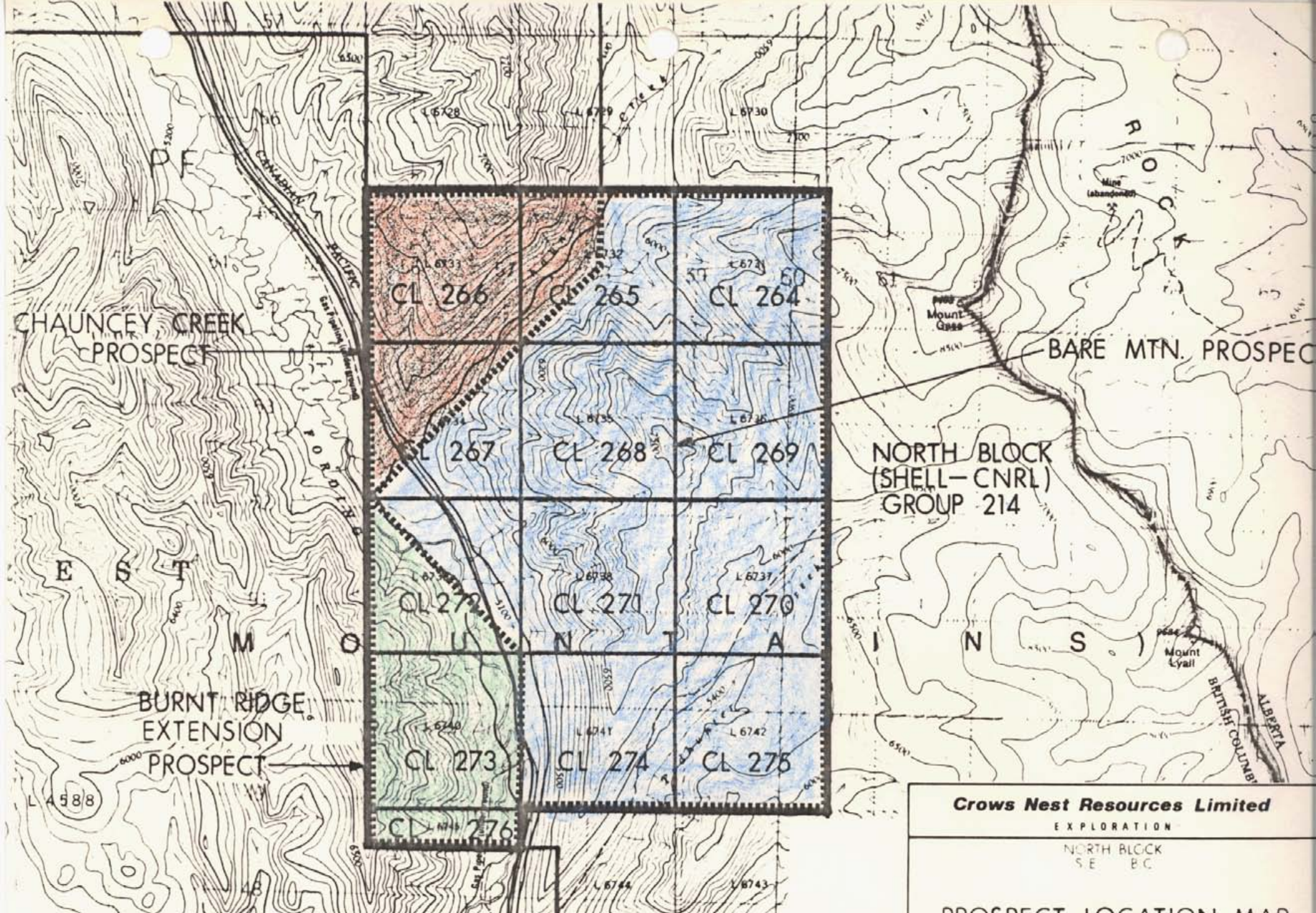
Kilometres

Scale 1:50000

Crows Nest Resources Limited
L.P. CORPORATION

NORTH BLOCK PROJECT
INDEX MAP TO COAL LICENSES
(PART OF 82J2)
BARE MTN. - CHAUNCEY RIDGE

AUTHOR: D. RIETZ
DATE: FEB 1979
SCALE: 1:50000
ENCLOSURE NO. 1
A.A. 1981



LEGEND

----- PROSPECT BOUNDARY

Crows Nest Resources Limited
 EXPLORATION

NORTH BLOCK
 S.E. BC

PROSPECT LOCATION MAP

AUTHOR K. PARRY	SCALE 1:50,000	ENCLOSURE No
DATE JULY 1981	REVISED	DRAWING No

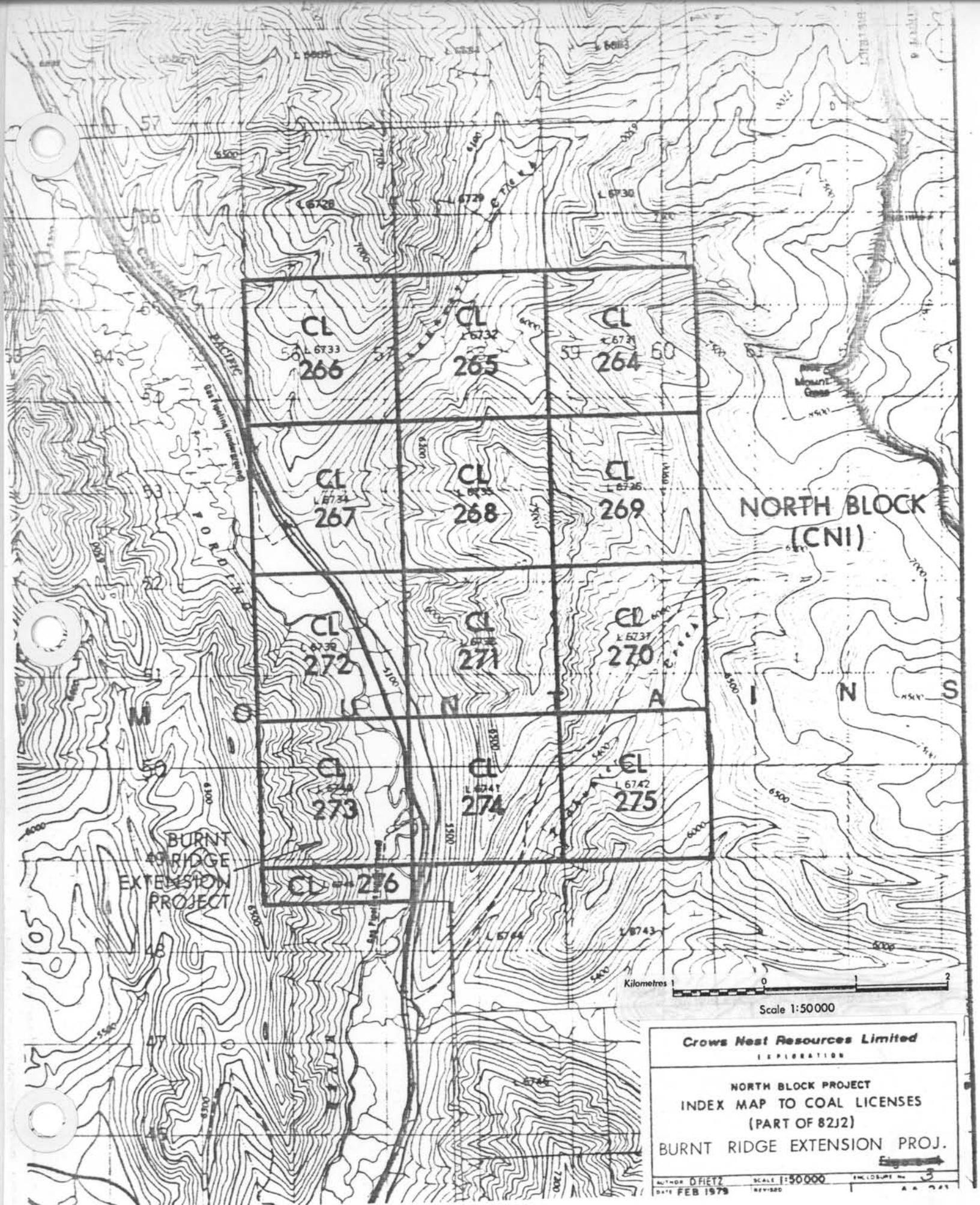
- 2.2 Coal Land Tenure: Enclosure 3 : Index Map to Coal Licenses
 Enclosure 4 : B.C. Coal Land Tenure Standing
 North Block, Group #214

The North Block in Groups #214 is composed of thirteen B.C. Coal Licenses (Nos. 264 to 276 inclusive) covering 3173 hectares held by Shell Canada Resources Limited operated by its wholly owned subsidiary Crows Nest Resources Limited.

This report accounts for work done during the last Term of Licences on the Burnt Ridge Extension Project which is part of North Block.

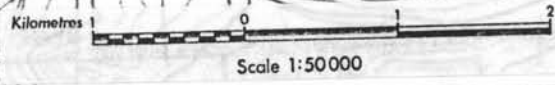
- 2.3 Access: Enclosure 2 : Project Subdivision Map

The Fording River Valley has a paved road, owned by Fording Coal Ltd. which originates in Elkford 22 km to the southwest, and a C.P.R. spur line at the foot of the Ridge. Access to Burnt Ridge Extension is from the south on a four-wheel drive road which originates near the Fording River crossing.



**NORTH BLOCK
(CNI)**

**BURNT
RIDGE
EXTENSION
PROJECT**



Crows Nest Resources Limited
EXPLORATION

**NORTH BLOCK PROJECT
INDEX MAP TO COAL LICENSES
(PART OF 82J2)
BURNT RIDGE EXTENSION PROJ.**

AUTHOR: OFIETZ SCALE: 1:50000 ENCLOSURE No: 3
DATE: FEB 1979 REVISION: A A 021

CROWS NEST RESOURCES LIMITED
EXPLORATION

B. C. COAL LICENCES
TENURE STANDING

BLOCK: NORTH BLOCK PROJECT: YEAR: 1980-1981
GROUP: #214 NORTH BLOCK DATE: APRIL 1981
KOOTENAY LAND DISTRICT

PROJECT			BLOCK			GROUP			LICENCE			ACQ/ADM		RENTALS		REQUIREMENT WORK				BUDGET		EXP	POTL	COMMITMENTS, J. V.	REMARKS				
NAME	LICS TOTAL NO.	AREA TOTAL AC/HA	NAME	LIC. TOTAL NO.	AREA TOTAL AC/HA	NO.	LICS TOTAL NO.	AREA TOTAL AC/HA	YEAR	NO.	LEGAL DESCRIPTION	AREA TOTAL AC/HA	FEES YEAR	\$ 10 ³	ANNUAL \$	TOTAL TO NEXT ANN \$ 10 ³	EXPIRED \$ 10 ³	CURRENT YEAR LIC. FEES \$	PRE-FULFILMENT YEAR	ANNIVERSARY DATE	CURRENT YEAR AFE \$ 10 ³	TOTAL \$ 10 ³	SHELL CLASS.	OTHER THAN B.C. COAL DESCRIPTION					
NORTH BLOCK	13	3173				214	13	3173					75	3,298	15,865	79	188.2	6	39,200	4%	169,782 187,702 357,484	JAN. 31		3,881	Y				
										264	LOT 6731	250																	
										265	LOT 6732	259																	
										266	LOT 6733	259																	
										267	LOT 6734	259																	
										268	LOT 6735	259																	
										269	LOT 6736	259																	
										270	LOT 6737	259																	
										271	LOT 6738	259																	
										272	LOT 6739	259																	
										273	LOT 6740	259																	
										274	LOT 6741	259																	
										275	LOT 6742	259																	
										276	LOT 6745	65																	
NORTH BLOCK	13	3,173 HA 7,840 AC																											

GENERAL REMARKS: FILL NECESSARY LINES AND COLUMNS ONLY, COAL DEVELOPMENT POTENTIAL IS "Y" (PRIME) UNLESS OTHERWISE STATED, LICENCES HELD BY SHELL CANADA RESOURCES LTD.- CNRL IS THE OPERATOR.

Encl. 4

3.0 WORK DONE:

3.1 Summary of Previous Work

The most recent work was in 1978 by Crows Nest Resources Limited under the supervision of J. Horachek. A comprehensive report and preliminary geological maps (1:10 000) were produced.

A reconnaissance report by N. P. Elphinstone was compiled in 1951 which deals briefly with the area.

3.2 Scope and Objectives of 1980 Exploration

The objectives of the 1980 program were:

- produce detailed geological maps of areas of mining potential
- establish detailed stratigraphic sections and attempt to correlate seams.
- indicate geological in-place coal reserves if possible.
- provide preliminary indication of coal quality by analysis of trench samples.

3.3 Work Done in 1980

Orientation mapping;

Reconnaissance mapping at a scale of 1:5 000;

Stratigraphic control: by measuring sections along existing roads;

Hand trenching; 2 on ridges for 40 m, 41 road exposures opened-up for 485 m;

Sampling; 41 samples procured, to Proximate and Sulphur Analysis;

Location Surveys: roads, geological control points and sample locations.

4.0 GEOLOGY:

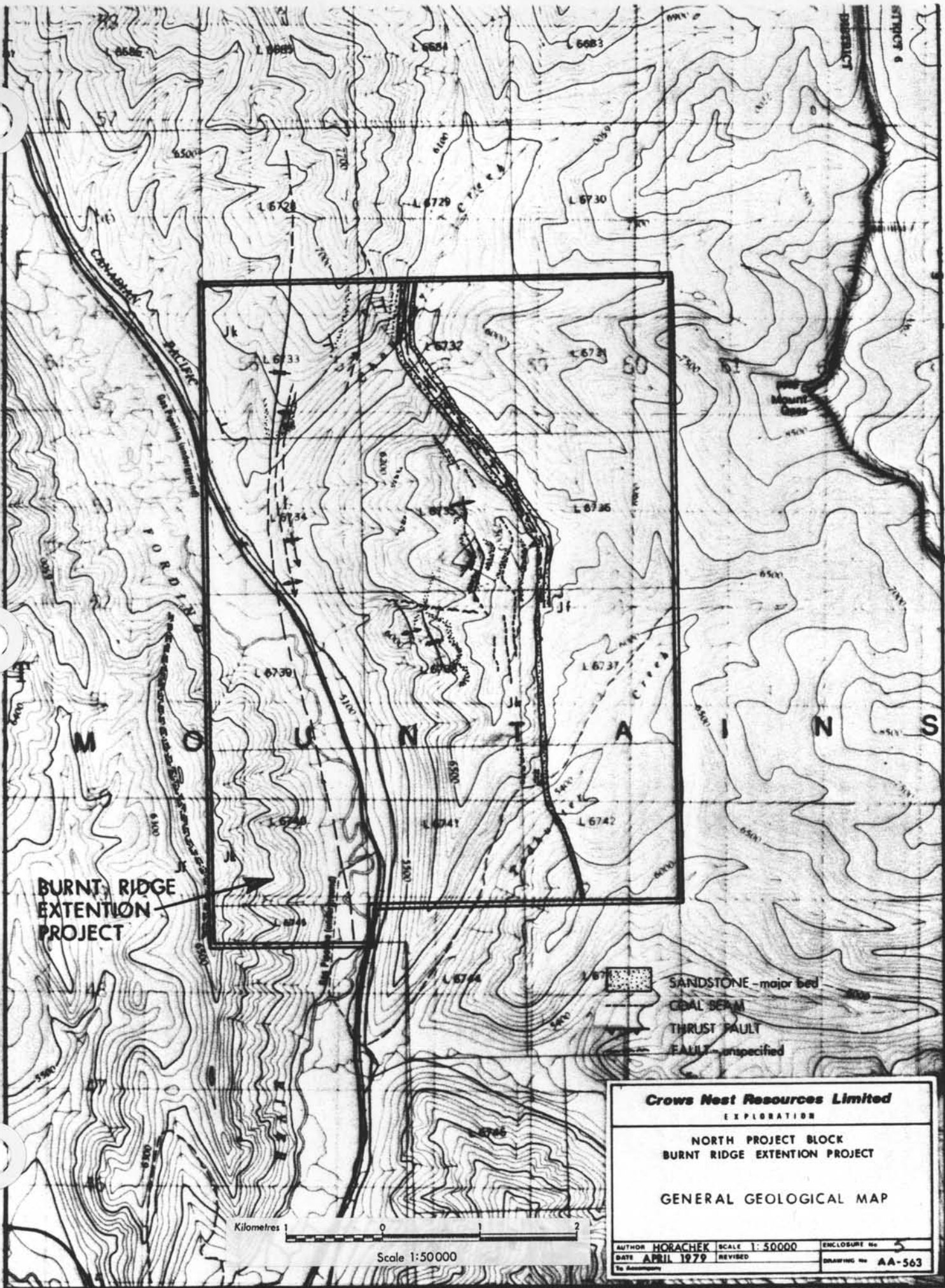
4.1 Regional Geology: Enclosure 23 : Table of Formations

Enclosure 5 : General Geological Map

The Burnt Ridge Extension is within the Elk Valley Coal Field on the west limb of the Fording River Syncline. It is bounded on the west by the Fording normal-fault and the east by the Fording River.

4.2 Stratigraphy

The late Jurassic early Cretaceous Kootenay Formation consists of the Moose Mountain, the Coal Bearing and the Elk Members, in ascending order. The Moose Mountain Member is a prominent, resistant horizon which forms the ridge line of the mountain. The sandstone is coarse-grained with occasional conglomerate bands up to 0.5 m. It is thickly bedded and displays large scale cross-beds. The Moose Mountain Member is an easily mappable horizon and all work in 1980 was performed in the Coal Bearing Member stratigraphically above it.



**BURNED RIDGE
EXTENTION
PROJECT**

SANDSTONE - major bed
COAL SEAM
THRUST FAULT
FAULT - unspecified

Crows Nest Resources Limited
EXPLORATION

**NORTH PROJECT BLOCK
BURNED RIDGE EXTENTION PROJECT**

GENERAL GEOLOGICAL MAP

Kilometres 1 0 1 2

Scale 1:50000

AUTHOR HORACHEK	SCALE 1:50000	ENCLOSURE No 5
DATE APRIL 1979	REVISED	DRAWING No AA-563

On Burnt Ridge Extension the Coal Bearing Member is up to 400 m thick. The section includes sandstones, siltstones and shale and up to 18 coal seams.

The Elk Member is the upper most member of the Kootenay Formation and consists of prominent sandstones with interbedded siltstones; shales and minor coal horizons. It is not conglomeratic on the project area. The base of the first prominent sandstone unit above the uppermost major coal seam was mapped as the Coal Bearing Member-Elk Member contact.

4.3 Geological Structure

The Burnt Ridge Extension is a consistently east-dipping limb of the Fording Syncline. The ridge line is formed by the resistant Moose Mountain Member which is broken in one place by a small right-lateral fault with up to 50 m of displacement. The lower slopes are capped by the resistant Elk Member which is occasionally cut by erosional channels.

No major structures were observed on Burnt Ridge Extension though numerous small scale thrust-faults are expected as evidenced by drag-folds and sheared surfaces.

4.4 Coal Geology Enclosure 6: Composite Stratigraphic Section

There are up to 18 coal seams over one metre thick on Burnt Ridge Extension. The seams have been numbered from the bottom of the section to conform with Fording Coal and B. C. Coal.

- No. 1 seam - Two exposures were measured, both at the south end of the property. The most southerly was 3.5 m (possibly the upper split) and 700 m north; 1u 10 m, shale split 6 m, 1L 4 m.
- No. 2 seam - observed at the north end, indicated to shale out on the southern third of the ridge. This seam has two major upper splits; main seam 5.4 m, split 2.5 m, 2u₁ 1.5 m, split 3.0 m, 2u₂ 1.1 m.
- No. 3 seam - observed near the centre and to the north, indicated by coal bloom on the south. Near the centre the seam has two upper splits; main seam 3.3 m, split 1 m, 3u₁ 2.5 m, split 2.0 m, 3u₂ 1.5 m. The seam becomes thinner northward from 3.4 m to 2.7 m.
- No. 4 seam - observed over the whole property except the extreme south end. It thickens from the south (4.3 m, 7.2 m, at centre) to the north where two additional lower splits occur; main seam 7.2 m, split 2.5 m, 4L₁ 1.7 m, split 3.0 m, 4L₂ 3.1 m.

- No. 5 seam - observed in the south end only, one exposure of 3.6 m.

- No. 6 seam - observed in the south end only, two exposures averaging 5.1 m.

- No. 5 and 6 seams occur at the stratigraphic position of a massive sandstone to the north.

- No. 7 seam - probably the most continuous seam along the ridge.
Its thickness varies from 14.8 m to 8 m, 7L averages 3.3 m, 7u averages 3.8 m; 7 to 7L split is 5.0 m, 7 to 7u split is 2.3 m.

- No. 8 seam - observed in several locations averages 5.3 m. At one place an additional seam of 1m occurs 10 m below.

Prominent beds include the Moose Mountain, a massive sandstone above No. 1 seam (10 m thick), a massive sandstone above No. 6 seam (from 10 m to 70 m thick to the north), a channel sandstone to the extreme north replacing No. 3 seam over a 100 m strike length.

Structures include small scale drag-folds and some thrusting (appears to be from the east). Seams No. 4, No. 7 and No. 8 are commonly contorted indicating bedding slippage.

No major structures were observed though corresponding sections vary up to 30 m in thickness.

5.0 MINEABILITY, COAL RESOURCES AND QUALITY

This preliminary geological survey indicates a potential for open pit development at Burnt Ridge Extension. It was believed that information gathered in 1980 is adequate to calculate geological in place reserves in indicated (probable) and inferred (possible) categories. Coal volumes calculated from measured thicknesses were placed in the indicated category. Volumes in the inferred category are based on actual observation of coal bloom with projected thickness. No coal volume was calculated where coal could not be seen.

Geological in Place Coal Reserves

Total Coal = 77 725 000 tonnes
 indicated = 39 478 000 tonnes
 inferred = 38 247 000 tonnes

Total Rock = 577 705 000 m³
 above coal = 253 624 000 m³
 in coal section = 324 081 000 m³

Overburden Ratio = 7.43:1 m³ rocks per tonne of coal.

General Considerations:

20 - 25% additional reserves are located along the western border of the property on licences held by B. C. Coal. The lower part of the coal succession crops out there and dips under the Shell-CNRL licences.

Pit geometry - bounded by Elevation 1550 m (high water level of Fording River +10 m) and the footwall of Seam NO. 1;

Usually the area of coal and rocks on the cross section multiplied by the length of influence gives the volumes. This method was modified using a plan to determine the area underlain by coal or rock. It was then multiplied by the cosine of the dip and by the true thicknesses.

Rock volumes above coal were determined in 50 m horizontal increments. The area at the middle of each increment was determined on a plan using the corresponding elevation contours on the hanging wall of the uppermost seam (from the cross sections) and of the surface.

Cross-sections - eight cross-sections were prepared from 5548 440 N to 5551 500 N. These were drawn along lines of maximum data density and do not have regular spacing.

In place coal S.G. was considered to be 1.45 tonnes/m³.

Cross-section orientation is parallel with the average azimuth of dips according to a Golder Associates computer printout of 198 bedding attitudes.

Coal seams - seam locations and thicknesses vary according to field observations along section lines.

Rock thicknesses are averages either from measured sections or cross-section interpretation.

Area of influence between sections is one half the distance between sections.

Dips - were calculated for each section by averaging all measurements within the area of influence.

Proximate analysis of forty-one surface samples indicate medium volatile bituminous coal. (Enclosure 22: Coal Quality Summary).

6.0 RECOMMENDATIONS FOR FURTHER WORK:

Preliminary exploration results indicate potential for a large volume open pit mine on Burnt Ridge Extension. The project is at the stage when drilling is essential for further evaluation. Continuous core (diamond) drilling of at least three holes is recommended to intersect the entire coal bearing section. Detailed mapping of the project area and trenching all coal indications is also necessary but does not have to precede drilling the first three holes.

7.0 PREVIOUS REPORTS AND SELECTED BIBLIOGRAPHY

Elphinstone, N. P., 1951. Report on the Former Imperial Coal and Coke Properties of the Upper Elk Valley: C.N.I.

Gibson, D. W., 1977. Sedimentary Facies in the Jura-Cretaceous Kootenay Formation, Crowsnest Pass Area, Southwestern Alberta and Southeastern British Columbia: Bull Can. Petroleum Geology, v. 25, No. 4, p. 767 - 791.

Horachek, J. and Fietz, D., 1979. Report on Coal Licences 264 - 276 inclusive: C.N.R.L. unpublished report.

BURNT RIDGE EXTENSION
COMPOSITE SECTION SUMMARY

<u>SEAM NO.</u>	<u>COAL THICKNESS</u> (m)	<u>CUMMULATIVE COAL</u> (m)	<u>V.M.%</u> (A.D.B.)	<u>ROCK THICKNESS</u> (m)	<u>RAW CUMMULATIVE ROCK</u> (m)
8	5.3	67.0	25.21		
8F	1	61.7	24.19	10	309.3
7u	3.8	60.7	24.9	22	299.3
7	7.5	56.9	26.33	2.3	277.3
7L	3.3	49.4	26.53	5	265
6	4.5	46.1	21.50	59	270
5	3.6	41.6	17.07	12	211
4	4.4	38.0	23.52	10	199
4L1	1.7	33.6	21.13	2.5	189
4L2	3.1	31.9	21.64	3	186.5
3u2	1.5	28.8	-	24	183.5
3u1	2.5	27.3	-	2	159.5
3	3.3	24.8	24.95	1	157.5
2u2	1.1	21.5	19.73	26	156.5
2u	1.5	20.4	19.40	3.0	130.5
2	5.4	18.9	23.82	2.5	127.5
1u	3.5	13.5	22.67	86	125
1L	10	10		6	39
				33	33

MM

Table 17

BURNT RIDGE EXTENSION
RESERVE CLASSIFICATION/SECTION

SECTION	N-S LIMIT	N-S LENGTH	INDICATED	INFERRED	TOTAL	%
48 440	48 310 48 570	260	-	1 206 045	1 206 000	1.6
48 700	48 570 49 033	463	5 126 086	8 121 509	13 248 000	17.0
49 365	49 033 49 683	650	17 918 721	14 245 888	32 165 000	41.4
50 000	49 683 50 230	547	5 563 425	10 344 590	15 908 000	20.5
50 460	50 230 50 605	375	5 301 380	3 297 574	8 599 000	11.1
50 750	50 605 51 000	395	3 946 419	31 839	3 978 258	5.1
51 250	51 000 51 500	500	390 629	2 230 870	2 621 499	3.4
	TOTAL =	3 190 m	38 246 660	39 478 315	77 724 975	100.1

- in tonnes

- S.G. = 1.45

Table 18

BURNT RIDGE EXTENSION
RESERVE CLASSIFICATION/SEAM PER SEAMS

<u>SEAM</u>	<u>INDICATED</u>	<u>INFERRED</u>	<u>TOTAL</u>	<u>%</u>
No. 1	5 126 000	9 130 000	14 256 000	18.3
No. 2	1 047 000	6 594 000	7 641 000	9.8
No. 3	3 036 000	6 106 000	9 142 000	11.8
No. 4L	440 000	1 044 000	1 484 000	1.9
No. 4	6 098 000	3 855 000	9 953 000	12.8
No. 5	2 571 000	1 190 000	3 761 000	4.8
No. 6	2 697 000	1 418 000	4 115 000	5.3
No. 7L	1 000 000	2 335 000	3 935 000	5.1
No. 7	11 683 000	4 418 000	16 101 000	20.7
No. 8F	418 000	269 000	687 000	0.9
No. 8	3 531 000	3 119 000	6 650 000	8.6
TOTAL =	38 247 000	39 478 000	77 725 000	100.0

- in tonnes

-S.G. = 1.45

Table 19

BURNT RIDGE EXTENSION
RESERVE CLASSIFICATION-SEAMS AND SECTIONS

(Volume x 10³ in tonnes)

SEAM

SECTION	No. 1	No. 2	No. 3	No. 4L	No. 4	No. 5	No. 6	No. 7L	No. 7	No. 8F	No. 8	TOTAL
5 548 440	513	-	220	-	-	74	89	80	148	14	68	1 206
5 548 700	5 126	-	273	-	2 712	1 117	1 330	948	206	255	1 283	13 250
5 549 365	6 293	3 396	4 557	-	2 800	2 571	2 697	1 599	5 732	418	2 101	32 164
5 550 000	1 775	2 458	2 561	-	3 003	-	-	1 306	3 038	-	1 768	15 909
5 550 460	518	741	610	567	861	-	-	-	3 972	-	1 331	8 600
5 550 750	32	657	474	439	296	-	-	-	1 981	-	100	3 979
5 551 250	-	390	445	476	283	-	-	-	1 027	-	-	2 621
TOTAL =	14 770	7 642	9 140	1 482	9 955	3 762	4 116	3 933	16 104	687	6 650	77 725

TABLE 20

BURNT RIDGE EXTENSION
OVERBURDEN RATIO PER SECTIONS

<u>SECTION</u>	<u>ROCK ABOVE COAL</u> (m ³)	<u>ROCK IN COAL SECTION</u> (m ³)	<u>TOTAL ROCK</u> (m ³)	<u>COAL</u> (tonnes)	<u>RATIO</u>
5 548 440	14 950 000	4 886 055	19 844 000	1 206 045	16.45:
5 548 700	38 911 000	66 619 845	105 531 000	13 247 595	7.97:
5 549 365	61 918 000	95 115 224	157 033 000	32 164 609	4.88:
5 550 000	56 937 000	70 829 650	127 767 000	15 908 015	8.03:
5 550 460	36 102 000	35 065 547	71 168 000	8 598 954	8.28:
5 550 750	35 444 000	28 175 280	63 619 000	3 978 258	15.99:
5 551 250	9 354 000	23 389 183	32 743 000	2 621 499	12.49:
TOTAL =	253 624 000	324 080 784	577 705 000	77 724 975	7.43:

2/ACb.24

Table 21

BURNT RIDGE EXTENSION

COAL QUALITY SUMMARY

<u>SEAM</u>	<u>SAMPLE NO.</u>	<u>TRUE THICKNESS</u>	<u>% MOSITURE</u>	<u>% ASH</u>	<u>% V. M.</u>	<u>% F. C.</u>	<u>F.S.I.</u>	<u>% S</u>
No. 1(u)	GOB 1S	3.5	2.63	25.28	21.43	50.66	0	0.32
No. 1(L)	GOB 38S	10.0	2.88	30.57	23.90	42.65	0	-
Avg. No. 1			2.76	27.93	22.67	46.66	0	0.32
No. 2	GOB 20S	5.6	3.88	10.99	24.33	60.80	0	0.30
	GOB 22S	2.9	3.65	13.09	23.30	59.96	0	0.31
	GOB 23S	2.0(7)	4.01	25.57	23.12	47.30	0	0.42
Avg. No. 2		3.5	3.85	16.55	23.82	56.02	0	0.34
No. 2u ₁	GOB 19S	1.3	5.04	33.97	23.58	39.14	0	0.31
	GOB 21S	1.6						
Avg.No. 2u ₁		1.5	4.25	39.75	19.40	36.61	0	0.29
No. 2u ₂	GOB 18S	1.1	4.22	43.48	19.73	32.57	0	0.28
No. 3	GOB 14S	7.1	2.32	26.82	21.23	49.63	0	0.35
	GOB 25S	3.4	4.38	14.83	26.84	53.95	0	0.32
	GOB 24S	3.9	5.02	22.70	25.30	46.98	0	0.29
	GOB 17S	2.7	3.75	14.95	26.42	54.88	0	0.34
Avg.No. 2u ₂		4.3	3.87	19.83	24.95	51.36	0	.316

* Raw basis

* Air dry basis

TABLE 22

BURNT RIDGE EXTENSIONCOAL QUALITY SUMMARY(continued)

<u>SEAM</u>	<u>SAMPLE NO.</u>	<u>TRUE THICKNESS</u>	<u>% MOSITURE</u>	<u>% ASH</u>	<u>% V. M.</u>	<u>% F. C.</u>	<u>F.S.I.</u>	<u>% S</u>
No. 8	GOB 13S	4.8	2.58	13.99	27.94	55.49	0	0.62
	GOB 32	3.9	2.63	24.19	23.14	50.04	0	0.35
	GOB 33	5.1	3.11	21.52	24.74	50.63	0	0.36
	GOB 31	8.0	5.42	25.00	25.47	44.11	0	0.41
	GOB 41	2.0	2.89	21.90	26.80	48.41	0	0.38
	GOB 30	6.1	3.25	33.22	23.98	39.55	0	0.36
	GOB 40	7.2	1.98	19.58	24.41	54.03	0	0.37
Avg. No. 8		5.3	3.12	22.77	25.21	48.89	0	0.41
No. 8F	GOB 12S	1.0	4.30	20.19	24.19	51.32	0	0.81

Table 22 (cont'd)

COAL QUALITY SUMMARY(continued)

<u>SEAM</u>	<u>SAMPLE NO.</u>	<u>TRUE THICKNESS</u>	<u>% MOSITURE</u>	<u>% ASH</u>	<u>% V. M.</u>	<u>% F. C.</u>	<u>F.S.I.</u>	<u>% S</u>
No. 4L	GOB 27S	2.7	2.21	28.34	20.26	49.19	0	0.37
	GOB 16S	1.7	2.20	19.38	23.01	55.41	0	0.41
Avg. No. 4L		2.2	2.21	23.86	21.64	52.30	0	0.39
No. 4L ₁	GOB 37S	1.7	1.88	35.81	21.13	41.18	0	-
No. 4	GOB 7S	3.8	2.94	25.57	26.71	44.78	0	0.36
	GOB 4S	4.3	2.95	19.08	24.86	53.11	0	0.45
	GOB 15S	7.2	2.68	29.09	22.81	45.42	0	0.34
	GOB 34S	1.5	3.20	27.52	21.94	47.34	0	-
	GOB 26S	1.6	2.94	31.56	21.30	44.20	0	0.40
Avg. No. 4		3.7	2.34	26.56	23.52	46.97	0	0.39
No. 5	GOB 5S	5.1	2.74	10.70	25.79	61.27	0	0.61
	GOB 2S	2.1	5.29	23.43	26.71	44.57	0	0.50
Avg. No. 5		3.6	4.02	17.097	26.00	52.92	0	0.56

Table 22 (cont'd)

COAL QUALITY SUMMARY(continued)

<u>SEAM</u>	<u>SAMPLE NO.</u>	<u>TRUE THICKNESS</u>	<u>% MOSITURE</u>	<u>% ASH</u>	<u>% V. M.</u>	<u>% F. C.</u>	<u>F.S.I.</u>	<u>% S</u>
No. 6	GOB 6S	5.1	1.49	41.27	20.17	37.12	0	0.42
	GOB 3S	3.9	4.14	35.83	22.87	37.16	0	0.42
Avg. No. 6		4.5	2.82	38.55	21.50	37.14	0	0.42
No. 7L	GOB 8S	3.0	3.00	22.55	26.62	47.83	0	0.56
	GOB 9S	3.6	2.97	25.76	26.43	44.84	0	0.56
Avg. No. 7L		3.3	2.99	24.16	26.53	46.34	0	0.56
No. 7		3.3	2.99	24.16	26.53	46.34	0	0.56
	GOB 10S	8.0	3.16	22.40	26.40	48.04	0	0.45
	GOB 36S	11.0	4.01	26.19	27.19	42.61	0	-
	GOB 39S	6.1	2.11	20.87	25.40	51.62	0	0.27
Avg. No. 7		8.4	3.09	23.15	26.33	47.42	0	0.36
No. 7u	GOB 11S	3.5	3.53	14.03	29.20	53.18	0	0.58
	GOB 35S	3.8	2.81	32.71	22.23	42.25	0	-
	GOB 28S	1.1)	2.88	17.18	23.36	56.58	0	0.42
	GOB 29S	1.9)	3.05	11.02	24.89	61.04	0	0.36
Avg. No. 7u		3.4	3.07	18.75	24.92	53.26	0	0.45

Table 22 (cont'd)

TABLE OF FORMATIONS

	PERIOD OR EPOCH	FORMATION	LITHOLOGY	THICKNESS (m)
ERA	Lower Cretaceous	Cadomin Fm.	non-marine: sandstone, conglomerate and shale	350 - 1000
	MESOZOIC	KOOTENAY FORMATION	Pocaterra Creek Member	non-marine: sandstones, conglomerate siltstone & shale
ELK MEMBER			non-marine: interbedded medium to coarse grain sandstone, chert-pebble conglomerate with minor siltstone, shale and coal	30 - 400
COAL BEARING MEMBER			non-marine & brackish: interbedded coal, siltstones, shales and sandstones	70 - 610
BASAL SANDSTONE UNIT OR MOOSE MOUNTAIN MEMBER (MMM)			non-marine: massive, cliff-forming sandstone	20 - 60
	JURASSIC	FERNIE FM.	marine: shale, siltstone, sandstone & limestone	180 - 380

... after GIBSON 1977; PRICE 1961, 1965



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

APPLICATION TO EXTEND TERM OF LICENCE

I, Bolton Agnew agent for Shell Canada Resources Limited
(Name) (Name)

P.O. Box 100
(Address) (Address)
Calgary, Alberta, T2P 2H7

Valid FMC No. 207568

hereby apply to the Minister to extend the term of Coal Licence(s) No(s) 264 to 276 Incl.
13 B.C. Crown Coal Licences; 3175 Hectares.

for a further period of one year.

2. Property name North Block, Group No. 214, Kootenay Land District

3. I am allowing the following Coal Licence(s) No(s) to forfeit N/A

4. I have performed, or caused to be performed, during the period January 30, 1980 to
January 31, 1981, work to the value of at least \$ 172,422.98
on the location of coal licence(s) as follows:

CATEGORY OF WORK

CATEGORY OF WORK	Licence(s) No(s).	Apportioned Cost
Geological mapping	265 - 276 Incl.	\$102,962.07
Surveys: Geophysical		
Geochemical		
Other - Geodet	265 - 273, 276	18,900.00
Road construction		
Surface work - Trench	272, 273	32,085.93
Underground work		
Drilling		
Logging, sampling, and testing	265 - 273, 276	4,950.00
Reclamation	272, 273	Included in Surface Work
Other work (specify)		
Off-property costs		13,524.98

5. I wish to apply \$ 172,422.98 of this value of work on Coal Licence(s) No(s) 264 to 276 Incl.

6. I wish to pay cash in lieu of work in the amount of \$ N/A on Coal Licence(s) No(s).

7. The work performed on the location(s) is detailed in the attached report entitled North Block Geological Reports '80 will be submitted in ninety days.

1981.01.28

(Date)

Land Supervisor
(Position)

CATEGORY OF WORK

GEOLOGICAL MAPPING

Yes No

	Area (Hectares)	Scale	Duration
Reconnaissance	1425	1:10,000	
Detail: Surface	1750	1:5,000	256 Man-Days
Underground			

*Other (specify)

Total Cost \$ 102,962.07

GEOPHYSICAL/GEOCHEMICAL SURVEYS

Yes No

Method

Grid

Topographic LOCATION SURVEYS

*Other (specify)

Total Cost \$ 18,900.00

ROAD CONSTRUCTION

Yes No

Length Width

On Licence(s) No(s)

Access to

Total Cost \$

SURFACE WORK

Yes No

	Length	Width	Depth	Cost
Trenching (Backhoe)	65 m	1 m	1 m	
Seam Tracing				
Crosscutting				
*Other (specify)				
Trenching (by Hand)	1,270 m	1 m	1 m	

Total Cost \$ 32,085.93

UNDERGROUND WORK

Yes No

	No. of Adits	Maximum Length	No. of Holes	Total Metres	Cost
Test Adits					
*Other workings					

Total Cost \$

DRILLING

Yes No

	Hole Size	No. of Holes	Total Metres	Cost
Core: Diamond				
Wireline				
Rotary: Conventional				
Reverse circulation				

*Other (specify)

Contractor

Where is the core stored?

Total Cost \$

LOGGING, SAMPLING AND TESTING

Yes No

Lithology: Drill samples	<input type="checkbox"/>	Core samples	<input type="checkbox"/>	Bulk samples	<input type="checkbox"/>
Logs: Gamma neutron	<input type="checkbox"/>	Density	<input type="checkbox"/>		
*Other (specify)					
Testing: Proximate analysis	<input checked="" type="checkbox"/>	FSI	<input checked="" type="checkbox"/>	Washability	<input checked="" type="checkbox"/>
Carbonization	<input type="checkbox"/>	Petrographic	<input type="checkbox"/>	Plasticity	<input type="checkbox"/>

*Other (specify)

To Date Total Cost \$ 4,950.00

OTHER WORK (specify details)

.....

.....

Total Cost \$

On-property costs \$158,898.00

To Date Off-property costs 13,524.98

To Date Total Expenditures \$ 172,422.98

1981.01.28

(Date)

W.S. Karvula
(Signature)

Manager - Accounting, CNRL
(Position)

*A full explanation of other work is to be included.

K-Shell-Burnt Ridge Ext. 80(2)A

REPORT

8012

MAPS AND CROSS SECTIONS

C.L. # 272, 273, 276

RJ Morris
April 198

376



5 551 500 N

5 551 000 N

5 550 500 N

5 550 000 N

50°05'00"





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5 549 000 N

5 548 500 N

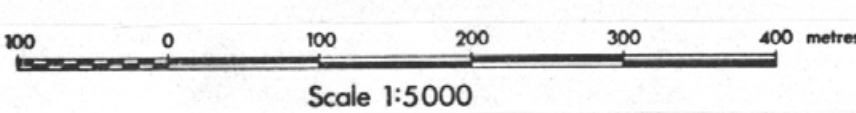


LEGEND

-  - KRL DRILL HOLES
-  - KRL ADITS
-  - ROADS (KRL)
-  - SAMPLE SITES

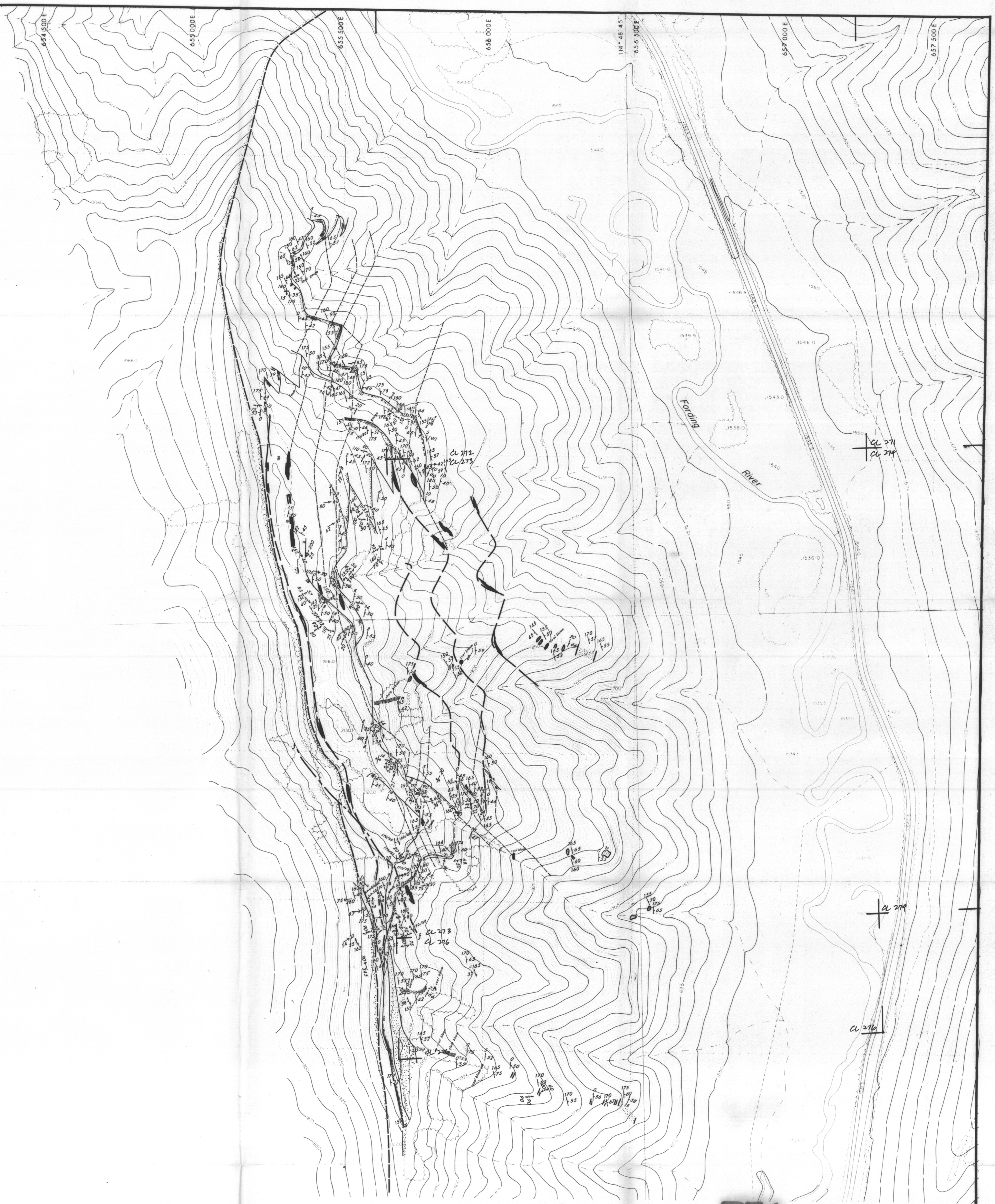
376

K-Skill-Burnt Ridge Ext 80(2)1A

Crows Nest Resources Limited		
EXPLORATION		
BURNT RIDGE EXTENSION S.E.B.C.		
GENERAL INFORMATION MAP		
		
Scale 1:5000		
AUTHOR: J.MORRIS	SCALE: 1:5000	ENCLOSURE No: 7
DATE: 81 02 13	REVISED:	DRAWING No: HD-68A
To Accompany		



5 551 500 N
 5 551 000 N
 5 550 500 N
 5 550 000 N
 50° 05' 00"
 5 549 500 N
 5 549 000 N
 5 548 500 N



CORRELATION

- : TRACE IN FIELD
- : TRACE FROM AIR PHOTO
- : PROPOSED
- : PROJECTED OUTCROP FROM AIR PHOTO
- : OUTCROP IN FIELD

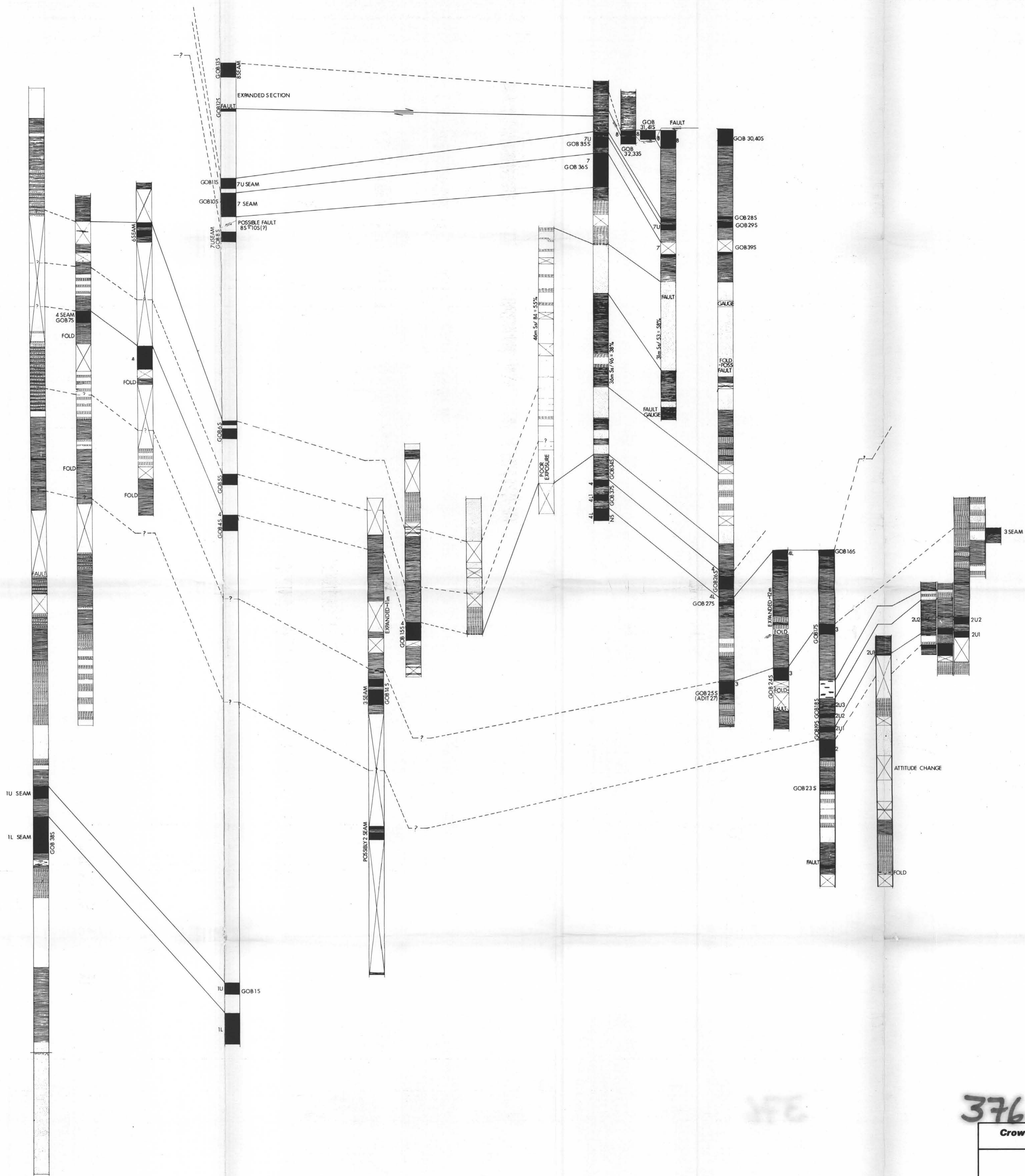
LEGEND

- STRIKE - 170 | 55 - DIP : BEDDING ATTITUDE
- STRIKE - 175 | 70 - DIP : JOINTING
- AZIMUTH - 5 | 20 - PLUNGE : SLICKENSIDE, STRIATION
- AZIMUTH - 0 | 15 - PLUNGE : ANTICLINE, SYNCLINE
- : AIR PHOTO INTERPRETATION
- : ROADS

376

K-Skill-Burnt Ridge Est. 55121A

Crows Nest Resources Limited		
EXPLORATION		
BURNT RIDGE EXTENSION		
S.E.B.C.		
GEOLOGY		
 Scale 1:5000		
AUTHOR: R. MORRIS	SCALE: 1:5000	ENCLOSURE No: B
DATE: 81 02 19	REVISED:	DRAWING No: HD-68
To: Accompany		

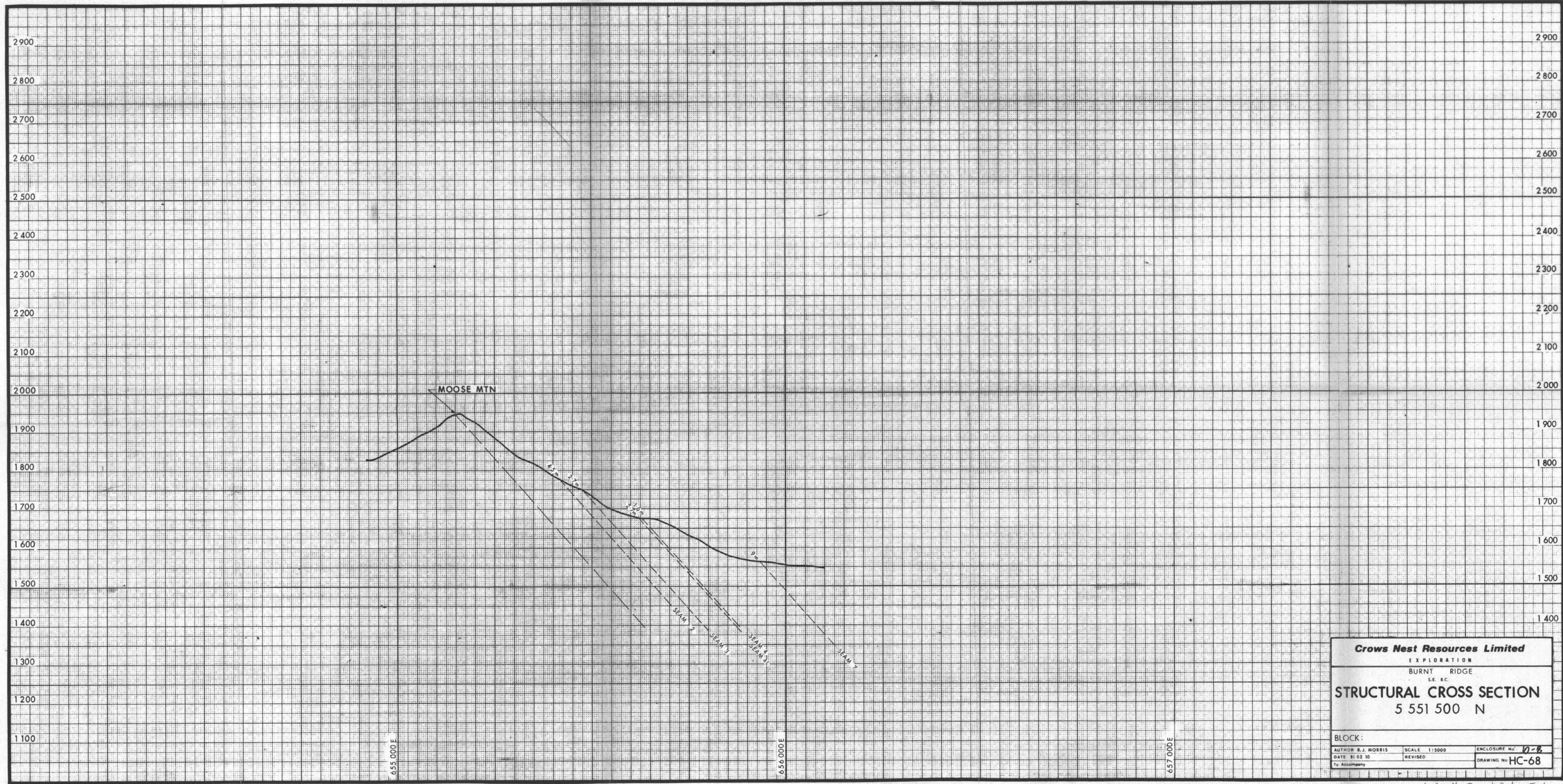


SCALE:
 VERT. 1:500
 HORIZ. 1:5,000

376

V. Skill - Burnt Ridge Ext. 88(2) A

Crows Nest Resources Limited		
EXPLORATION		
BURNT RIDGE EXTENSION S.E. BC		
CORRELATION CHART		
AUTHOR: R. J. MORRIS	SCALE: AS SHOWN	ENCLOSURE No: 7
DATE: 81.04.10	REVISED:	DRAWING No: HB-73
To Accompany		

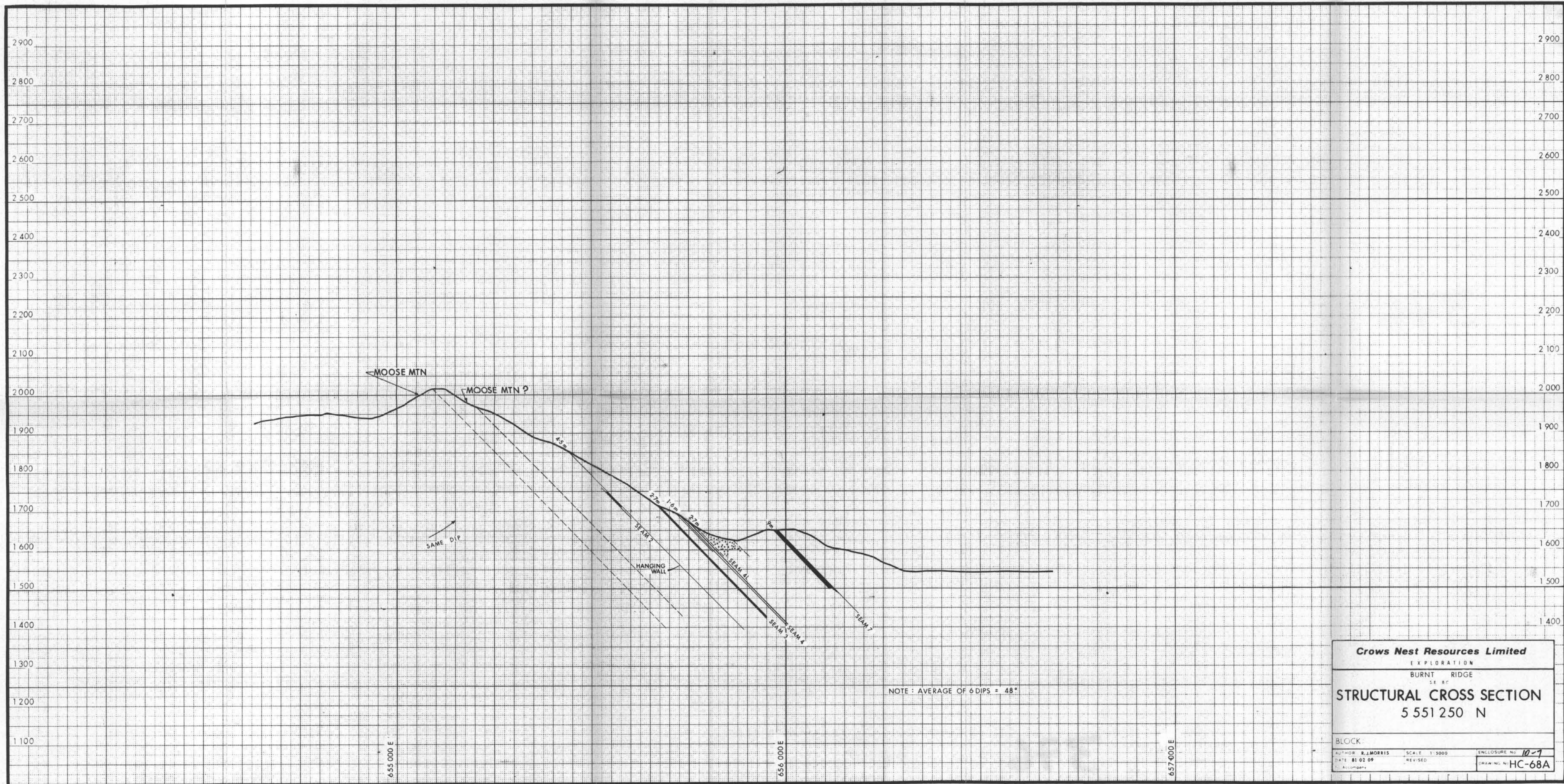


Crows Nest Resources Limited
 EXPLORATION
 BURNT RIDGE
 S.E. 8.C.
STRUCTURAL CROSS SECTION
 5 551 500 N

BLOCK:

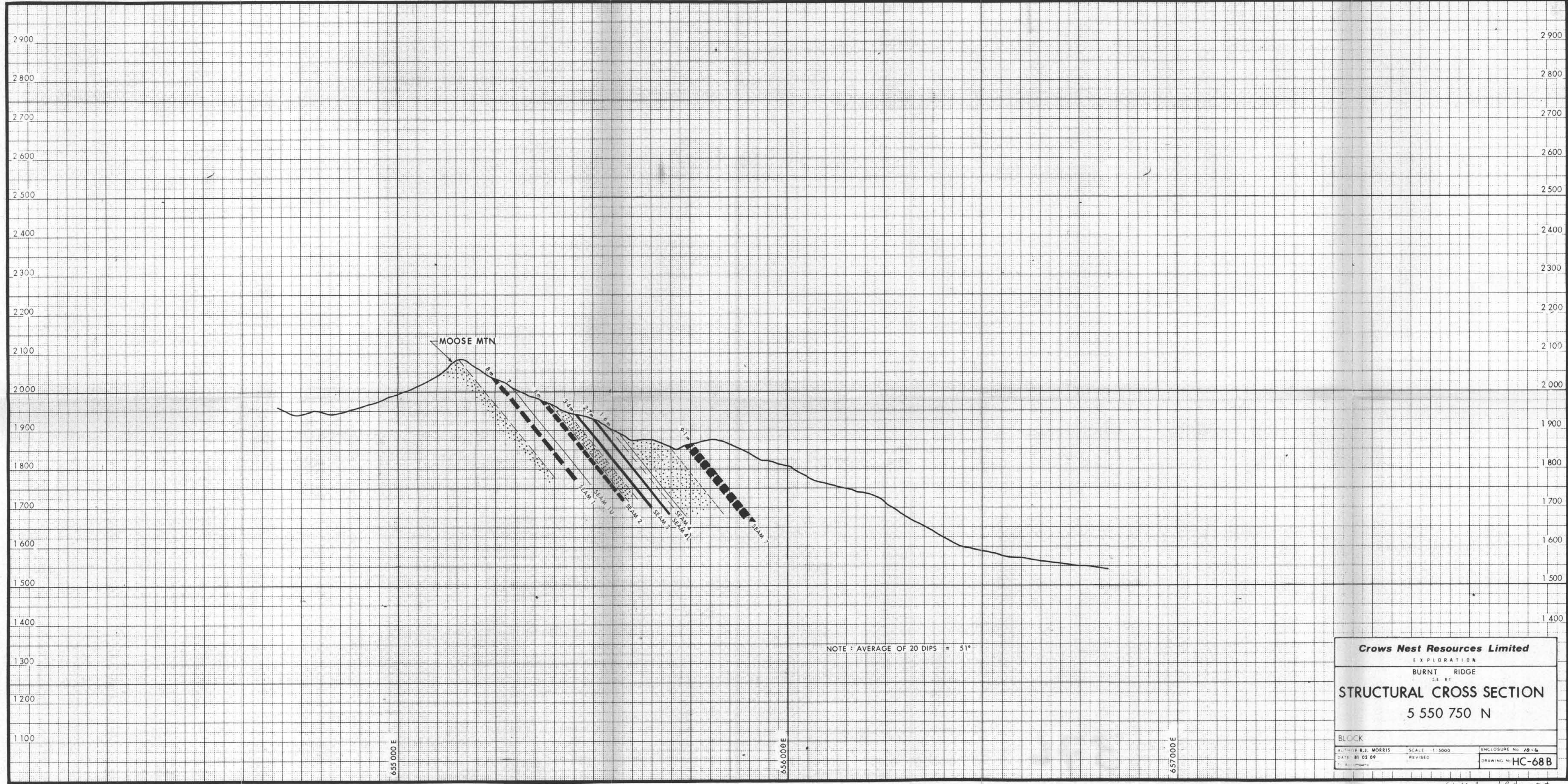
AUTHOR: B.J. MORRIS	SCALE: 1:5000	ENCLOSURE No: 10-B
DATE: 81 02 10	REVISED:	DRAWING No: HC-68
To Accompany:		

*k-Shell-Burnt Ridge Ext.
80(2)A*



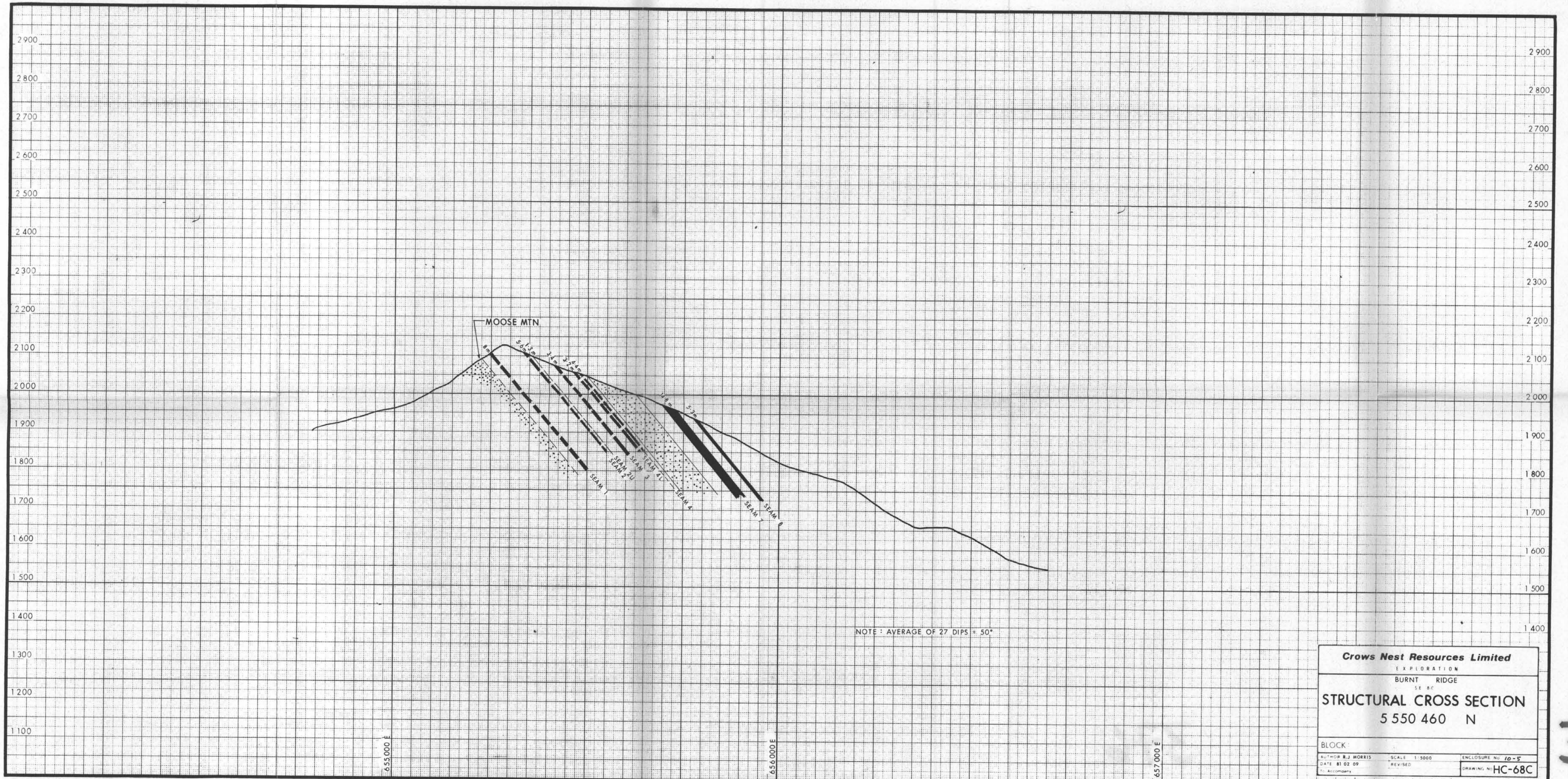
Crows Nest Resources Limited
 EXPLORATION
 BURNT RIDGE
 S.E.B.
STRUCTURAL CROSS SECTION
 5 551 250 N
 BLOCK:
 AUTHOR: R.J. MORRIS SCALE: 1:5000 ENCLOSURE NO: 10-7
 DATE: 01 02 09 REVISED: DRAWING NO: HC-68A

K-Steel-Burnt Ridge Ext. 80(2)19



K-Shell-Burnt Ridge Exp
80(2)A

3

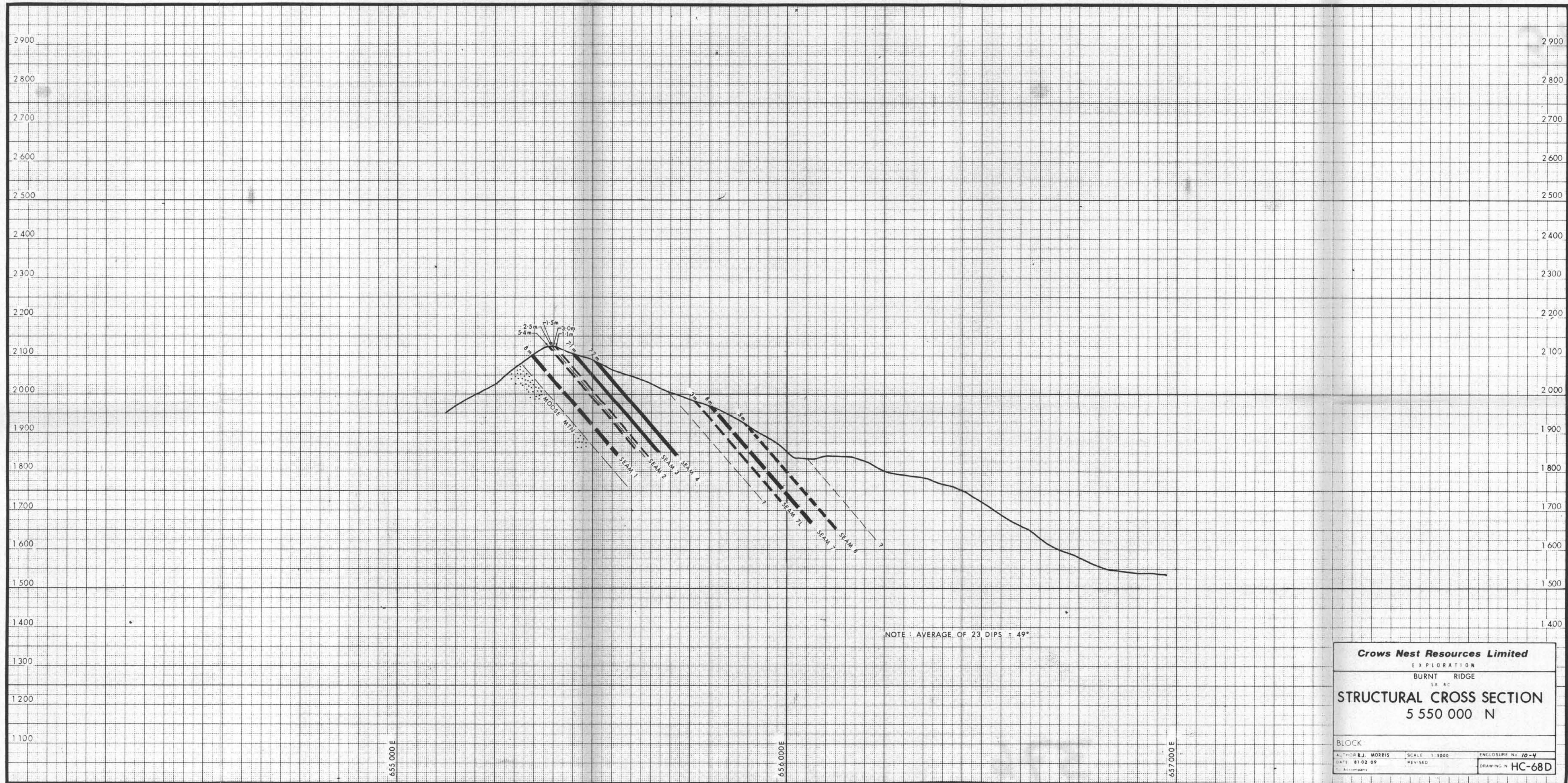


Crows Nest Resources Limited
 EXPLORATION
 BURNT RIDGE
 SE BC
STRUCTURAL CROSS SECTION
 5 550 460 N

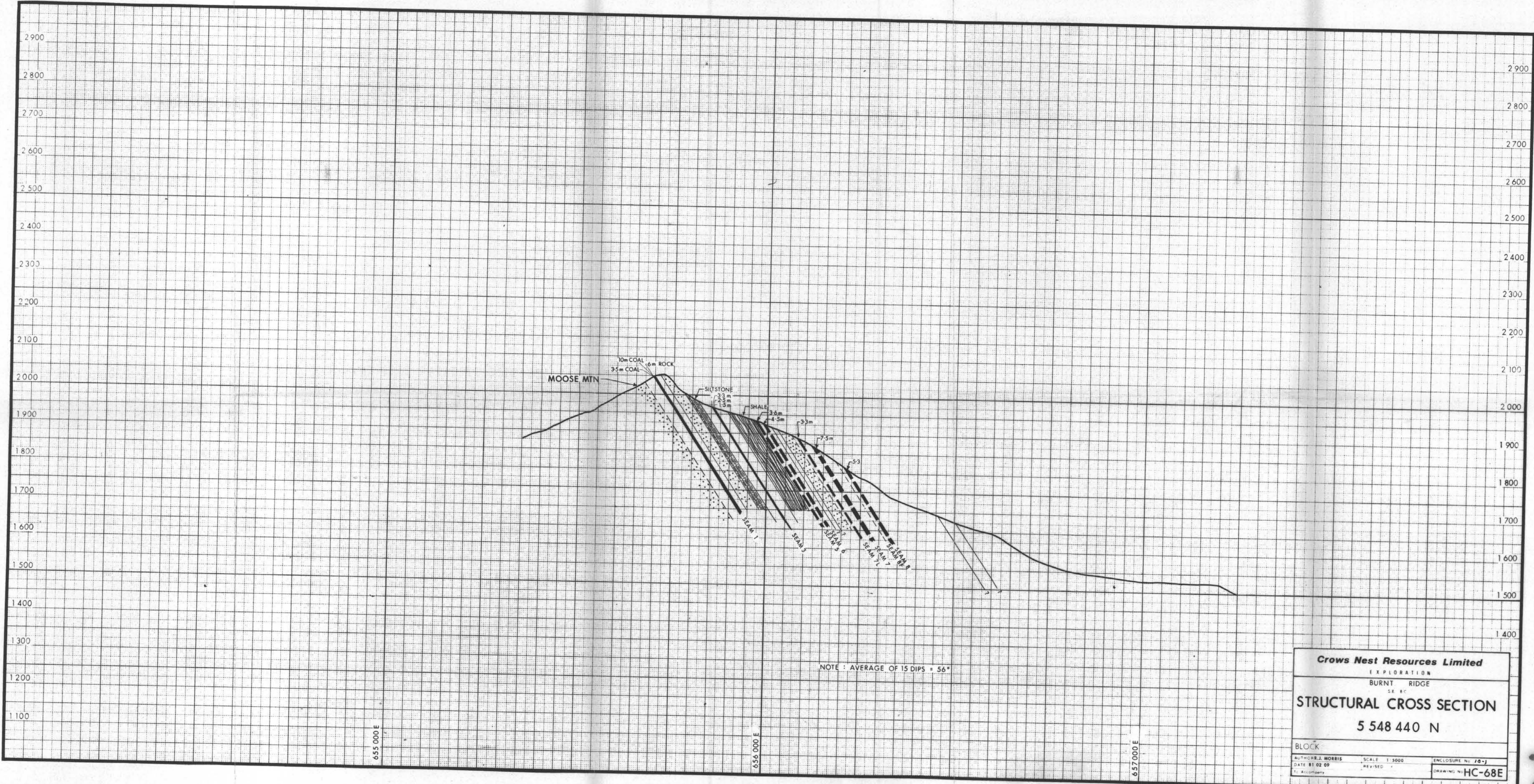
BLOCK:

AUTHOR: R.J. MORRIS	SCALE: 1:5000	ENCLOSURE NO: 10-5
DATE: 01 02 09	REVISED:	DRAWING NO: HC-68C
BY: Accompany		

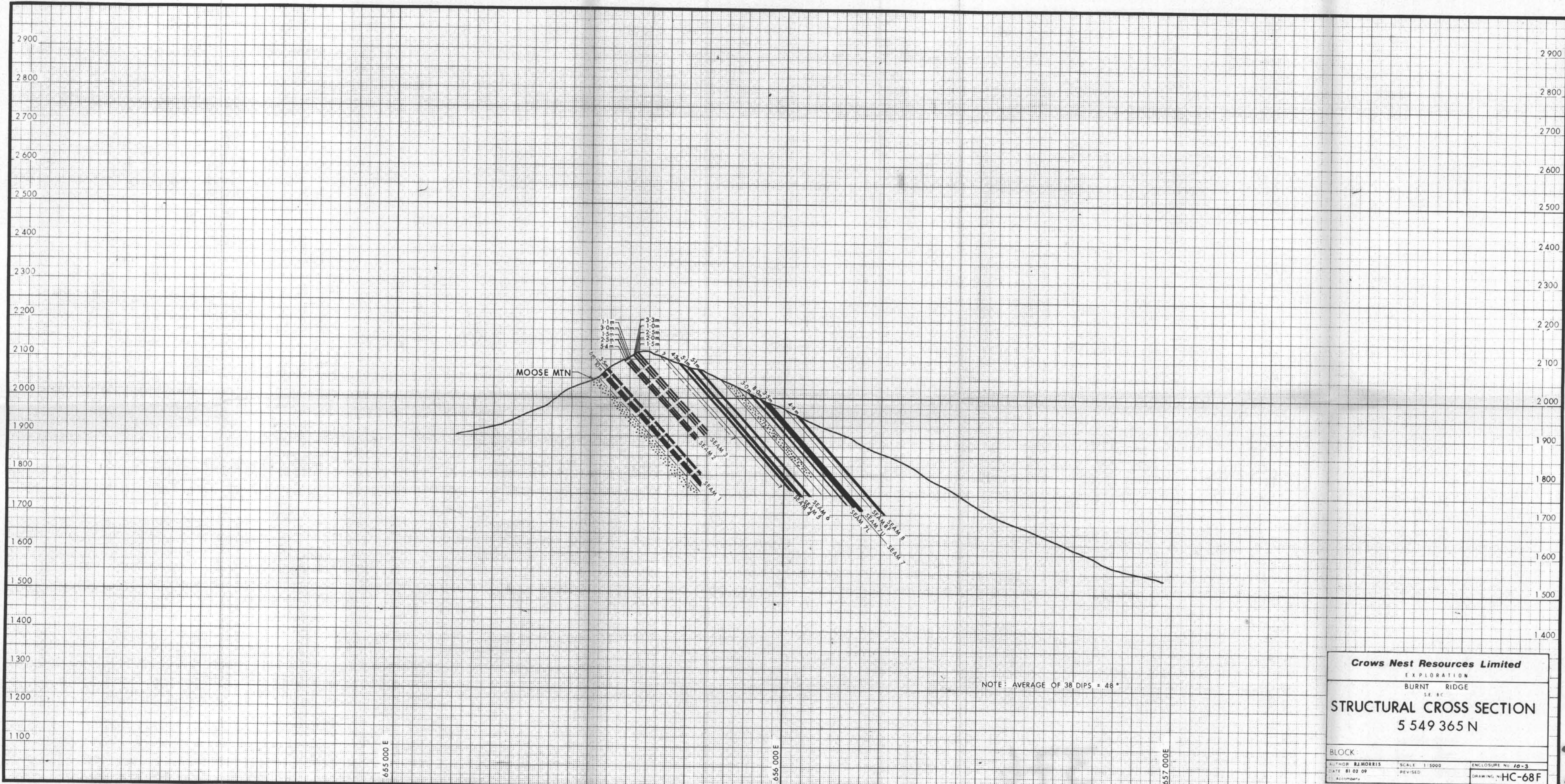
37



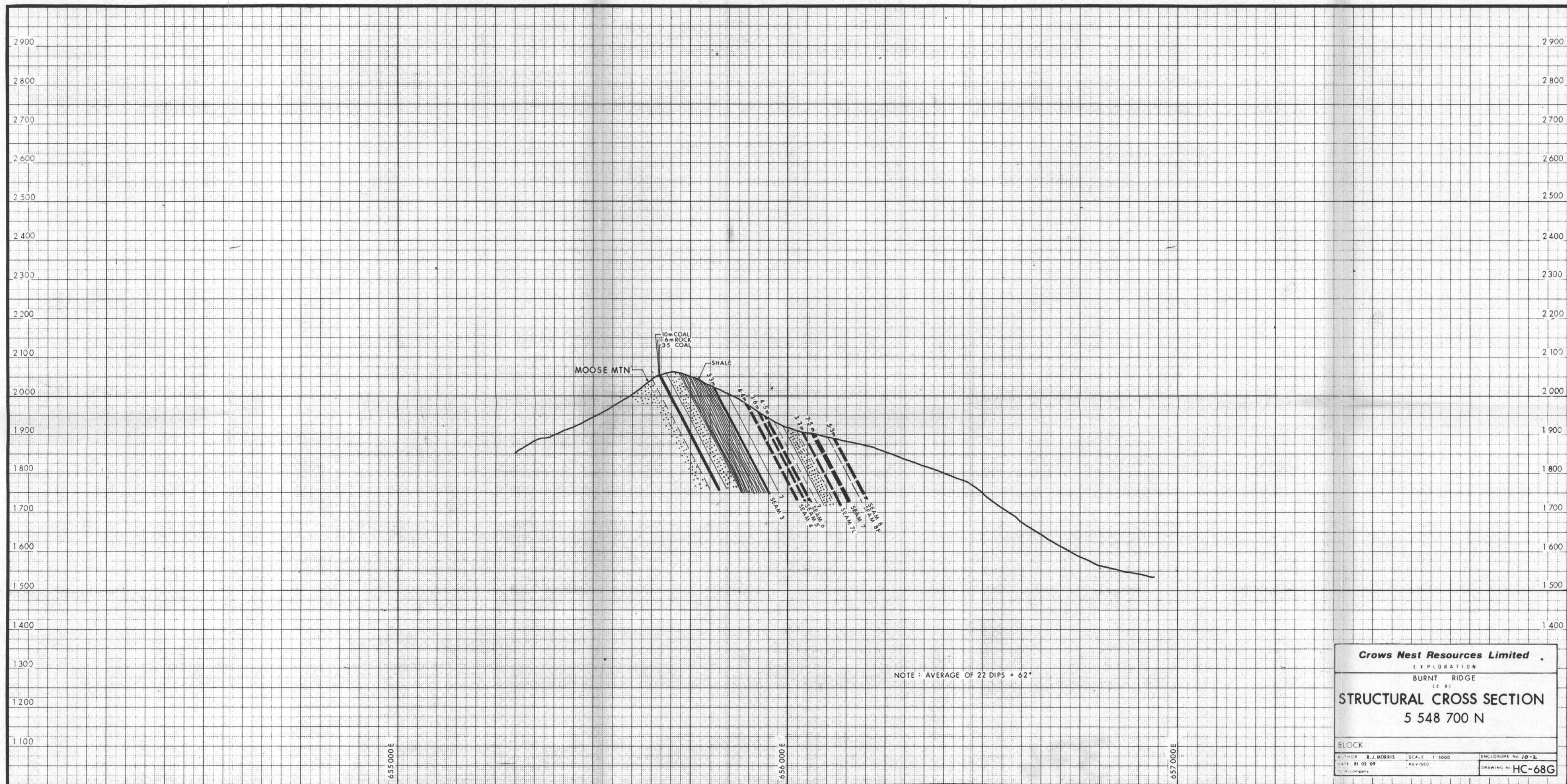
Crows Nest Resources Limited		
EXPLORATION		
BURNT RIDGE		
S.E. BC		
STRUCTURAL CROSS SECTION		
5 550 000 N		
BLOCK		
AUTHOR: R.J. MORRIS	SCALE: 1:5000	ENCLOSURE No. 10-4
DATE: 01/02/09	REVISED:	DRAWING No. HC-68D
ACCOMPANY:		



K-Shell - Burnt Ridge Ext. 80(2/19)



K-Shell-Burnt Ridge EXT.
80(2)A



K-Skill-Burnt Ridge Ext.
R021A

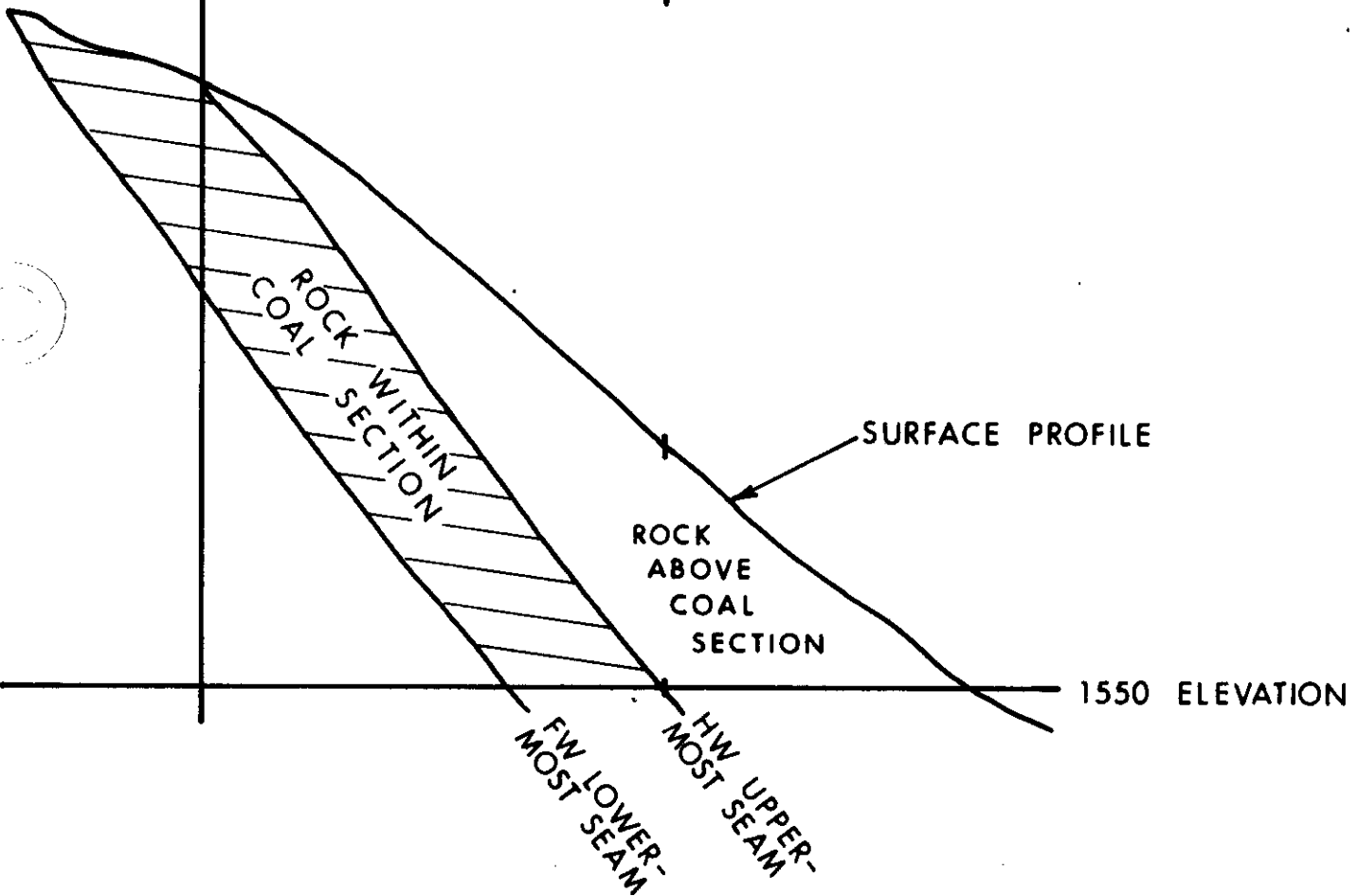
W.

E.

B.C. Coal

C.N.R.L.

ROCK VOLUME CLASSIFICATION ROCK IN COAL SECTION



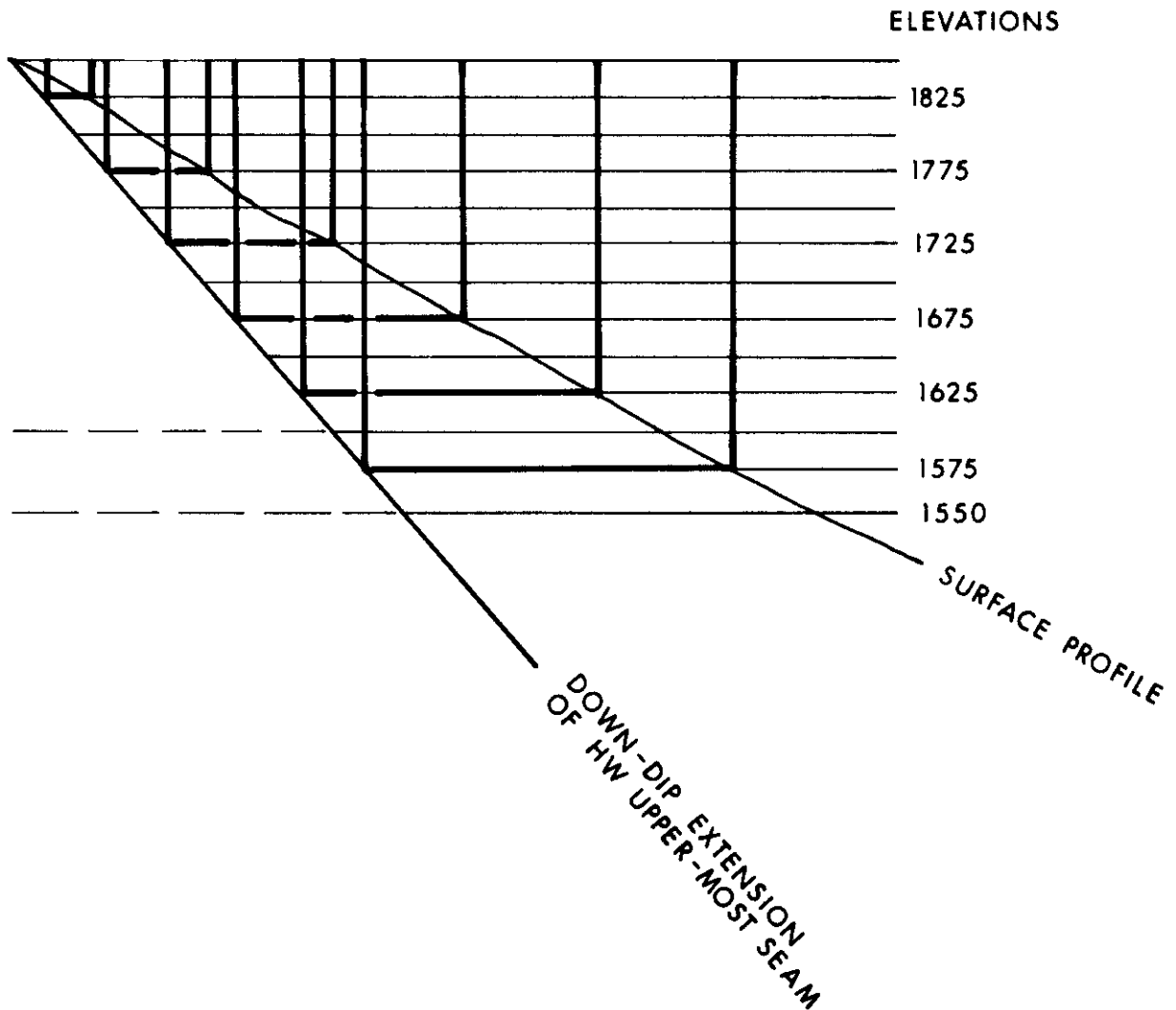
K-Shell-Burnt Ridge Ext 80(2)A

Crows Nest Resources Limited
EXPLORATION

BURNT RIDGE EXTENSION

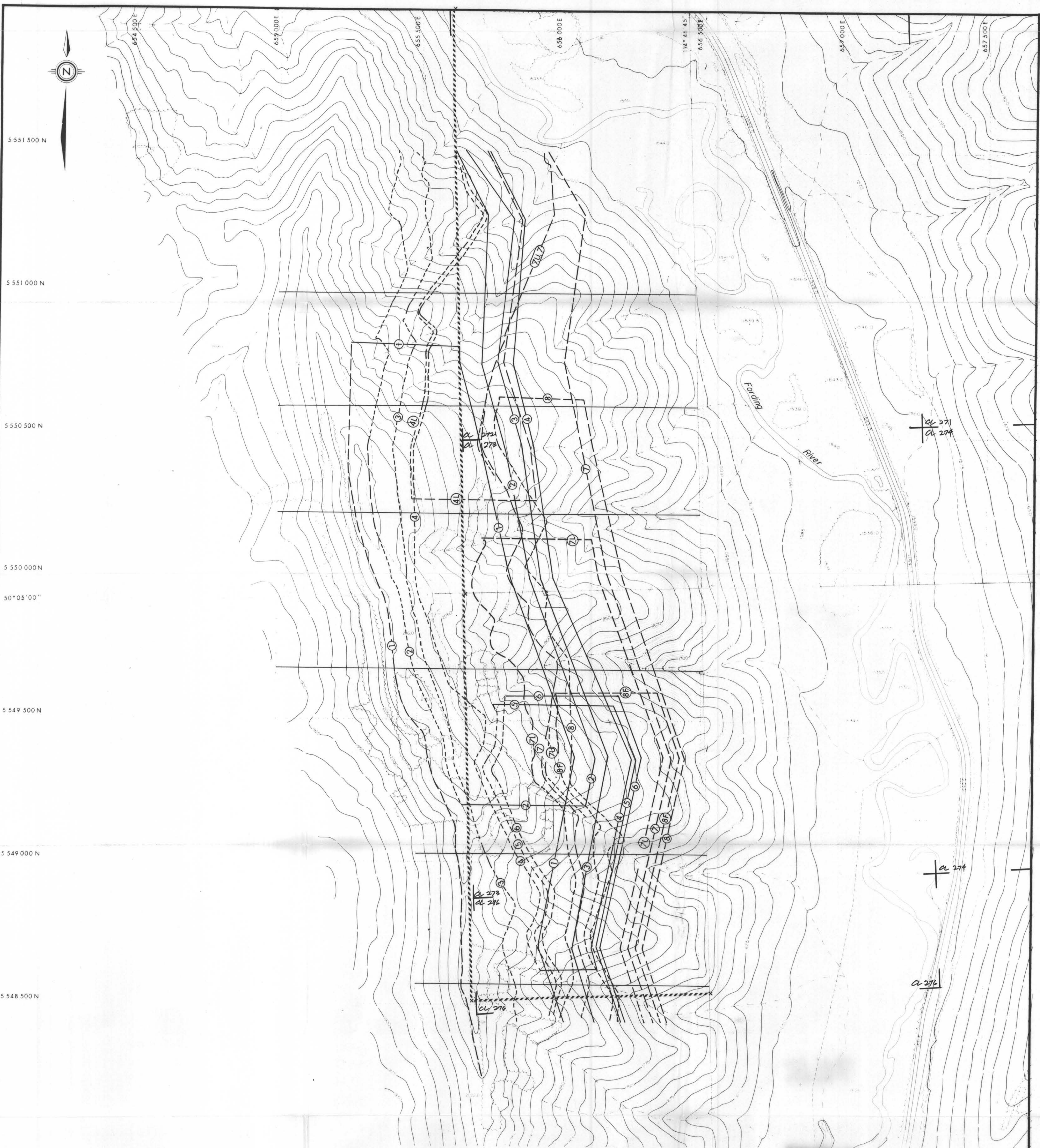
AUTHOR B. MORRIS	SCALE:	ENCLOSURE No <input type="checkbox"/>
DATE: A.P.R. 1981	REVISED	DRAWING No
To Accompany		

ROCK VOLUME CALCULATION ABOVE COAL SECTION



K-Shell-Burnt Ridge Ext 80(2)A

Crows Nest Resources Limited		
EXPLORATION		
BURNT RIDGE EXTENSION		
AUTHOR: B. MORRIS	SCALE:	ENCLOSURE No. 12
DATE: APR. 1981	REVISED:	DRAWING No.
To Accompany		



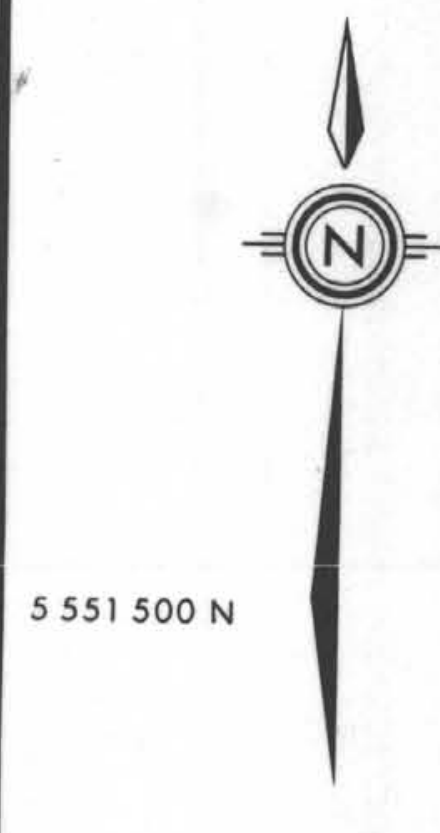
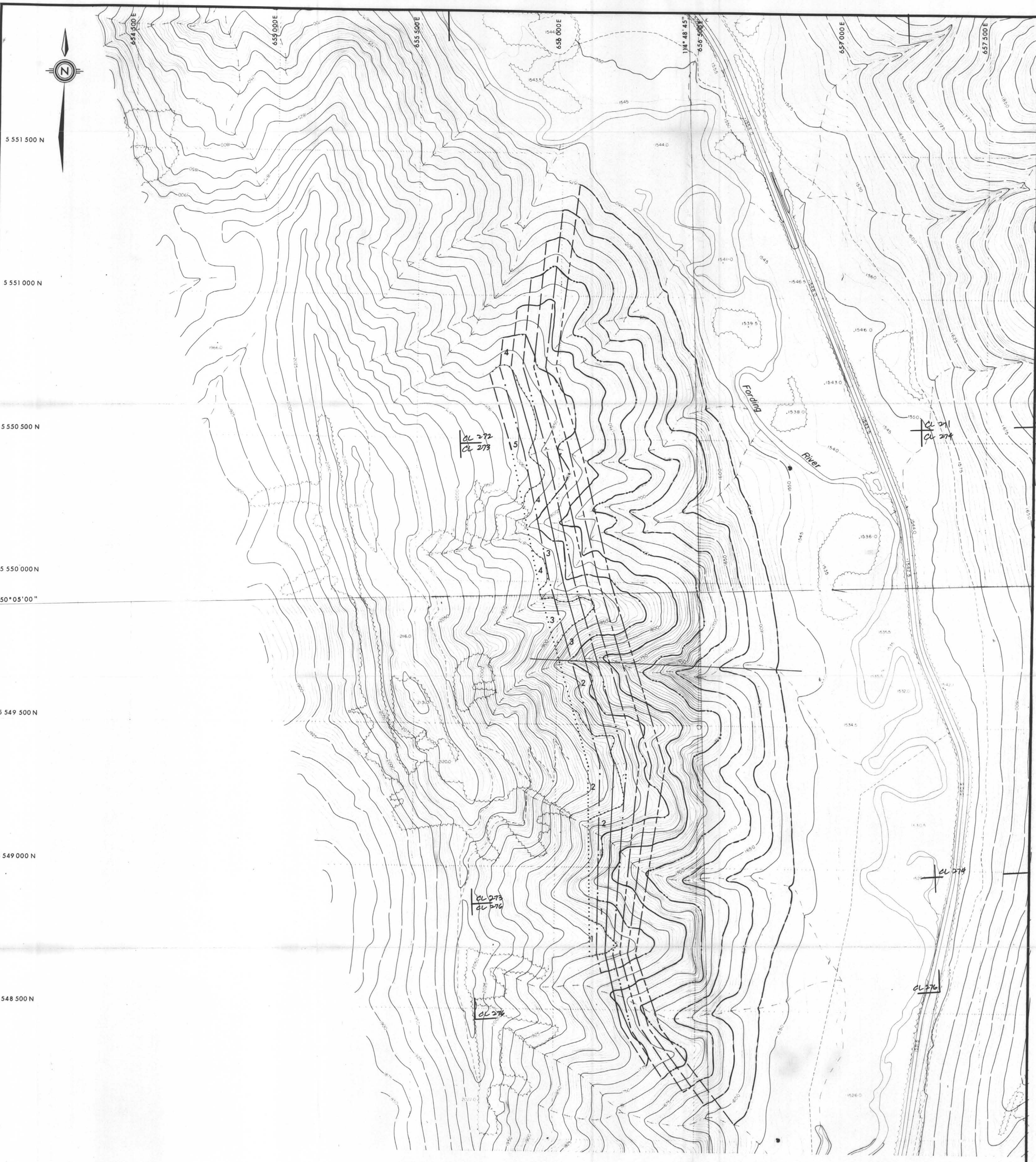
LEGEND

- : OBSERVED OUTCROP
- - - : PHOTO INTERPRETATION
- - - - : PROJECTED 1550 INTERCEPT
- ==== : PROPERTY BOUNDARY
- ② : COAL SEAM NUMBER

376

K-Suit Burnt Ridge Ext. 80(2)10

Crows Nest Resources Limited		
EXPLORATION		
BURNT RIDGE EXTENSION S.E.B.C.		
RESERVE		OUTLINE
AUTHOR: J. MORRIS	SCALE: 1:5000	ENCLOSURE No: 1.3
DATE: 02/16	REVISED:	DRAWING No: HD-68C
To: Accompany		



5 551 500 N
 5 551 000 N
 5 550 500 N
 5 550 000 N
 50°05'00" N
 5 549 500 N
 5 549 000 N
 5 548 500 N

LEGEND

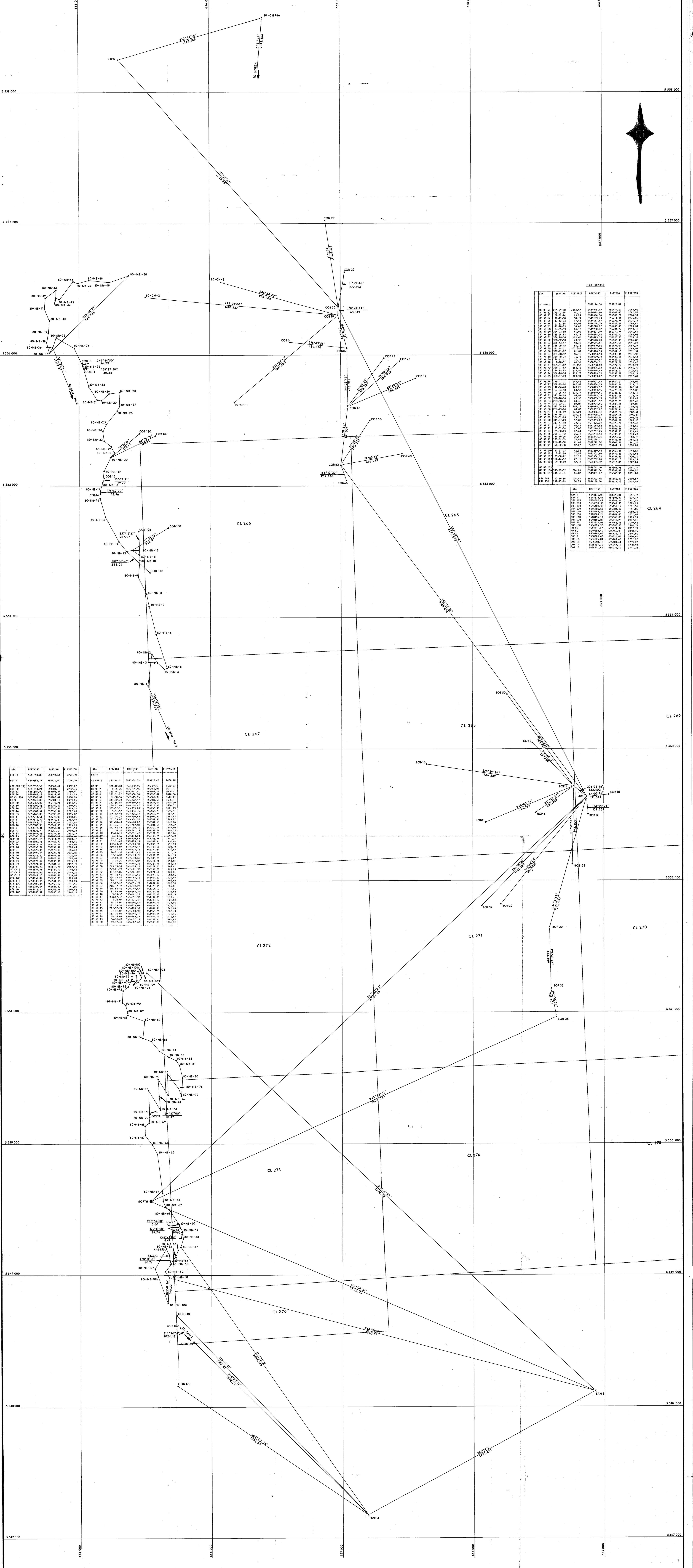
- : 1575 ELEV.
- : 1625 ELEV.
- : 1675 ELEV.
- : 1725 ELEV.
- : 1775 ELEV.
- : 1825 ELEV.
- : 1875 ELEV.
- : 1925 ELEV.

STRAIGHT LINES : INTERCEPT OF ELEVATION WITH H.W. OF TOP SEAM.
 CURVED LINES : ELEVATION TRACE
 8 : COAL SEAM

Crows Nest Resources Limited		
EXPLORATION		
BURNT RIDGE EXTENSION S.E. B.C.		
ROCK ABOVE COAL SECTION		
 Scale 1:5000		
AUTHOR: J. MORRIS	SCALE: 1:5000	ENCLOSURE No. 14
DATE: 81 02 16	REVISED:	DRAWING No. HD-68B
To Accompany		

376

K-Skill-Burnt Ridge EXT. SOL(2)A



STA	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
COB 1					
COB 2					
COB 3					
COB 4					
COB 5					
COB 6					
COB 7					
COB 8					
COB 9					
COB 10					
COB 11					
COB 12					
COB 13					
COB 14					
COB 15					
COB 16					
COB 17					
COB 18					
COB 19					
COB 20					
COB 21					
COB 22					
COB 23					
COB 24					
COB 25					
COB 26					
COB 27					
COB 28					
COB 29					
COB 30					
COB 31					
COB 32					
COB 33					
COB 34					
COB 35					
COB 36					
COB 37					
COB 38					
COB 39					
COB 40					

STA	NORTHING	EASTING	ELEVATION
LITTLE	554750.00	655300.00	774.76
BANK 1	554750.00	655300.00	774.76
BOB 1	554750.00	655300.00	774.76
BOB 2	554750.00	655300.00	774.76
BOB 3	554750.00	655300.00	774.76
BOB 4	554750.00	655300.00	774.76
BOB 5	554750.00	655300.00	774.76
BOB 6	554750.00	655300.00	774.76
BOB 7	554750.00	655300.00	774.76
BOB 8	554750.00	655300.00	774.76
BOB 9	554750.00	655300.00	774.76
BOB 10	554750.00	655300.00	774.76
BOB 11	554750.00	655300.00	774.76
BOB 12	554750.00	655300.00	774.76
BOB 13	554750.00	655300.00	774.76
BOB 14	554750.00	655300.00	774.76
BOB 15	554750.00	655300.00	774.76
BOB 16	554750.00	655300.00	774.76
BOB 17	554750.00	655300.00	774.76
BOB 18	554750.00	655300.00	774.76
BOB 19	554750.00	655300.00	774.76
BOB 20	554750.00	655300.00	774.76
BOB 21	554750.00	655300.00	774.76
BOB 22	554750.00	655300.00	774.76
BOB 23	554750.00	655300.00	774.76
BOB 24	554750.00	655300.00	774.76
BOB 25	554750.00	655300.00	774.76
BOB 26	554750.00	655300.00	774.76
BOB 27	554750.00	655300.00	774.76
BOB 28	554750.00	655300.00	774.76
BOB 29	554750.00	655300.00	774.76
BOB 30	554750.00	655300.00	774.76
BOB 31	554750.00	655300.00	774.76
BOB 32	554750.00	655300.00	774.76
BOB 33	554750.00	655300.00	774.76

LEGEND
• PLANT 6" NAIL
x PLANT 12" NAIL
● FOUND 12" NAIL

ALL DISTANCES HAVE BEEN REDUCED TO THE UTM PLANE AND ARE IN METERS AND DECIMALS THEREOF. ALL BEARINGS ARE REFERRED TO 1978 LONGITUDE SURVEY PERFORMED BY Sheltech Canada, 1980.

Sheltech Canada		
Crows Nest Resources Limited ENGINEERING		
CHALINAC RIDGE BARE MOUNTAIN		
TRaverse SURVEY MAP		
Scale 1:5000		
DATE	SCALE	INVENTORY NO.
TO ACCURACY	REVISION	NO. 41-65C

576

Sheltech Canada 3050 Barrington St., Scarborough, Ont. M1S 2L8

K-Shell-Burnt Ridge Ext. 80(3)A

ASSESSMENT DEPARTMENT
82J12

00 376

STRATIGRAPHIC SECTIONS
BY HAND LENSES

C. # 272
273, 276

P. J. Worn
April 1961

376

376

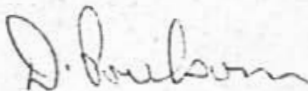
Date: DECEMBER 8, 1980
To: CROWNEST RESOURCES LIMITED (CNRL)
From: SHELTECH CANADA
Subject: NORTH BLOCK 40514 S.E. BRITISH COLUMBIA
REPORT ON LOCATION SURVEYS

All survey work done in the North Block area was based on the Crownsnest Control Network established in spring of 1980 and using July 14, 1980 coordinates 'North' and 'Little' were the two stations mostly used, however three minor control stations from Banner (80-BAN #2, 80-BAN #3, 80-BAN #4) were also used and these were also established from the above mentioned Crownsnest Control Network. Good precision was obtained.

From these control points, 42 geological control points, and 124 traverse stations were established from which 9.4 km of old road was surveyed. Also 10 outcrops were picked up.

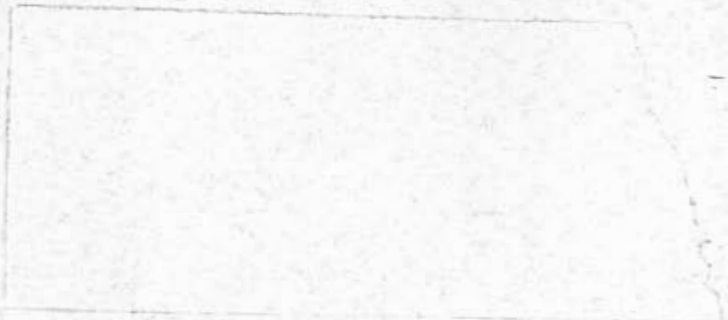
Conventional survey methods using both a 1" and a 20" theodolite and electronic distance measuring equipment were used to obtain survey data. Calculations were done using the TI system with distances reduced to plane and bearings referenced to 117° W. The results were given to CNRL personnel in both tabular and plan form.

The survey cost attributed to the North Block area was approximately \$17,800.



D. Poulson

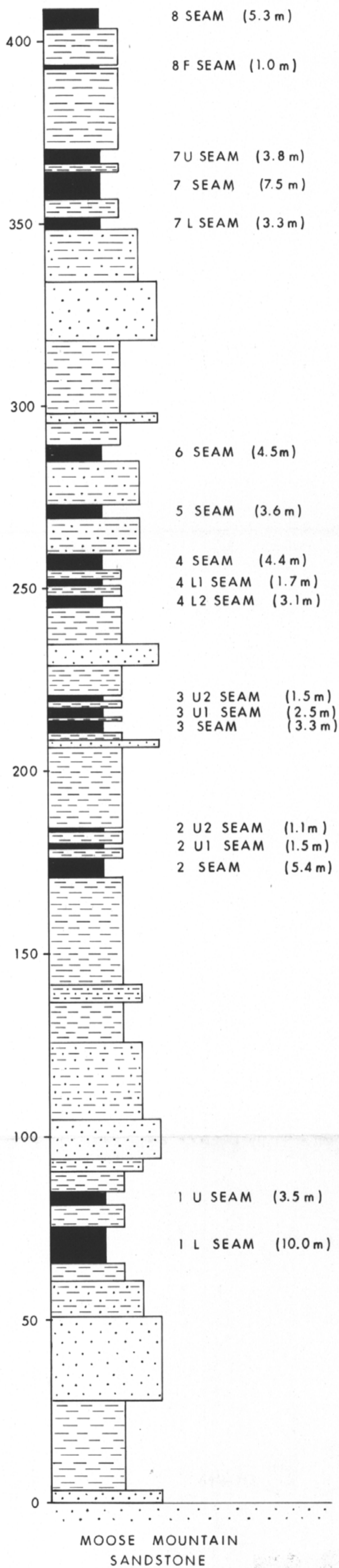
BK:sm



BURNT RIDGE EXTENSION

COMPOSITE STRATIGRAPHIC SECTION

SCALE 1:100



K-Shell-Burnt Ridge Ext 80(2)A

Crows Nest Resources Limited		
EXPLORATION		
BURNT RIDGE EXTENSION		
AUTHOR: B. MORRIS	SCALE: 1:100	ENCLOSURE No: 6
DATE: APR 1981	REVISED:	DRAWING No:
To Accompany:		