

OPEN FILE

BARE MOUNTAIN

NORTH BLOCK PROJECT

REPORT ON COAL LICENSES

NOS. 264 to 275 INCLUSIVE

HELD BY: SHELL CANADA RESOURCES LIMITED

OPERATED BY: CROWS NEST RESOURCES LIMITED

KOOTENAY LAND DISTRICT

SOUTHEASTERN BRITISH COLUMBIA

NTS MAP : 82J/2

50° 02' to 50° 08' NORTH LATITUDE

114° 45' to 114° 50' WEST LONGITUDE

REPORT DATE: April, 1981

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

AUTHOR: R. J. Morris, M.Sc.

2/ADa.1

00 374

PROFESSIONAL VERIFICATION OF REPORT

ENTITLED: Bare Mountain
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.



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

April 30, 1981

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LIST OF ENCLOSURES:

<u>NO.</u>	<u>FIGURES</u>	<u>All in Volume II</u>	<u>SCALE</u>
1	- Southeast B. C. Location	sp	1:800 000
2	- Index Map to Coal Licences (Bare Mountain - Chauncey Ridge)	} see 80(2)A	1:50 000
3	- Index Map to Coal Licences (Bare Mountain Prospects)		1:50 000
4	- B. C. Coal Land Tenure Standing:		Block Group #214
5	- ✓ General Geological Map	}	1:50 000
6	- ✓ General Information Base Map		1:5 000
7	- ✓ Geological Map (2 sheets)	} see K-Shell- Bare Mountain 80(2)A	1:5 000
8	- ✓ Structural Cross Sections		1:5 000
	✓ 8-1 - 5,551,000	}	
	✓ 8-2 - 5,551,600		
	✓ 8-3 - 5,552,500		
	✓ 8-4 - 5,553,000		
	✓ 8-5 - 5,553,430		
	✓ 8-6 - 5,553,950		
9	- ✓ Correlation Chart		
10	- ✓ Stratigraphic Sections (47) 10-1 to 10-47 Reference to locations on Information Map.		1:20
	✓	see K-Shell- Bare Mountain 80(3)A	

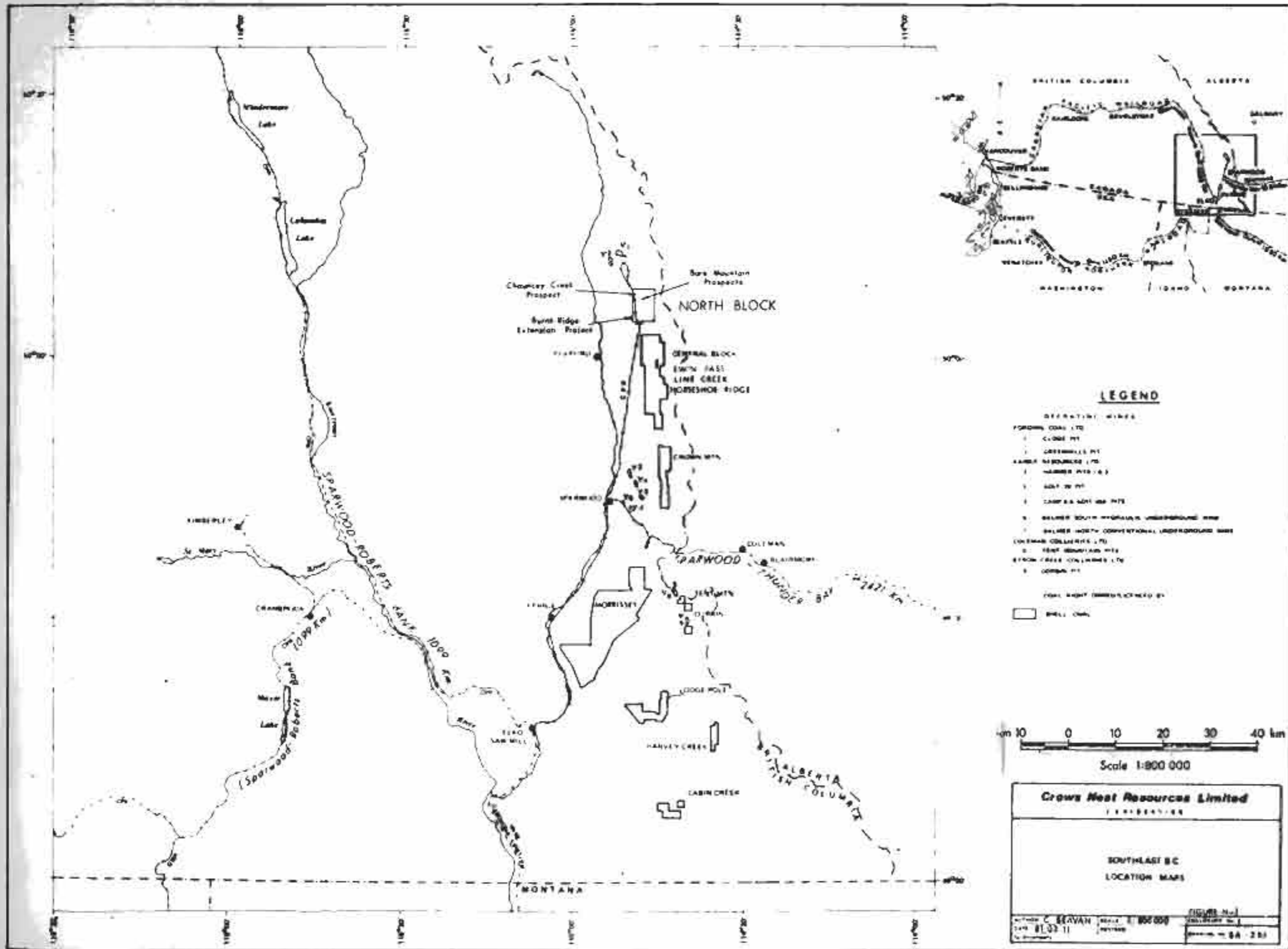
LIST OF ENCLOSURES (cont'd)

<u>NO.</u>		<u>TABLES</u>	<u>All in Volume I</u>	NOT TO SCALE
11	-	Table of Formations		
12	-	Coal Quality Summary		

LIST OF ENCLOSURES (cont'd)

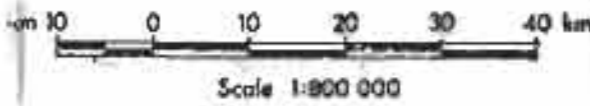
<u>NO.</u>	<u>APPENDICES</u>	NOT TO SCALE
13	- Cost Statement (copy of Application to Extend Term of License)	
14	- Report on Location Survey North Block 4051 M Southeast B. C. by Sheltech Canada Ltd. (traverse survey map included)	

See K. Shell-Bone Mountain 80(2)A



LEGEND

- DESCRIPTIVE UNITS**
- FORMER COAL LTD
 - CLONE PT
 - GREENHILL PT
 - KAMLET RESOURCES LTD
 - HUMBER PT & S
 - SOFT SO PT
 - CLAY & SOFT SO PT
 - BALMER SOUTH HYDRAULIC UNDERGROUND MINE
 - BALMER NORTH CONVENTIONAL UNDERGROUND MINE
 - COLEMAN COLLIERY LTD
 - WEST BRIDGEMAN MINE
 - STONER CREEK COLLIERY LTD
 - COBURN PT
- COAL MINE OPERATED BY**
- BELL COAL



Crows Nest Resources Limited
 VERIFICATION

SOUTHEAST B.C.
 LOCATION MAPS

Author: C. BEVAN Date: 01/03/11
 Scale: 1:800 000
 Figure No.: 1
 Revision: 1
 Drawing No.: SA-251

SUMMARY:

The Bare Mountain Project is part of the Elk Valley Coalfield in the Rocky Mountains of southern British Columbia.

The project is located in an area of extensive coal development: The Fording Coal operations to the north and B. C. Coal's Greenhills development to the west.

Railway and road access follows the Fording River through the project at the foot of the west slope of Bare Mountain.

The early Cretaceous Coal Bearing Member of the Kootenay Formation crops out on the upper slopes and dips steeply below surface creating a favourable underground hydraulic development. The section contains 32 m of coal with four seams between 5.0 and 10.0 m + thick.

No attempt has been made to calculate coal reserves as an applicable mining technique is not determined.

The North Block, Group #214 is comprised of thirteen B. C. Coal Licences (Nos. 264 - 276 inclusive) covering 3 173 hectares.

held by: Shell Canada Resources Ltd., and
operated by its wholly owned subsidiary Crows Nest Resources Limited.

The Bare Mountain Project is part of the North Block.

The 1980 exploration program included reconnaissance geological mapping and trenching of 46 coal exposures. The total expenditures amounted to \$172,423.

Continuous core drilling of at least two holes on a road along the lower, forested, slopes as well as at least three helicopter supported drill holes on the upper, grassy, slopes is recommended.

INTRODUCTION:

Coal Land Tenure

Enclosure 3: Index Map to Coal Licences

Enclosure 4: B.C. Coal Land Tenure

Standing North Block Group #214

The North Block or Group #214 is comprised of thirteen B. C. Coal licences (Nos. 264 - 276 inclusive) covering 3 173 hectares held by Shell Canada Resources Ltd. and operated by its wholly owned subsidiary Crows Nest Resources Limited.

This report accounts for work done during the last term of licence on the Bare Mountain Project which is part of North Block.

Location, Physiography

Enclosure 2: Project Subdivision Map

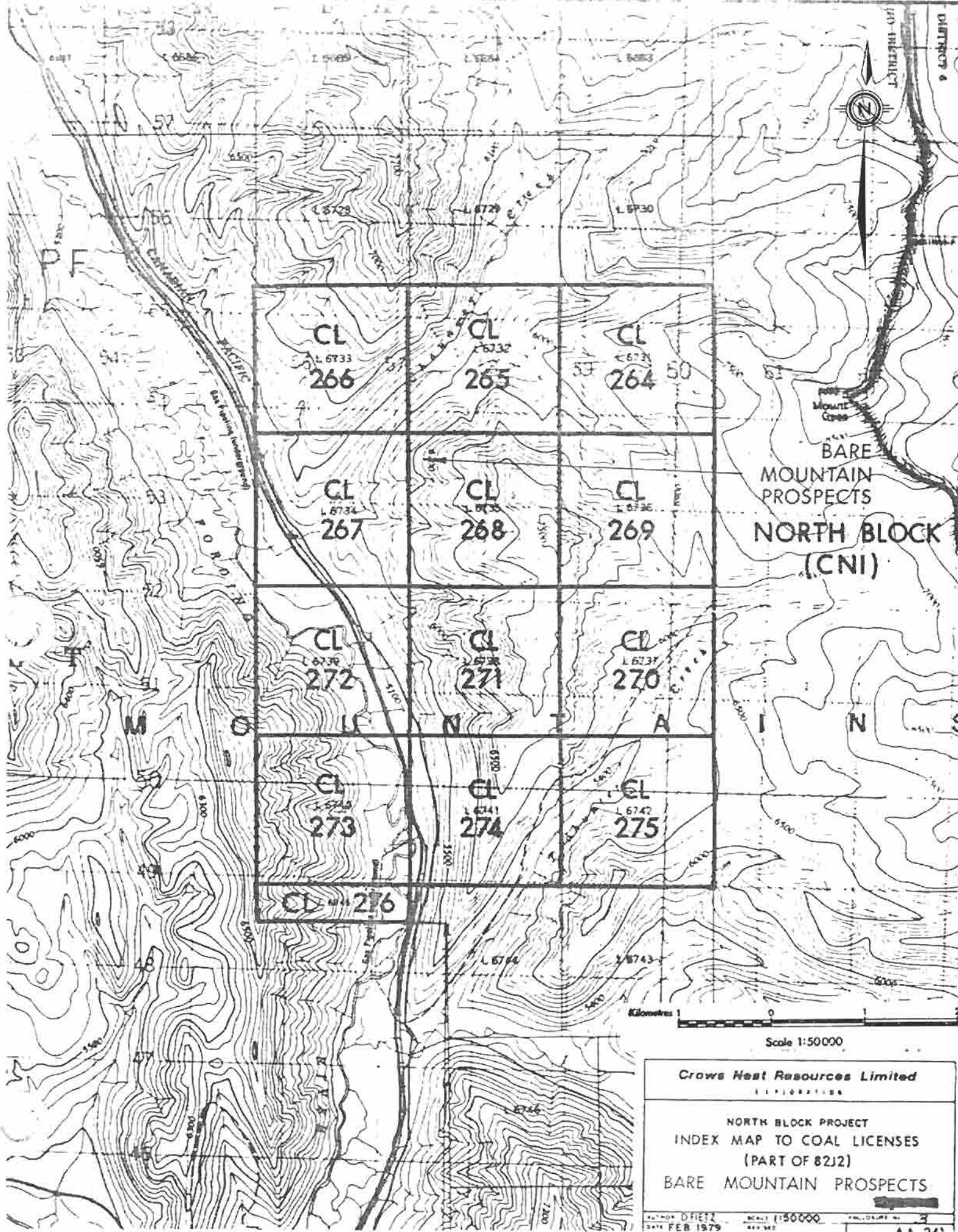
The property is located in the Rocky Mountains of southeastern British Columbia. Bare Mountain is located on the east side of the Fording River nine air-kilometers northeast of Elkford and four km south of the Fording Coal operations.

The area of interest is mountain bound to the south and east by Todhunter Creek, to the north by Chauncey Creek, and to the west by the Fording River. Erosional features include prominent gullies with seasonal stream flow on the west and north faces and a long ridge trenching to the south.

Access

Enclosure 2: Project Subdivision Map

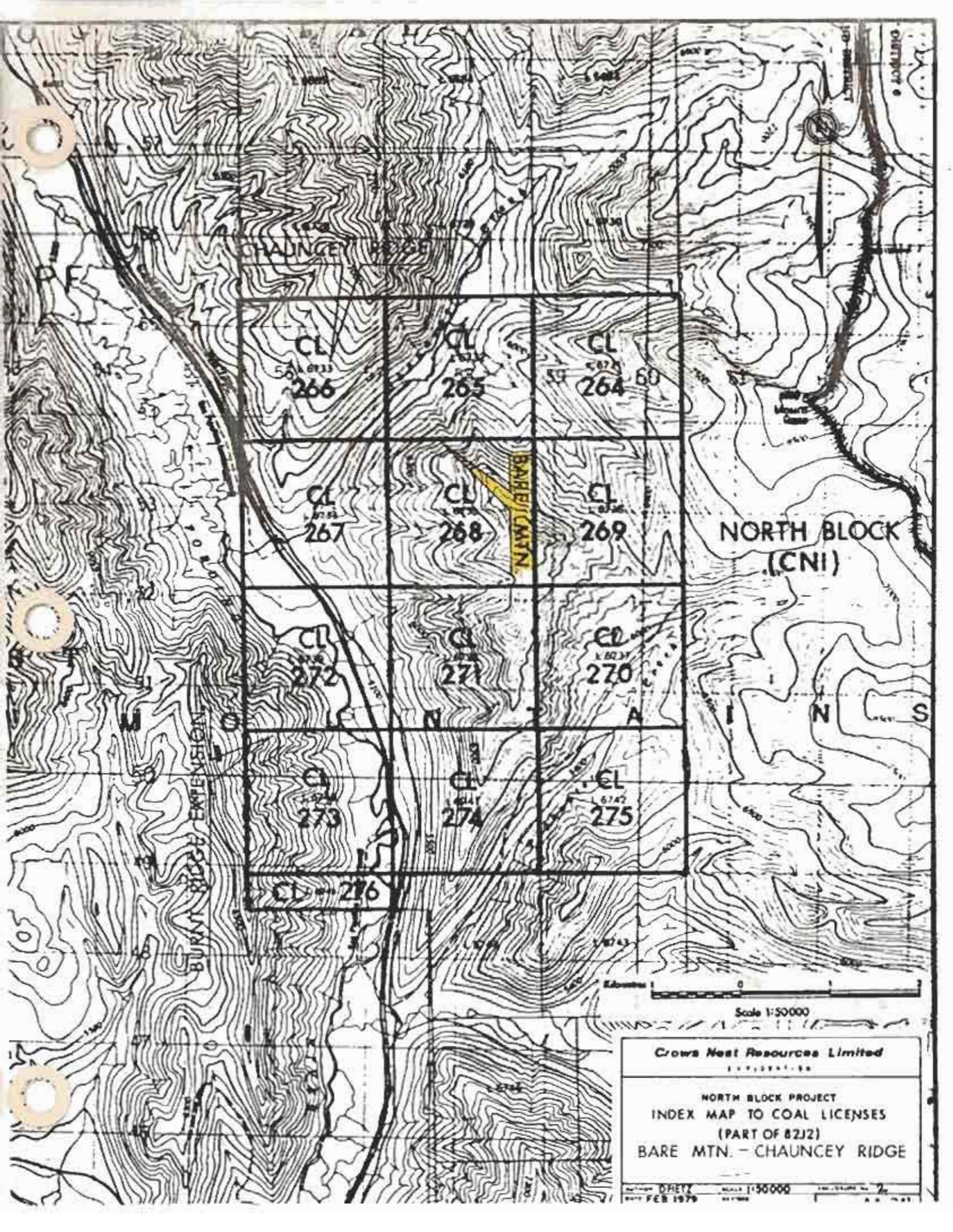
The Fording River Valley has a paved road, owned by Fording Coal Ltd. originating in Elkford 22 km to the southwest, and a C.P.R. spur line at the base of the west slope. Access to Bare Mountain is limited to logging roads on the west flank, which are within the Elk member, a four-wheel drive trail in Chauncey Creek to the base of the north slope and a good logging road in Todhunter Creek accessing the base of the south ridge and east slope.



Crows Nest Resources Limited
 CORPORATION

NORTH BLOCK PROJECT
INDEX MAP TO COAL LICENSES
(PART OF 82J2)
BARE MOUNTAIN PROSPECTS

Author: D. FIETZ
 Date: FEB 1979
 Scale: 1:50000
 File: 82J2
 Date: FEB 1979



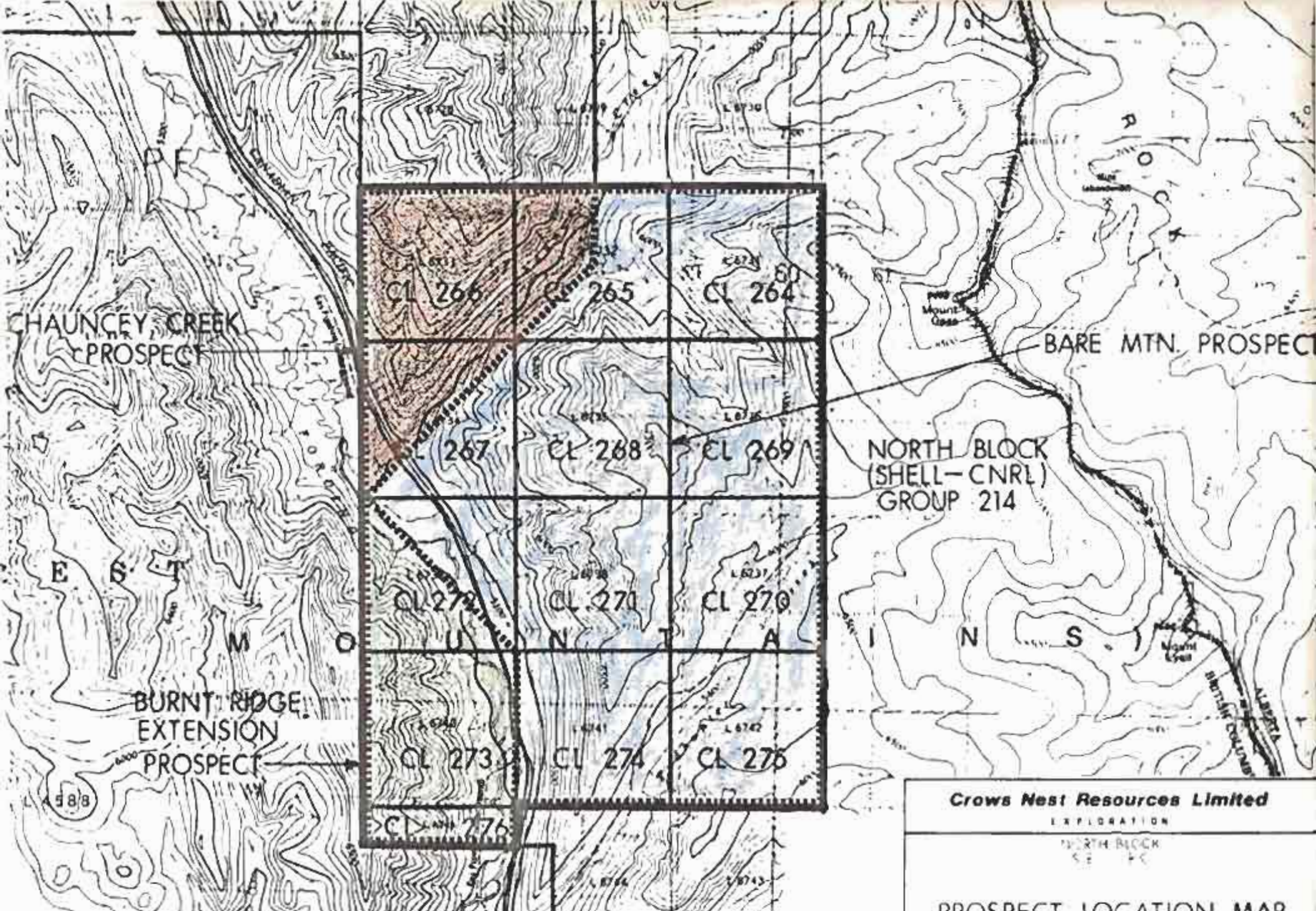
CL 266 574833	CL 265 574834	CL 264 574835
CL 267 574836	CL 268 574837	CL 269 574838
CL 272 574841	CL 271 574842	CL 270 574843
CL 273 574844	CL 274 574845	CL 275 574846
CL 276		

Scale 1:50000

Crows Nest Resources Limited
INCORPORATED

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

AUTHOR: OFETZ
DATE: FEB 1979
SCALE: 1:50000
INSTRUMENT: No. 2
A. S. 1981



LEGEND

XXXXXXXX - PROSPECT BOUNDARY

Crows Nest Resources Limited		
EXPLORATION		
NORTH BLOCK S.E. 1/4		
PROSPECT LOCATION MAP		
AUTHOR: R. P. [unclear]	SCALE: 1" = 500'	ENCLOSURE NO.
DATE: JULY 1971	REVISED:	DRAWING NO. & 792

WORK DONE:

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 geological map (1:10 000) was produced.

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

Scope and Objectives of 1980 Exploration

The objectives of the 1980 programme were:

- produce detailed geological maps of areas of mining potential.
- establish detailed stratigraphic sections and attempt to correlate seams.
- determine seam geometry.
- provide preliminary indication of coal quality by analysis of trench samples.

work Done in 1980

- Orientation mapping.
- Reconnaissance mapping north and west slopes at a scale of 1:5000.
- Stratigraphic and structural control.
- Trenching: 46 trenches for 352.5 m total length.
- Sampling: 57 samples procured; analysis including moisture, ash and F.S.I., proximate analysis plus F.S.I. of a sample washed at a S.G. = 1.50
- Locating a road up the north slope proposed for 1981.
- Location surveys: roads, geological control points and sample locations.

GEOLOGY:

Regional Geology

Enclosure 11: Table of Formations

Enclosure 5: General Geological Map

Bare Mountain is within the Elk Valley Coalfield on the east limb of the Fording Syncline.

Stratigraphy

The late Jurassic - early Cretaceous Kootenay Formation consists of the Moose Mountain, the Coal Bearing Member and the Elk Member in ascending order.

The Moose Mountain Member is a prominent cliff - forming horizon which crops out along the east and north slopes. 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.

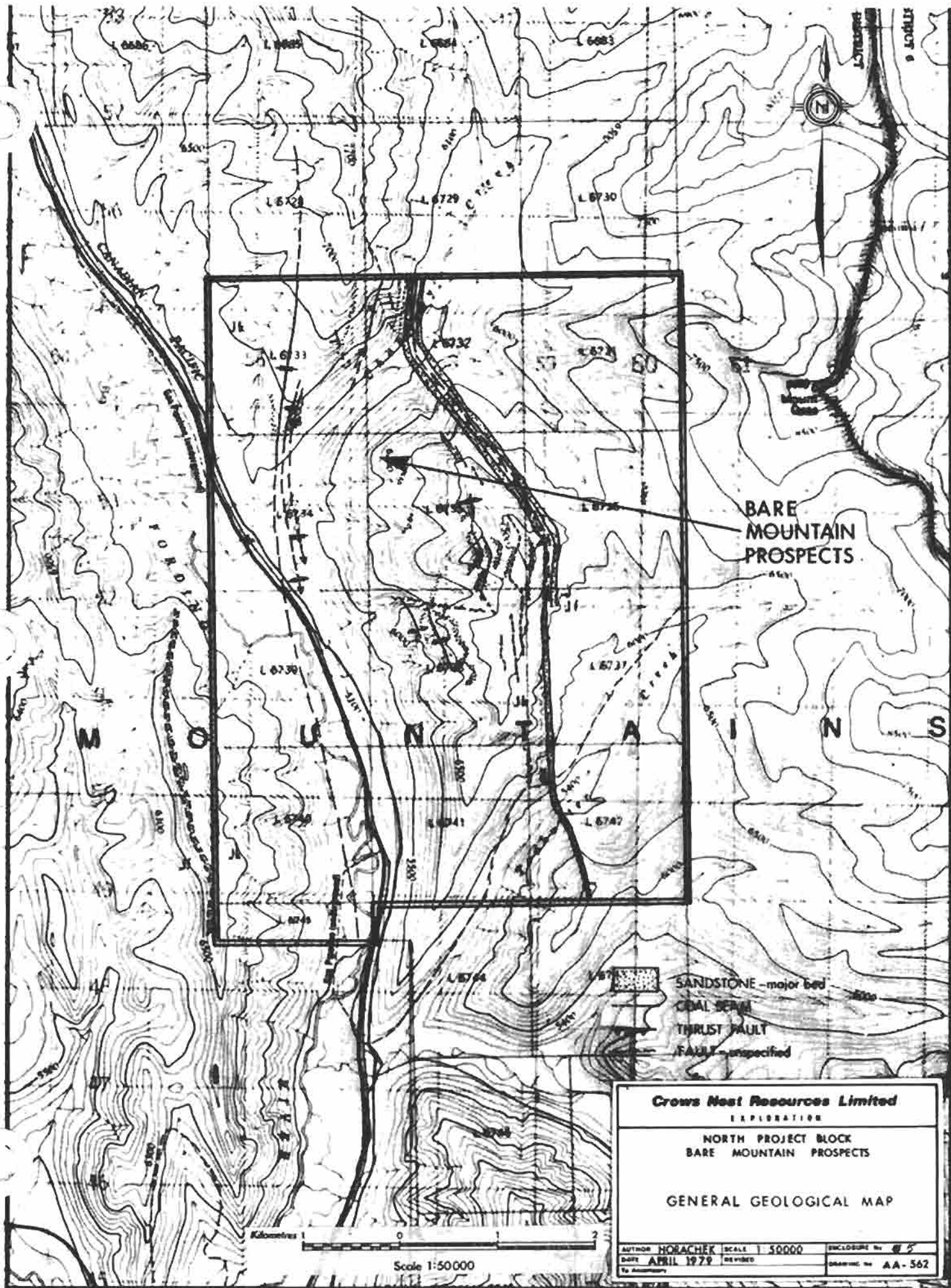
In Bare Mountain the Coal Bearing Member is up to 900 m thick. The section includes sandstones, siltstones, shales and up to 6 coal seams.

The Elk Member is the uppermost member of the Kootenay Formation and consists of prominent sandstones with interbedded siltstones, shales and

minor coal horizons. The first prominent unit above the uppermost major coal seam is commonly conglomerate.

Geological Structure

Bare Mountain is a consistently west-dipping limb of the Fording Syncline. The upper Elk Member is folded and occasionally broken by lateral, normal, faults. The Moose Mountain Member is thrust-repeated numerous times on the extreme eastern edge. The Coal Bearing Member is commonly folded, associated with low angle thrust faults which dip to the west.



**BARE
MOUNTAIN
PROSPECTS**

-  SANDSTONE - major bed
-  COAL BED
-  THRUST FAULT
-  FAULT - unspecified

Crows Nest Resources Limited		
EXPLORATION		
NORTH PROJECT BLOCK BARE MOUNTAIN PROSPECTS		
GENERAL GEOLOGICAL MAP		
AUTHOR HORACHEK	SCALE 1:50000	ENCLOSURE No. 5
DATE APRIL 1979	REVISED	DRAWING No. AA-562
By		

Scale 1:50000

Coal Geology

A detailed description of the seams mapped and their correlation is included:

No. 1 seam - observed and measured at four localities over one kilometer of strike-length. Thrust thickened from 7.0 m at the south to 13.0 m at the most northerly exposure. The north extension of this seam is questionable due to overburden and possibly bedding-plane thrusts terminating the seam.

No. 2 seams - observed at three locations to the northern end of the mountain, a lower coal 5.0 m+ thick, a 25 m split and an upper 6.0 m of coal.

No. 3 seam - observed over the entire mapped area, varying from 7.0 m in the south to a triple seam, 7.5 m coal, 2.0 m shale, 3.0 m coal, 2.5 m shale and 3.5 m coal, near the centre to a contorted seam 8.0 m+ thick in the north.

No. 4 seams - observed over the entire mapped area, varying from 7.5 m in the south, a split seam near the centre, 4.5 m coal, 13 m shale, 5.0 m coal to three seams in the north, 2.0 m coal, 2.0 m shale, 1.5 m coal, 15 m shale, 3.0 m coal.

No. 5 seam - observed at four localities, from 3.2 m in the south to 3.0 m in the north.

No. 6 seam - observed at two locations to the south, varying from 2.7 to 3.1 m thick.

Prominent beds include the Moose Mountain sandstone at the base of the section, a massive sandstone some 10 m below No. 1 seam which shales out to the north, and the base of the Elk Member, a coarse sandstone to conglomerate.

Structural features include a highly complex east edge with up to three thrust-faults repeating the Moose Mountain sandstone, a fault along No. 1 seam and at least two more thrusts above No. 1 - seam. Several right-lateral normal faults are mapped with an east-west orientation and up to 200 m of movement. The upper Elk section is further folded compensating for section thickening upon folding.

MINEABILITY, COAL RESERVES AND QUALITY:

There has not been enough exploration done to assess mineability. Four seams ranging in thickness from 5.0 to 10.0 m+ and their accessibility from lower elevations indicate potential for a good underground hydraulic project. No attempt was made to calculate coal reserves as an applicable mining technique is not determined.

Fifty-seven hand trench samples were taken. Their analysis is not yet completed and will be registered at the end of the subsequent term. Medium volatile bituminous raw quality is expected.

COAL QUALITY:

Fifty-seven samples were procured, all from trenches dug by hand. Generally, the samples are considered to be valid in raw ash content, though one set of trench samples was washed.

Enclosure 12 summarizes the coal quality and includes an average thickness and analysis per seam.

RECOMMENDATIONS FOR FURTHER WORK:

Preliminary exploration on Bare Mountain indicates the potential for a good underground hydraulic project.

Further work should be directed to:

- determine the distribution of coal on the north end of the mountain.
- determine the structure
- determine the coal quality

Method of exploration:

- drilling is necessary to locate the down dip extension of the coal.
- on the lower, forested, slopes drilling can be on roads while on the upper grassy slopes drilling will have to be helicopter-supported.

PREVIOUS REPORTS AND SELECTED BIBLIOGRAPHY

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

Gibson, D.W., 1977. Sedimentary Facies in the Jura-Cretaceous Kootney Formation, Crownest 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.

TABLE OF FORMATIONS

	PERIOD OR EPOCH	FORMATION	LITHOLOGY	THICKNESS (m)	
ERA	Lower Cretaceous	Cadomin Fm.	non-marine: sandstone, conglomerate and shale	100 - 150	
		Pocaterra Creek Member	non-marine: sandstones, conglomerate siltstone & shale	100 - 150	
	MESOZOIC	KOOTENAY FORMATION	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 - 300		

..... after GIBSON 1977; PRICE 1961, 1963

BAF MOUNTAIN
COAL QUALITY SUMMARY

ENCLOSURE 12

SI AM	SAMPLE NO.	(in) THICKNESS	RAW COAL (A.D.B.)			CLEAN COAL (A.D.B.) 1.5 FLOAT					
			MOISTURE	ASH %	F.S.I.	MOISTURE	ASH %	V.M %	F.C. %	F.S.I.	YIELD %
No. 1	BDB 1B S	7.0	2.28	15.39	0						
	BDB 1 S	10.0	3.18	22.89	0						
	BDB 2,3,4,5	11.2	1.86	24.26	0	3.91	5.58	24.07	65.42	0	49.5
	BDB 5,6,7,8	13.0	2.35	28.45	0						
Avg.		10.3	2.54	20.25	0						
No. 2	BDB 9S	5.9	2.80	19.48	0						
	BDB 10S	4.5	3.65	17.42	0						
	BDB 11S	(*1)	4.31	21.99	0						
	BDB 53S	7.0	2.91	21.10	0						
	BDB 38S	2.3	4.55	18.79	0						
	BDB 29S	6.6	2.55	16.43	0						
	BDB 42S	2.8	4.18	35.05	0						
Average of (9, 10)		5.2	3.50	21.47	0						
No. 3	BDB 12S	7.4	3.30	22.23	0						

BA' MOUNTAIN
COAL QUALITY SUMMARY

SL. NO.	SAMPLE NO.	(in) THICKNESS	RAW COAL (A.D.B.)			CLEAN COAL (A.D.B.) 1.5 FLOAT
			MOISTURE %	ASH %	F.S.I.	
1	00B 205	6.7	3.26	21.11	0	
	00B 355	7.4	3.02	27.61	0	
	00B 345	3.0	4.61	13.63	0	
	00B 325	3.4	3.94	21.54	0	
	00B 125	2.0	3.95	11.72	0	
	00B 135	5.9	2.20	14.60	0	
	00B 145	2.2	2.11	21.83	0	
	00B 535	11.0	3.04	10.45	0	
<hr/>						
Avg. No. 1		4.8	3.26	17.81	0	

TABLE 2

OX MOUNTAIN
COAL QUALITY SUMMARY

<u>SEAM</u>	<u>SAMPLE NO.</u>	<u>(m)</u> <u>TRUE</u> <u>THICKNESS</u>	<u>RAW COAL (A.D.B.)</u>			<u>CLEAN COAL (A.D.B.) 1.5 FLOAT</u>
			<u>%</u> <u>MOISTURE</u>	<u>%</u> <u>ASH</u>	<u>F.S.I.</u>	<u>%</u>
	BOB 235	4.3	2.06	17.49	0	
Area 4	BOB 215	5.6	3.11	18.78	0	
	BOB 225	3.4	2.38	10.06	0	
	BOB 325	4.3	4.13	20.03	0	
	BOB 315	5.0	4.09	24.05	0	
	BOB 175	1.7	3.60	15.73	0	
	BOB 185	1.3	2.54	30.51	0	
	BOB 545	3.4	2.29	13.76	0	
	BOB 545	27.8	2.98	10.50	0	
Area 4		4.0 (excluding 545)	3.02	19.47	0	

continued

BE MOUNTAIN

COAL QUALITY SUMMARY

No.	SAMPLE NO.	(in) THICKNESS	RAW COAL (A.O.B.)			CLEAN COAL (A.O.B.) 1.5 FLOAT
			% MOISTURE	ASH %	F.S.T.	%
No. 5	HUB 245	3.2	2.15	30.28	0	
	HUB 285	2.9	4.21	15.19	0	
	HUB 275	2.8	4.60	16.20	0	
	HUB 295, 305	5.2 0.50 1.7	3.89	18.80	0	
	HUB 375	2.9	3.88	15.48	0	
Avg. No. 5		3.5	3.63	19.19	0	
No. 6	HUB 265	2.7	1.29	12.41	0	
	HUB 295	3.1	4.36	21.25	0	
Avg. No. 6		2.9	3.03	16.84	0	

APPLICATION TO EXTEND TERM OF LICENCE

1. I wish to apply to the Minister to extend the term of Coal Licence(s) No(s) 264 to 276 Inclusive to 276 to 278 Inclusive for a further period of one year.

2. I wish to apply to the Minister to extend the term of Coal Licence(s) No(s) 264 to 276 Inclusive to 276 to 278 Inclusive for a further period of one year.

3. I wish to apply to the Minister to extend the term of Coal Licence(s) No(s) 264 to 276 Inclusive to 276 to 278 Inclusive for a further period of one year.

4. I wish to apply to the Minister to extend the term of Coal Licence(s) No(s) 264 to 276 Inclusive to 276 to 278 Inclusive for a further period of one year.

CATEGORY OF WORK	Licence(s) No(s)	Appropriated Cost
Geological mapping	264 - 276 Incl.	\$102,962.07
Surveys: Geophysical		
Geochemical		
Other - Geodesic	264 - 276, 276	18,900.00
Road construction		
Surface work - Trench	274, 275	10,185.95
Underground work		
Drilling		
Logging, sampling, and testing	264 to 276, 276	4,930.00
Reclamation	274, 275	Included in Surface Work
Other work (specify)		
Off property costs		13,524.98

5. I wish to apply \$ 172,422.98 of the 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) 264 to 276 Incl.

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

1981.01.28

[Signature]
 LAND SURVEYOR
 (REGISTERED)

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	IPERIPD 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	
				Cost	

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. J. Kowalski
(Signature)

Manager - Accounting CNRL
(Position)

E. Still-Bare Mountains 80(3)A

373/2
MAPS
Bare Mountain
R. J. MORRIS
April 1981

374

COPREND ENDEAL

GEOLOGICAL BRANCH
ASSESSMENT REPORT

00 374

Date: DECEMBER 7, 1980

To: CROWNEST RESOURCES LIMITED (CNRL)

From: SHELTECH CANADA

Subject: NORTH BLOCK 4051M S.E. BRITISH COLUMBIA
REPORT ON LOCAL AND SURVEY

All survey work done in the North Block area was based on the Crownest 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 Crownest 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.

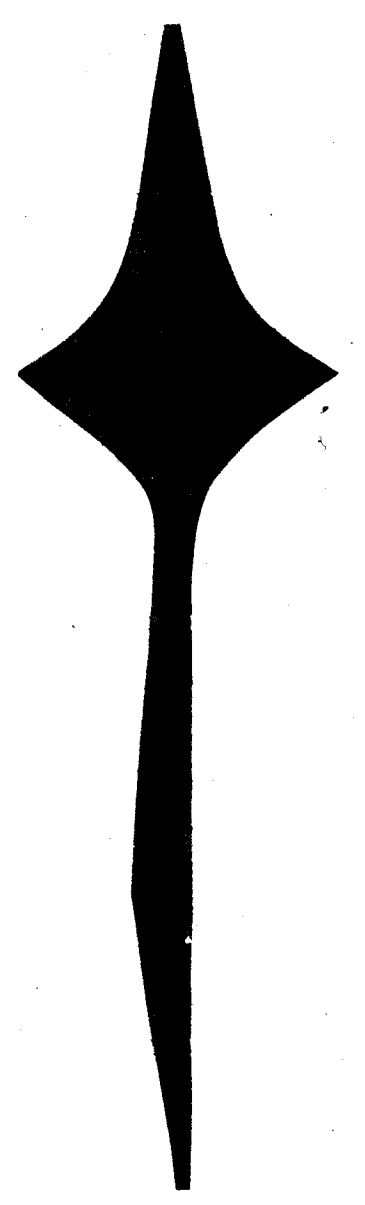
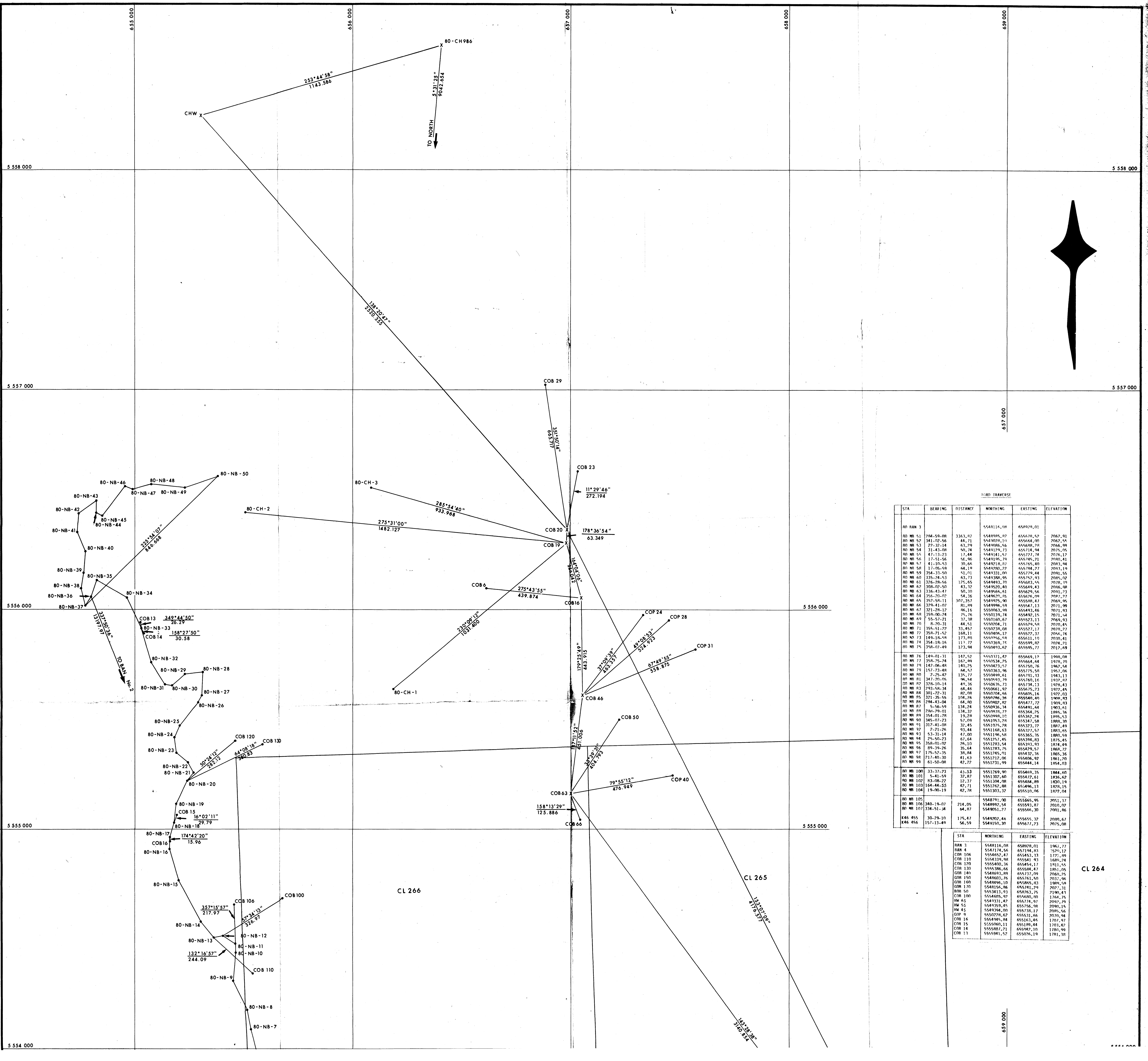
The survey cost attributed to the North Block area was approximately \$17,800.



D. Poulson

BK:sn

374



STA	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
RD BAN 3			5548116.08	658928.01	
RD NB 51	294-59.08	3361.87	5548995.82	65678.42	2062.91
RD NB 52	341-02.56	44.71	5549022.10	65664.00	2062.55
RD NB 53	272-32.14	63.29	5549088.44	65660.28	2062.90
RD NB 54	31-43.08	50.74	5549179.73	65714.04	2075.05
RD NB 55	47-13.23	17.44	5549181.57	65777.74	2076.12
RD NB 56	17-51.56	46.96	5549198.79	65745.71	2080.41
RD NB 57	41-10.53	30.66	5549218.82	65765.40	2083.84
RD NB 58	17-05.59	64.19	5549280.27	65794.27	2091.19
RD NB 59	334-31.50	51.01	5549331.09	65779.44	2091.56
RD NB 60	335-24.53	63.73	5549398.95	65752.93	2085.02
RD NB 61	376-26.56	175.65	5549483.79	65683.44	2078.10
RD NB 62	308-02.50	43.32	5549520.40	65649.43	2086.58
RD NB 63	336-43.47	50.30	5549564.51	65629.56	2091.23
RD NB 64	356-20.07	54.36	5549620.75	65616.09	2097.27
RD NB 65	352-58.11	107.357	5549825.90	65588.47	2069.95
RD NB 66	329-41.07	81.89	5549886.59	65554.13	2071.99
RD NB 67	321-26.17	106.16	5550063.99	65543.46	2071.93
RD NB 68	359-00.24	76.76	5550339.74	65492.15	2071.44
RD NB 69	55-57.21	37.39	5550160.67	65523.13	2069.43
RD NB 70	8-29.31	44.51	5550208.71	65529.58	2070.45
RD NB 71	355-51.22	33.457	5550238.08	65527.17	2070.27
RD NB 72	358-21.52	169.11	5550306.12	65522.37	2076.26
RD NB 73	149-18.58	173.89	5550266.48	65511.10	2070.41
RD NB 74	354-18.16	111.72	5550364.25	65509.82	2074.21
RD NB 75	358-07.49	123.94	5550431.62	65505.77	2072.69
RD NB 76	149-01.31	147.52	5550371.42	65569.12	1998.08
RD NB 77	358-25.24	162.89	5550338.25	65564.64	1970.20
RD NB 78	142-06.48	140.25	5550423.57	65570.76	1962.54
RD NB 79	157-23.48	64.57	5550363.96	65575.58	1957.06
RD NB 80	2-25.47	135.77	5550405.41	65578.13	1943.13
RD NB 81	347-20.05	96.54	5550503.79	65570.16	1932.87
RD NB 82	378-10.14	49.36	5550638.73	65571.84	1924.43
RD NB 83	293-58.34	64.46	5550661.82	65575.23	1922.48
RD NB 84	301-22.31	82.08	5550704.56	65569.16	1922.03
RD NB 85	321-35.55	104.26	5550786.36	65560.40	1909.83
RD NB 86	284-43.04	64.80	5550802.82	65577.72	1909.83
RD NB 87	5-56.59	134.24	5550936.34	65481.64	1903.41
RD NB 88	286-29.01	134.32	5550978.75	65484.24	1895.26
RD NB 89	354-01.28	19.28	5550988.10	65362.24	1895.53
RD NB 90	345-07.23	57.00	5551053.28	65347.58	1891.39
RD NB 91	317-41.08	32.45	5551074.28	65323.22	1891.49
RD NB 92	2-21.26	93.44	5551168.63	65327.57	1883.45
RD NB 93	53-31.14	47.00	5551246.48	65335.16	1880.59
RD NB 94	25-50.23	67.64	5551257.45	65334.83	1875.45
RD NB 95	358-01.02	26.10	5551283.54	65333.93	1874.49
RD NB 96	89-39.26	35.64	5551283.75	65349.57	1860.72
RD NB 97	175-52.35	38.84	5551245.01	65342.16	1865.36
RD NB 98	211-40.30	41.63	5551212.06	65340.92	1861.20
RD NB 99	81-50.08	42.27	5551231.99	65344.14	1854.03
RD NB 100	33-37.23	45.53	5551269.99	65340.25	1844.49
RD NB 101	5-41.59	32.87	5551302.60	65342.61	1844.49
RD NB 102	83-08.22	12.37	5551304.08	65344.89	1830.19
RD NB 103	164-44.55	42.21	5551262.89	65346.13	1826.15
RD NB 104	19-00.19	42.78	5551303.32	65350.06	1822.04
RD NB 105			5548791.00	65365.95	2051.37
RD NB 106	340-19.07	214.05	5548992.54	65353.87	2010.02
RD NB 107	334-51.34	64.87	5549051.27	65356.30	2001.86
RD NB 108	30-29.10	175.47	5549202.46	65365.32	2000.67
RD NB 109	157-13.49	56.59	5549150.39	65367.73	2005.08

STA	NORTHING	EASTING	ELEVATION
BAN 3	5548116.08	658928.01	1967.77
COB 106	5547174.56	657194.83	1920.12
COB 107	554652.47	65453.13	172.89
COB 110	5544339.98	65544.17	1689.24
COB 120	555400.36	65454.17	1811.54
COB 130	555386.66	65584.47	1851.05
COB 140	5548682.89	65377.00	2061.26
COB 150	5548603.76	65761.50	2057.21
COB 160	5548496.10	65695.83	1989.59
COB 170	5548196.96	65701.29	2027.21
COB 50	5553413.93	65823.75	2190.43
COB 100	5544695.49	65680.80	2047.76
HW 45	5549331.42	65577.97	2095.28
HW 55	5549359.45	65576.98	2090.15
HW 65	5549394.00	65573.17	2095.56
GDP 9	5550228.62	65531.66	2070.94
COB 16	5554944.84	65513.46	1707.97
COB 15	5555060.11	65519.44	1703.42
COB 14	5555887.21	65502.10	1780.49
COB 13	5555941.52	65506.19	1781.38

CL 264

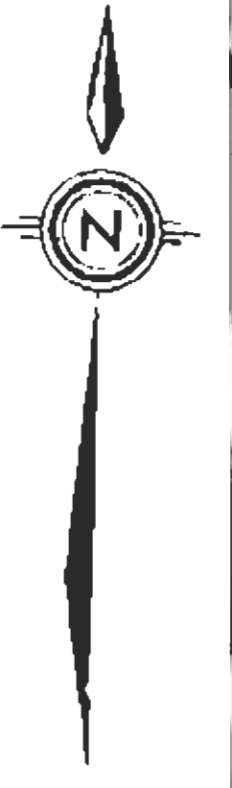
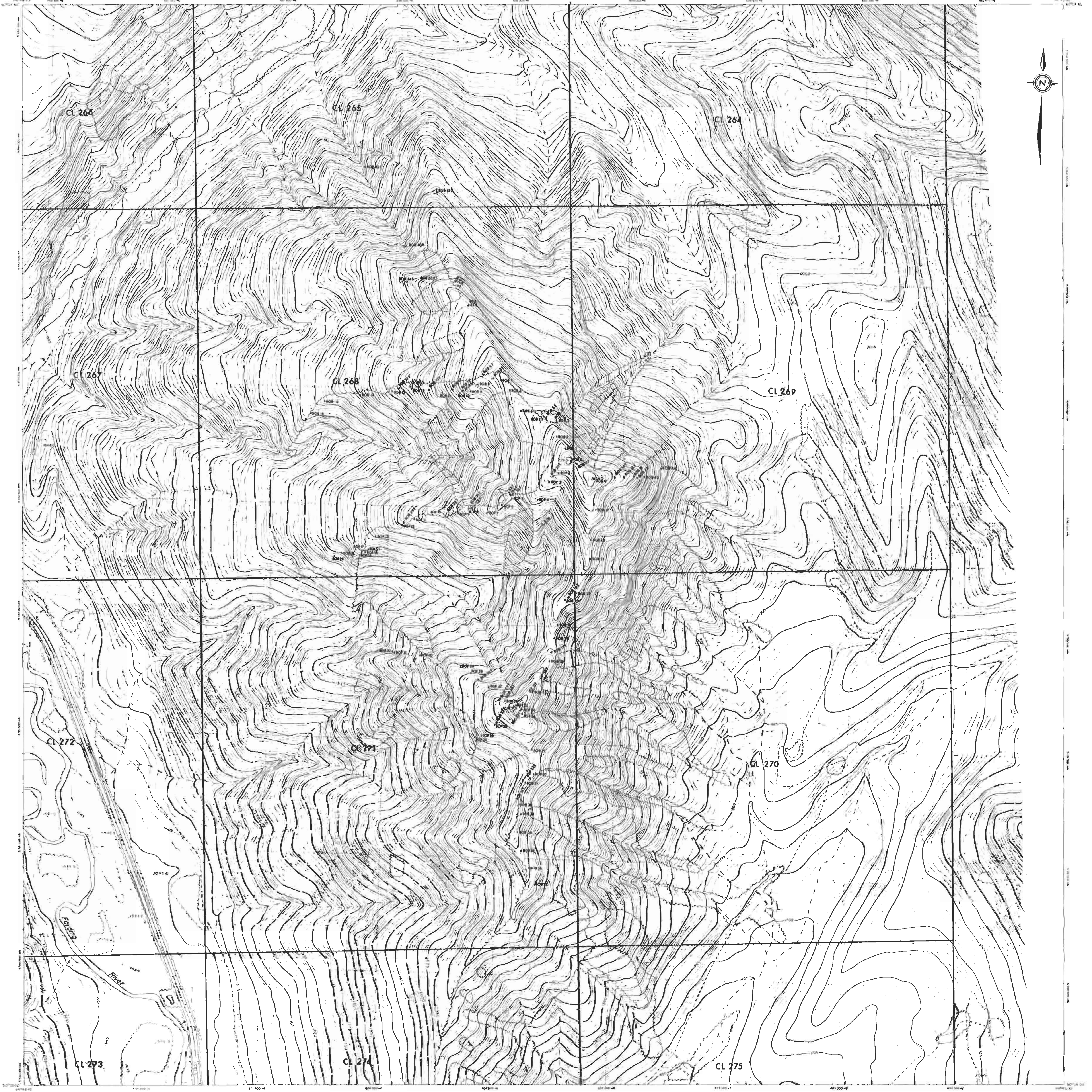
CL 266

CL 265

CL 263

659 000

5 554 000



MAP INDEX AND AERIAL PHOTO INDEX 82J/2 1:50 000

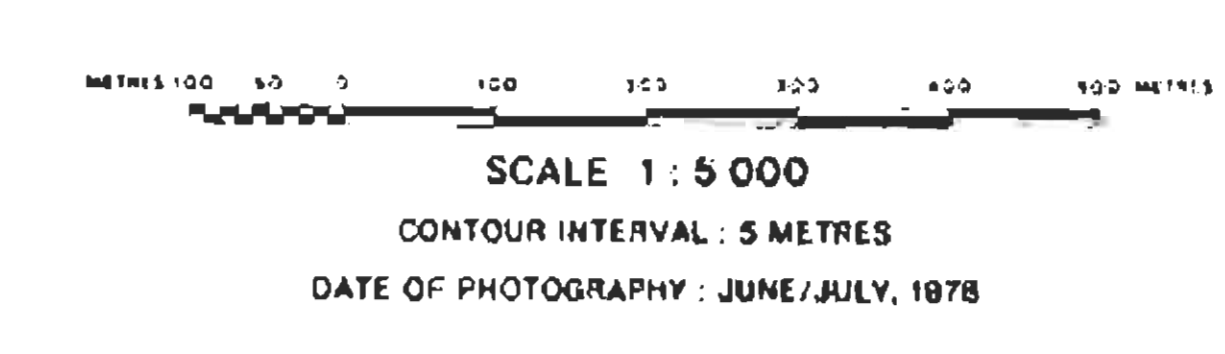
REFERENCE	
UNION RIVER	WATER LAKE
BOUNDARY ROAD	ROADWAY (NOT SHOWN)
ROAD (DASHED)	RAILROAD
RAILROAD	LINE OF TREES
MEDIA FENCE	BOUNDING STRIP
BOUNDARY CROWN	VERTICAL SURFACE
OUTFILL	DEPRESSION
GRAVEL	CONTROL POINT

MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
CENTRAL MERIDIAN REFERENCE: 111° W

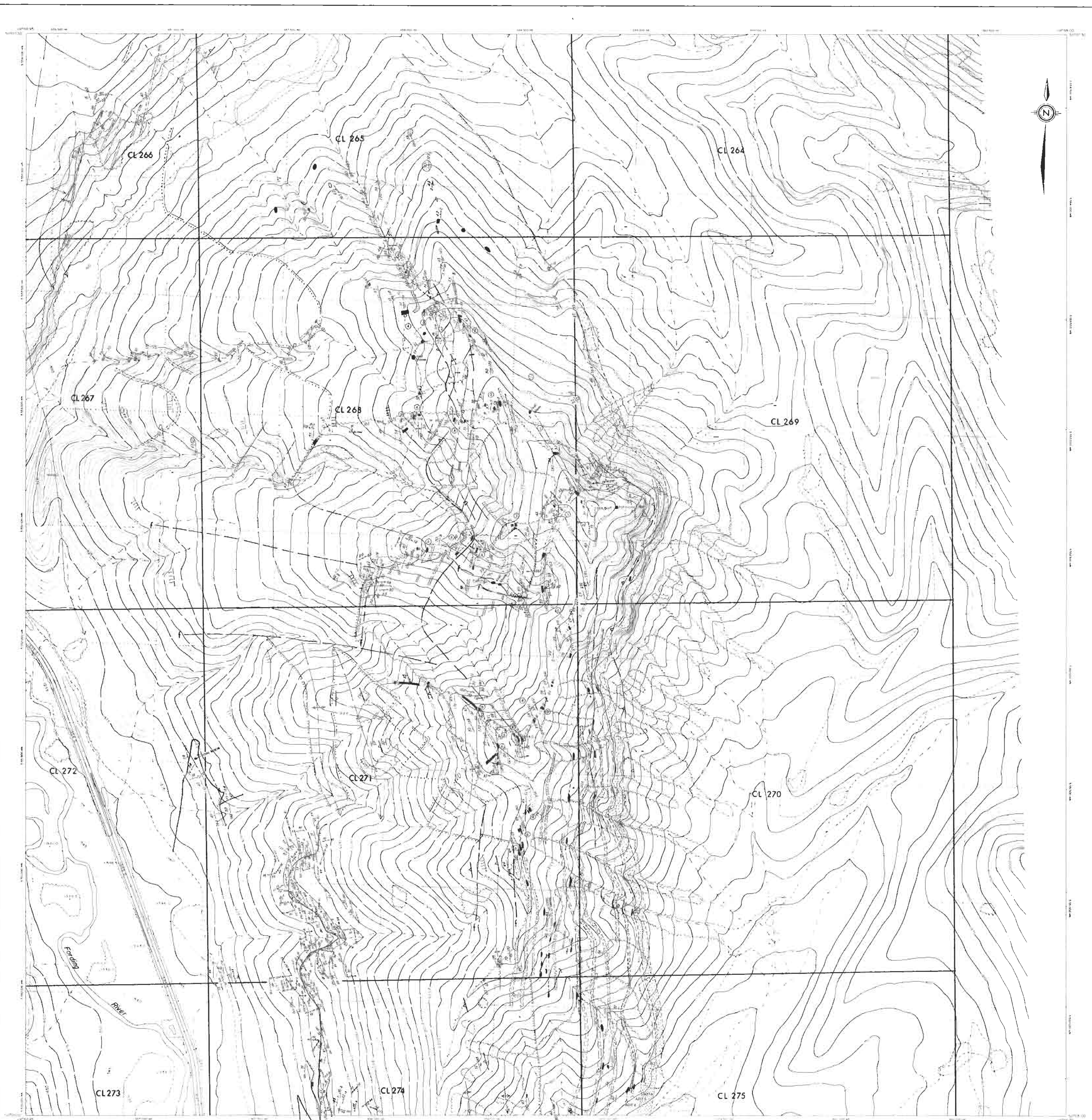
PREPARED BY
NORTH WEST SURVEY CORPORATION (YUKON) LTD

LEGEND

- SURVEY POINTS
- TRENCH & NUMBER (T)
- TRENCH & SAMPLE (S)



Crows Nest Resources Limited		
EXPLORATION		
CHAUNCEY RIDGE (MAPS 3 of 3)	SE. B.C.	BARE MOUNTAIN (MAPS 1 of 1)
GENERAL INFORMATION BASE MAP		
374		
AUTHOR: J. MORSE	SCALE: 1:5 000	ENCLOSURE NO. 1
DATE: APRIL 1981	REVISION:	DRAWING NO. HD-37B
To: Company		



MAP INDEX AND AERIAL PHOTO INDEX 823/3 1:50,000

REFERENCE

MAIN ROAD	WATER LAKE	COVERED POINT
SECONDARY ROAD	INTERIOR TURTLE SHELL	
TRAIL OR TRACK	TRUCK MARK	
RAILWAY	LINE OF TREES	
HOUSE FENCE	INDIVIDUAL TREE	
BRIDGE TOWER	VERTICAL INTERVAL	
OFF ROAD	WINDROCK	
SWAMP	SPOT HEIGHT	
IMPOSSIBLE		

MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
CENTRAL MERIDIAN REFERENCE 117° W

PREPARED BY
NORTH WEST SURVEY CORPORATION (YUKON) LTD

LEGEND

SPARK NUMBERS	BEDDING ATTITUDE
ROADS	JOINT ATTITUDE
AIR PHOTO INTERPRETATION	SURFACE STRATIGRAPHY
GEOLOGICAL CONTACT OBSERVED, INFERRED	ANTICLINE
ROAD GEOLOGY REPRESENTED BY SMALL PLACES SEPARATING VERTICULES	SYNCLINE
THRUST FAULT	
NORMAL FAULT	
COAL	
SANDSTONE	
SILTSTONE	
SHALE	
CONGLOMERATE	

SCALE 1:5000
CONTOUR INTERVAL 5 METRES
DATE OF PHOTOGRAPHY: JUNE/JULY, 1978

Crows Nest Resources Limited
EXPLORATION

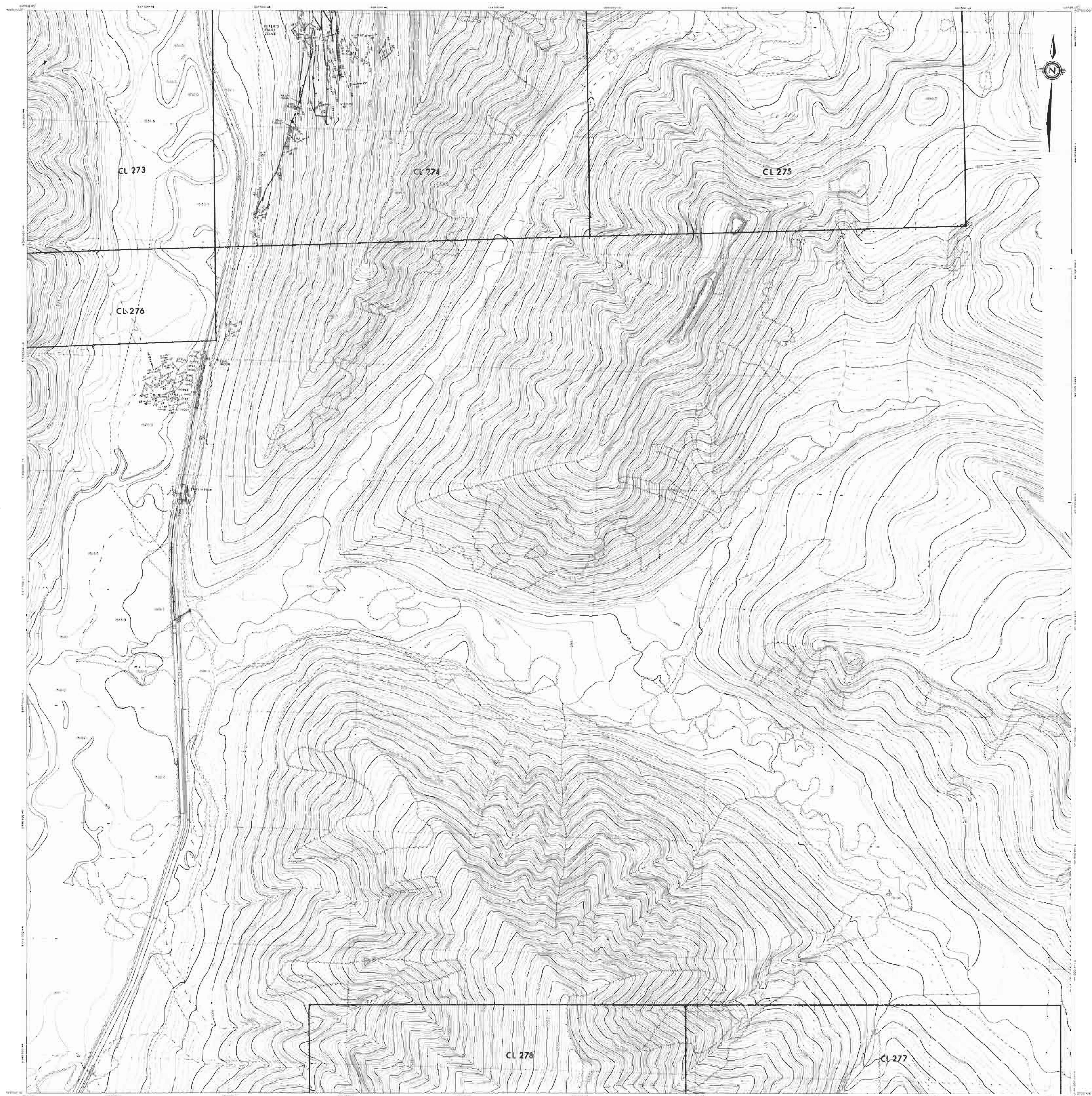
CHAUNCEY RIDGE SE BC BARE MOUNTAIN
[MAP 4 of 4] [MAP 1 of 2]

GEOLOGY BASE

374

AUTHOR: S. WOODS	SCALE: 1:5000	ENCLOSURE No. 7
DATE: APRIL 1981	REVISED:	DRAWING No. HD-73
To Accompany:		

S. Woods and Associates 1981



MAP INDEX AND
AERIAL PHOTO INDEX

93M2
1:50 000

REFERENCE	
	RIVER BANK
	SECONDARY ROAD
	ROAD ON TRAIL
	RAILWAY
	WATERCOURSE
	MINING CONTOUR
	SWAMP
	SPOT HEIGHT
	CONTROL POINT
	RIVER BANK
	INTERSECTING ROAD
	TRENCH AREA
	LINE OF TRENCH
	INTERSECTING ROAD
	RAILWAY
	SWAMP
	SPOT HEIGHT
	CONTROL POINT

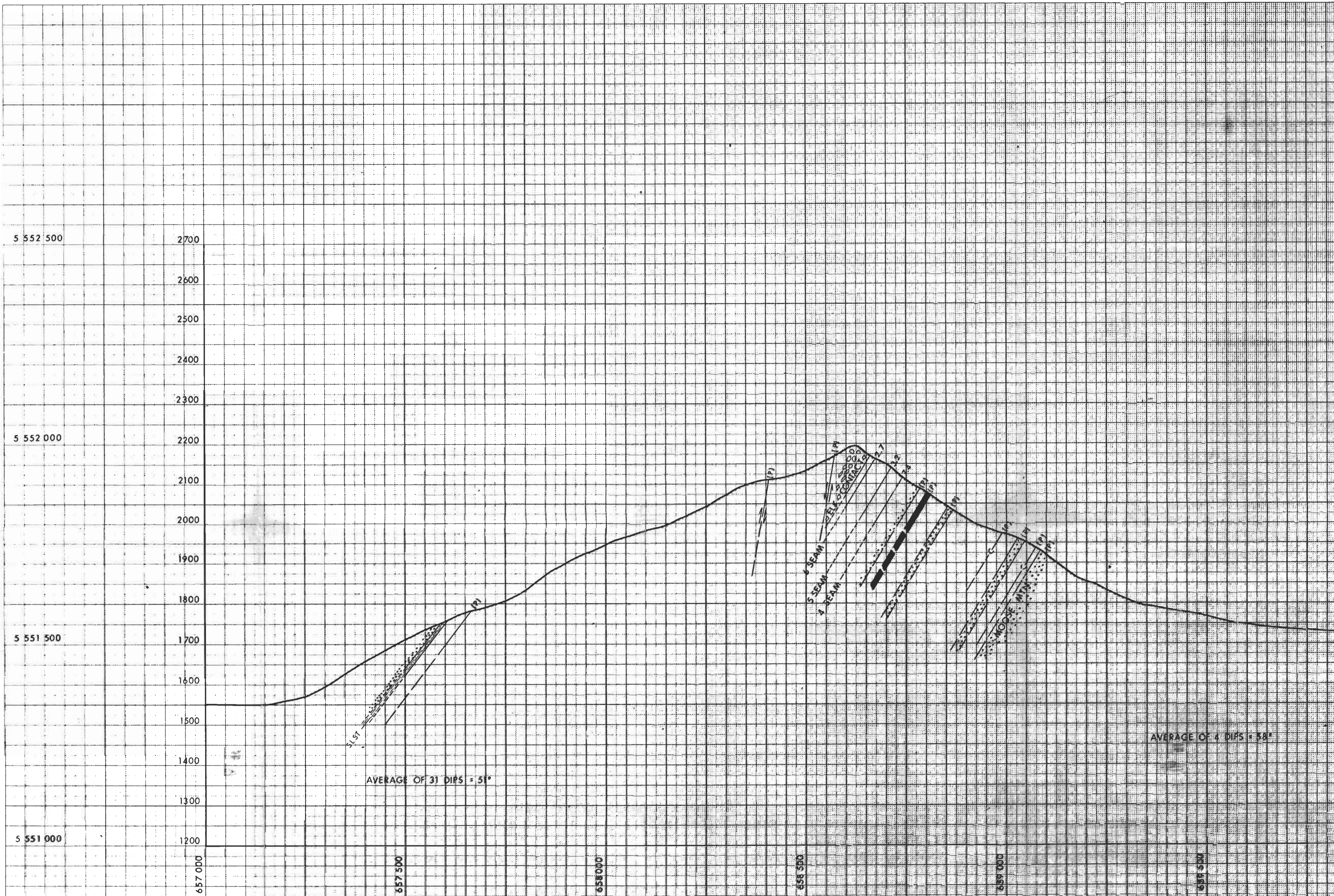
MAP PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
CENTRAL MERIDIAN REFERENCE: 93° W


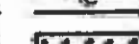
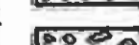

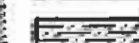

PREPARED BY
NORTH WEST SURVEY CORPORATION (YUKON) LTD.

LEGEND	
	SEAM NUMBER
	ROAD
	AERIAL PHOTO INTERPRETATION
	GEOLOGICAL CONTACT (UNCONFORMITY, WEDGEO, BRASH, DEPOSIT, STRATIGRAPHIC, OR SMALL SLASHES SEPARATING TERRACES)
	THRUST FAULT
	NORMAL FAULT
	CONTOUR
	SANDSTONE
	SILTSTONE
	SHALE
	CONGLOMERATE
	BEDROCK ATTITUDE
	JOINT ATTITUDE
	STRIKE-SLIP, TENSION
	ANTICLINE
	SYNCLINE

SCALE 1:5 000
CONTOUR INTERVAL: 5 METRES
DATE OF PHOTOGRAPHY: JUNE/JULY 1978

Crows Nest Resources Limited		
EXPLORATION		
BARE MOUNTAIN S.E. BC (MAP 2 of 2)		
GEOLOGY BASE		
374		
AUTHOR: D. HERR	SCALE: 1:5000	FIGURE NO: 7
DATE: APRIL 1981	REVISED:	DRAWING NO: HK-23E
To Accompany:		



- LEGEND**
-  — COAL
 -  — SANDSTONE
 -  — CONGLOMERATE
 -  — SHALE
 -  — SILTSTONE (SLST)
 -  (P) — AERIAL PHOTO INTERPRETATION

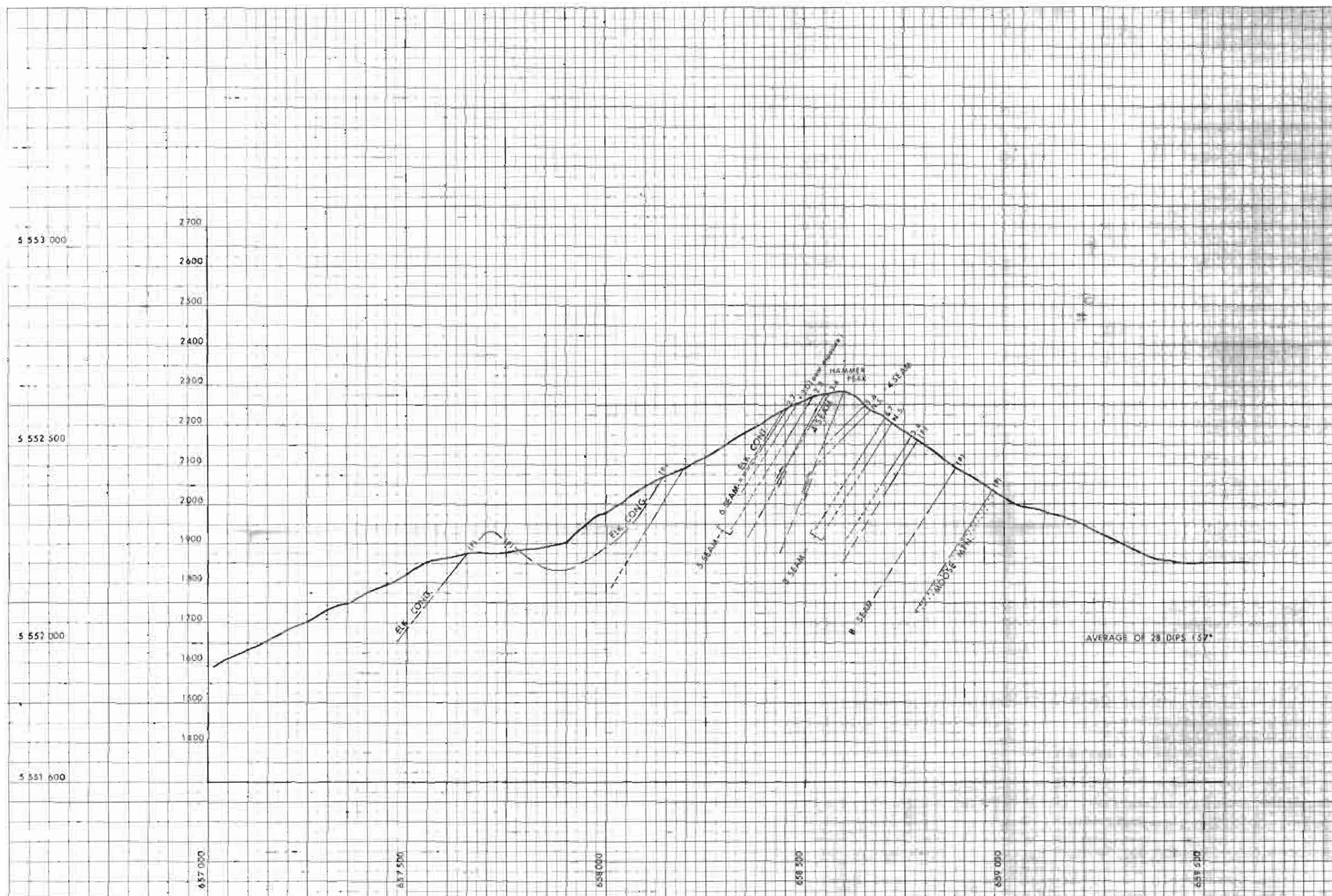
Crows Nest Resources Limited
EXPLORATION
BARE MOUNTAIN
NORTH-CENTRAL B.C.


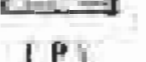

STRUCTURAL CROSS-SECTION
5 551 000 N

AUTHOR: R. J. MORRIS	SCALE: 1:50 000	ENCLOSURE No: 3-1
DATE: BT 03	REVISED:	DRAWING No: HJ-72
To Accompany		

374

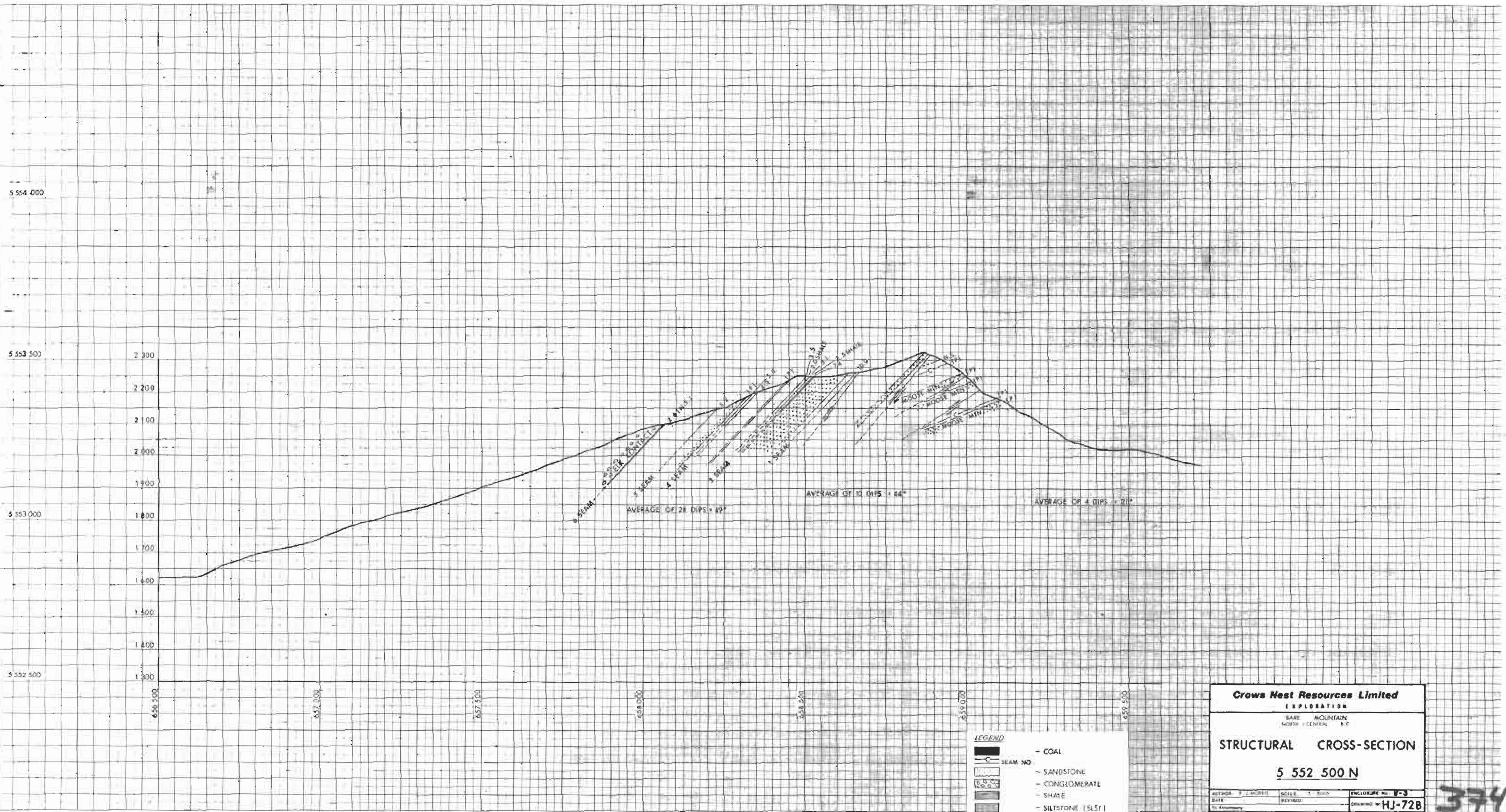
K-Spade Road, Vancouver, B.C.



- LEGEND**
-  - COAL
 -  - SANDSTONE
 -  - CONGLOMERATE
 -  - SHALE
 -  - SILTSTONE (SLST)
 -  - AERIAL PHOTO INTERPRETATION
 -  - NO SAMPLE
- IP - AERIAL PHOTO INTERPRETATION
N.S. - NO SAMPLE

Crows Nest Resources Limited		
EXPLORATION		
BARE MOUNTAINS NORTH CENTRAL ICG		
STRUCTURAL		CROSS-SECTION
5 551 600 N		
DATE 8/03	SCALE 1:5000	ENCLOSURE No. 8-2
BY [Signature]	DRAWN BY HJ-72A	

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- LEGEND**
- COAL
 - SEAM NO
 - SANDSTONE
 - CONGLOMERATE
 - SHALE
 - SILTSTONE (SLST)
 - AERIAL PHOTO INTERPRETATION
 - NO SAMPLE

Crows Nest Resources Limited
EXPLORATION

BARE MOUNTAIN
NORTH CENTRAL A.C.

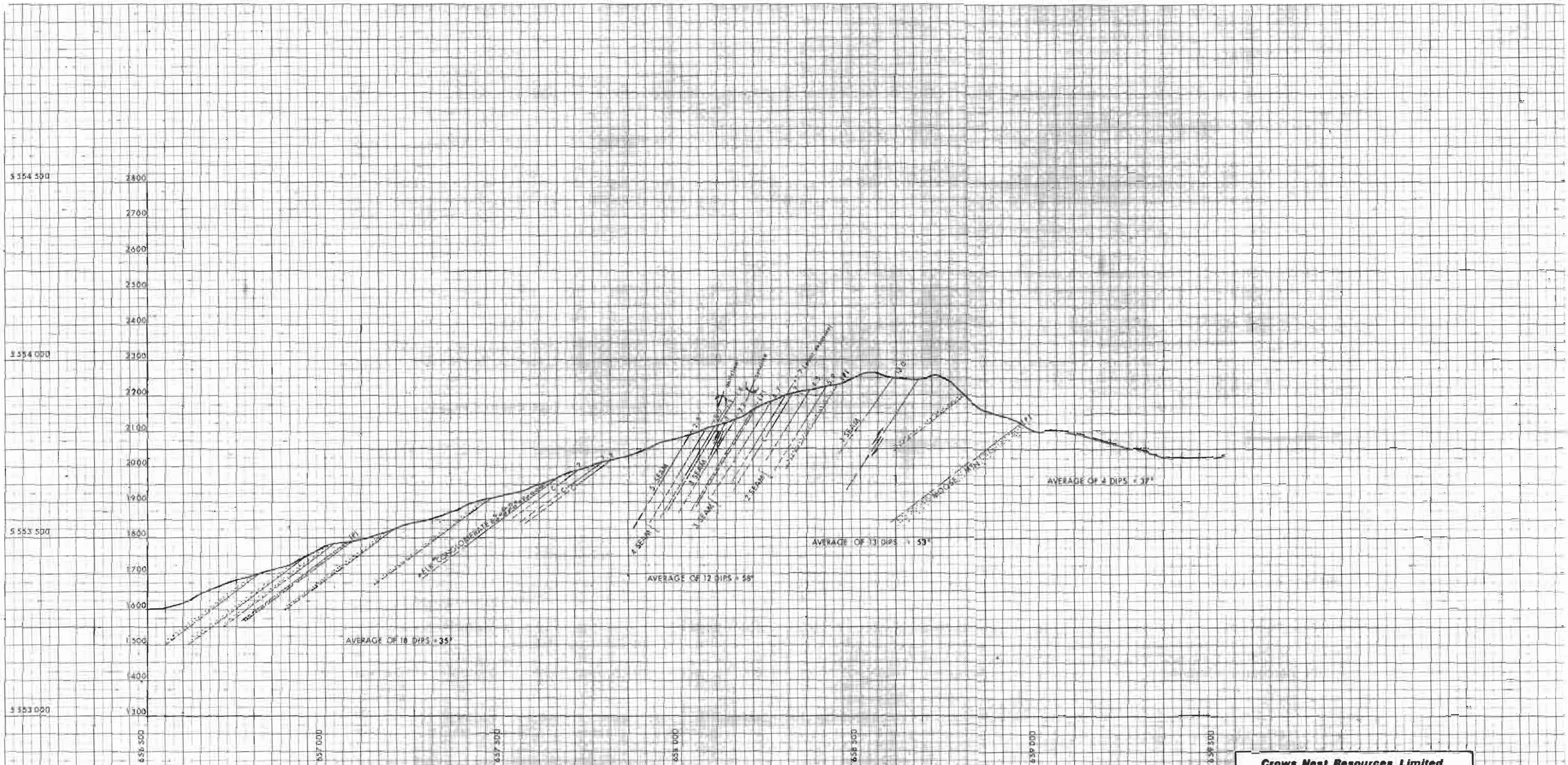
STRUCTURAL CROSS-SECTION

5 552 500 N

AUTHOR: P. J. MORRIS	SCALE: 1:5000	ENCLOSURE NO: 8-3
DATE:	REVISED:	DRAWING: HJ-728

374

1:5000 - FROM STRATIGRAPHY SHEET 209



LEGEND

	COAL
	SANDSTONE
	CONGLOMERATE
	SHALE
	SILTSTONE
	AERIAL PHOTO INTERPRETATION

(P)

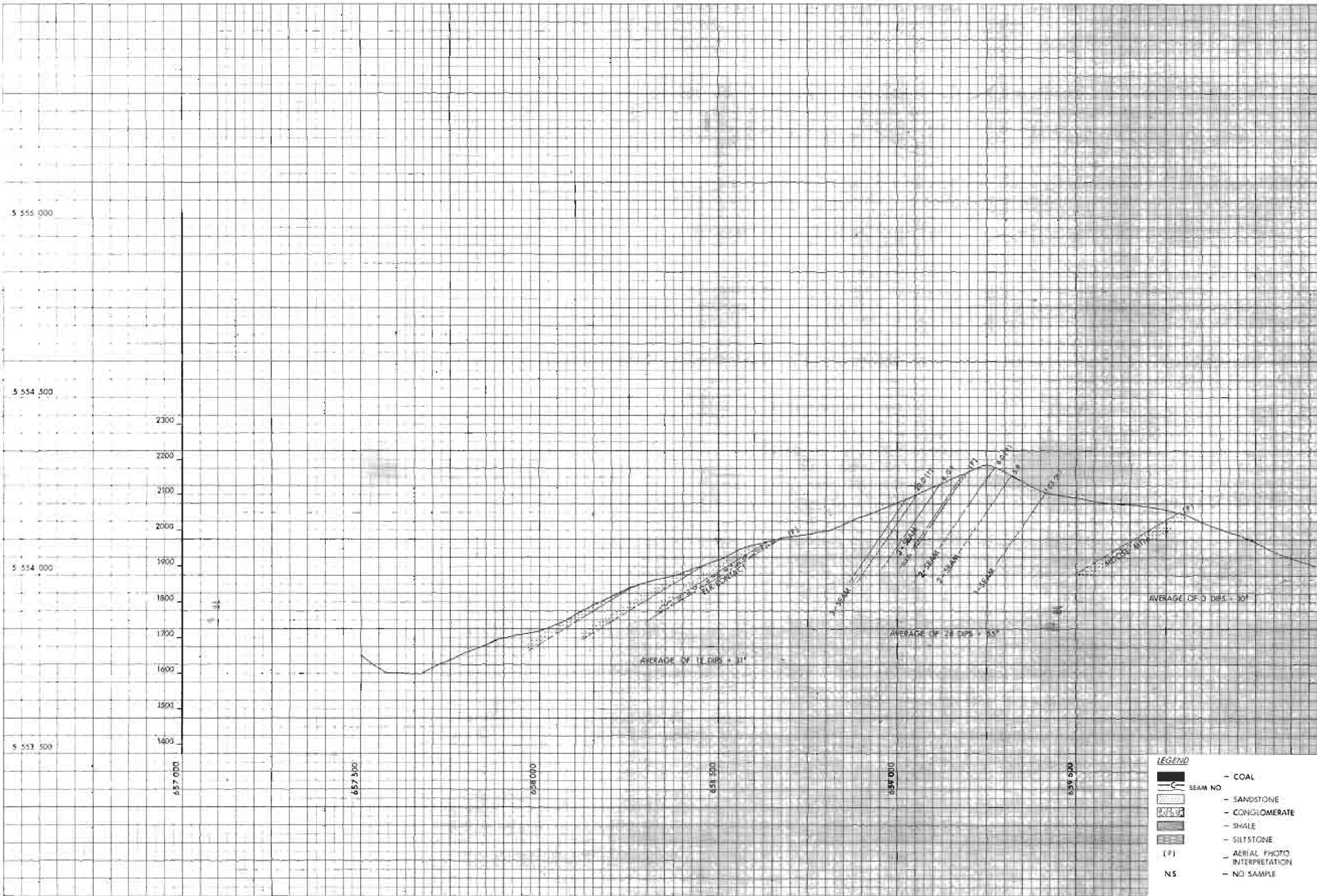
Crows Nest Resources Limited
 EXPLORATION
 BARE MOUNTAIN
 NORTH CENTRAL Q.C.

STRUCTURAL CROSS-SECTION
 5 553 000 N

AUTHOR: B. J. MORRIS	SCALE: 1:5000	PROJECT No: 8-13
DATE: 01	REVISED:	DRAWING No: HJ-72C
BY: [Signature]		

B. J. Morris, Barrick Mountain, 9/13/13

374



Crows Nest Resources Limited
EXPLORATION
BARE MOUNTAIN
NORTH - CENTRAL 5 C

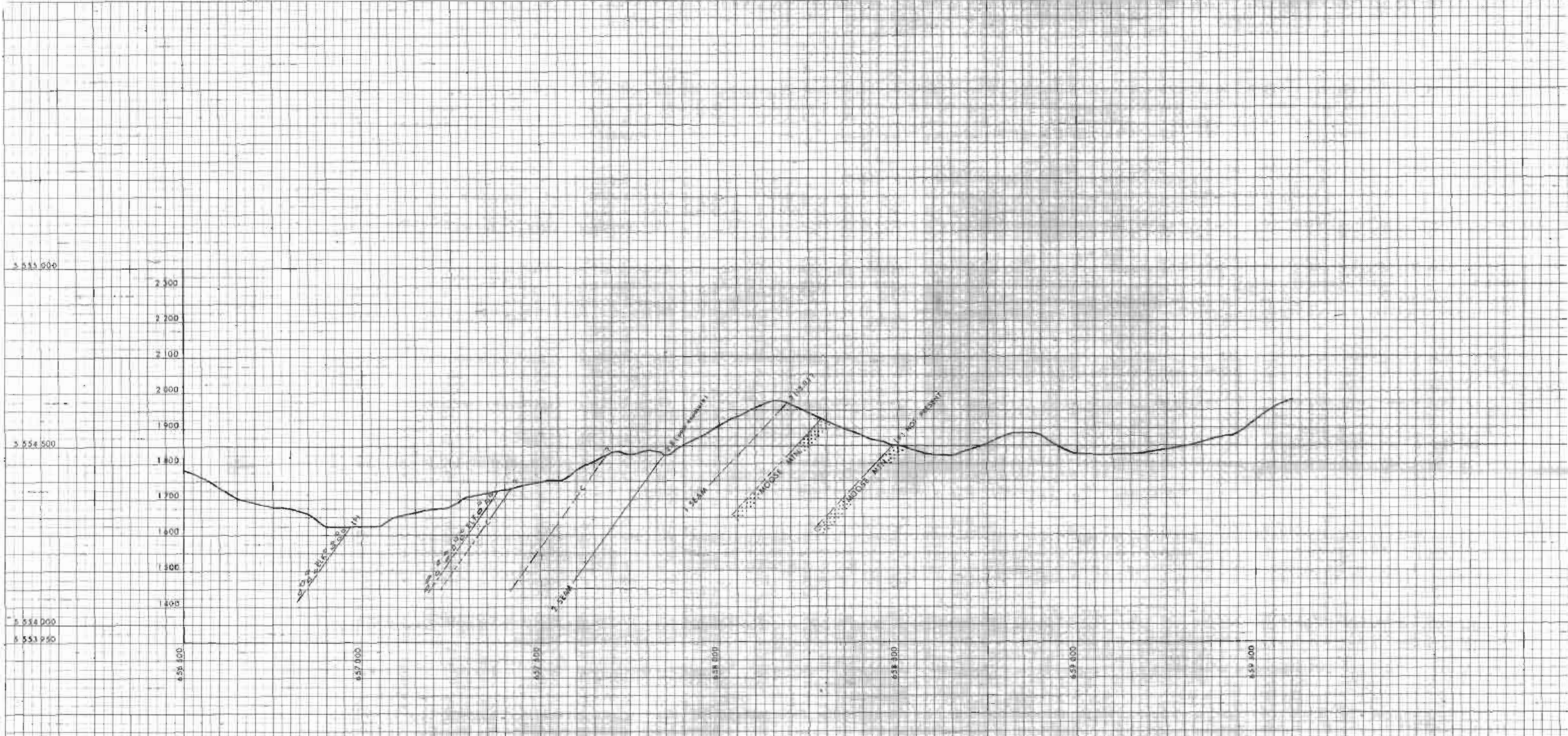
STRUCTURAL CROSS-SECTION

5 553 430 N

Author	W. J. MURPHY	SCALE	1:5000	ENCLOSURE NO.	8-F
Date		REVISED		DRAWING NO.	HJ-72D
No. Accessories					

374

L. Gilber Bare Mountain 9/2/79



5 553 000
 2 300
 2 200
 2 100
 2 000
 1 900
 1 800
 1 700
 1 600
 1 500
 1 400
 5 554 500
 5 554 000
 5 553 900
 654 500
 657 000
 657 500
 658 000
 658 500
 659 000
 659 500

LEGEND

	SEAM No.	— COAL
		— SANDSTONE
		— CONGLOMERATE
		— SHALE
		— SILTSTONE (SLST)
(P)		— AERIAL PHOTO INTERPRETATION
N.S.		— NO SAMPLE

Crows Nest Resources Limited
 EXPLORATION
 BARE MOUNTAIN
 NORTH-CENTRAL I.C.
STRUCTURAL CROSS-SECTION
5 553 950 N

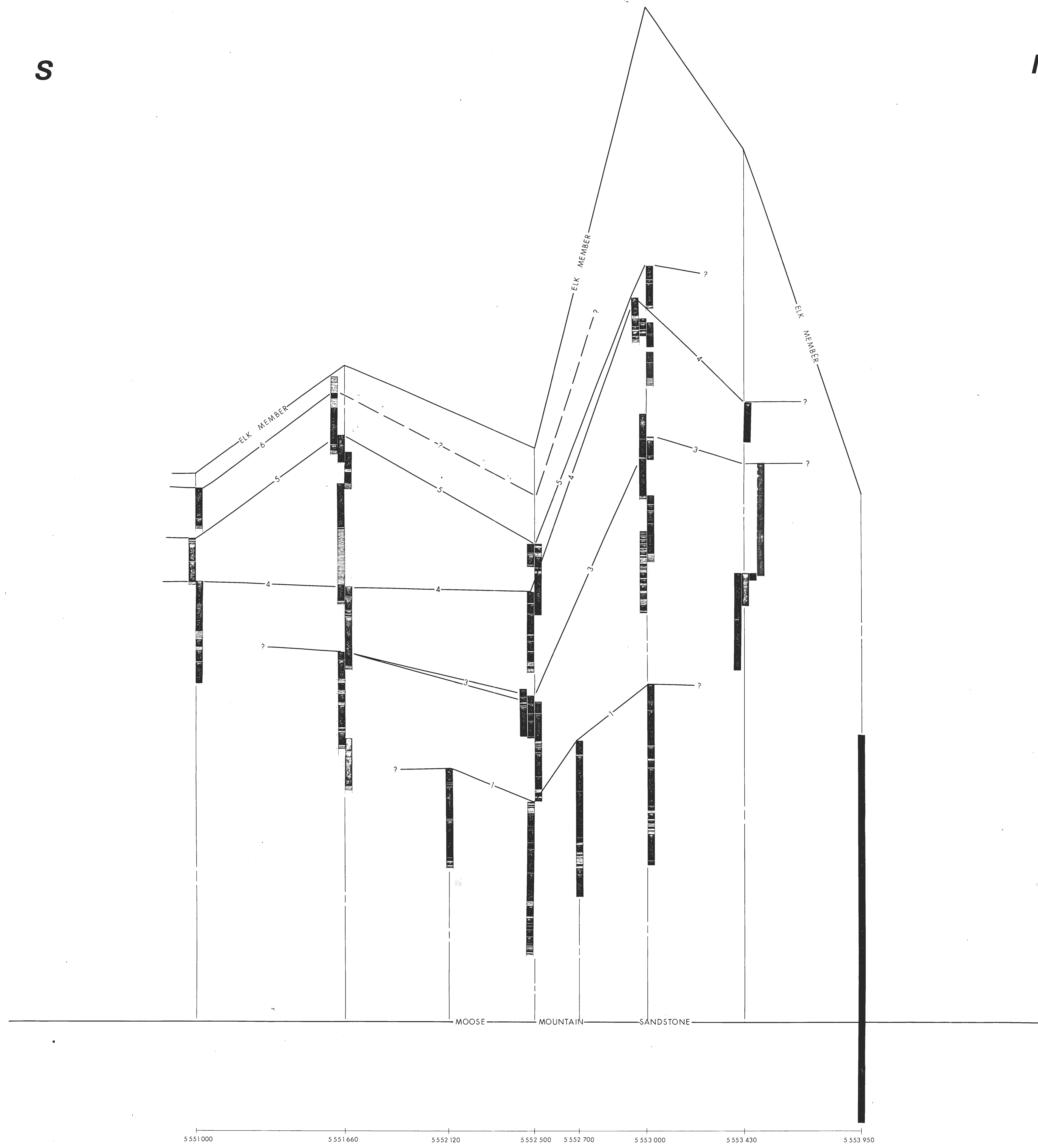
AUTHOR: R.J. MORRIS	SCALE: 1:5 000	ENCLOSURE No. 2-6
DATE: 01.00	REVISED:	DRAWING No. HJ-72E
To Accompany		

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S

N



NOTE
 SCALES - COAL SEAMS = 1:500
 - INTER-SEAM = 1:1000
 - N-S = 1:5000

Crows Nest Resources Limited		
EXPLORATION		
SARE MOUNTAIN SOUTHEAST BRITISH COLUMBIA		
CORRELATION		CHART
		374
AUTHOR: J. MORRIS	SCALE: SEE NOTE	ENCLOSURE No: 1
DATE: 11/14/75	REVISED:	DRAWING No: HA-75
By: Accompany		

K-Shell-Bare Mountain 80C 3DA

82 J12

Trench Information
"Bare Mountain"
Shell Canada Resources Ltd.

R.J. Morris

April 1981

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ENCLOSURE 10-1 - POUCH 1 OF 4

BARE MOUNTAIN NORTH BLOCK

STRATIGRAPHIC SECTIONS 1:20

00 374

GEOLOGICAL
ASSESSMENT
BRANCH
REPORT

- 1S
- 2S, 3S, 4S
- 5S, 6S, 7S, 8S
- 9S
- 10S
- 12S
- 13S
- 14S
- 15S
- 16, 17S

OPEN FILE

(Location shown on Enclosure: Information Map)

ENCLOSURE 10-2 - POUCH 2 OF 4

BARE MOUNTAIN NORTH BLOCK

STRATIGRAPHIC SECTIONS 1:20

- 18S
- 19S
- 20S
- 21S
- 22S
- 23S
- 24S
- 25S
- 26S
- 27S
- 26S

(Location shown on Enclosure: Information Map)

ENCLOSURE 10-3 - POUCH 3 OF 4

BARE MOUNTAIN NORTH BLOCK

STRATIGRAPHIC SECTIONS 1:20

- 28-S
- Pg-68
- 29, 30S
- 31S
- 32S
- 33, 34, 35S
- 36S
- 37S
- 38S
- 39S
- 40S

(Location shown on Enclosure: Information Map)

ENCLOSURE 10-4 - POUCH 4 OF 4

BARE MOUNTAIN NORTH BLOCK

STRATIGRAPHIC SECTIONS 1:20

BOB - 4285

BOB - 5385

BOB - 5485

BOB - 5585

80-2 Pg. 22-24

80-2 Pg. 24-27

80-2 Pg. 27-29

80-2 Pg. 29-31

80-2 Pg. 31-32

80-2 Pg. 32

80-2 Pg. 33

80-2 Pg. 34

80-2 Pg. 35

80-2 Pg. 40

80-2 Pg. 41

(Location shown on Enclosure: Information Map)

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

AREA: BARE MOUNTAIN (south of heli-pad in gully)

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-3 P. 110-112

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB IS
					MAIN	AMPLIFIED	
		0				Sh Coal Sh Coal Sh Coal	
		0				Sh	
		100				HW Coal Sh Coal Sh	
		100				Coal - hard	
		100				Sh	
		200				Coal	
		200				Sh	
		200				Coal	
		300				Sh - very carbonaceous Coal Sh - very carbonaceous Coal Sh	
		300				Coal - abundant vit.	
		300				Sh - rusty	
		400					
		400				Coal	
		500					
		500				Sh	
		600					
		600				Coal	
		700					
		700				Sh & Coal - Fe nodules	
		800					
		800				Coal	
		800				Sh	
		800				Coal	
		800				Sh	
		800				Coal Sh	
		900				Coal Sh	
		900				Coal	
		900				Sh	
		1000				Coal	
		1000				Sh Coal Sh Coal Sh - rusty Coal Sh	
		1000				Coal & Sh FW	
		1100					

ASH % DB
23.64

SCALE - 1:20

HC-69H

HC-69H

374

ENCLOSURE 10-1

STRATIGRAPHIC SECTION

DESIGNATION:

PART ____ OF ____

PROJECT: NORTH BLOCK

AUTHOR: R. J. MORRIS

DATE: 1981-02-26

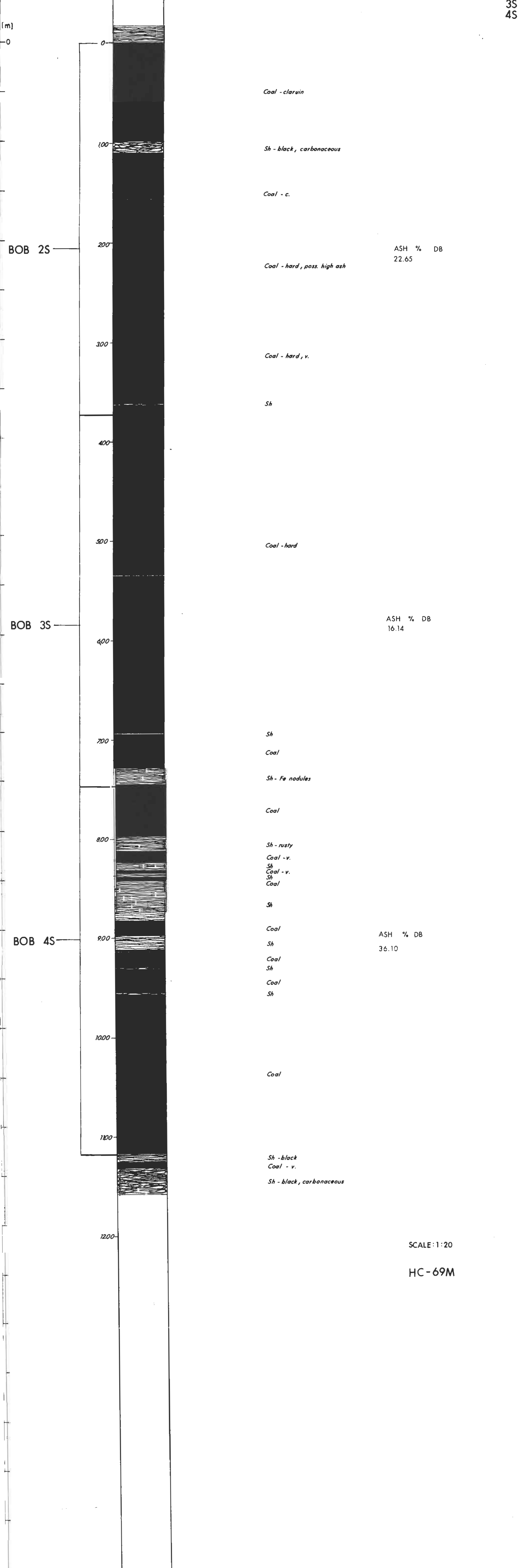
AREA: BARE MOUNTAIN (at heli-pad)

SOURCE OF DATA:

BOOK RJM 80-3 P. 113

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK
 AREA: BARE MOUNTAIN
 LOCATION: S.E. BRITISH COLUMBIA

AUTHOR: R.J. MORRIS
 DATE: 1981-02-26
 SOURCE OF DATA:
 BOOK RJM 80-3 P. 125-127

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
		0				Coal - v	BOB 5S
						Sh	6S
							7S
							8S
		100				Coal - c. soft	
						Sh	
						Coal - hard, v.	
						Sh	
		200				Coal - soft	
	BOB 5S						
						Coal - soft	ASH % DB 21.48
						Coal & Sh - hard, high ash	
						Coal - c. soft	
		300				Coal - v. hard	
						Coal & Sh	
						Coal - v. hard	
						Coal & Sh	
						Coal - v. hard	
		400				Coal - c. soft	
						Coal - v. hard	
						Iron - oolitic	
		500				Coal - v. hard	
	BOB 6S						ASH % DB 22.98
						Sh - poss. coaly	
						Coal - c. soft	
		600				Sh - black	
						Coal & Sh - hard - dull - poss. high ash	
		700					
						Coal - v. hard	
		800					
						Coal & Iron nodules	
						Coal - c + y, soft	ASH % DB
	BOB 7S					Sh - black	30.83
						Coal - v. soft	
		900				Iron band	
						Coal - c. * poss. glide plane	
						Coal & Sh * sheared	
						Sh - brown	
		1000				Coal - v. hard	
						Sh	
						Coal - v.	
						Sh	
						Coal & Sh	
						Sh	
						Coal - hard	
						Sh	
		1100				Coal - v.	
						Coal & Sh	
		1200				Coal - v. - very hard	ASH % DB 15.87
	BOB 8S						
						Sh	
						Coal - v. - very hard	
		1300				Sh	
						Coal - v.	
						Sh	
						Coal & Sh	

SCALE - 1:20

HC-69F

374

ENCLOSURE 10-1

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT:	NORTH BLOCK
AREA:	BARE MOUNTAIN
LOCATION:	S.E BRITISH COLUMBIA

AUTHOR:	R.J MORRIS	DATE:	1981-02-26
SOURCE OF DATA:		BOOK RJM 80-4 P. 3-4	

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 9S
					MAIN	AMPLIFIED	
(m)		0					ASH % DB 20.04
		1					
		2					
	BOB 9S	3					
		4					
		5					
		6					

Sh - 3m, black

Sh - very carbonaceous
Coal - bright
Sh - coal, high ash
Coal - bright

Sh - coal
Sh -

Sh - black, carbonaceous
Sh - coal

Sh - coal
Coal - bright

Coal - bright
Sh - coal

Coal - c.
Sh - coal

Sh - coal
Sh - rusty
Coal - dull

Coal - dull

SCALE - 1:20
HC - 69G

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

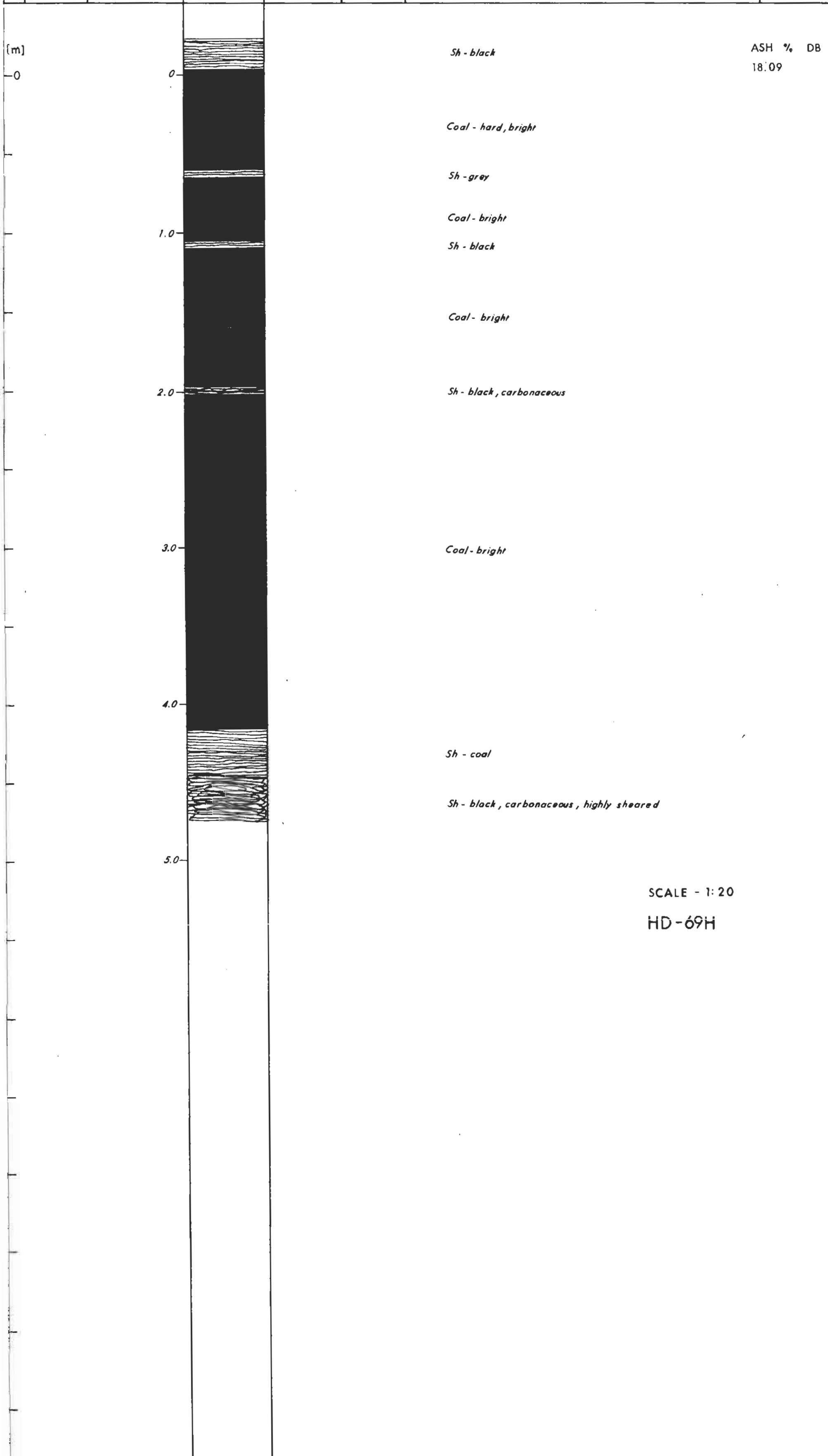
AREA: BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-4 P.5

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 10S
					MAIN	AMPLIFIED	



374

ENCLOSURE 10-1

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

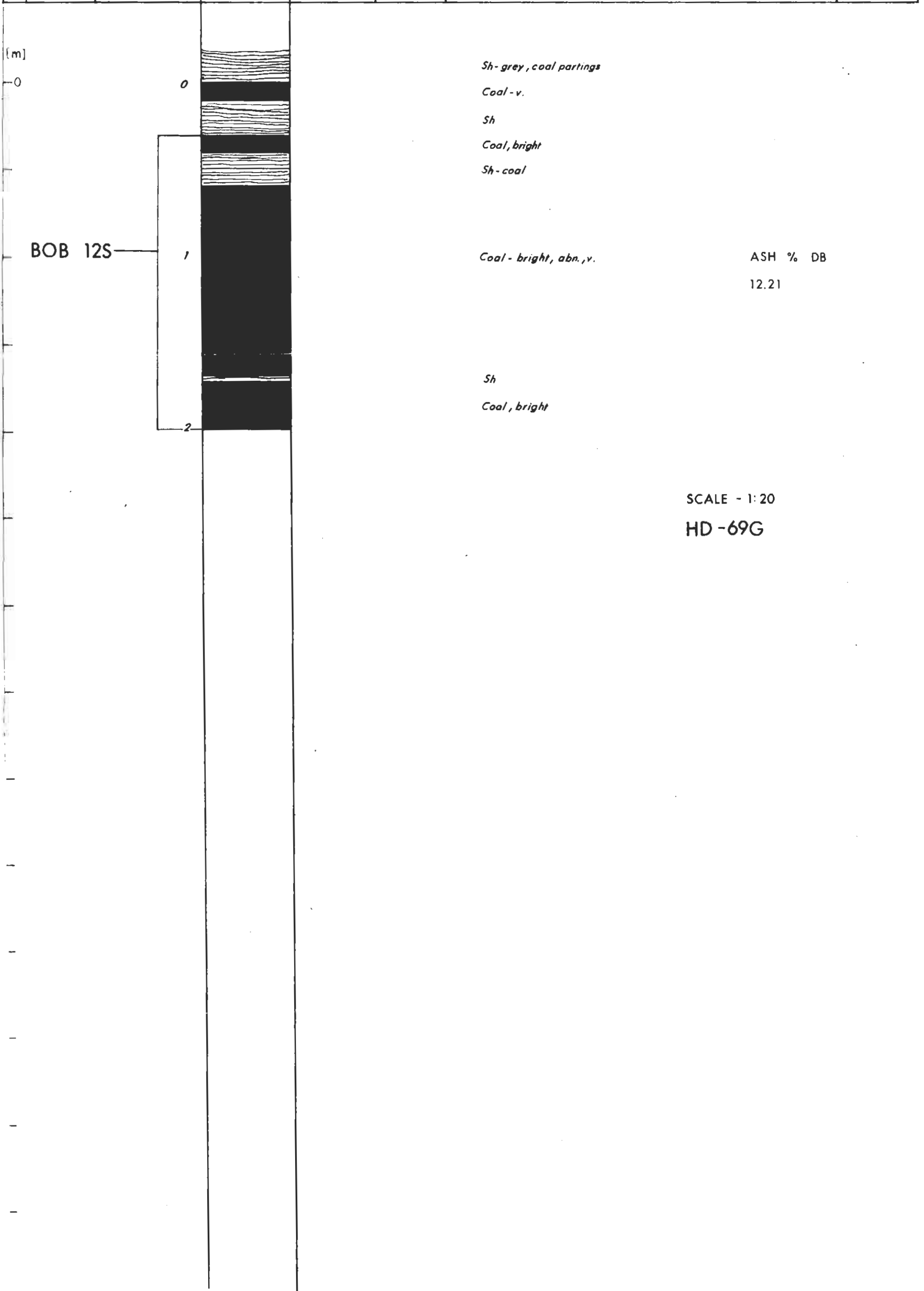
AREA: BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-4 P. 7

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 12S
					MAIN	AMPLIFIED	

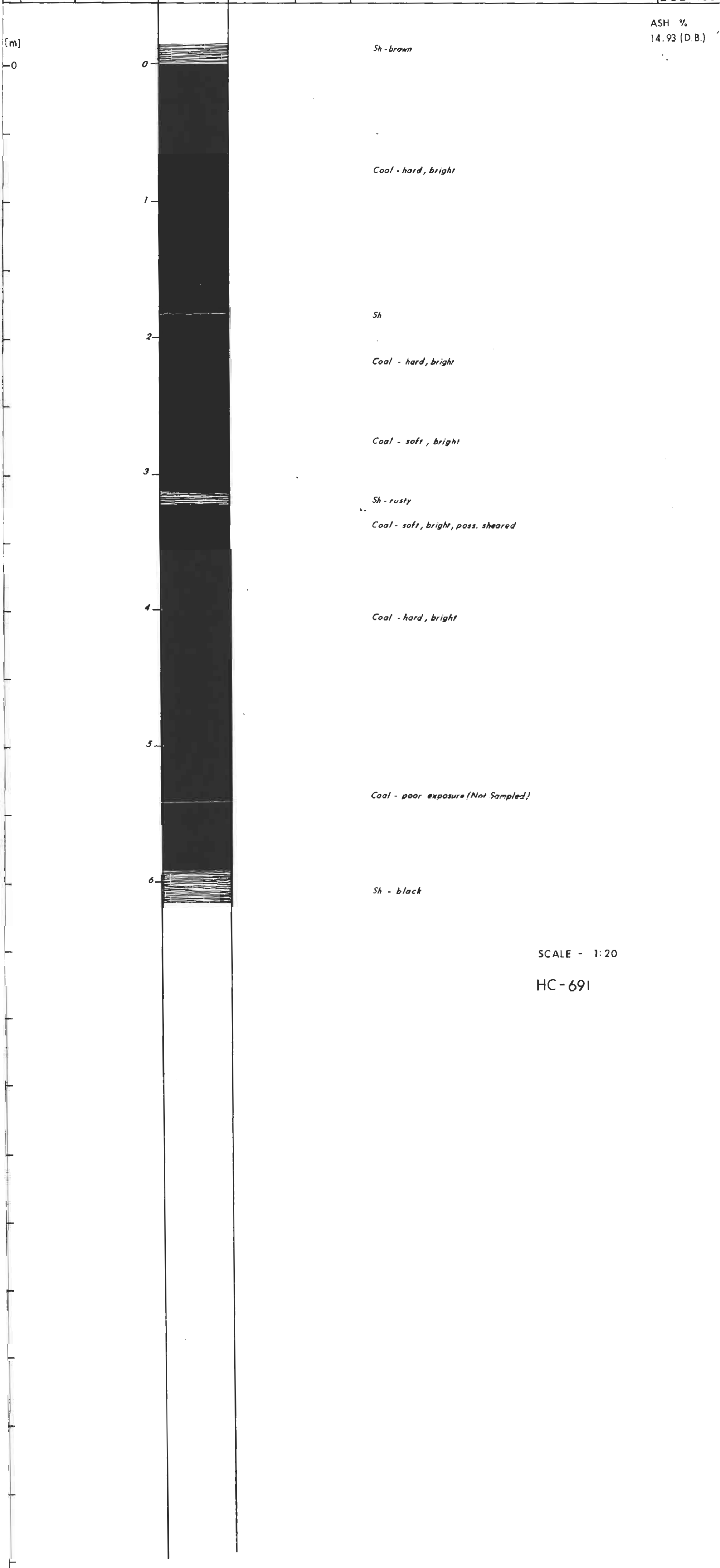


STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK	AUTHOR: R. J. MORRIS	PART _____ OF _____
AREA: BARE MOUNTAIN	DATE: 1981-02-26	
LOCATION: S.E. BRITISH COLUMBIA	SOURCE OF DATA: BOOK RJM 80-4 P.9	

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 13S
					MAIN	AMPLIFIED	



SCALE - 1:20
HC-691

374

ENCLOSURE 10-1

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

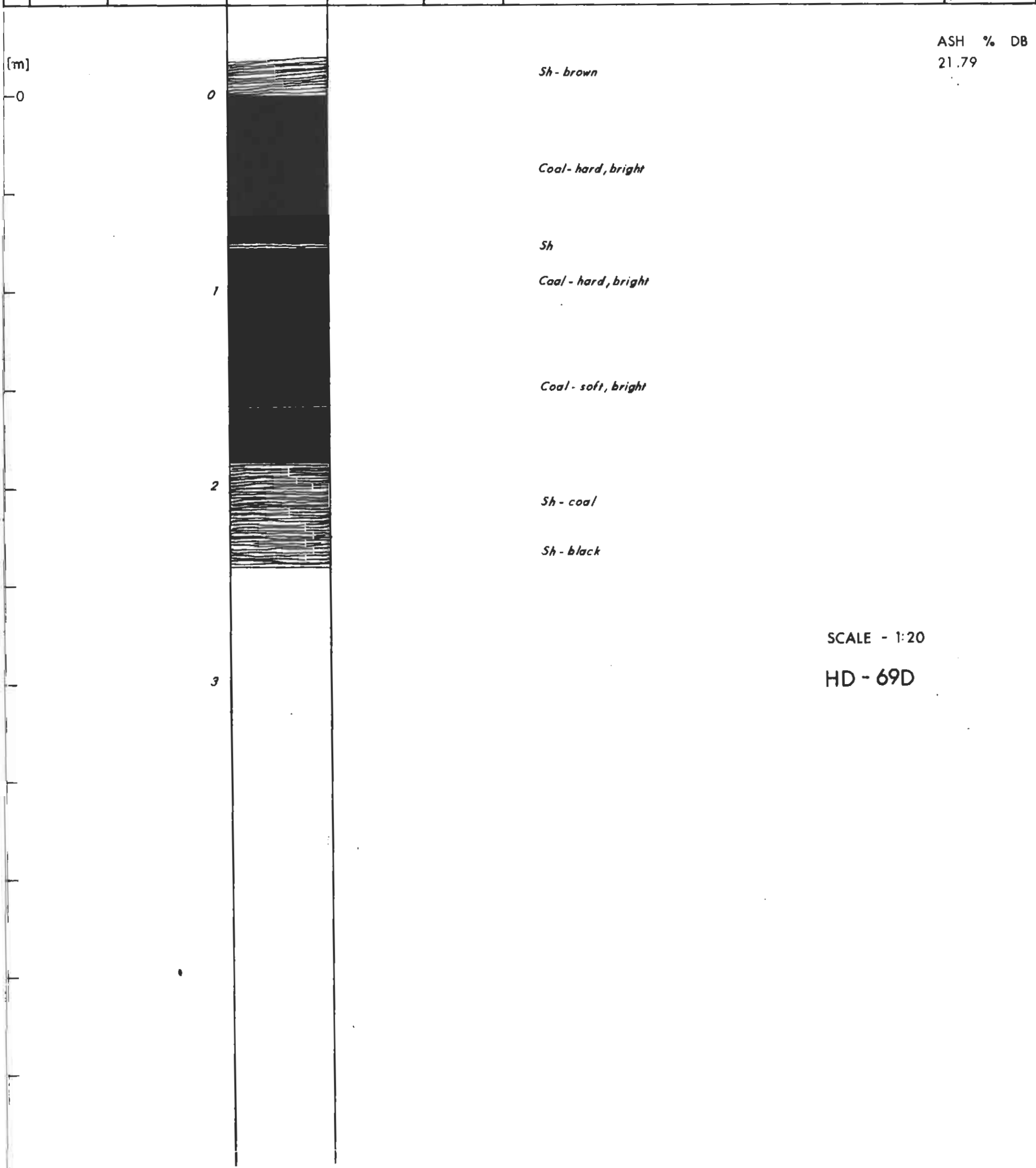
AREA: BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-4 P. 10

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 14S
					MAIN	AMPLIFIED	



374

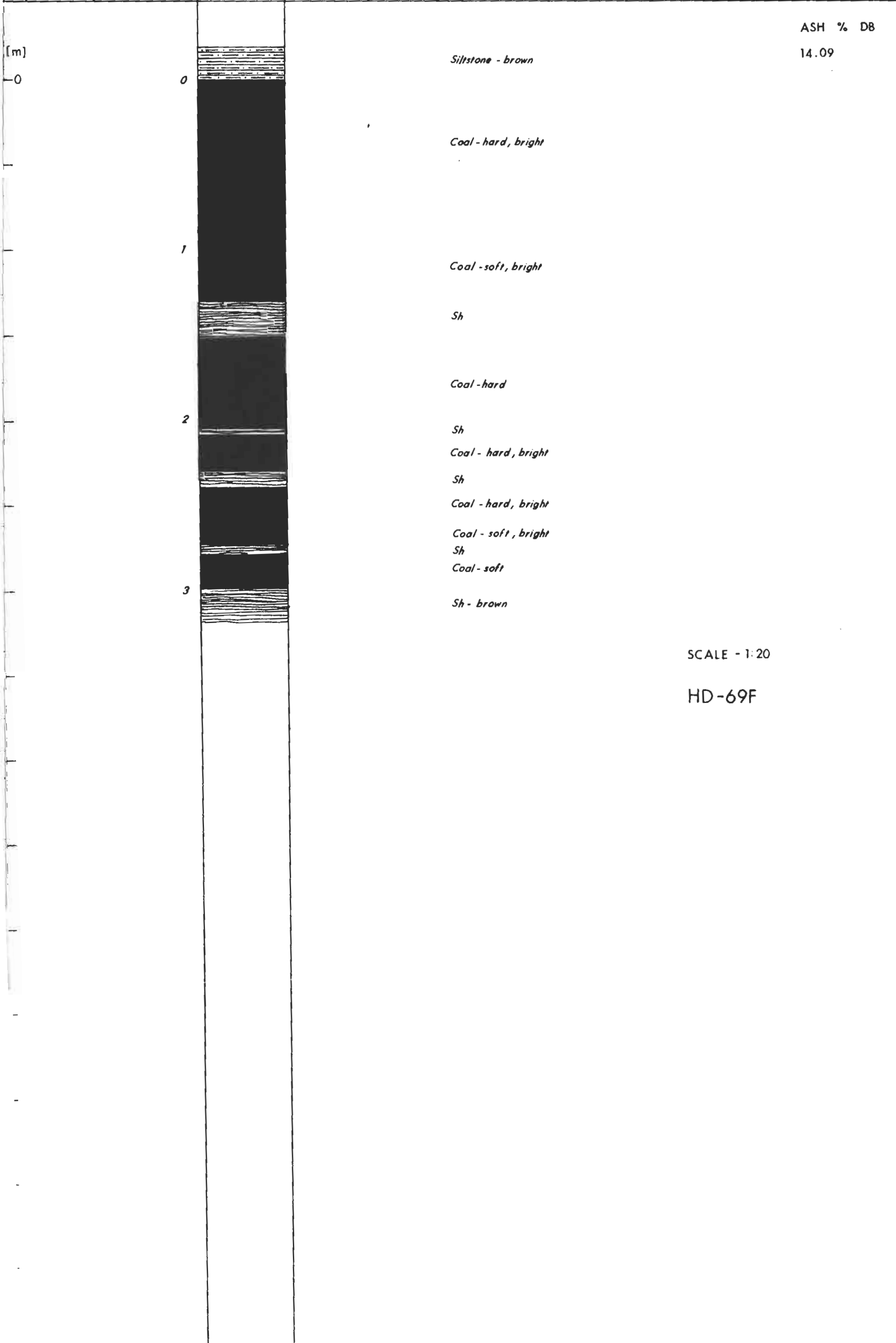
ENCLOSURE 10-1

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK	AUTHOR: R.J. MORRIS	PART _____ OF _____
AREA: BARE MOUNTAIN	DATE: 1981-02-26	
LOCATION: S.E. BRITISH COLUMBIA	SOURCE OF DATA: BOOK RJM 80-4 P. 12	

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20

HD-69F

374

ENCLOSURE 107

STRATIGRAPHIC SECTION

DESIGNATION:

PART ____ OF ____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

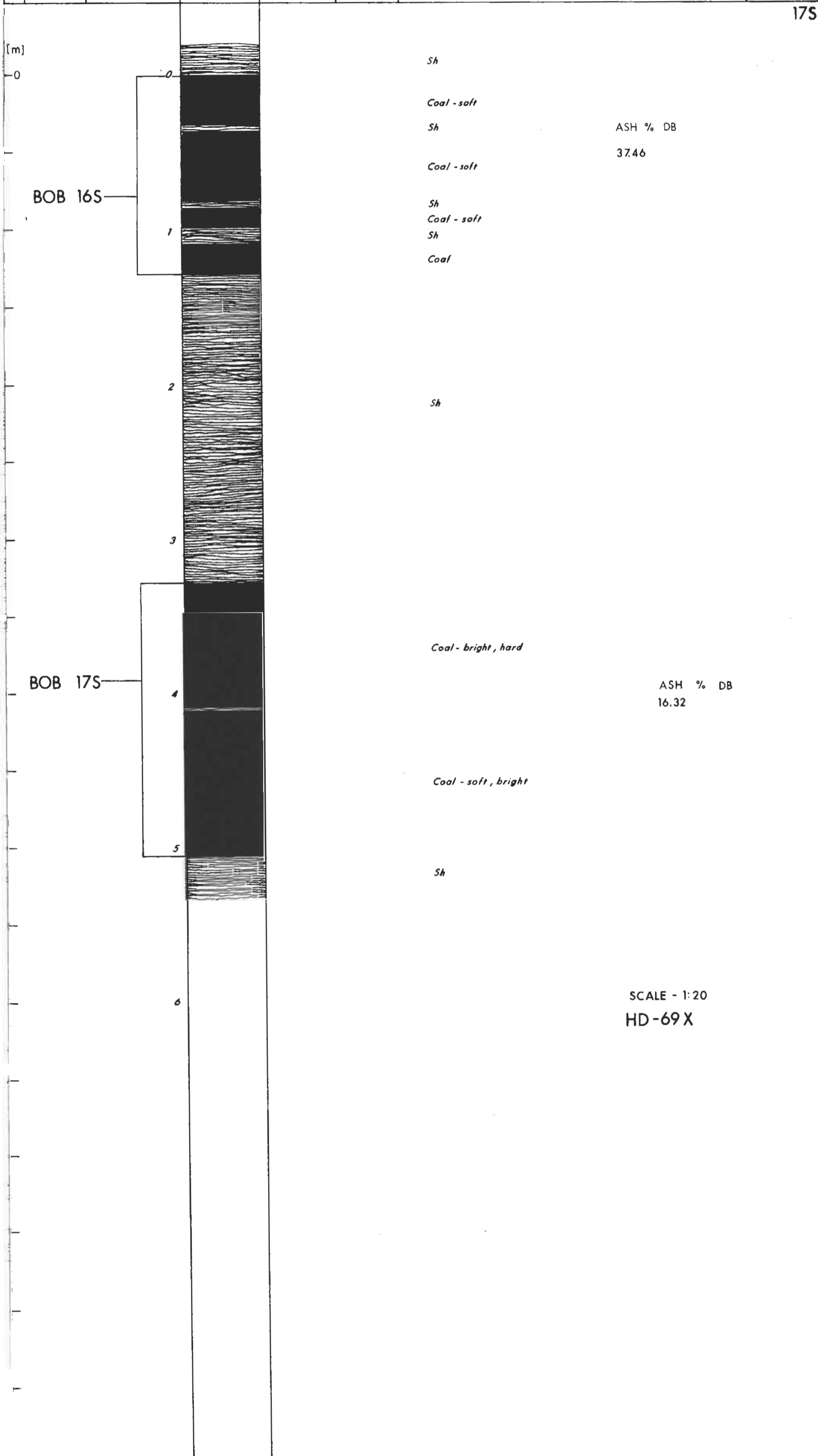
AREA: BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-4 P. 13

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20
HD-69X

374

ENCLOSURE 10-2

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

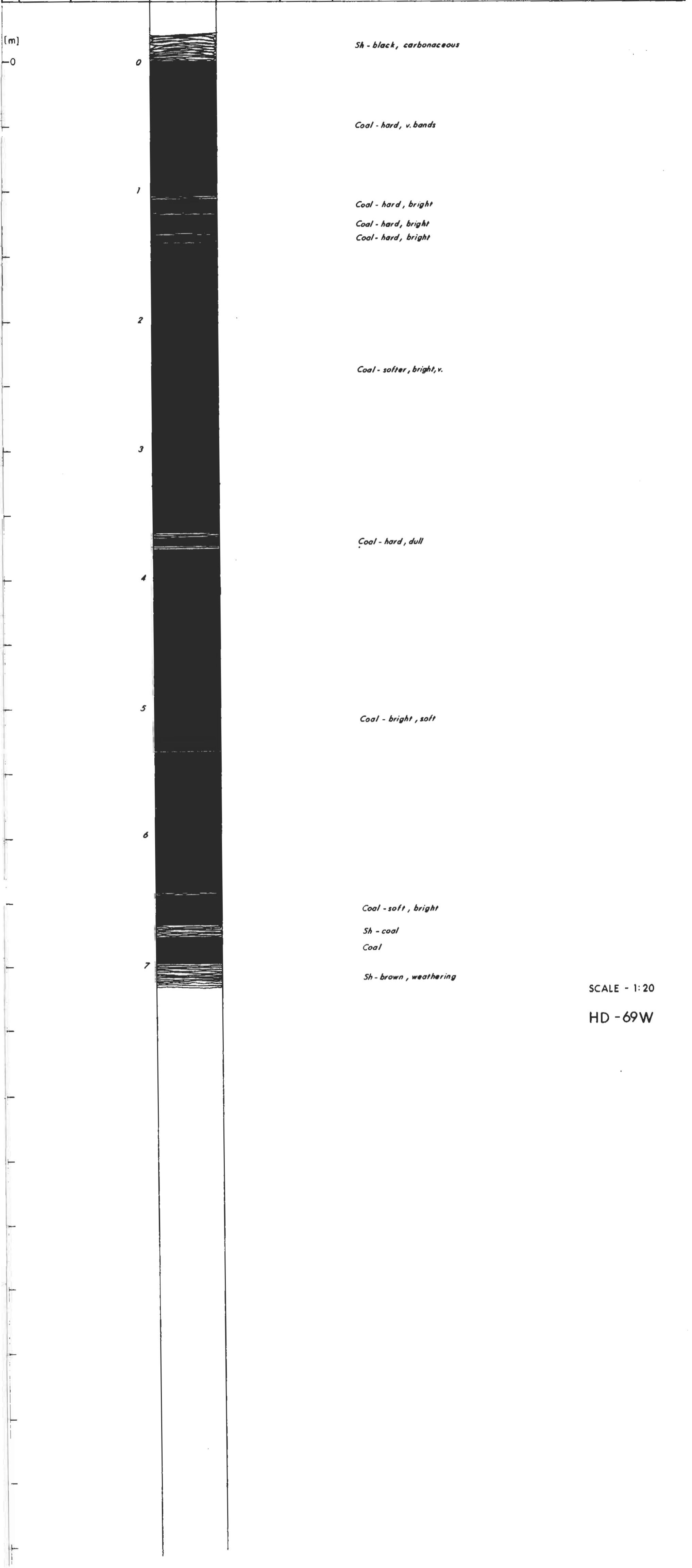
AREA: BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-4 P. 37-38

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 18S
					MAIN	AMPLIFIED	



SCALE - 1:20

HD-69W

374

ENCLOSURE 10-2

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

AREA: BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-4 P. 33

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 19S
					MAIN	AMPLIFIED	
[m]		0					ASH % DB 22.99
						<i>Sh - brown, weathering</i>	
						<i>Coal - soft, bright</i>	
		1				<i>Sh - some rust</i>	
						<i>Coal</i>	
						<i>Sh</i>	
		2				<i>Coal - soft</i>	
		3				<i>Coal - soft</i>	
						<i>Sh - brown, weathering</i>	

SCALE - 1:20

HD-69V

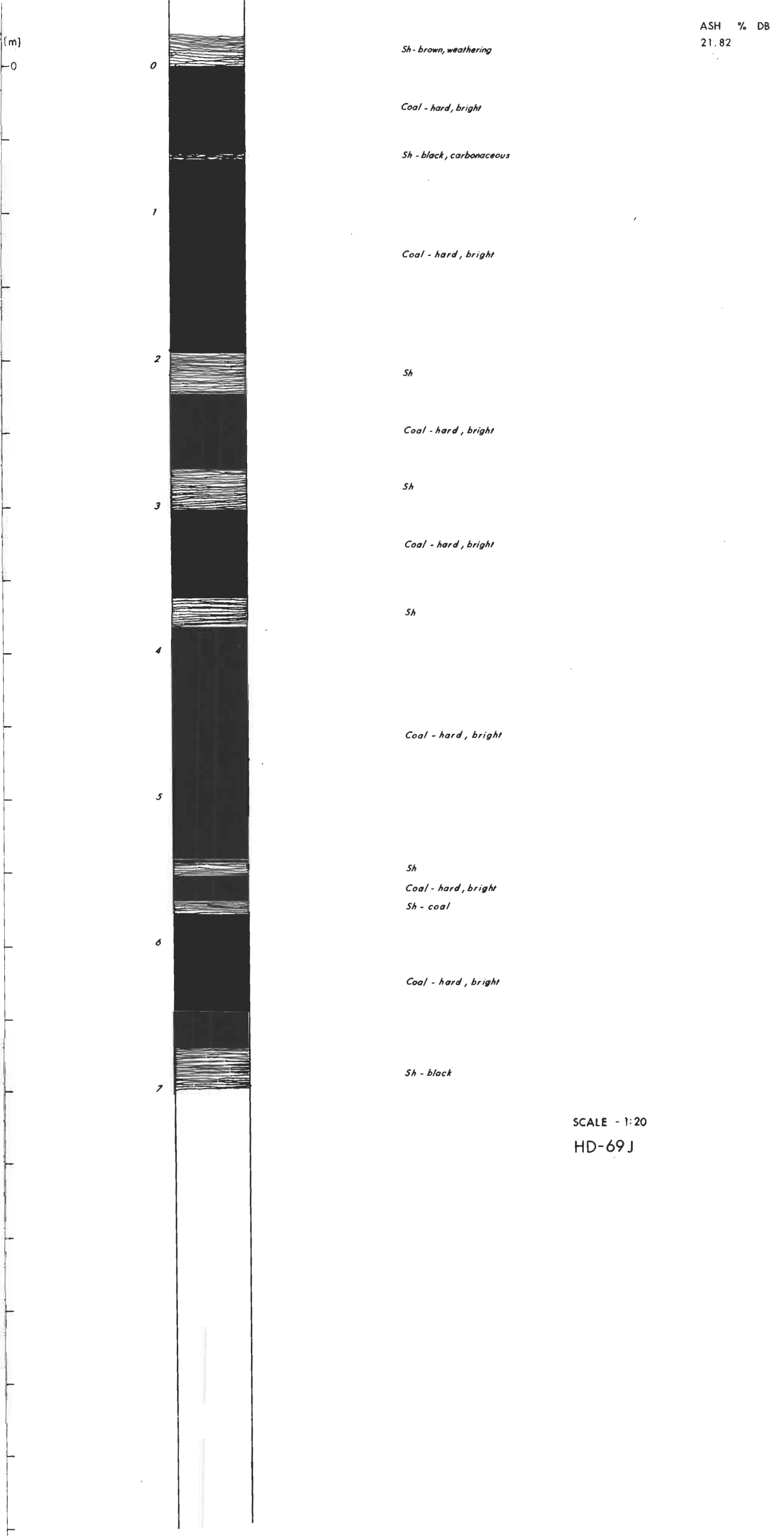
STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT:	NORTH BLOCK
AREA:	BARE MOUNTAIN
LOCATION:	S.E. BRITISH COLUMBIA

PART	OF
AUTHOR:	R.J. MORRIS
DATE:	1981-02-26
SOURCE OF DATA:	
BOOK	RJM 80-4 P. 41

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



ASH % DB
21.82

SCALE - 1:20
HD-69J

374

K-Shell - Bare Mountain (SOL3)A

ENCLOSURE 10-2

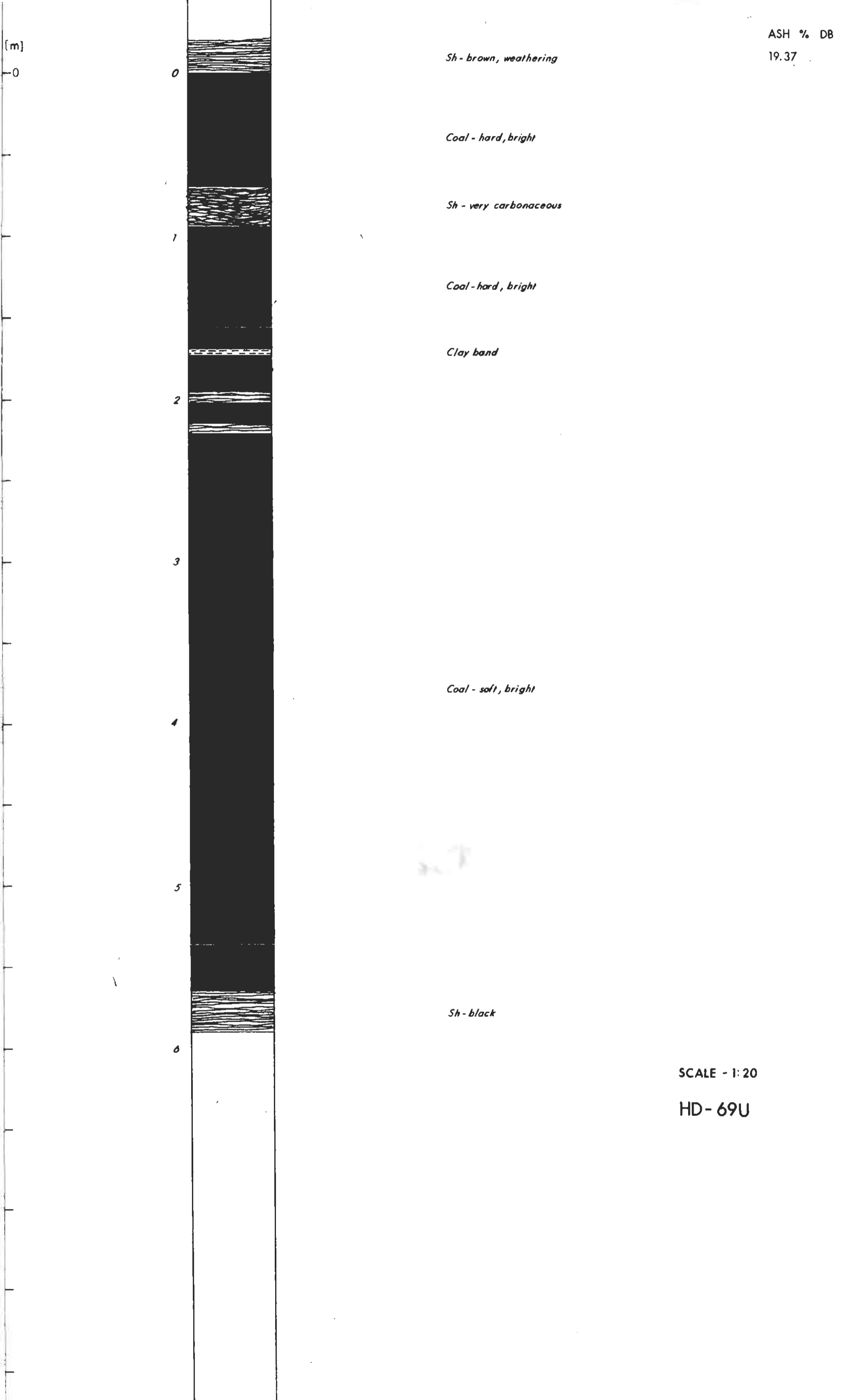
STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK
 AREA: BARE MOUNTAIN
 LOCATION: S.E. BRITISH COLUMBIA

PART _____ OF _____
 AUTHOR: R.J. MORRIS DATE: 1981-02-26
 SOURCE OF DATA:
 BOOK RJM 80-4 P. 42-43

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20

HD-69U

374

ENCLOSURE 10-2

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

AREA: BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-4 P. 44

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
[m]		0					ASH % DB 10.28
		0				<i>Sh - brown, weathering</i>	
		1.0				<i>Coal - bright</i>	
		2.0					
		3.0					
		4.0					
		5.0				<i>Sh - black</i>	
		6.0					
		7.0					
		8.0		(E. DIP)			
		9.0					

SCALE - 1:20

HC-69J

HC-69J

374

ENCLOSURE 10-2

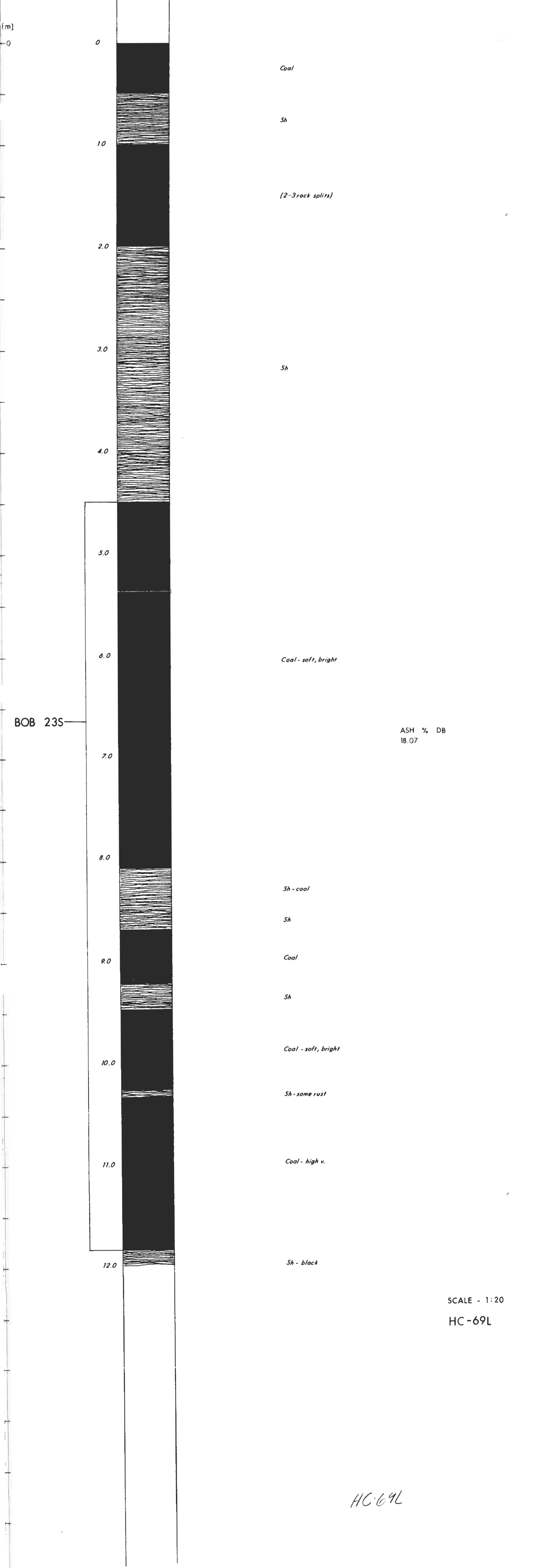
STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT:	NORTH BLOCK
AREA:	BARE MOUNTAIN
LOCATION:	S.E. BRITISH COLUMBIA

PART _____ OF _____	
AUTHOR: R.J. MORRIS	DATE: 1981-02-26
SOURCE OF DATA:	
BOOK RJM 80-4	P. 44-45

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 23S
					MAIN	AMPLIFIED	



374

ENCLOSURE 10-2

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R. J. MORRIS

DATE: 1981-02-26

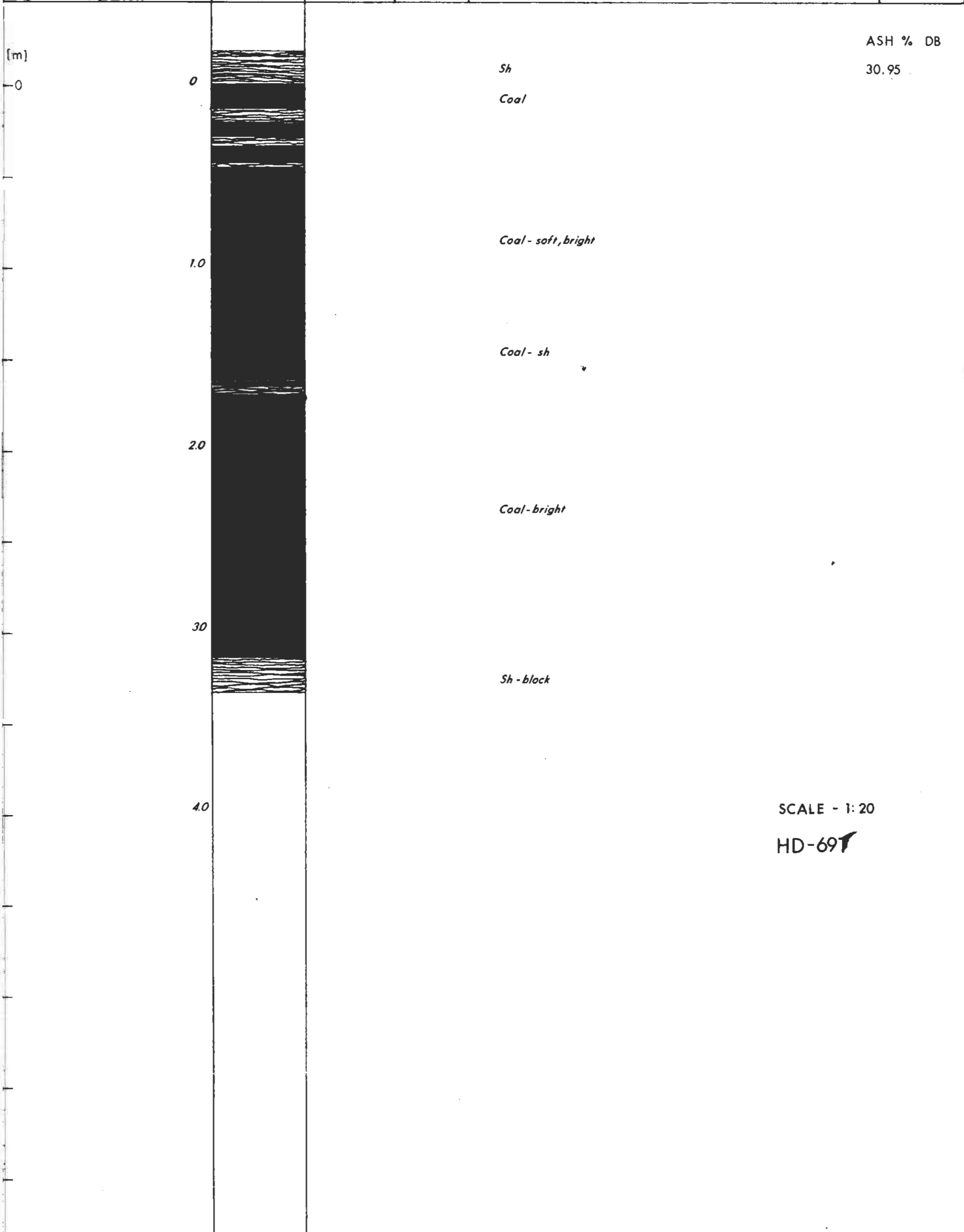
AREA: BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-4 P. 45-46

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 24S
					MAIN	AMPLIFIED	



SCALE - 1:20

HD-69

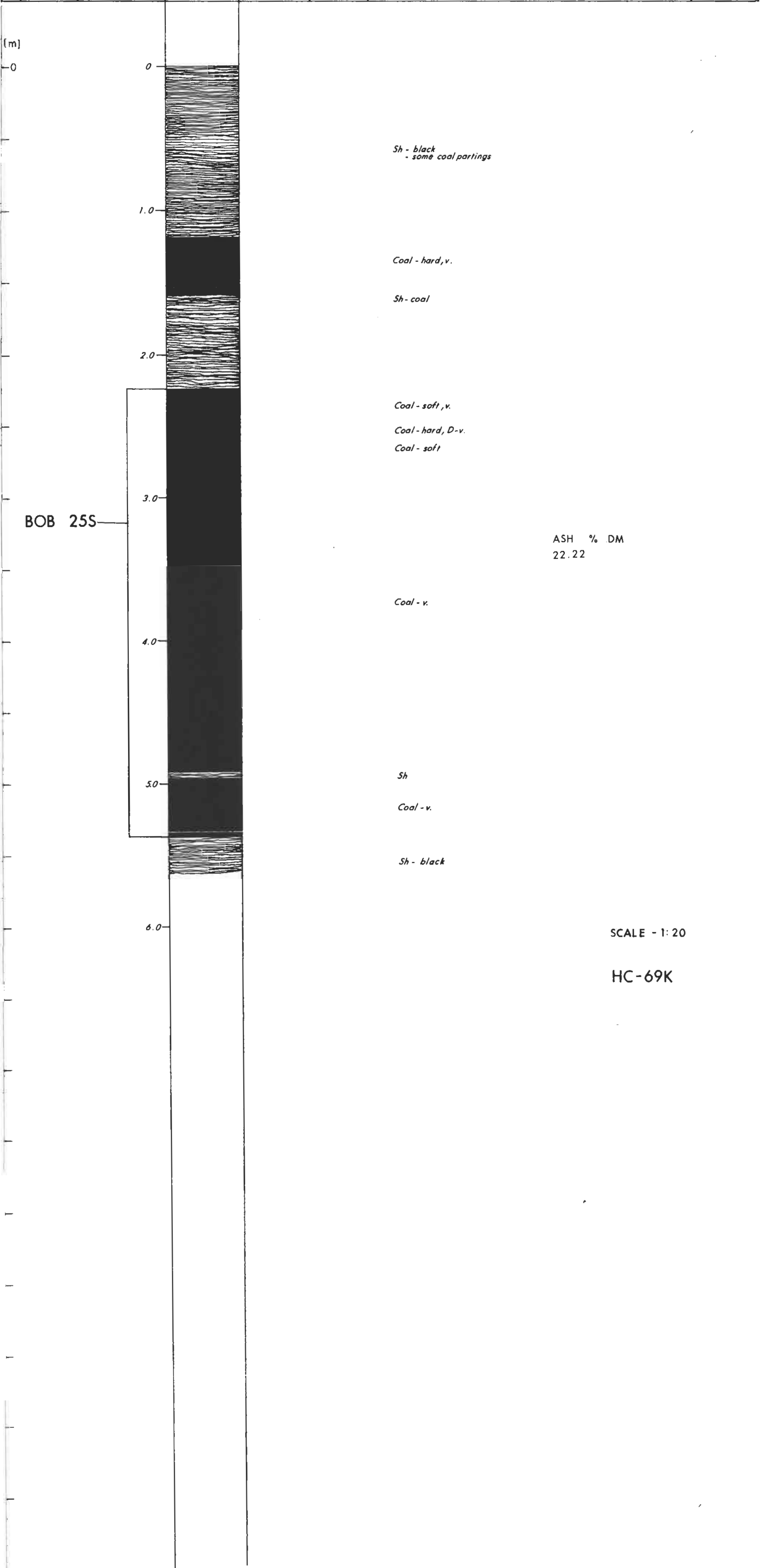
374

ENCLOSURE 10-2

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK	AUTHOR: R.J.MORRIS	PART _____ OF _____
AREA: BARE MOUNTAIN	DATE: 1981-02-26	
LOCATION: S.E. BRITISH COLUMBIA	SOURCE OF DATA:	
	BOOK RJM 80-4	P. 57-58



374

ENCLOSURE 10-2

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

PART _____ OF _____

DATE: 1981-02-26

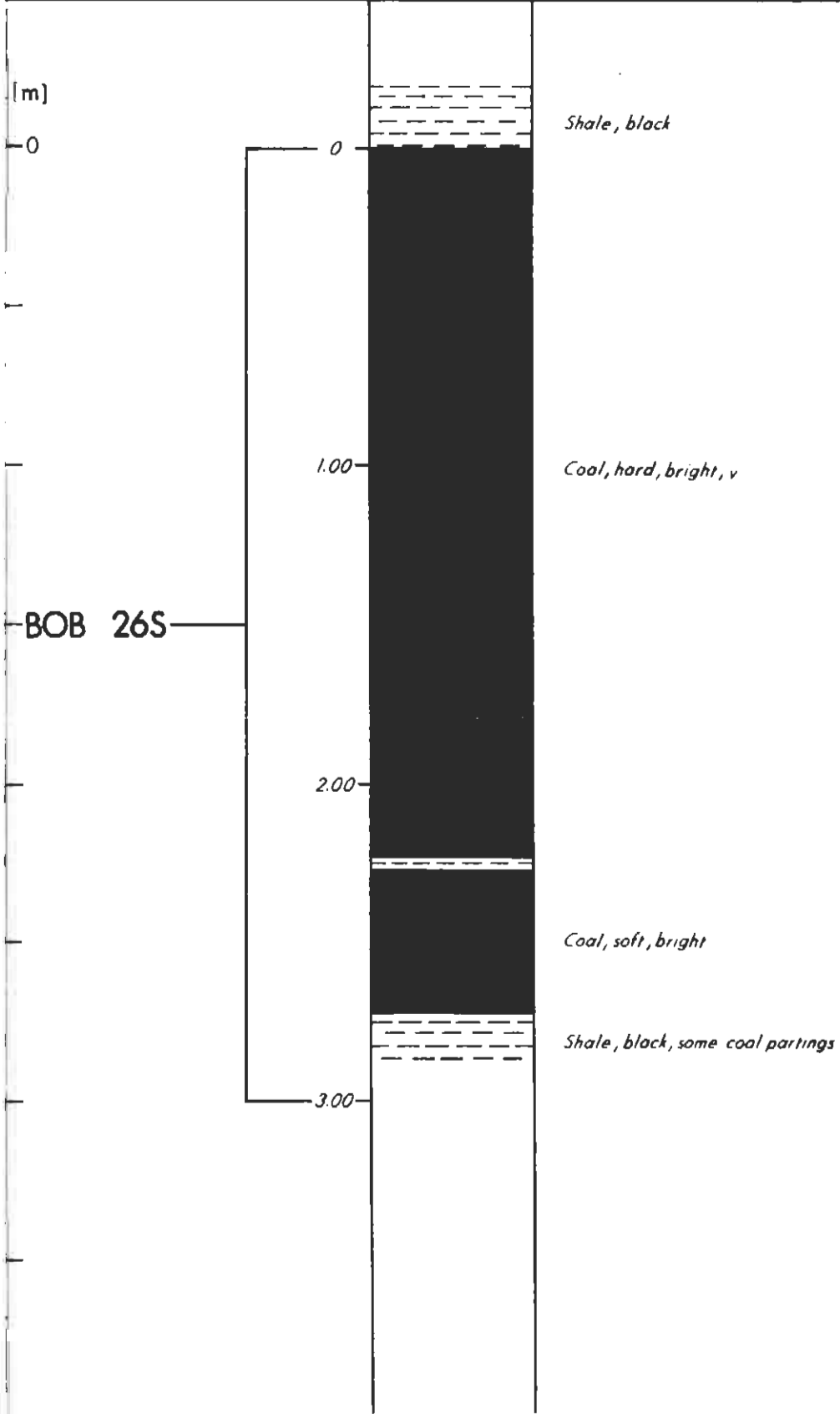
AREA: BARE MOUNTAIN (at heli-pad)

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-4 P.59

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
							BOB 26S



SCALE 1:20

374

ENCLOSURE 10-2

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK

PART _____ OF _____

AREA: BARE MOUNTAIN

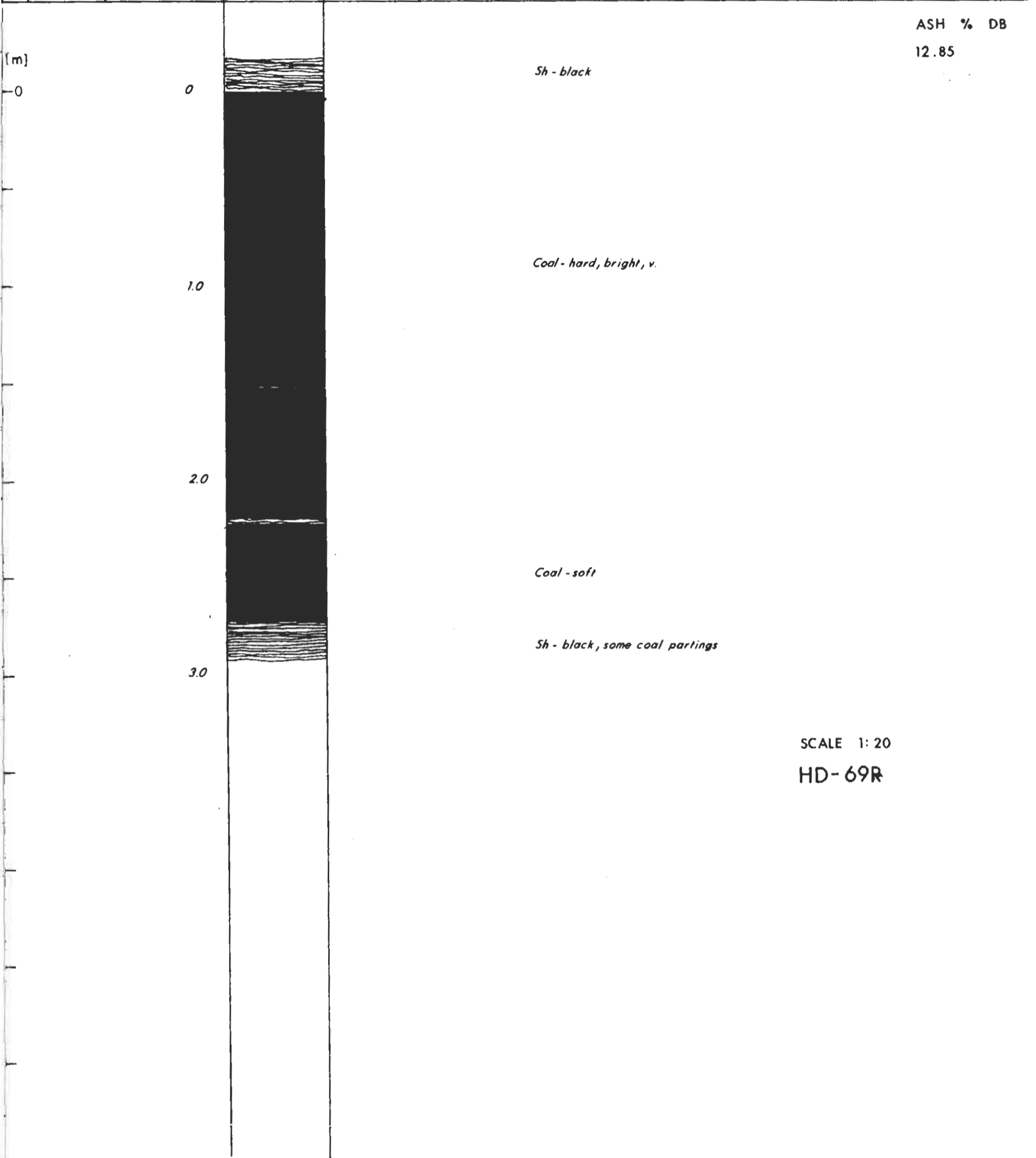
AUTHOR: R. J. MORRIS DATE: 1981-02-26

LOCATION: S. E. BRITISH COLUMBIA

SOURCE OF DATA:

BOOK RJM 80-4 P. 59

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



374

ENCLOSURE 10-2

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

AREA: BARE MOUNTAIN

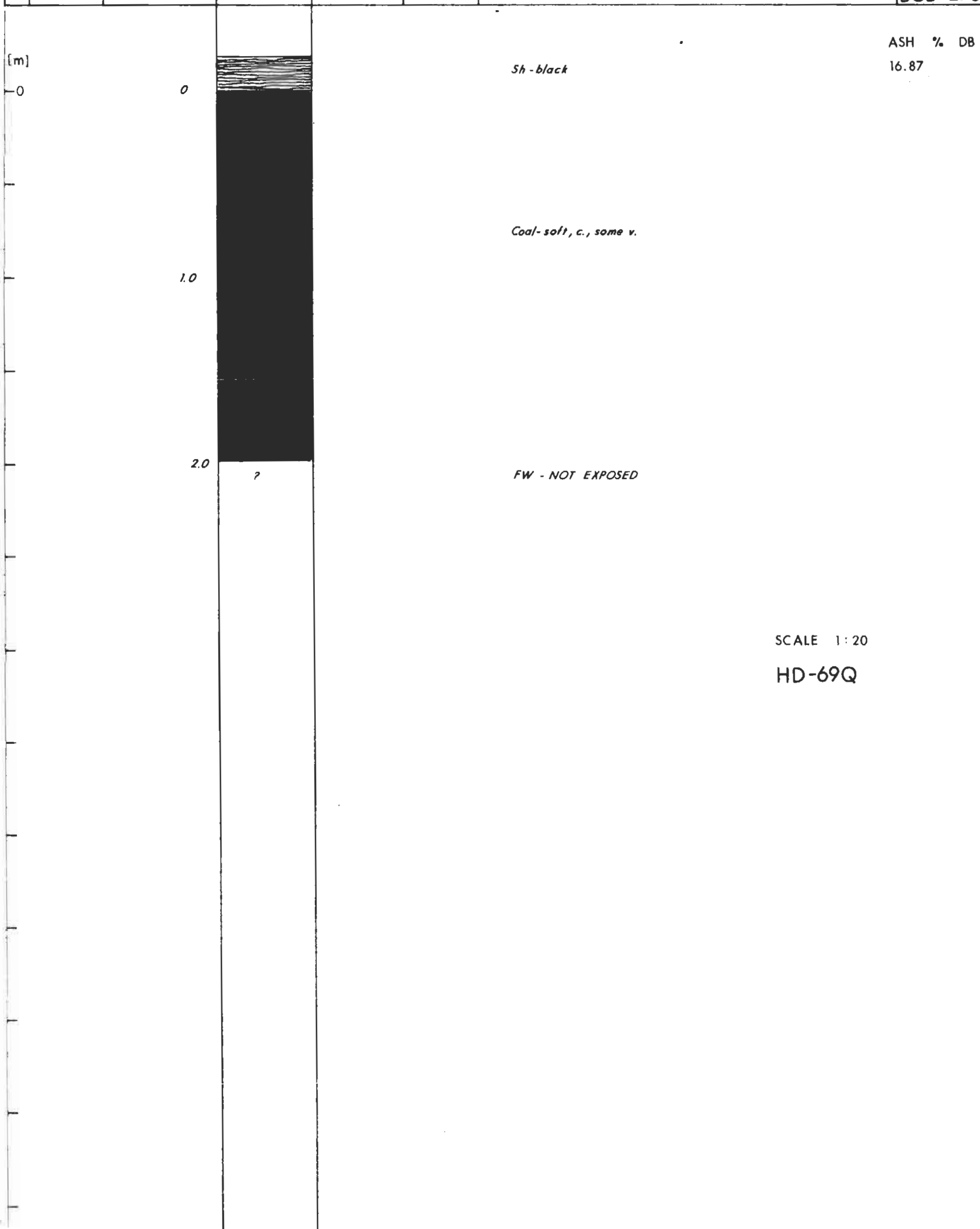
SOURCE OF DATA:

BOOK RJM 80-4 P. 60

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	

ASH % DB
16.87



SCALE 1:20
HD-69Q

374

ENCLOSURE 10-3

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

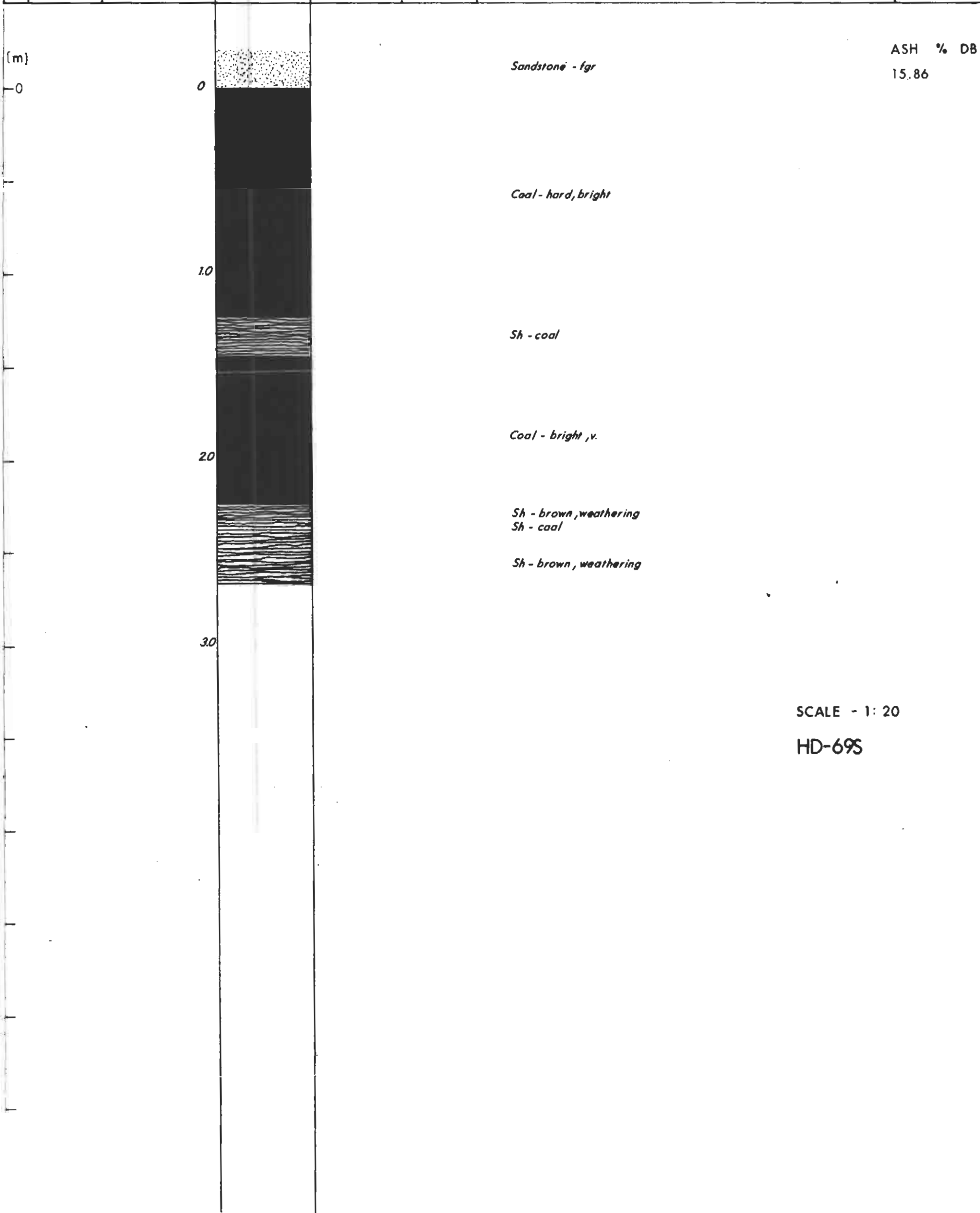
AREA: BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-4 P. 61

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
							BOB 28S



SCALE - 1:20
HD-69S

374

ENCLOSURE 10-3

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

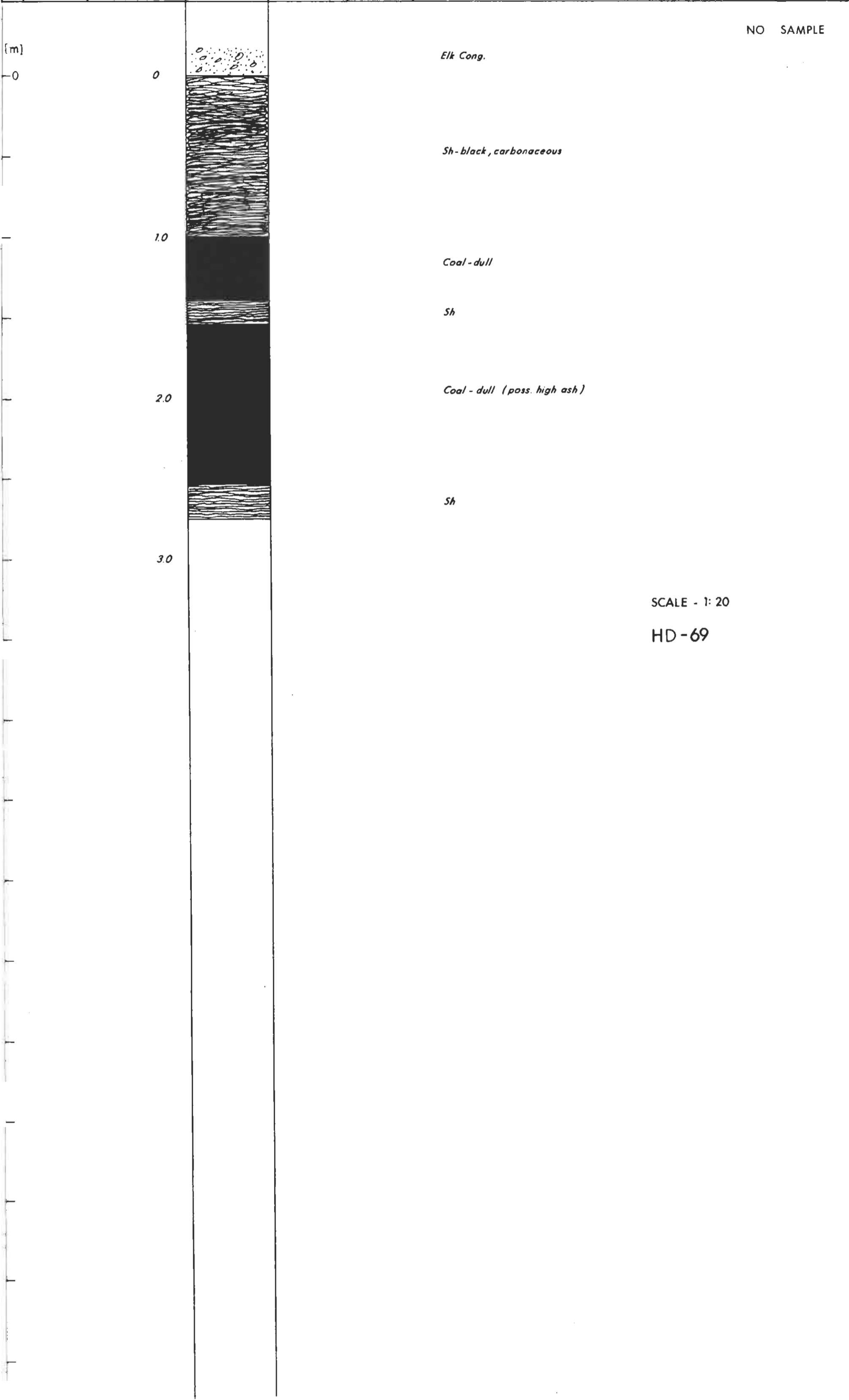
AREA: BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-4 P.68

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20
HD-69

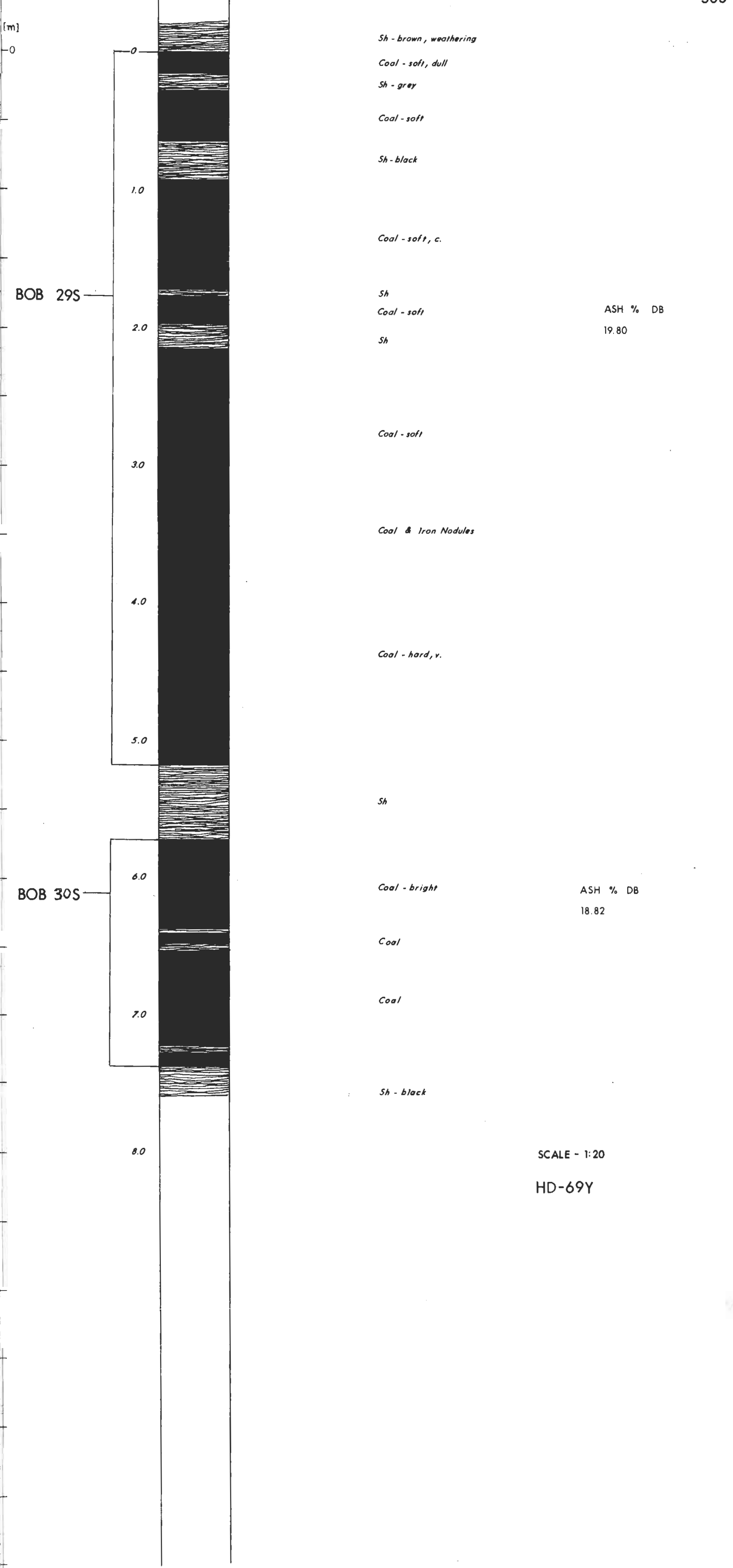
374

ENCLOSURE 10-3

STRATIGRAPHIC SECTION

DESIGNATION:	PART _____ OF _____
PROJECT: NORTH BLOCK	AUTHOR: R.J. MORRIS
AREA: BARE MOUNTAIN	DATE: 1981-02-26
LOCATION: S.E. BRITISH COLUMBIA	SOURCE OF DATA: BOOK RJM 80-4 P. 69-70

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



ASH % DB
19.80

ASH % DB
18.82

SCALE - 1:20
HD-69Y

SAMPLE
BOB 29S
30S

BOB 29S

BOB 30S

374

ENCLOSURE 10-3

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

AREA: BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-4 P. 70-71

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION	SAMPLE
[m]						
0		0			<i>Sh - brown, weathering</i>	ASH % DB 25:07
					<i>Coal - soft</i>	
		1.0			<i>Sh</i>	
					<i>Coal - soft</i>	
		2.0			<i>Sh</i>	
					<i>Coal - hard, v</i>	
		3.0			<i>Sh</i>	
					<i>Coal - dull</i>	
		4.0			<i>Sh</i>	
					<i>Coal - bright, soft</i>	
		5.0			<i>Sh</i>	
					<i>Coal - soft</i>	
		6.0			<i>Sh - rusty</i>	
					<i>Coal - soft</i>	
					<i>Sh - black</i>	

SCALE - 1:20

HD - 69E

374

ENCLOSURE 10-3

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R. J. MORRIS

DATE: 1981 - 02 - 26

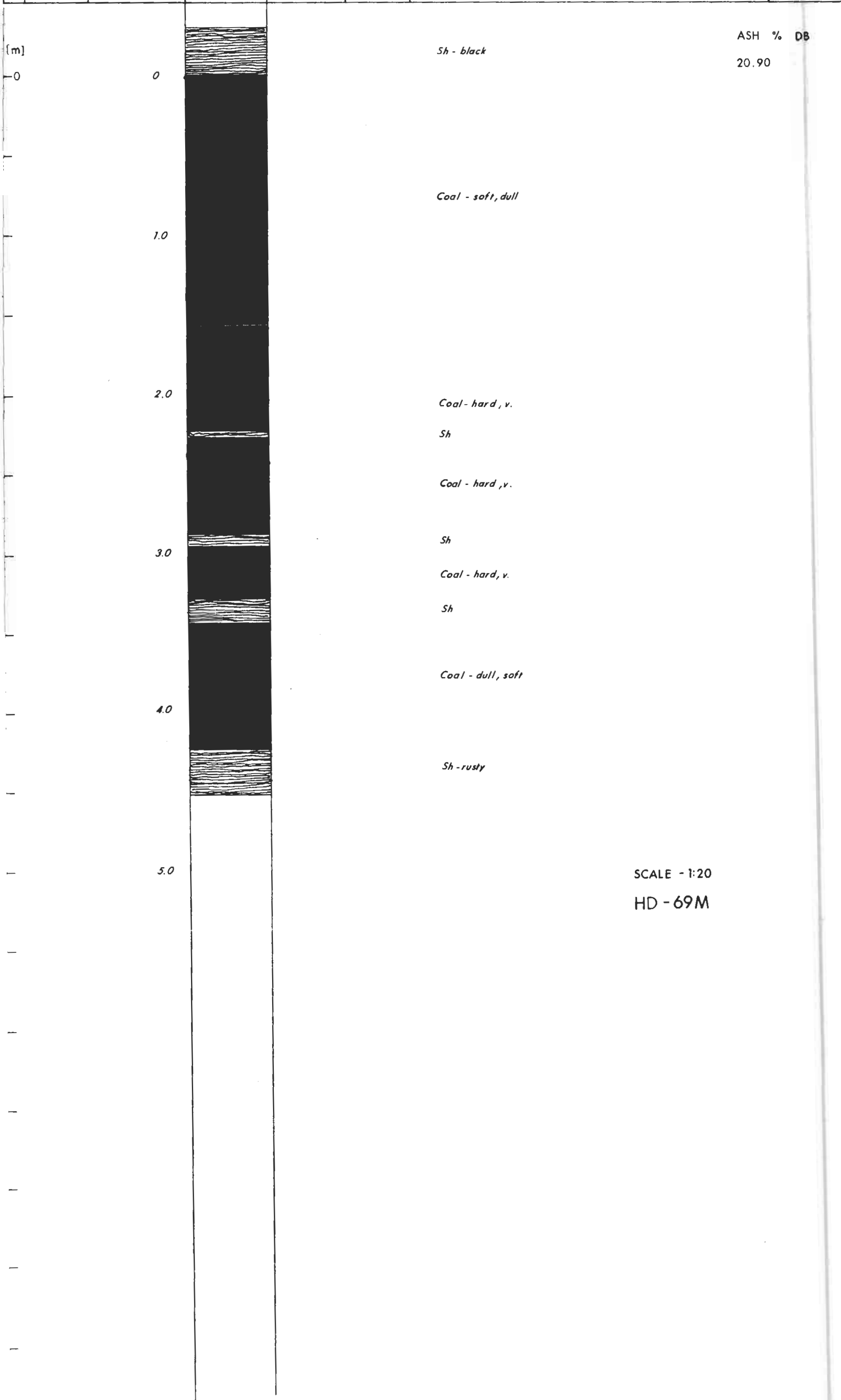
AREA: BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-4 P. 71-72

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20
HD - 69M

374

ENCLOSURE 10-3

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

AREA: BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-4 P. 74

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
		0				Coal - hard, v.	
						Sh	
		1.0				Coal - hard, v.	
						Sh	
						Coal	
						Sh	
						Coal	
						Sh	
		2.0				Coal - hard, v & c	ASH % DB 22.42
		3.0					
		4.0				Sh - black	
		5.0					
		6.0				Coal - soft, c.	
						Sh	
						Coal - soft, c.	
						Sh	
		7.0				Coal - soft, c.	ASH % DB 14.29
						Sh	
						Coal - soft, c.	
						Coal - iron nodules	
		8.0				Coal - soft, c.	
						Sh	
						Coal - soft, c.	
		9.0					
		10.0				Sh - brown	
		11.0				Sh - coal	
						Coal	
						Sh	
						Coal - hard, v.	
		12.0				Sh	
		13.0				Coal - soft, c	ASH % DB 16.11
		14.0				Sh - rusty	
						Coal	
						Sh	
						Coal	
						Sh	
		15.0				Coal	
						Sh - coal	
						Coal	
						Sh - coal	
		16.0				Coal - soft	
		17.0				Sh	
		18.0				Coal - hard, v.	
						Sh	
						Coal - soft, c.	
						Sh - coal	
						Coal - soft, c.	
		19.0				Sh - black, carbonaceous	

SCALE - 1:20

HC-69D

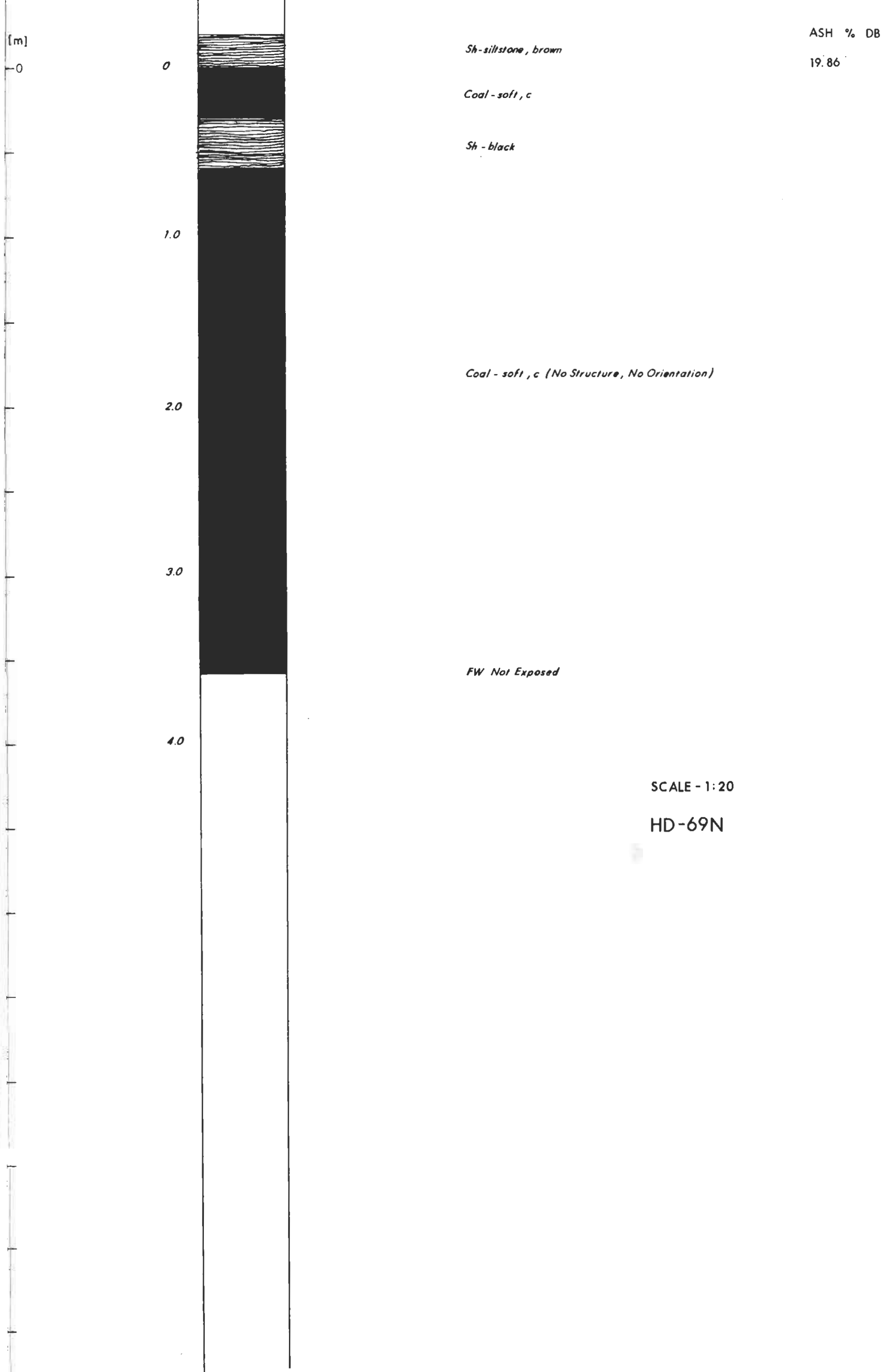
374

ENCLOSURE 10-3

STRATIGRAPHIC SECTION

DESIGNATION:	PART _____ OF _____
PROJECT: NORTH BLOCK	AUTHOR: R.J. MORRIS
AREA: BARE MOUNTAIN	DATE: 1981-02-26
LOCATION: S.E. BRITISH COLUMBIA	SOURCE OF DATA: BOOK RJM 80-4 P. 77

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20
HD-69N

374

ENCLOSURE 10-3

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

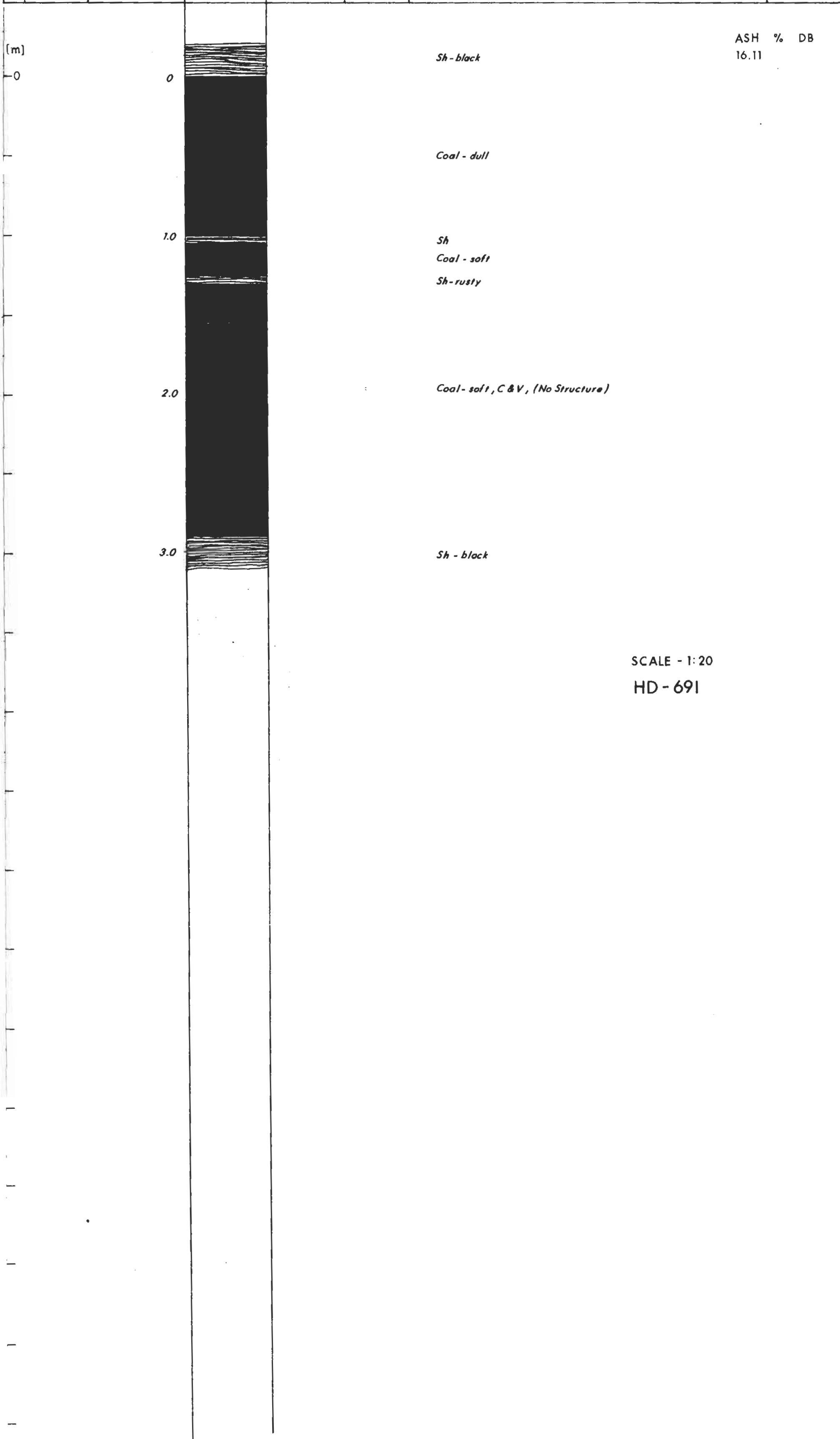
AREA: BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-4 P. 78

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



374

ENCLOSURE 10-3

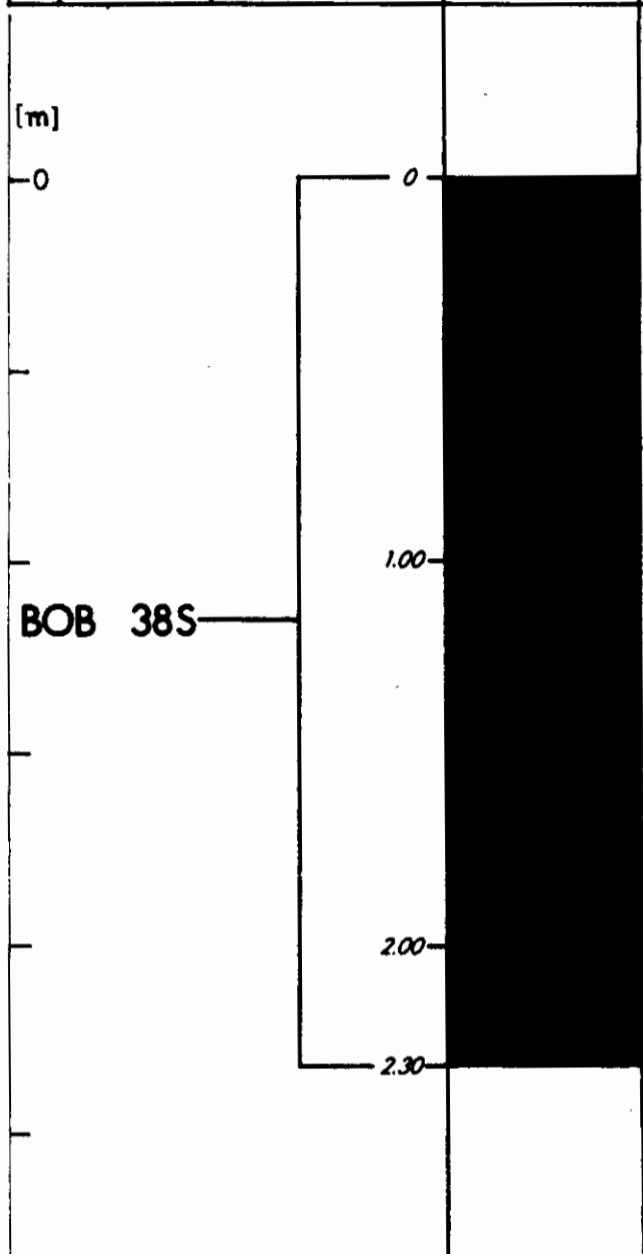
STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK
 AREA: BARE MOUNTAIN (at heli-pad)
 LOCATION: S.E. BRITISH COLUMBIA

PART _____ OF _____
 AUTHOR: R.J. MORRIS DATE: 1981-02-26
 SOURCE OF DATA:
 BOOK RJM 80- P.

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE 1:20

374

ENCLOSURE 10-3

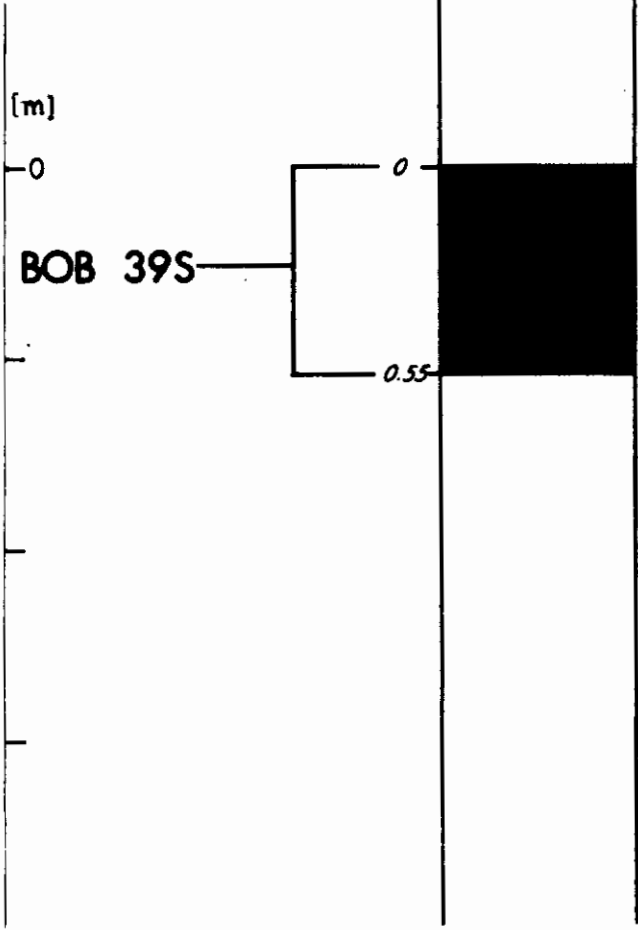
STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK
 AREA: BARE MOUNTAIN (at heli-pad)
 LOCATION: S.E. BRITISH COLUMBIA

PART _____ OF _____
 AUTHOR: R.J. MORRIS DATE: 1981-02-26
 SOURCE OF DATA:
 BOOK RJM 80- P.

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE 1:20

HJ-74A

374

ENCLOSURE 10-3

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT:	NORTH BLOCK
AREA:	BARE MOUNTAIN
LOCATION:	S.E. BRITISH COLUMBIA

AUTHOR:	R. J. MORRIS	DATE:	1981-02-26
SOURCE OF DATA:			
BOOK RJM 80-4 P. 86			

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE BOB 40S
					MAIN	AMPLIFIED	
[m]		0					ASH % DB 21.21
						<i>Sh - brown, abundant, v., bands</i>	
						<i>Coal - v.</i>	
						<i>Coal - hard, v.</i>	
						<i>Coal - hard, v.</i>	
		1.0				<i>Coal - hard, v.</i>	
						<i>Coal - hard, v.</i>	
		2.0				<i>Coal - hard, v.</i>	
						<i>Coal - hard, v.</i>	
		3.0				<i>Sh</i>	
						<i>Coal - hard, v.</i>	
		4.0				<i>Coal - hard, v.</i>	
						<i>Coal - hard, v.</i>	
		5.0				<i>Coal - hard, v.</i>	
						<i>Coal - hard, v., some yust</i>	
		6.0				<i>Sh - black, carbonaceous * highly sheared</i>	
		7.0					

SCALE - 1:20
HD-69L

JJM

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK

PART _____ OF _____

AREA: BARE MOUNTAIN (at heli-pad)

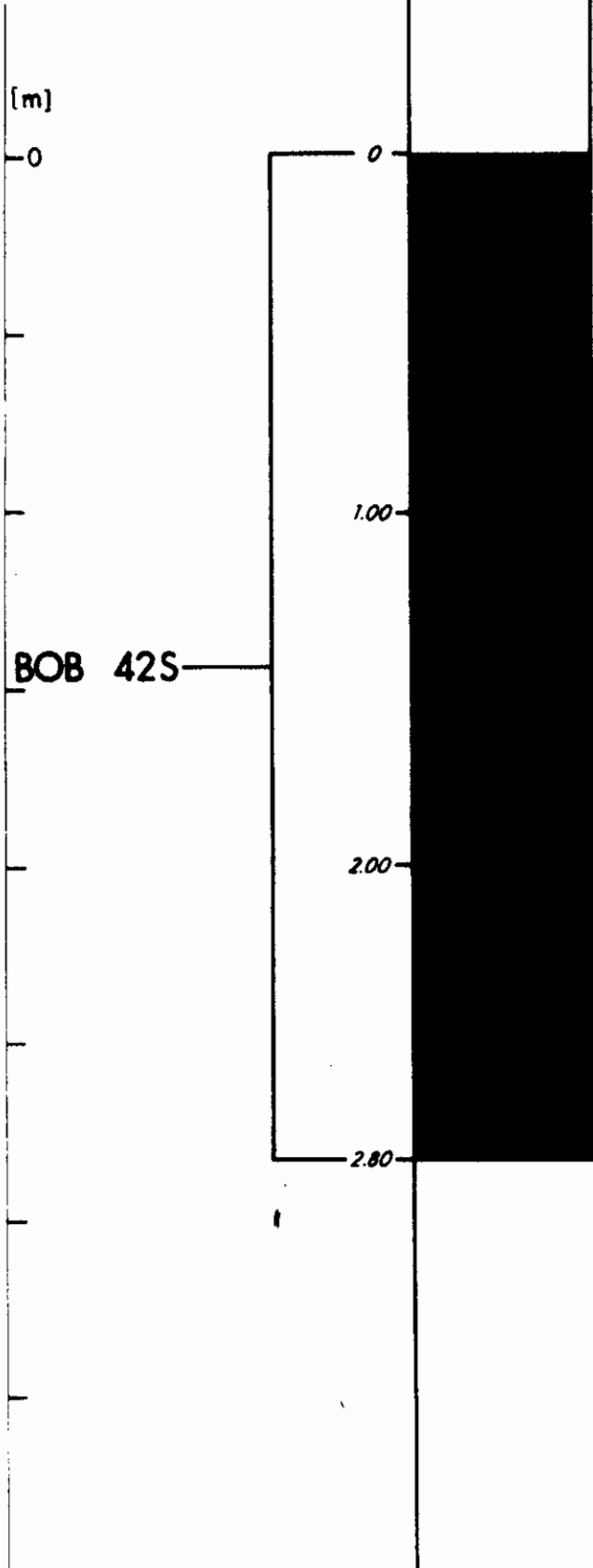
AUTHOR: R.J. MORRIS

DATE: 1981-02-26

LOCATION: S.E. BRITISH COLUMBIA

SOURCE OF DATA:
BOOK RJM 80- P.

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE 1:20

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

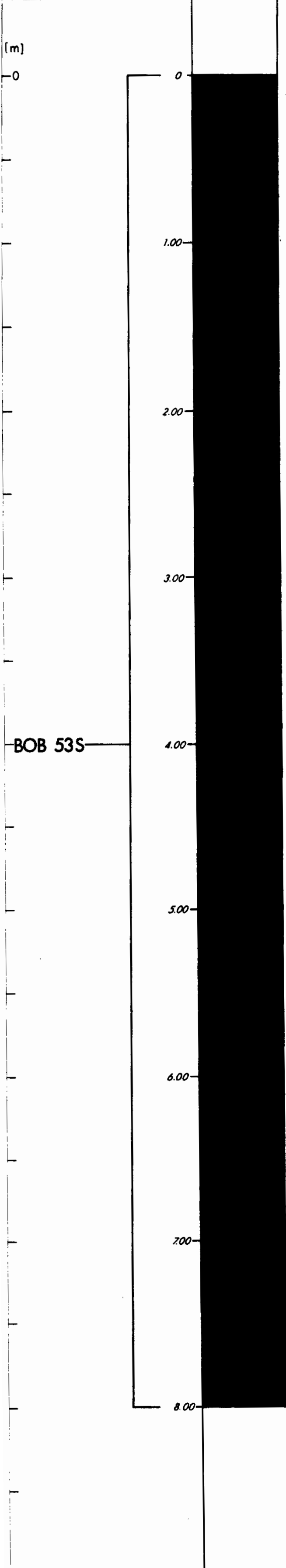
AREA: BARE MOUNTAIN (at heli-pad)

SOURCE OF DATA:

BOOK RJM 80- P.1

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
							BOB 53S



SCALE 1:20

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

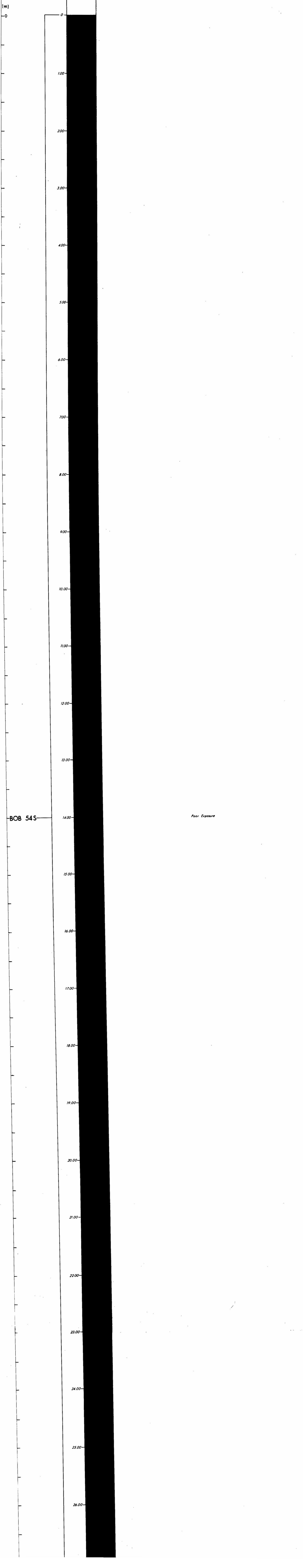
AREA: BARE MOUNTAIN (at heli-pad)

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80- P.1

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

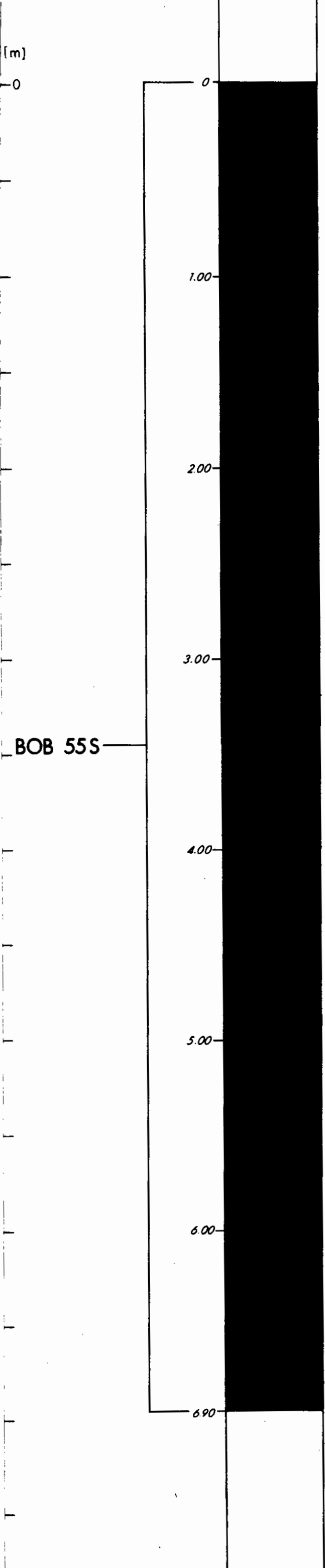
AREA: BARE MOUNTAIN (at heli-pad)

SOURCE OF DATA:

BOOK RJM 80- P.1

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
							BOB 55S



SCALE 1:20

HJ - 74 D

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK	AUTHOR: R.J. MORRIS	PART _____ OF _____
AREA: W. BARE MOUNTAIN	DATE: 1981-02-26	
LOCATION: S.E. BRITISH COLUMBIA	SOURCE OF DATA: BOOK RJM 80-2 P. 22-24	

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
		0				Sandstone - fgr.	
						Coal - bright	NO SAMPLE
		.35				Sh - very coaly	
		.70				Coal - bright	
		.90				Sh - black	
						Siltstone	
		390				Cover	
		490				Siltstone - Sh	
		1090				Coal - bright	
		1130				Fusinite	
		1135				Coal - bright	
		1180				Sh	
						Siltstone - ~ 10cm beds	
		1410				Coal - bright, vitrain bands	
		1460				Coal - dull, hard, poss. high ash	
		1480				Coal - bright	
		1560				Sh	
		150				Siltstone	

SCALE - 1:20

HC - 69C

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PART ____ OF ____

PROJECT: NORTH BLOCK

AUTHOR: R. J. MORRIS

DATE: 1981-02-26

AREA: W. BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S. E. BRITISH COLUMBIA

BOOK RJM 80-2 P. 24-27

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
		0					NO SAMPLE
						<i>Sandstone - fgr., brown, massive</i>	
						<i>Coal - bright, hard</i>	
		100				<i>Siltstone</i>	
		110					
		120					
		130				<i>Poss. thrust zone</i>	
		145					
						<i>Sh - black</i>	
		240					
						<i>Sandstone - fgr., massive</i>	
		400					
						<i>Sh - coaly</i>	
						<i>Sh - black</i>	
		505					
		520					
		530				<i>Sh - coaly</i>	
		560				<i>Sh</i>	
		565					
		585					
						<i>Sh - black</i>	
		1155					
						<i>Coal - bright</i>	
		1205					
						<i>Sh - black, carbonaceous</i>	
		1250					
		1270				<i>Sh - irregular, lenticular</i>	
		1280					
						<i>Coal - bright</i>	
		1350					
						<i>Sh - black</i>	
		1365					
		1370					

SCALE - 1:20

HC-69A

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

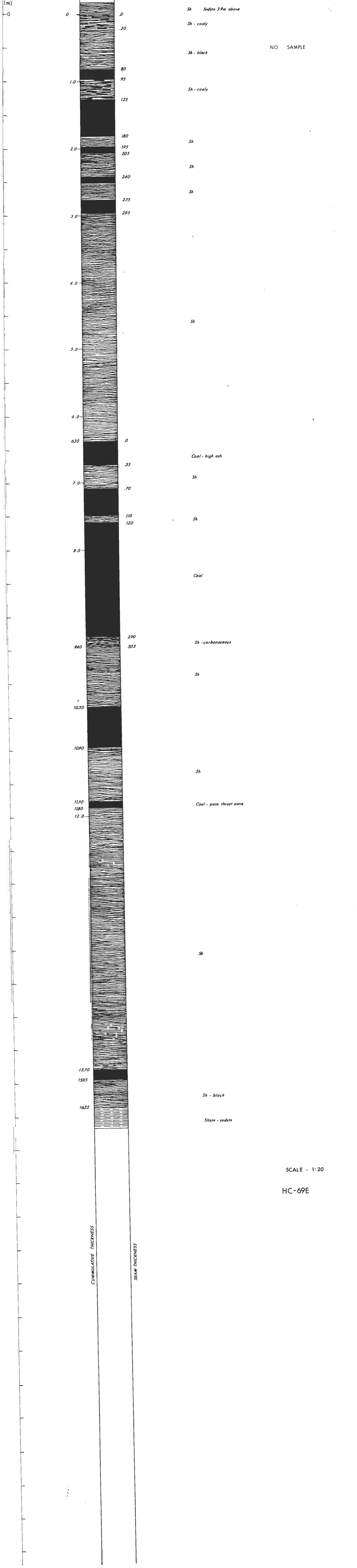
AREA: W. BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-2 P. 27-29

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20

HC-69E

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PART ____ OF ____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

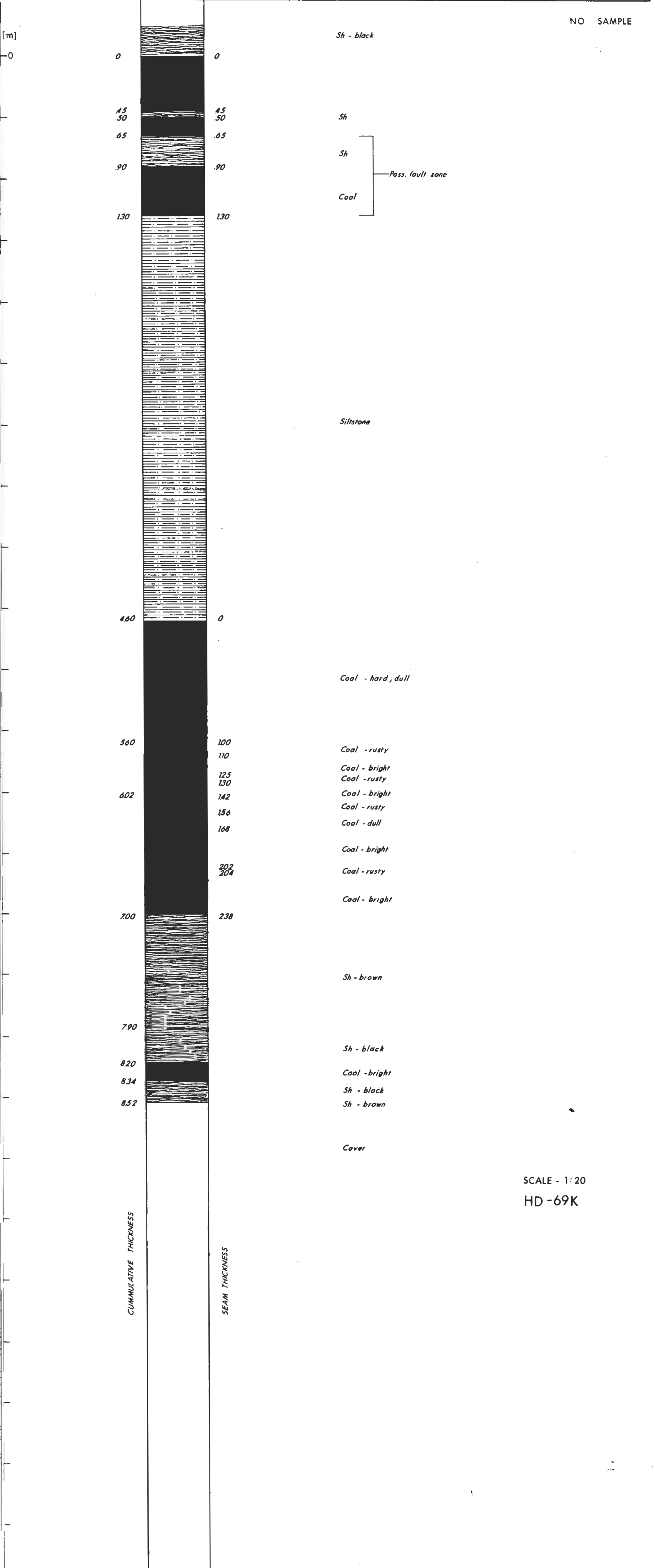
AREA: W. BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-2 P. 29-31

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20
HD-69K

374

ENCLOSURE 10-4

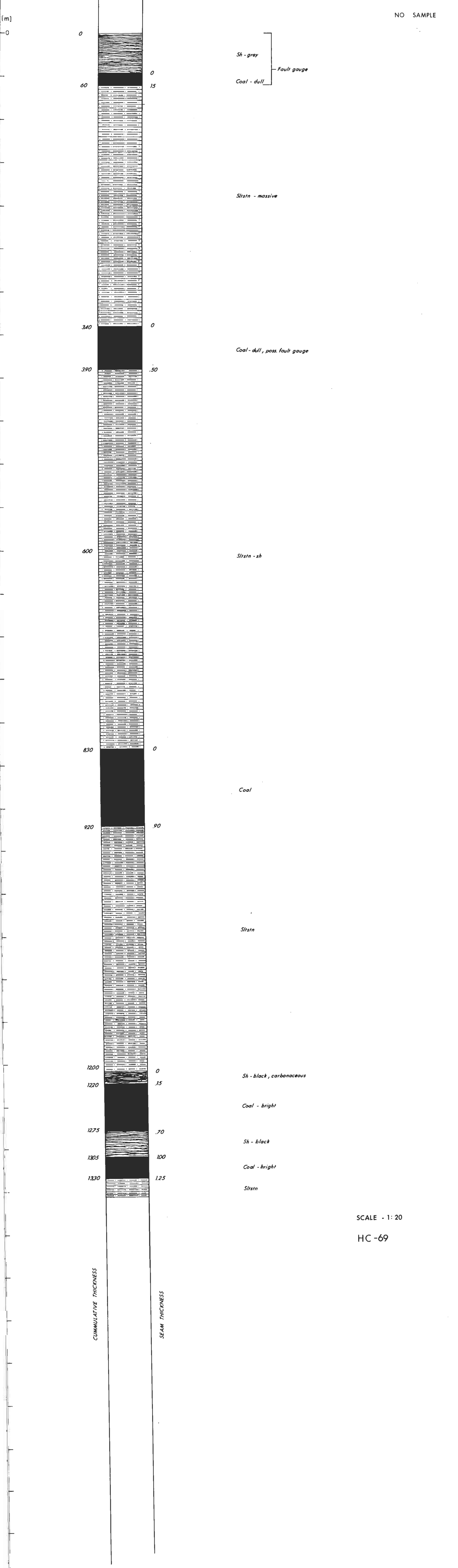
STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK
AREA: W. BARE MOUNTAIN
LOCATION: S.E. BRITISH COLUMBIA

PART _____ OF _____	
AUTHOR: R.J. MORRIS	DATE: 1981-02-26
SOURCE OF DATA: BOOK RJM 80-2 P. 31-32	

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20

HC-69

374

K-Shell - Bare Mountain 80(3)A

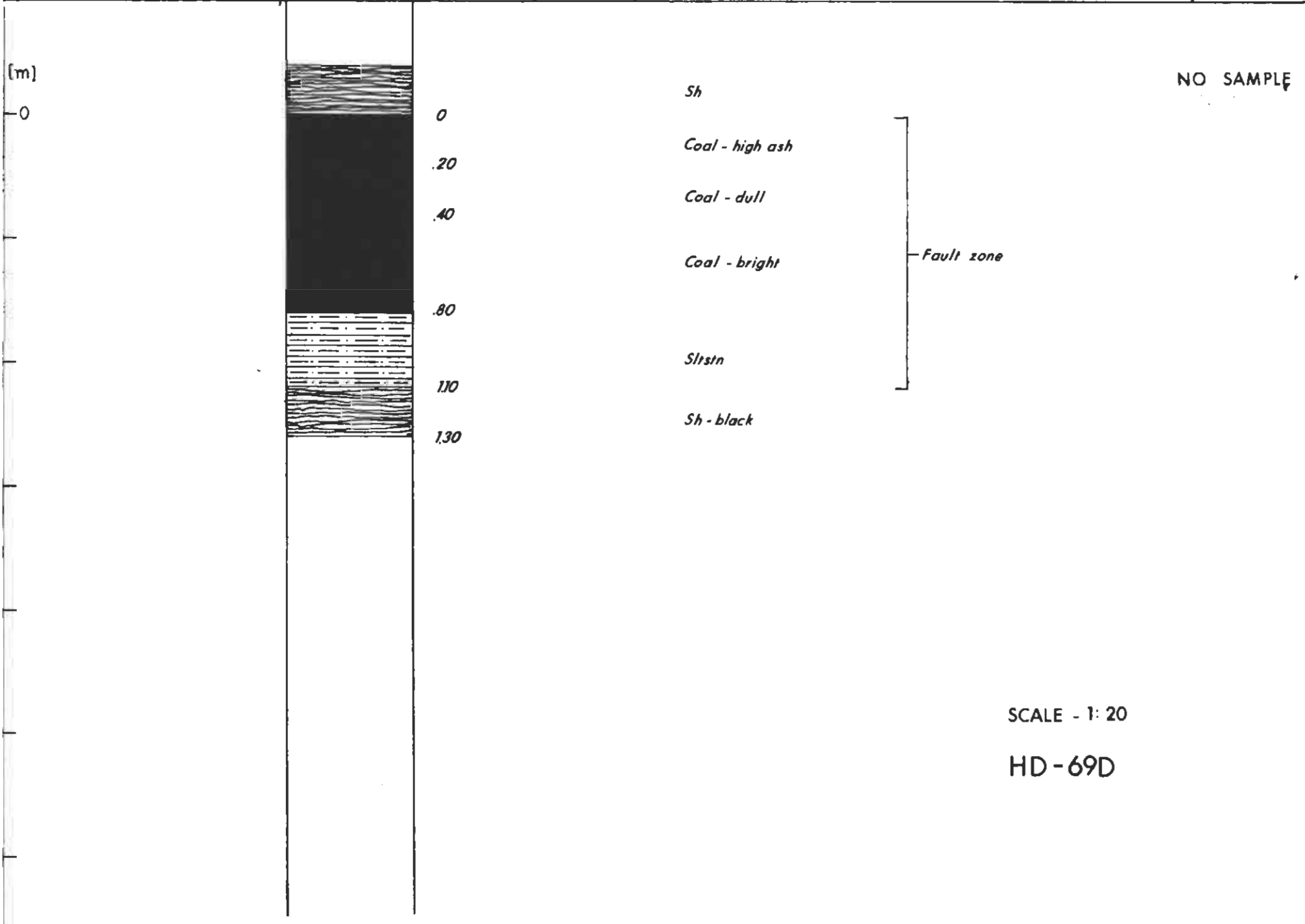
STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT:	NORTH BLOCK
AREA:	W. BARE MOUNTAIN
LOCATION:	S.E. BRITISH COLUMBIA

PART	OF
AUTHOR: R.J.MORRIS	DATE: 1981-02-26
SOURCE OF DATA: BOOK RJM 80-2 P. 32	

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20

HD-69D

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK

PART _____ OF _____

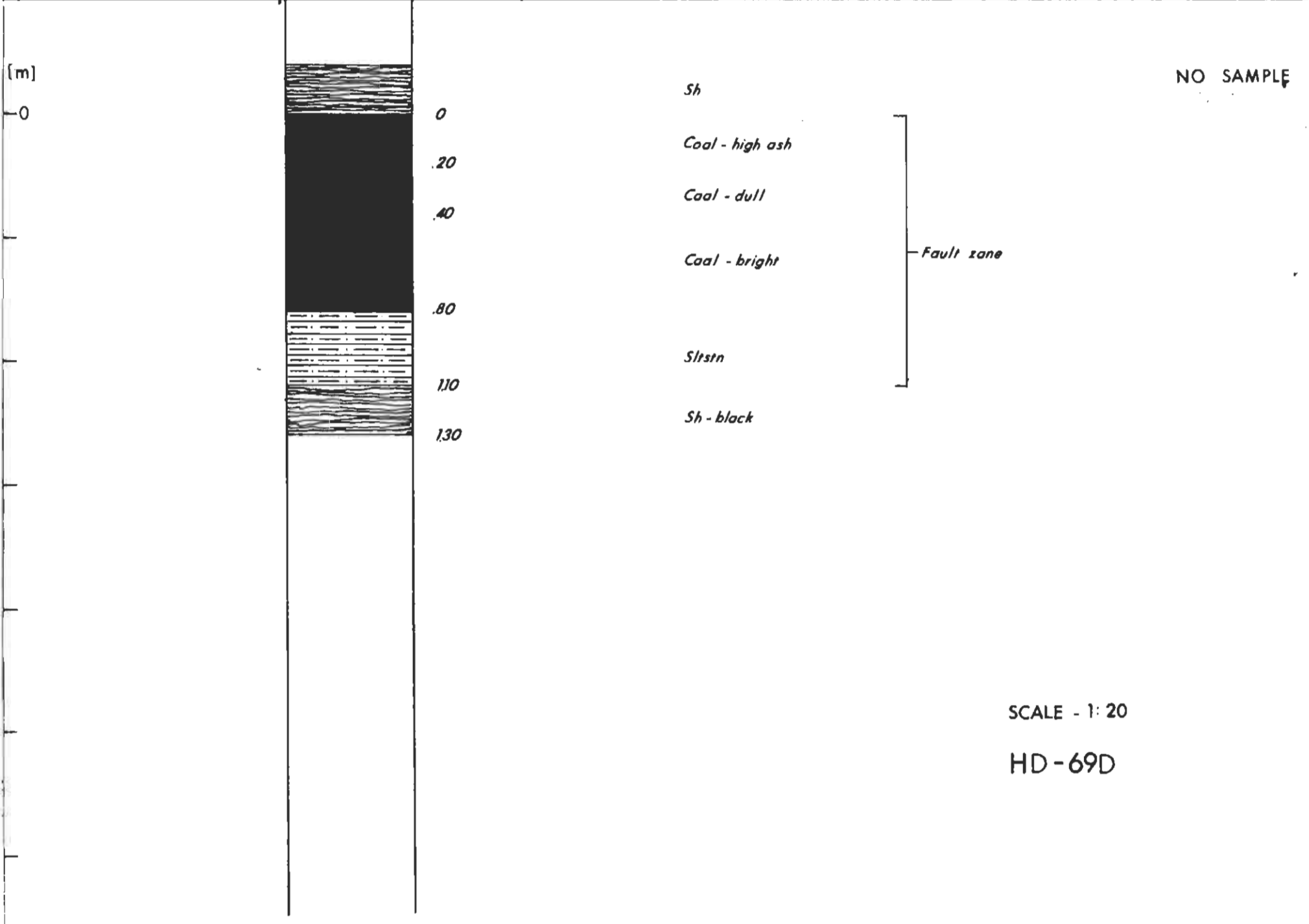
AREA: W. BARE MOUNTAIN

AUTHOR: R.J.MORRIS DATE: 1981-02-26

LOCATION: S.E. BRITISH COLUMBIA

SOURCE OF DATA:
BOOK RJM 80-2 P. 32

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R. J. MORRIS

DATE: 1981-02-26

AREA: BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-2 P. 33

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	
							NO SAMPLE
[m]		0					
		1.0				Siltstone - massive	
						Sh - black, carbonaceous -develops to coal up to 30cm down dip ~4-5m	
						Coal - poss. high ash	
						Sh - black	
		2.0				Coal - hard, bright	
						Sh - black	
						Siltstone - massive	
		3.0				Sh - black Coal - bright Sh - black	
						Siltstone - sandstone, massive	
		4.0				Sh - black, carbonaceous, -very coaly	
						Coal - hard, poss. high ash Sh - black, carbonaceous	
		5.0				Coal - hard, bright	
						Sh - black	
		6.0					
						Sh - black	
		7.0					
						Siltstone - sandstone	
		8.0					
		9.0					
		10.0				Sh - black	
		11.0					
		12.0					
						Sandstone	

SCALE - 1:20
HC - 69B

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R. J. MORRIS

DATE: 1981-02-26

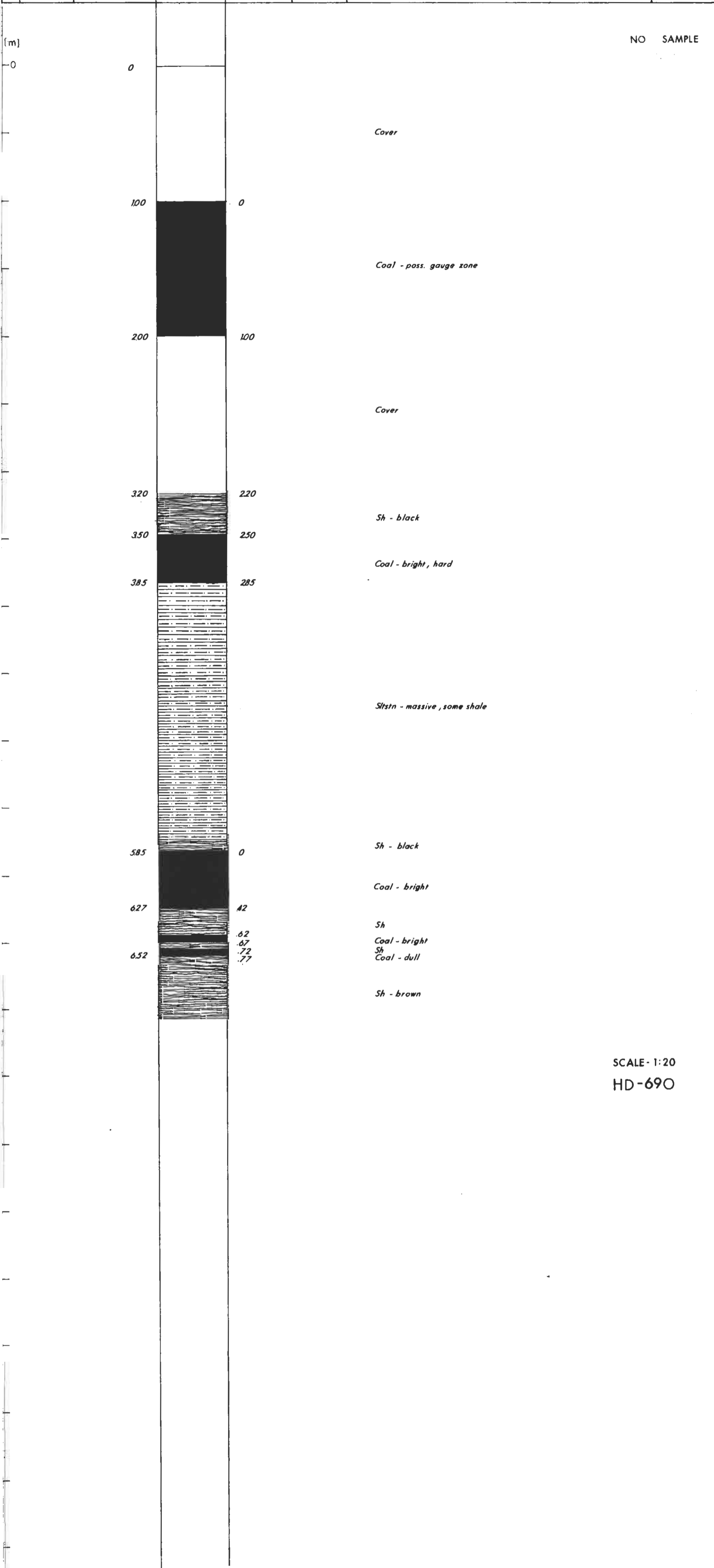
AREA: W. BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-2 P. 34

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20
HD-690

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PART _____ OF _____

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

DATE: 1981-02-26

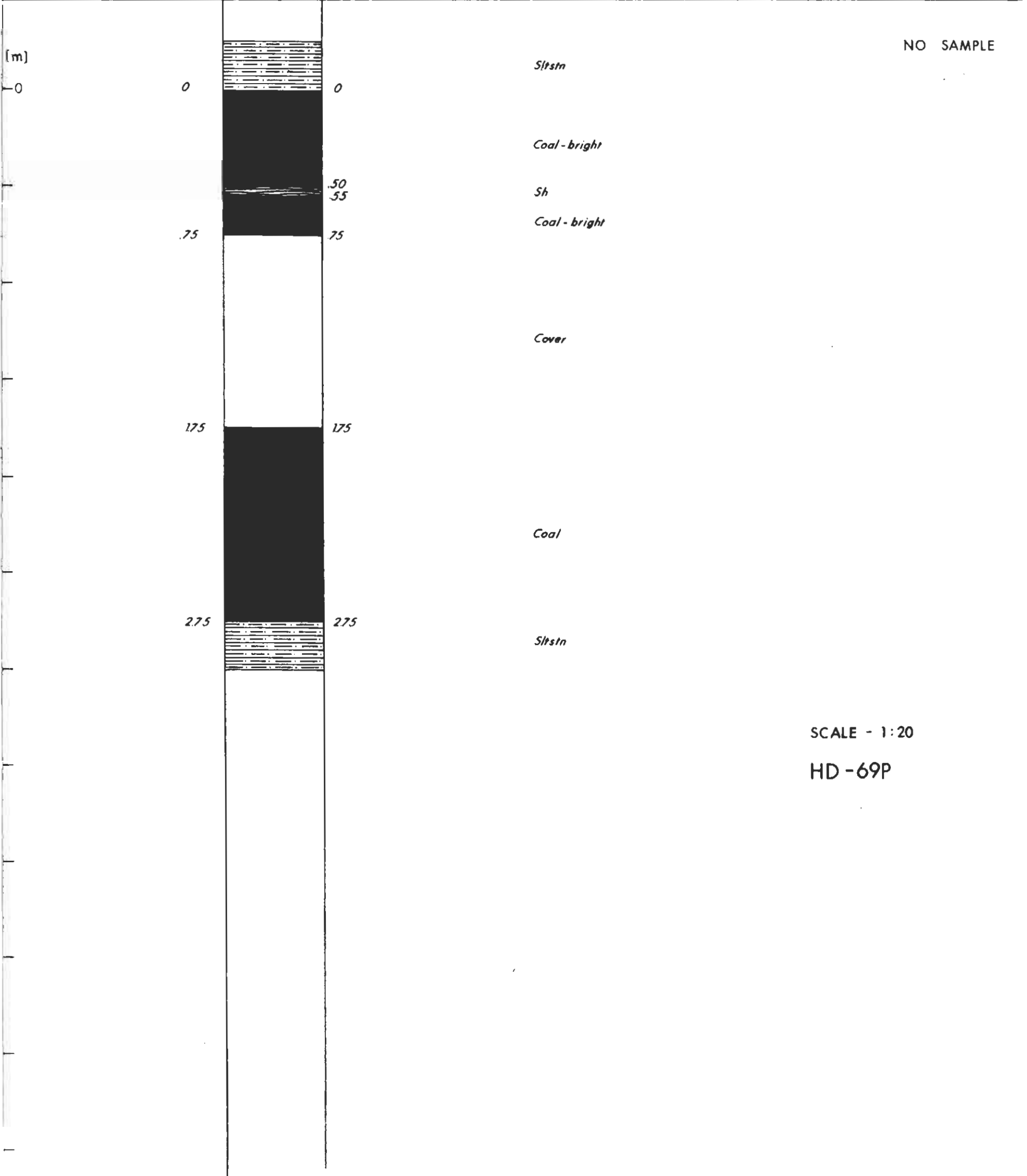
AREA: W. BARE MOUNTAIN

SOURCE OF DATA:

BOOK RJM 80-2 P. 35

LOCATION: S.E. BRITISH COLUMBIA

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



SCALE - 1:20

HD-69P

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK

AUTHOR: R.J.MORRIS

PART OF

DATE: 1981-02-26

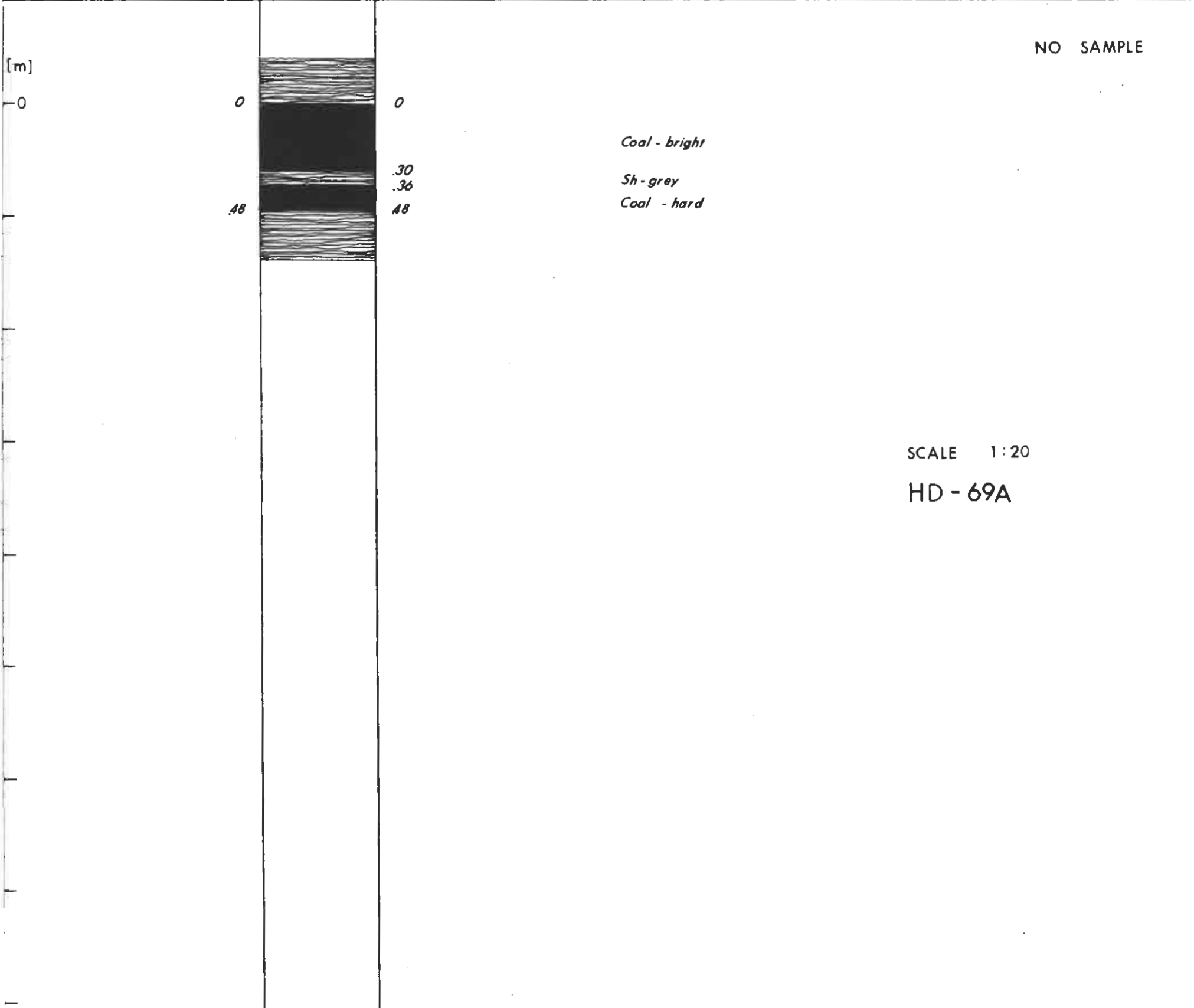
AREA: W. BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-2 P.40

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	



374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK

AUTHOR: R.J. MORRIS

PART _____ OF _____

DATE: 1981 · 02 · 26

AREA: W. BARE MOUNTAIN

SOURCE OF DATA:

LOCATION: S.E. BRITISH COLUMBIA

BOOK RJM 80-2 P. 41

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	

[m]								
0				0				NO SAMPLE
						Coal - bright		
				.25				
						Sh - grey		
				.57				
						Coal - bright		
				.97				
				107		Sh - black		
				122		Sh - carbonaceous		
				134		Coal - bright		
				149		Sh - grey		
						Coal - bright		
				176				
				179		Sh - grey		
						Coal - bright		
				224				

SCALE - 1:20

HD-69C

374

ENCLOSURE 10-4

STRATIGRAPHIC SECTION

DESIGNATION:

PROJECT: NORTH BLOCK

PART _____ OF _____

AREA: W. BARE MOUNTAIN

AUTHOR: R.J. MORRIS DATE: 1981 · 02 · 26

LOCATION: S.E. BRITISH COLUMBIA

SOURCE OF DATA:
BOOK RJM 80-2 P. 41

SCALE	CONTROL POINT	INTERVAL	LITHOLOGY	STRIKE & DIP	DESCRIPTION		SAMPLE
					MAIN	AMPLIFIED	

				0				NO SAMPLE
				.25		Coal - bright		
				.57		Sh - grey		
				.97		Coal - bright		
				107		Sh - black		
				122		Sh - carbonaceous		
				134		Coal - bright		
				149		Sh - grey		
				176		Coal - bright		
				179		Sh - grey		
				.		Coal - bright		
				224				

SCALE - 1:20

HD-69C