

1979 GEOLOGICAL REPORT
CL 4472 and 4473 NTS. 93-P-3
LICENSES FOR FEED
MOUNT REESOR COAL PROPERTY (SHELL)

MARCH, 1980
GEORGIA HOFFMAN, P. GEOL. (ALBERTA)
for CROWS NEST RESOURCES LIMITED (OPERATOR)

CONFIDENTIAL

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

00 550



1 9 7 9 G E O L O G I C A L R E P O R T

ON FIELD WORK DONE IN AUGUST, 1979

B.C. COAL LICENCES 4472 AND 4473

HELD BY: SHELL CANADA RESOURCES LIMITED

OPERATED BY: CROWS NEST RESOURCES LIMITED

M O U N T R E E S O R C O A L P R O P E R T Y

PEACE RIVER LAND DISTRICT, N.E., B.C.

MAP REFERENCE: N.T.S. 93P3

LAT. 55° 04' N

LONG 121° 26' W

OPEN FILE

MARCH 27, 1980

GEORGIA HOFFMAN, P. GEOL. (ALBERTA)

FOR CROWS NEST RESOURCES LIMITED

PROFESSIONAL VERIFICATION OF REPORT

1979 Geological Report
Mt. Reesor Coal Property
Coal Licences 4472 and 4473
Peace River Land District, B.C.

Miss Georgia Hoffman carried out the 1979 geological field program on the Mt. Reesor Coal Property held by Shell Canada Resources Limited, operated by Crows Nest Resources Limited. She also prepared this report. Mr. Frank Martonhegyi supervised the activity of this program under the general direction of the undersigned.

Georgia Hoffman graduated from the University of Pennsylvania in Philadelphia, Pennsylvania, U.S.A., with a Bachelor's degree in Geology. She is a member, as a Professional Geologist, of the Association of Professional Engineers, Geologists, and Geophysicists of Alberta. Her experience in Western Canadian coal exploration includes positions with:

- Denison Mines Limited, Vancouver, B.C.
- Shell Canada Resources Limited, Calgary, Alberta
- Crows Nest Resources Limited, Calgary, Alberta

She is self-employed since August 1, 1979.

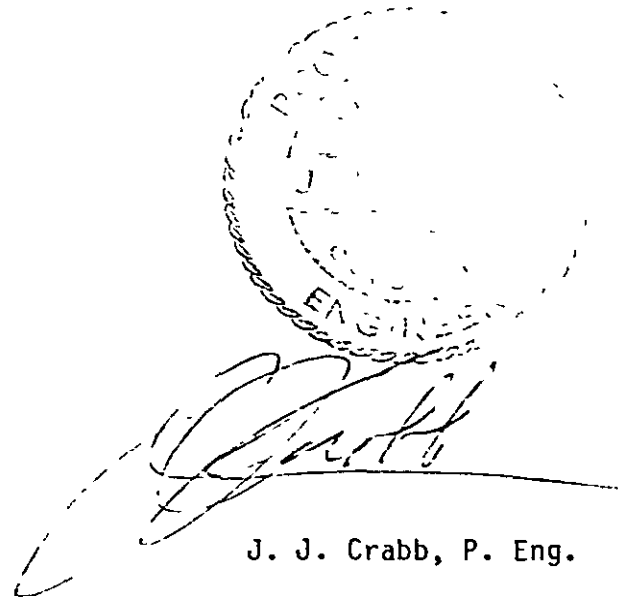
Frank Martonhegyi, M.E., graduated in Mining Geological Engineering from the University of the Heavy Industry, Hungary, in 1962; and received post-graduate training at the University of Saskatchewan, Saskatoon, in 1969-1971. His experience in Western Canadian coal exploration since 1971 includes positions with:

- CanPac Minerals Ltd., Calgary, Alberta
- Shell Canada Resources Ltd., Calgary, Alberta
- Crows Nest Resources Ltd., Calgary, Alberta

His prior experience includes underground coal mining geology, geo-technical engineering and geochemistry in Hungary, Austria and Canada.

He currently holds the position of Senior Staff Geologist for Crows Nest Resources Ltd. supervising coal exploration in British Columbia.

I consider both the aforementioned geologists to be well qualified to undertake responsibilities they were assigned for this project. I am satisfied that the attached report dated March 27, 1980 has been competently prepared and justly represents the information obtained from this project.

A circular professional seal for a Professional Engineer is visible, partially overlapping a handwritten signature. The seal contains the text "PROFESSIONAL ENGINEER" and "BRITISH COLUMBIA". The signature is written in cursive and appears to read "J. J. Crabb".

J. J. Crabb, P. Eng.

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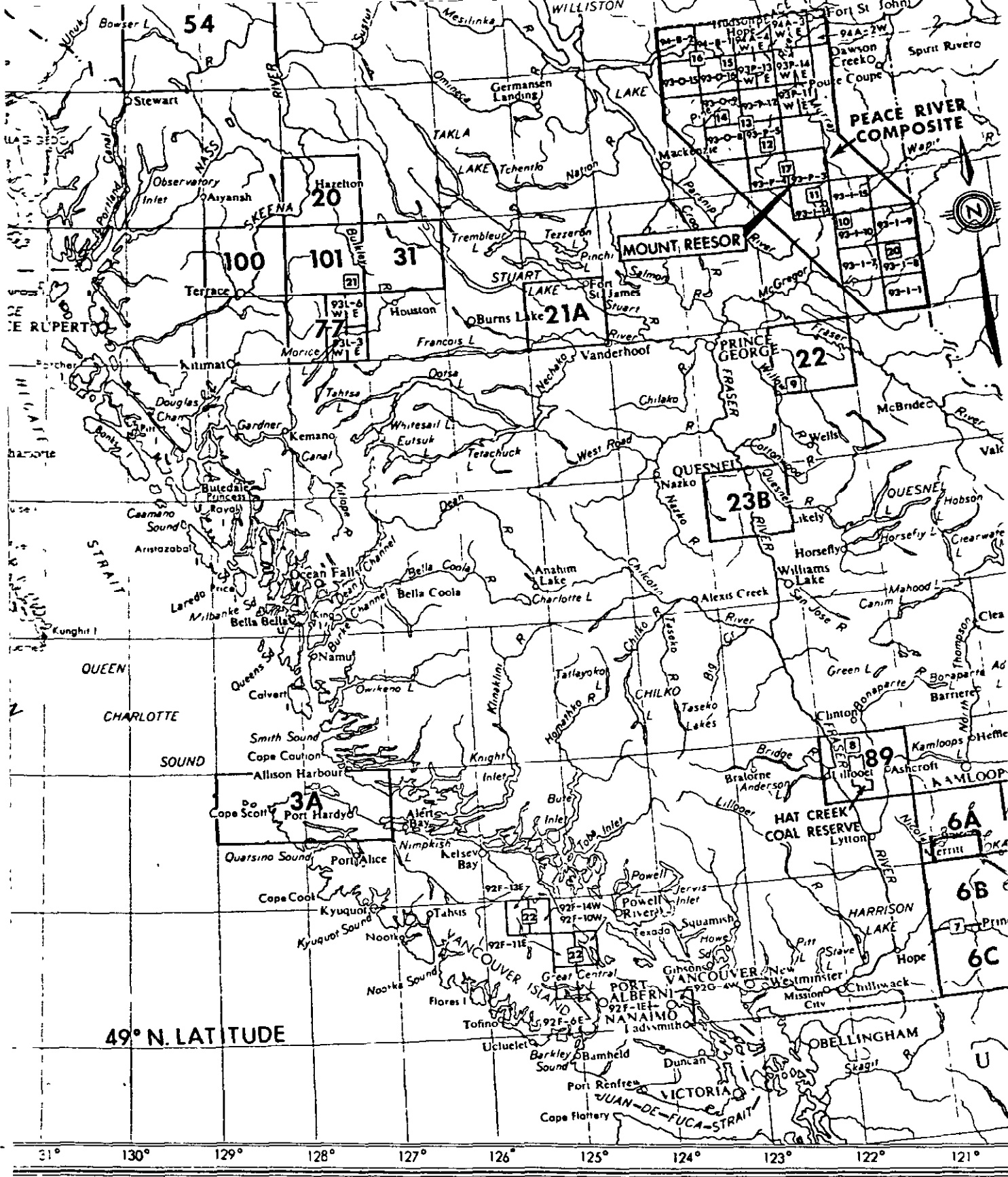
	<u>SCALE</u>	<u>PAGE NO.</u>
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1.0 SUMMARY

The Mt. Reesor Property consists of 594 hectares of coal licences held by Shell Canada Resources Ltd. These licences lie within Lower Cretaceous strata of the Foothills coal field of northeastern British Columbia, and are located approximately 105 km southwest of Dawson Creek, B.C.

Crows Nest Resources Ltd. carried out a program of geologic mapping on the Mt. Reesor Property during August of 1979. There are not roads or trails near the Mt. Reesor licences at present, and the field work was carried out from Chetwynd, B.C. with helicopter support.

The 1979 program of geologic mapping defined the stratigraphy and geologic structure of the Mt. Reesor Property. The presence of coal seams in several formations was established, and the seams of the upper Gething Formation may have the best economic potential. The Gething Formation is known to contain good quality metallurgical coal in areas near Mt. Reesor, but more work will be required to provide coal quality data for the seams of Mt. Reesor.



49° N. LATITUDE

31° 130° 129° 128° 127° 126° 125° 124° 123° 122° 121°



Crows Nest Resources Limited
ENGINEERING

MOUNT REESOR

LOCATION

MAP

PAUL H. SLOAN 1:50,000 4 000 000
 04 1 MAR 1980 1271152
 HC - 49D

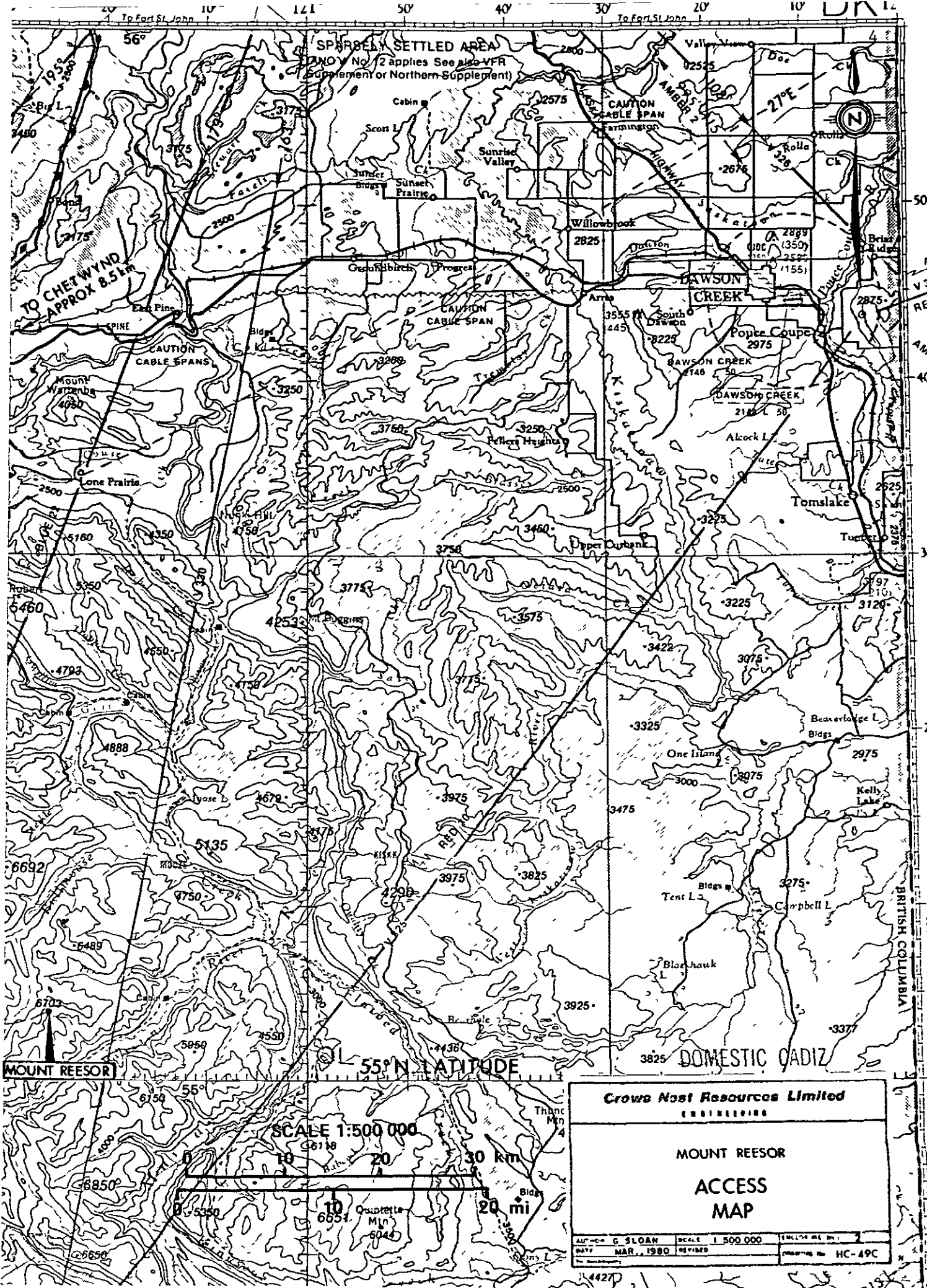
2.0 LOCATION, ACCESS AND TENURE

Shell Canada Resources Ltd. obtained British Columbia Coal Licences No. 4472 and 4473 on December 29, 1978. These two licences comprise the Mt. Reesor Property and cover an area of 594 hectares. Shell's wholly-owned subsidiary Crows Nest Resources Ltd. is the operator and conducted the 1979 exploration work on the property. All pertinent information concerning coal right tenure is tabulated on Enclosure 3: B.C. Coal Licences Tenure Standing and shown on Enclosure 4: Coal Land Disposition Map. 5,94

The Mt. Reesor Property lies in the Peace River Coal Fields in the Foothills of the Rocky Mountains in northeastern British Columbia. It is some 105 km southwest of Dawson Creek, B.C. (Enclosures 1 and 2: Location and Access Maps).

There are no roads or trails on the property itself. The nearest roads lie on Mt. Spieker and in the valleys of the Wolverine River and Bullmoose Creek. Access to the property was gained by means of helicopter during the 1979 exploration program.

The relief of the property varies from 1400 to 2030 metres. The area is covered by spruce forest at the lower elevations and by alpine vegetation at higher altitudes.



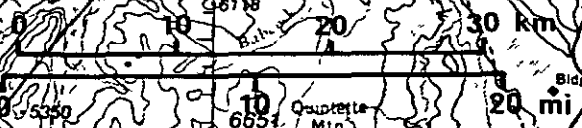
SPARSELY SETTLED AREA
 ZONING No. 72 applies See also VFR
 Supplement or Northern Supplement)

TO CHEY WYND
 APPROX 8.5 km

MOUNT RESOR

55°N LATITUDE

SCALE 1:500 000



Crows Nest Resources Limited ENGINEERING		
MOUNT RESOR ACCESS MAP		
AUTHOR: G SLOAN	SCALE: 1 500 000	ENCLOSURE NO.:
DATE: MAR, 1980	REVISED:	CLASSIFICATION: HC-49C

BRITISH COLUMBIA

ALBERTA

100 000 1:100 000

4427

**CROWS NEST RESOURCES LIMITED
EXPLORATION**

**B. C. COAL LICENCES
TENURE STANDING**

BLOCK: MT REESOR **PROJECT:** **YEAR:** 1980
GROUP: NOT GROUPED **MT REESOR** **DATE:** MARCH, 80
PEACE RIVER LAND DISTRICT

PROJECT		BLOCK			GROUP				LICENCE				ACQ/ADM	RENTALS	REQUIREMENT WORK					BUDGET	EXP	POTL	COMMITMENTS - J V	REMARKS							
NAME	LIC'S TOTAL NO	AREA TOTAL AC/HR	NAME	LIC TO NO	AREA TO AC/HR	LIC TO NO	AREA TO AC/HR	YEAR	NO	DIS	EXP. DATE	AREA AC/HR	DIS	AN	LR	DR	RD	EXP	RED	GROUP	LABOR	MATERIAL	ANNUAL	CURRENT YEAR APE	YEAR	TOTAL	SHELL	OTHER THAN B.C. OIL	DESCRIPTION		
MT REESOR	2	538	MT REESOR	2	538													4	2	3,400	1/2	4								ONE LAND MAP SHEET	

GENERAL REMARKS FILL NECESSARY LINES AND COLUMNS ONLY. COAL DEVELOPMENT POTENTIAL IS "Y" (P.P.V.E) UNLESS OTHERWISE STATED. LICENCES HELD BY SHELL CANADA RESOURCES LTD = CNRL IS THE OPERATOR

Enclosure 3

3.0 THE 1979 EXPLORATION PROGRAM

The 1979 exploration program for the Mt. Reesor Property consisted of geologic mapping with the objective of defining the geologic structure and confirming the stratigraphy and the presence of coal-bearing strata.

The mapping program was undertaken during the month of August from Chetwynd, B.C., and access to the property was provided by helicopters contracted from Maple Leaf Helicopters Ltd. The results of the field mapping were compiled on aerial photographs and transferred to a 1:50 000 scale topographic map. This information is presented in this report on two aerial photographs (Enclosures 8, 9) and on a Regional Geology Map (Enclosure 7) which is also an index to the photographs.

4.0 GEOLOGY

The Mt. Reesor Property contains Lower Cretaceous sediments of the Minnes Group through Commotion Formation (Enclosure 6). Of these, the Gething and Commotion Formations are both known to contain seams of metallurgical coal in the Mt. Reesor area. The Commotion Formation seams thin and die out to the north, while the Gething seams thin to the south. The Cadomin Formation and the upper Minnes Group also contain some coal in the Mt. Reesor area.

The Mt. Reesor Property covers an area of complex geologic structure. Two major faults and numerous folds cross the licence area.

4.1 STRATIGRAPHY

The nonmarine sediments of the upper Minnes Group form the base of the geologic section on the Mt. Reesor Property. These beds were explored for coal by hand trenching, and two seams on the order of 1 metre thick were found.

The Cadomin Formation unconformably overlies the Minnes Group strata and consists mainly of quartz pebble conglomerate. Reconnaissance mapping located several prominent conglomerate beds on the west ridge of Mt. Reesor which are perhaps due to an interfingering of Cadomin and Gething facies. The lowermost exposed conglomerate was mapped as Cadomin Formation to allow sufficient thickness for the overlying Gething Formation. Discontinuous coal seams and carbonaceous shale units were found to be interbedded with this conglomerate on the high ground south of the Mt. Reesor summit at the southern boundary of Coal Licence 4472.

The Gething Formation conformably overlies the Cadomin Formation, and consists predominately of nonmarine sediments, although at least

TABLE OF FORMATIONS FOR THE MT. REESOR AREA

GROUP	FORMATION	LITHOLOGY	APPROXIMATE THICKNESS
FORT SAINT JOHN	COMMOTION	SANDSTONE, SILTSTONE, CONGLOMERATE SHALE AND COAL SEAMS; PREDOMINATELY NONMARINE, ERODED SECTIONS OF COMMOTION FM. STRATA ARE THE YOUNGEST SEDIMENTS ON THE MT. REESOR PROPERTY.	INCOMPLETE SECTION
	MOOSEBAR	DARK GREY MARINE SHALES CONTAINING SIDERITIC CONCRETIONS; UPPER PORTION INTERBEDDED WITH SANDSTONE & SLIT-STONE; GRADATIONAL CONTACT WITH COMMOTION FM.	200 M
	BLUESKY	GLAUCONITIC SANDSTONE & PEBBLE CONGLOMERATE.	1 M
BULLHEAD	GETHING	SANDSTONE, SHALE (INCLUDING ONE MARINE BAND), SILTSTONE, AND CONGLOMERATE; MAJOR COAL SEAMS IN UPPER PORTION.	300 M
	CADOMIN	WELL-INDURATED PEBBLE CONGLOMERATE WITH CHERT AND QUARTZITE CLASTS & QUARTZOSE SAND MATRIX, INTERBEDDED WITH SANDSTONE, SHALE, AND COAL SEAMS.	VARIABLE, UP TO 30 M
	UNCONFORMITY		
MINNES		THIN INTERLAYERED BEDS OF NONMARINE SANDSTONE, SILTSTONE AND SHALE; SOME COAL SEAM DEVELOPMENT IN THIS AREA; MARINE SEDIMENTS IN LOWER PORTION.	1,000 M

one marine horizon of dark gray shale has been identified. The main seams of interest on the two Mt. Reesor licences were found to be contained in the upper Gething Formation in the syncline which runs through the summit of Mt. Reesor. Hand trenching confirmed one of these seams to be 2 metres thick, underlying a resistant grey sandstone roof. Attempts to expose other seams known to be present in the upper Gething strata of neighboring properties were unsuccessful due to the depth of weathering and colluvium cover. The coal potential of the underlying Gething strata was also explored by hand trenching, but no seams thicker than 1.5 metres were found, and most of the seams were 1 metre or less in thickness.

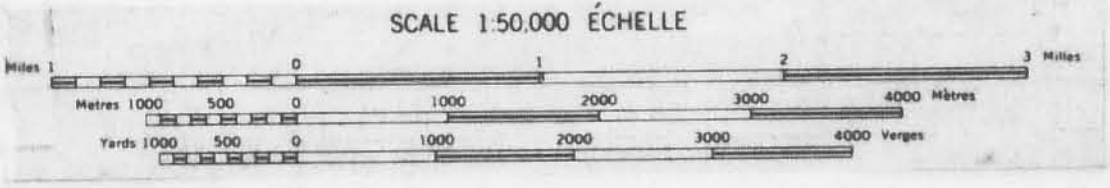
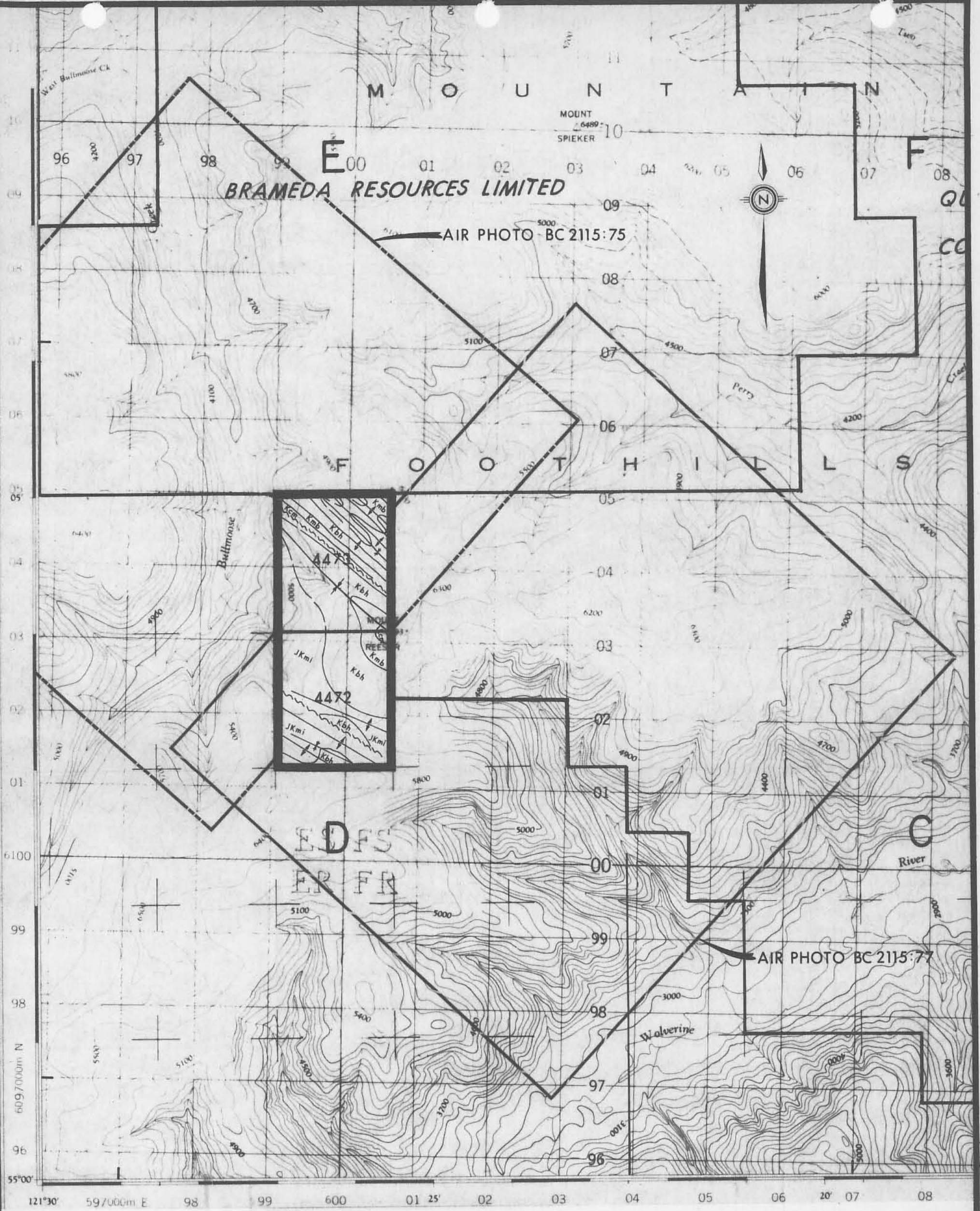
The Moosebar Formation overlies the Gething Formation and consists of a thick sequence of dark grey marine mudstones and siltstones which are exposed near the summit of Mt. Reesor and in a tributary to Bullmoose Creek. The Bluesky Formation, a thin but distinctive glauconitic unit lying between the Gething and Moosebar Formations was not exposed but should be present in the Mt. Reesor area.

The Commotion Formation conformably overlies the Moosebar Formation. The basal unit of the Commotion Formation is a thick sandstone sequence which makes up the summit of Mt. Reesor. That sandstone is overlain by a sequence of sediments containing major coal seams, but those strata have been removed from the summit by erosion. Other partial sections of Commotion Formation strata are located on the northern portion of Coal Licence 4473, as shown on Attachment 7. No Commotion Formation coal seams were trenched during the 1979 exploration program.

4.2 STRUCTURE

The Mt. Reesor Property covers an area of complex geologic structure. The main folds of the property are a northwest plunging syncline which runs through the summit of Mt. Reesor, and an anticline running through the centre of Licence 4472. The anticline is truncated by a thrust fault which repeated a sequence of folded Cadomin and Gething Formation strata in the southwest corner of that licence.

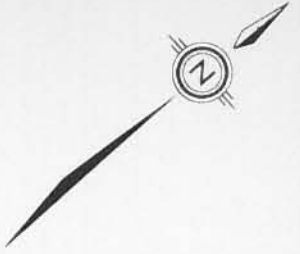
A second thrust fault runs parallel to the Mt. Reesor syncline through the centre of Licence 4473. This fault moved the strata of the Mt. Reesor syncline over the block of more intensely folded strata that forms the northeast half of Licence 4473.



LEGEND

- Kcm COMMOTION FORMATION
- Kmb MOOSEBAR FORMATION
- Kbh BULLHEAD GROUP
- JKmi MINNES GROUP
- COAL LICENCE; 4473, 4472
- AIR PHOTO APPROXIMATE BOUNDARIES, 1:25 000
- ANTICLINE
- SYNCLINE
- FAULT

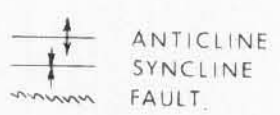
Crows Nest Resources Limited		
EXPLORATION		
NORTHEASTERN B.C. PEACE RIVER LAND DISTRICT MOUNT REESOR		
REGIONAL GEOLOGY MAP		
SHELL - CNRL LICENCES: MT. REESOR NTS: 93-P-3 BLK: D MAP 1 OF 1		
AUTHOR G. HOFFMAN	SCALE 1:50 000	ENCLOSURE No. 7
DATE MAR, 1980	REVISED	DRAWING No. HH-49
To Accompany		



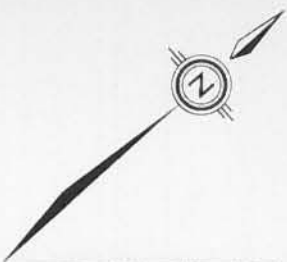
Recon. Geology
of the
Mt. Reesor Block
(of 3D)
G. Hoffman Aug. 1977

LEGEND

- Ksh SHAFTESBURY FORMATION
- Kcm(b) } COMMOTION FORMATION
- Kcm(h) }
- Kcm(g) }
- Kmb MOOSEBAR FORMATION
- Kgt GETHING FORMATION
- Kcd CADOMIN FORMATION
- JKmi MINNES GROUP



Crows Nest Resources Limited		
EXPLORATION		
M.T. REESOR		
N.E.B.C.		
PHOTO GEOLOGY, RECONNAISSANCE		
FIELD GEOLOGY		
(PHOTO No. BC 2115: 77)		
AUTHOR: Hoffman	SCALE: 1:25 000	ENCLOSURE No: 8
DATE: 80 03 25	REVISED:	DRAWING No: HH-49B
To Accompany		



LEGEND

- Ksh SHAFTESBURY FORMATION
- Kcm(b) } COMMOTION FORMATION
- Kcm(h) }
- Kcm(g) }
- Kmb MOOSEBAR FORMATION
- Kgt GETHING FORMATION
- Kcd CADOMIN FORMATION
- JKmi MINNES GROUP

- ANTICLINE
- SYNCLINE
- FAULT

Crows Nest Resources Limited		
EXPLORATION		
MT. REESOR N.E. B.C.		
PHOTO GEOLOGY, RECONNAISSANCE FIELD GEOLOGY (PHOTO No. BC 2115:75)		
AUTHOR: Hoffman	SCALE: 1: 25 000	ENCLOSURE No. 9
DATE: 80 03 25	REVISED:	DRAWING No. HH-49A
To: Accompany		

5.0 CONCLUSIONS

The 1979 program of geologic mapping confirmed the presence of Gething Formation coal seams on the Mt. Reesor Property and defined the geologic structure of the area. The presence of Cadomin Formation and upper Minnes Group seams was also established. Commotion Formation strata were mapped on the property, but the Commotion Formation coal seams were not investigated during the 1979 program.

The upper Gething Formation coal seams appear to have the best potential for exploitation because they are probably the thickest seams of the Mt. Reesor property and they may contain good quality metallurgical coal. More work will be needed to provide coal quality data and to establish seam thickness variations.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES

Coal Act (Sec 19)

APPLICATION TO EXTEND TERM OF LICENCE

I, BOLTON AGNEW agent for SHELL CANADA RESOURCES LIMITED
(Name) (Name)
400 - 4th Avenue S.W. 400 - 4th Avenue S.W.
(Address) (Address)
Calgary, Alberta T2P 0J4 Calgary, Alberta T2P 0J4
Valid FMC No 171929

hereby apply to the Minister to extend the term of Coal Licences No(s) 4472 and 4473
Two licences covering 594 hectares in the Peace River Land District, Mt Reesor Prop.
for a further period of one year

I have performed, or caused to be performed, during the period December 29, 1978 to
December 21, 1979, work to the value of at least \$ 8,639
on the location of coal licences as follows

CATEGORY OF WORK

Table with 3 columns: Category of Work, License No(s), and Apportioned Cost. Rows include Geological mapping, Surveys Geophysical, Geochemical, Other, Road construction, Surface work, Underground work, Drilling, Logging, sampling, and testing, Reclamation, and Other work (specify).

I wish to apply \$ 8,639 of this value of work on Coal Licence(s) 4472 and 4473

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

N/A I wish to apply \$ - of this value of work to claim a refund of cash in lieu of work in the amount of \$ - which was paid to extend the term of Coal Licence(s) No(s) from to 19 Mining Receipt No for prior payment of cash in lieu of work is attached for adjustment

The work performed on the location(s) is detailed in the attached report entitled will be submitted in ninety days

1979-12-21

(Date)

Handwritten signature and position: Bolton Agnew, Land Supervisor

* Applications to group licences may be filed to apportion costs on a maximum of 10 licences

(FORMS TO BE SUBMITTED IN DUPLICATE)

FOR DEPARTMENTAL USE ONLY

Value of work reported \$ Value of work applied on licences \$
Value of work approved \$ Value of credit remaining \$

Work performed Yes No

The program of operations detailed hereunder was carried out during the period from December 29, 1978 to December 21, 1979 Total costs are \$ 8,639, an average of \$ 14.54 ^{per acre} ~~per hectare~~ (594 hectares)

GEOLOGICAL MAPPING Yes No Cost \$ 8,639
 Area (Acres) 700 Scale 1:20,000 Time 18 man-days
 Reconnaissance _____
 Detail Surface _____
 Underground _____
 Other (specify) _____

GEOPHYSICAL OR GEOCHEMICAL SURVEYS Yes No Cost \$ _____
 Method _____ Line miles _____

OTHER SURVEYS Yes No Cost \$ _____
 Grid _____ Topographic _____ Other _____

ROAD CONSTRUCTION Yes No Cost \$ _____
 Length On Licences _____ Access (off licences) _____

SURFACE WORK Yes No Cost \$ _____
 Length _____ Licence Number(s) _____
 Trenching _____
 Seam tracing _____
 Crosscutting _____
 Other _____

UNDERGROUND WORK Yes No Cost \$ _____
 Test adits Number _____ Average length _____ Total footage _____
 Other workings Area _____ Total footage _____

DRILLING Yes No Cost \$ _____
 Hole Size _____ Number of Holes _____ Total Footage _____
 Core Diamond Wireline _____
 Rotary Conventional _____
 Reverse circulation _____
 Other _____

Contractor _____ Where core stored _____

LOGGING, SAMPLING, AND TESTING (check) Yes No Cost \$ _____
 Lithology Drill samples Core samples Bulk samples
 Logs Gamma-Neutron Density Other
 Testing Prox analysis FSI Washability
 Carbonization Petrographic Plasticity Other

OTHER WORK (specify details) _____ Cost \$ _____

REPORTS
 Reclamation work (Permit No _____) Detail of work* _____

 Cost \$ _____

OPERATIONS GEORGIA HOFFMAN CONSULTING GEOLOGIST
 Work was supervised by FRANK MARTONHEGYI Position SENIOR STAFF GEOLOGIST

Is this person a registered or licensed Professional Engineer in British Columbia? Yes No

NOTE—Where the licensee intends to perform, during the extended term of his licence, work not set out in the plan of operations filed under section 15 (2) (c), a supplemental plan of operations is to be attached

* If reclamation work reported in separate report give details of report identification

Work performed Yes No

The program of operations detailed hereunder was carried out during the period from December 29, 1978
 to December 21, 19 79 Total costs are \$ 8,639, an average
 of \$ 14 54 ~~per acre~~ per ~~acre~~ hectare (594 hectares)

GEOLOGICAL MAPPING Yes No Cost \$ 8,639
 Area (Acres) 700 Scale 1:20,000 Time 18 man-days
 Reconnaissance _____
 Detail Surface _____
 Underground _____
 Other (specify) _____

GEOPHYSICAL OR GEOCHEMICAL SURVEYS Yes No Cost \$ _____
 Method _____ Line miles _____

OTHER SURVEYS Yes No Cost \$ _____
 Grid _____ Topographic _____ Other _____

ROAD CONSTRUCTION Yes No Cost \$ _____
 Length On Licences _____ Access (off licences) _____

SURFACE WORK Yes No Cost \$ _____
 Length _____ Licence Number(s) _____
 Trenching _____
 Seam tracing _____
 Crosscutting _____
 Other _____

UNDERGROUND WORK Yes No Cost \$ _____
 Test adits Number _____ Average length _____ Total footage _____
 Other workings Area _____ Total footage _____

DRILLING Yes No Cost \$ _____
 Hole Size _____ Number of Holes _____ Total Footage _____
 Core Diamond Wireline _____
 Rotary Conventional _____
 Reverse circulation _____
 Other _____

Contractor _____ Where core stored _____

LOGGING, SAMPLING, AND TESTING (check) Yes No Cost \$ _____
 Lithology Drill samples Core samples Bulk samples
 Logs Gamma-Neutron Density Other
 Testing Prox analysis FSI Washability
 Carbonization Petrographic Plasticity Other

OTHER WORK (specify details) _____ Cost \$ _____

REPORTS
 Reclamation work (Permit No _____) Detail of work* _____

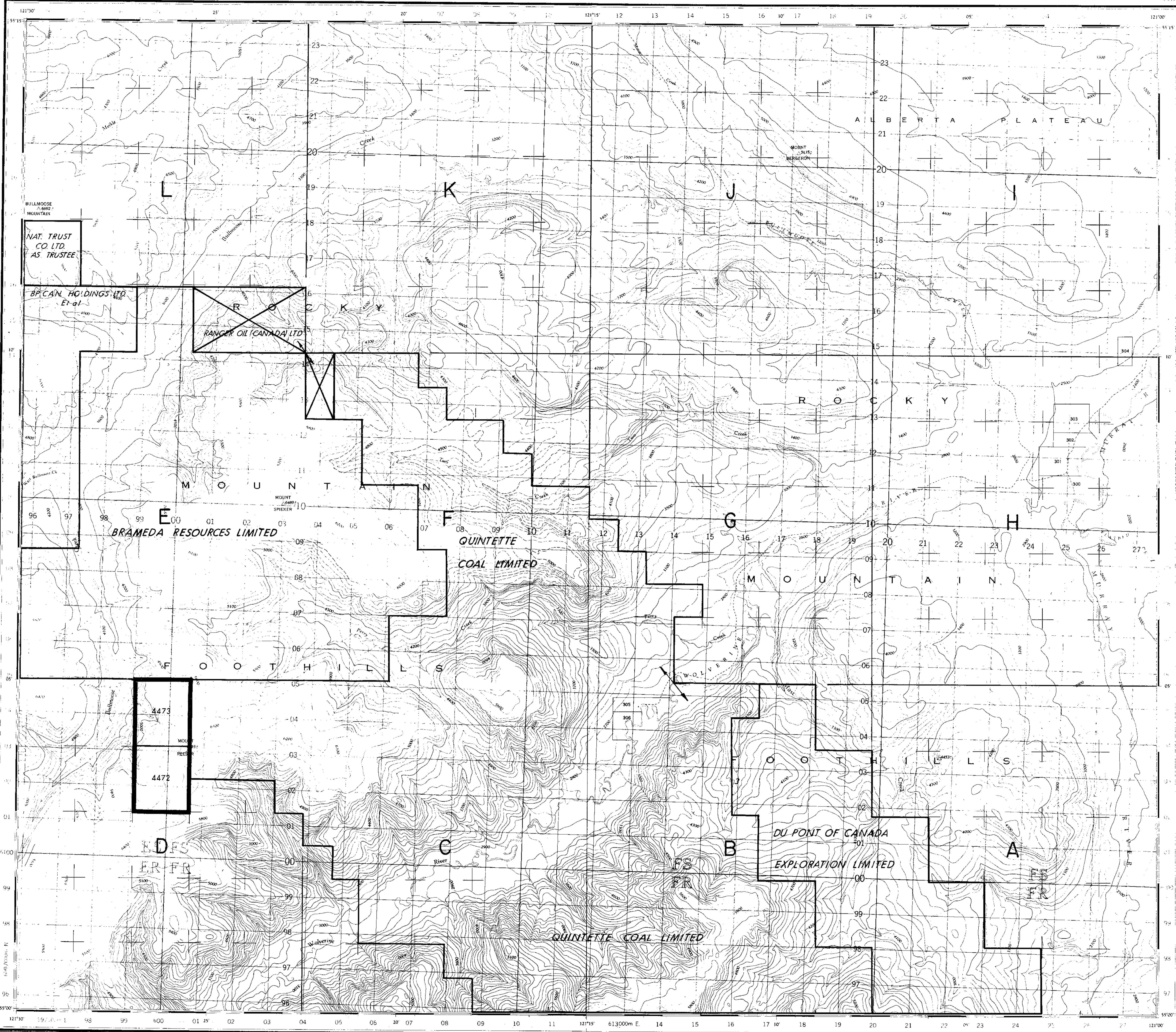
 _____ Cost \$ _____

OPERATIONS GEORGIA HOFFMAN CONSULTING GEOLOGIST
 Work was supervised by FRANK MARTONHEGYI Position SENIOR STAFF GEOLOGIST

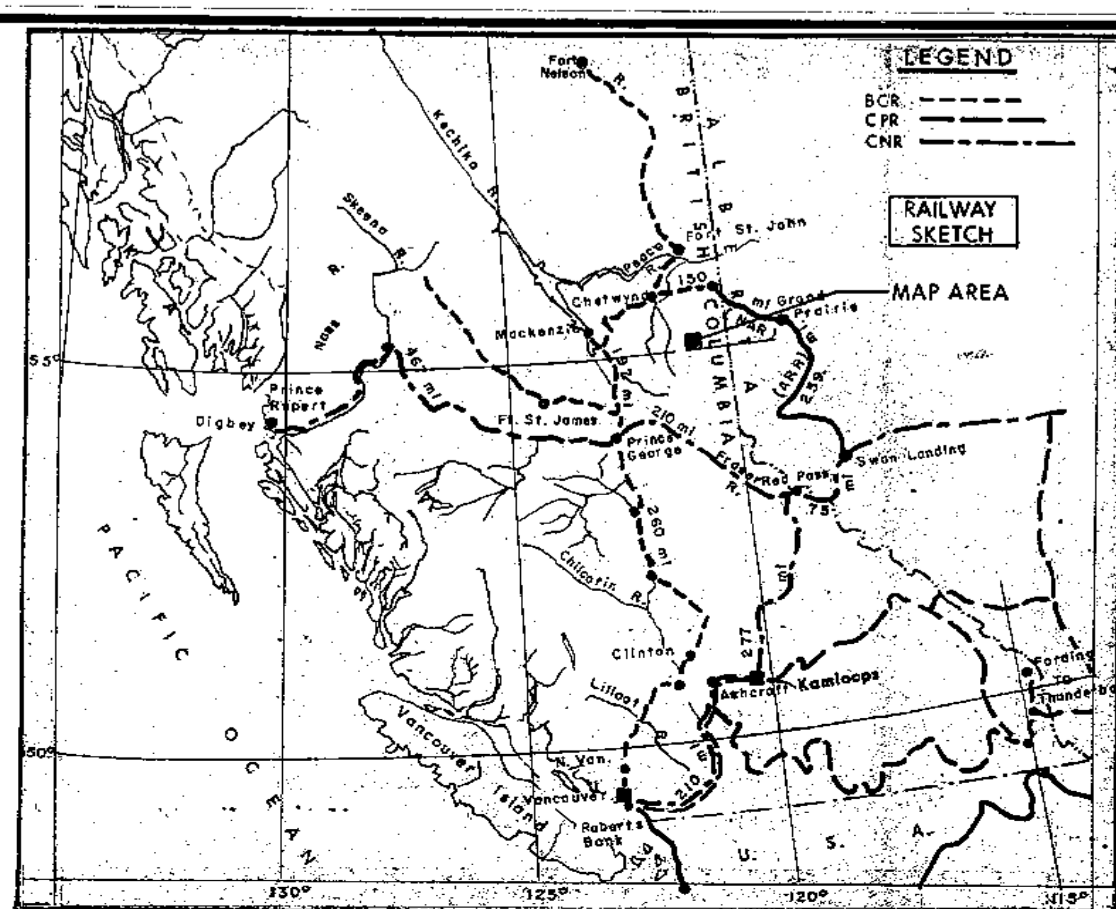
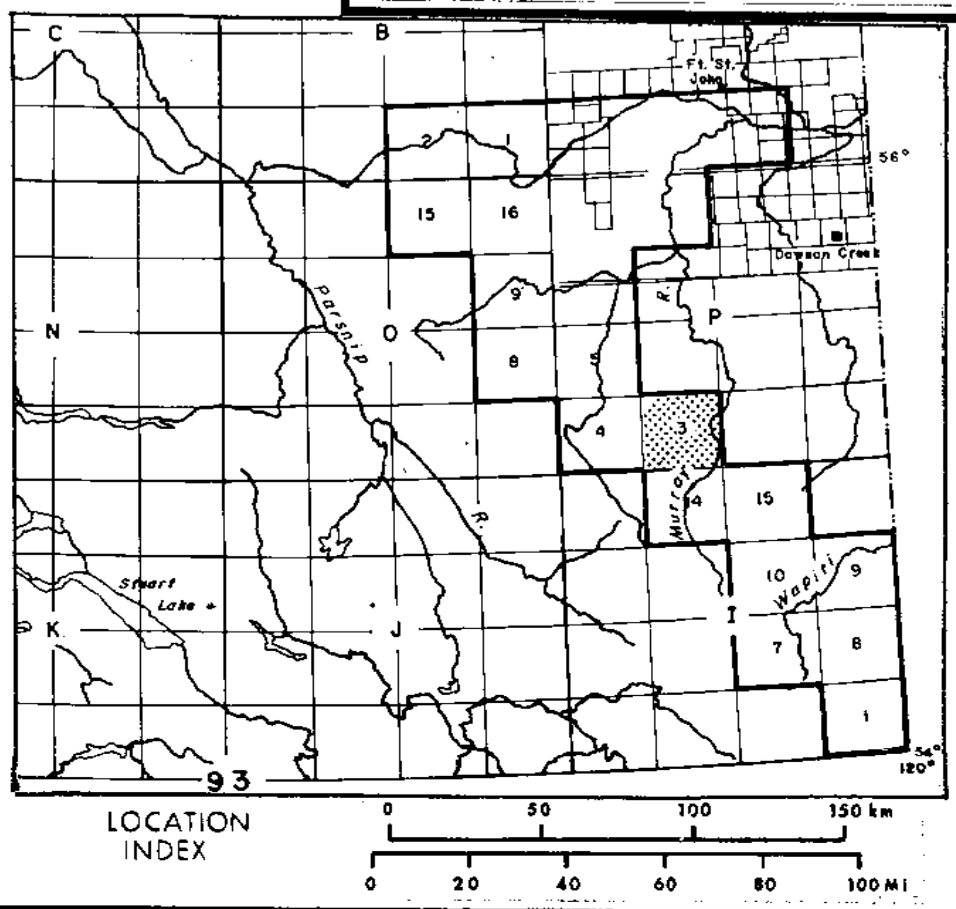
Is this person a registered or licensed Professional Engineer in British Columbia? Yes No

NOTE—Where the licensee intends to perform, during the extended term of his licence, work not set out in the plan of operations filed under section 15 (2) (c), a supplemental plan of operations is to be attached

* If reclamation work reported in separate report give details of report identification



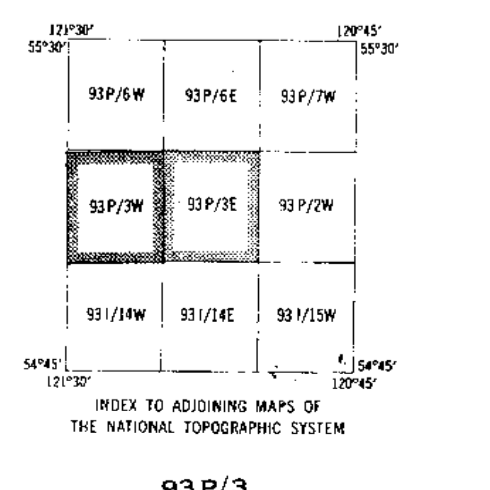
182.27
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182.84
182.87
182.91
182.94
182.98
183.02
183.06
183.09
183.13
183.17
183.21
183.25
183.29
183.32
183.36



BULLMOOSE CREEK
PEACE RIVER DISTRICT
BRITISH COLUMBIA
SCALE 1:50,000 ÉCHELLE

CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
Transverse Mercator Projection
North American Datum 1927
MAGNETIC DECLINATION 28°15' EAST
AT CENTRE OF MAP 1985
Annual change decreasing 4.1'

ÉQUIDISTANCE DES COURBES 100 PIEDS
Élevations en pieds au-dessus du niveau moyen de la mer
Projection transverse de Mercator
Réseau géodésique nord-américain 1927
DÉCLINAISON MAGNÉTIQUE AU CENTRE
DE LA FEUILLE EN 1985: 28°15' EST
Variation annuelle décroissante 4.1'



DE - MT REESOR 79 (2) A + (1)

Crows Nest Resources Limited
EXPLORATION

BULLMOOSE CREEK
NORTHEASTERN B.C.
PEACE RIVER LAND DISTRICT

COAL LAND DISPOSITION MAP

SHELL-CNRL LICENCES: MT REESOR
NTS: 93-P-3 BLK: D
MAP 1 OF 1 NTS 93P/3

AUTHOR: OLSON-MARTONHEGYI	SCALE: 1:50,000	ENCLOSURE No: 4
DATE: DEC. 1979	REVISED:	DRAWING No: HC-18G
To Accompany		

550