

**STRATIGRAPHY
TABLE OF FORMATIONS**

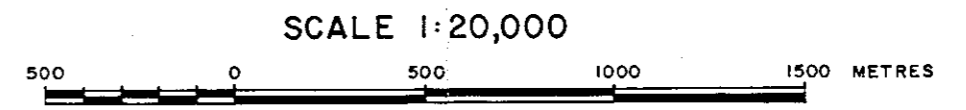
KD	DUNVEGAN FORMATION Sandstone, mudstone
KCr	CRUISER FORMATION Marine, mudstone, siltstone
KGo	GOODRICH FORMATION Sandstone, minor conglomerate, siltstone, mudstone
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KCmg	GATES MEMBER Sandstone, conglomerate, siltstone, mudstone, COAL
KMb	MOOSEBAR FORMATION Marine, mudstone, siltstone
KGt	GETHING FORMATION Sandstone, siltstone, mudstone, COAL

UPPER CRETACEOUS
FT. ST. JOHN GROUP
LOWER CRETACEOUS
CRASSIER GROUP
COMMOTION FORMATION

PR. TREFI 81 (2) **681**

GULF CANADA RESOURCES INC.
Coal Division
CALGARY ALBERTA

TREFI COAL PROJECT
Northeastern British Columbia
1981
CROSS-SECTION
4+00S

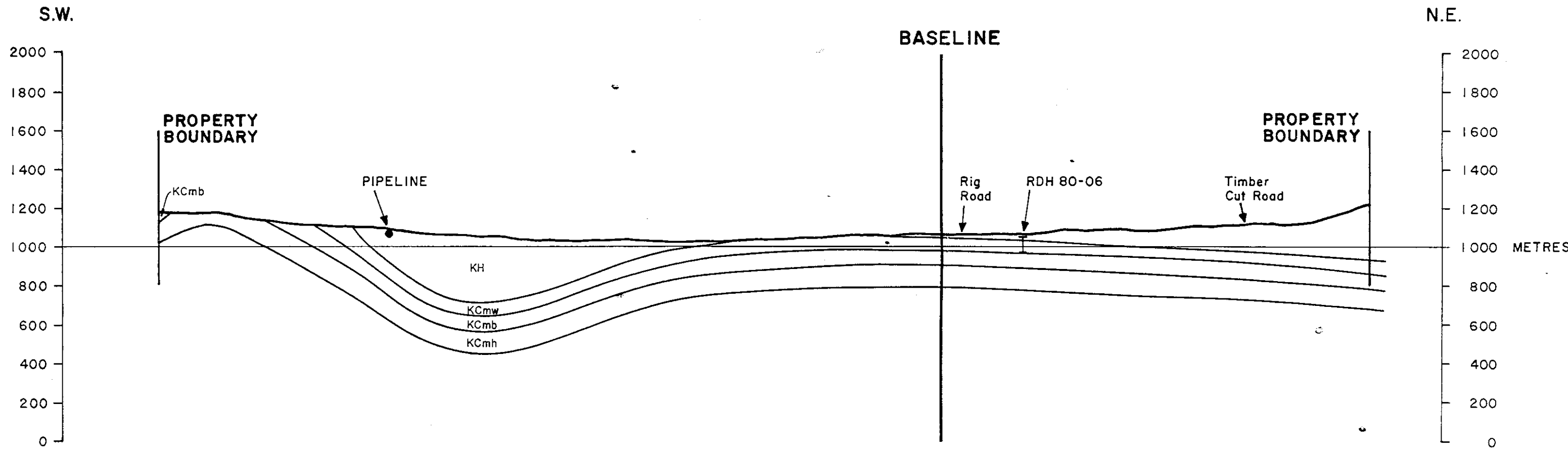


PREPARED BY: K. SAMSON
APPROVED BY: DATE: FEB. 82
SCALE 1:20,000
DRAWING No.

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UPPER CRETACEOUS
FT. ST. JOHN GROUP
LOWER CRETACEOUS
COMMOTION FORMATION
CRASSIER GROUP



SCALE 1:20,000



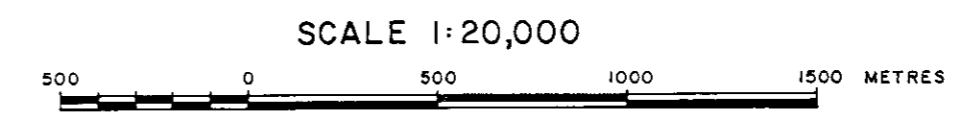
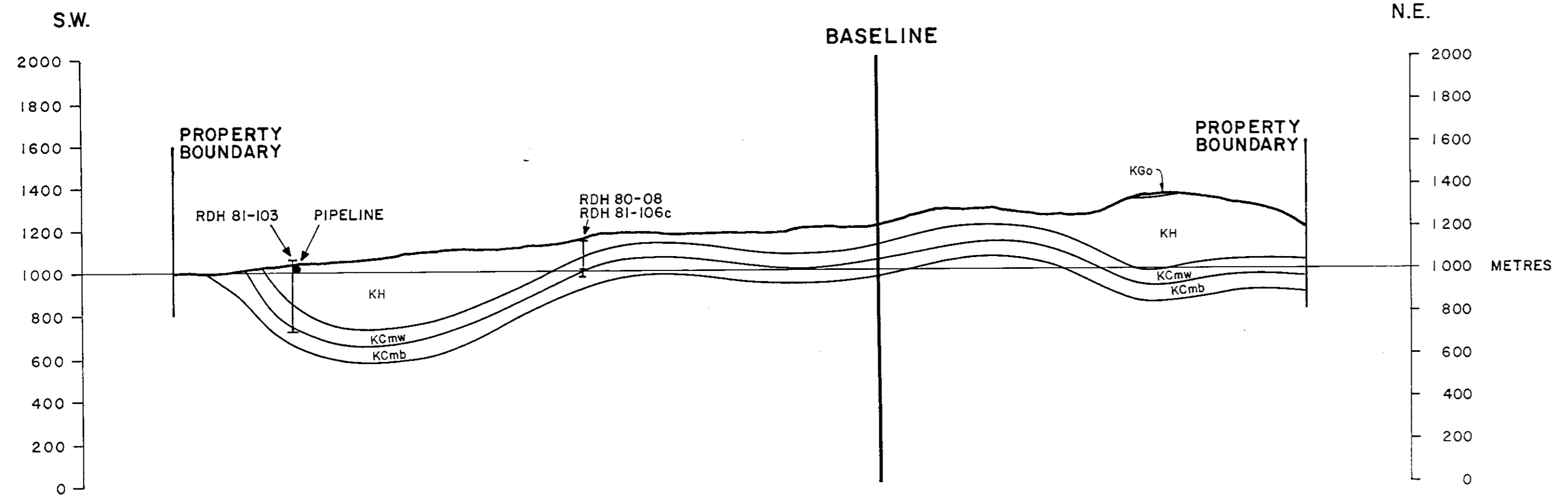
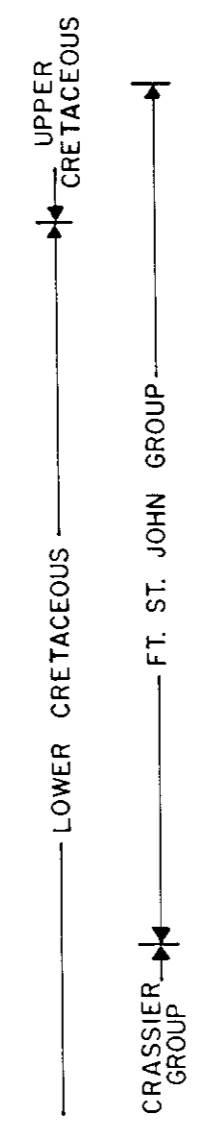
TR-TREFI 81(2)A **681**

GULF CANADA RESOURCES INC. Coal Division		
CALGARY	ALBERTA	
TREFI COAL PROJECT Northeastern British Columbia 1981 CROSS-SECTION 0+00		
PREPARED BY: K. SAMSON	SCALE 1:20,000	
APPROVED BY:	DATE: FEB. 82	DRAWING No.

STRATIGRAPHY

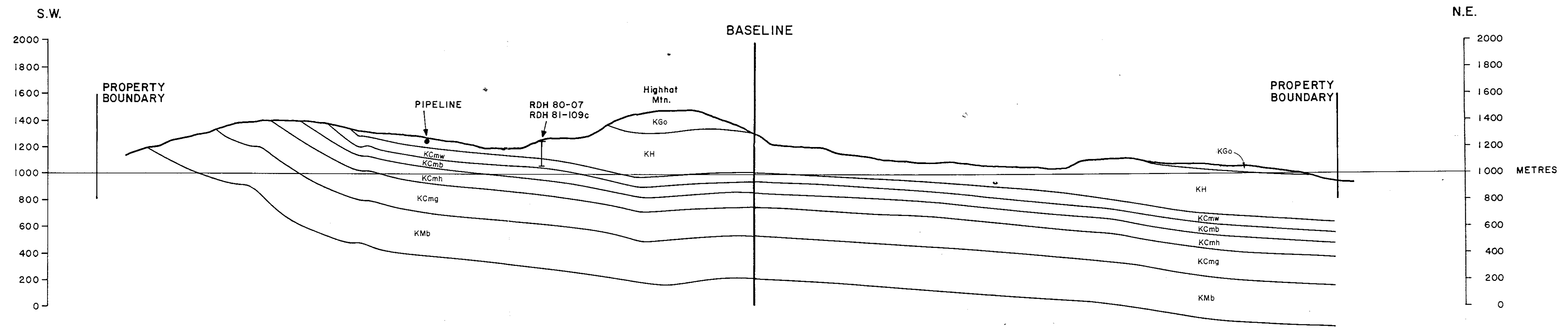
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PR-TREFI 81(2)A 681

GULF CANADA RESOURCES INC.		
Coal Division		
CALGARY	ALBERTA	
<p>TREFI COAL PROJECT Northeastern British Columbia 1981 CROSS-SECTION 2+00N</p>		
PREPARED BY: K. SAMSON	SCALE 1:20,000	
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UPPER CRETACEOUS
FT. ST. JOHN GROUP
LOWER CRETACEOUS
CRASSIER GROUP
COMMOTION FORMATION

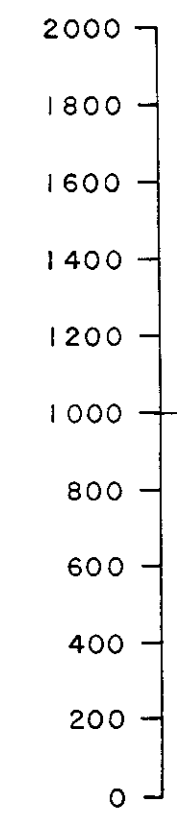
TRETI 81(2)A 681

GULF CANADA RESOURCES INC.
Coal Division
CALGARY ALBERTA

TRETI COAL PROJECT
Northeastern British Columbia
1981
CROSS-SECTION
4+00N

PREPARED BY: K. SAMSON
APPROVED BY: DATE: FEB. 82
SCALE 1:20,000
DRAWING No.

S.W.



PROPERTY BOUNDARY

KCmb
KCmh
KCmg
Kmb

BASELINE

PIPELINE

RDH 81-104

93 P/5 d-78-K

Highhat River

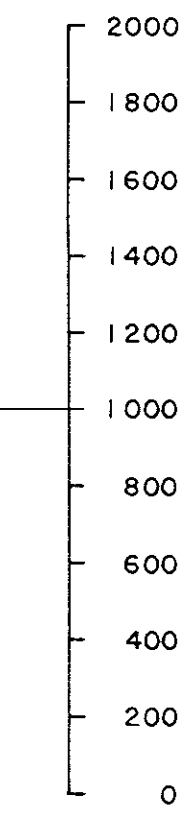
Quat.

KH
KCmw
KCmb
KCmh
KCmg

PROPERTY BOUNDARY

KCr
KGo
KH
KCmw
KCmb
KCmh
KCmg

N.E.



METRES

UPPER CRETACEOUS
FT. ST. JOHN GROUP
LOWER CRETACEOUS
CRASSIER GROUP

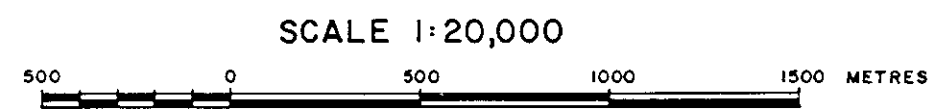
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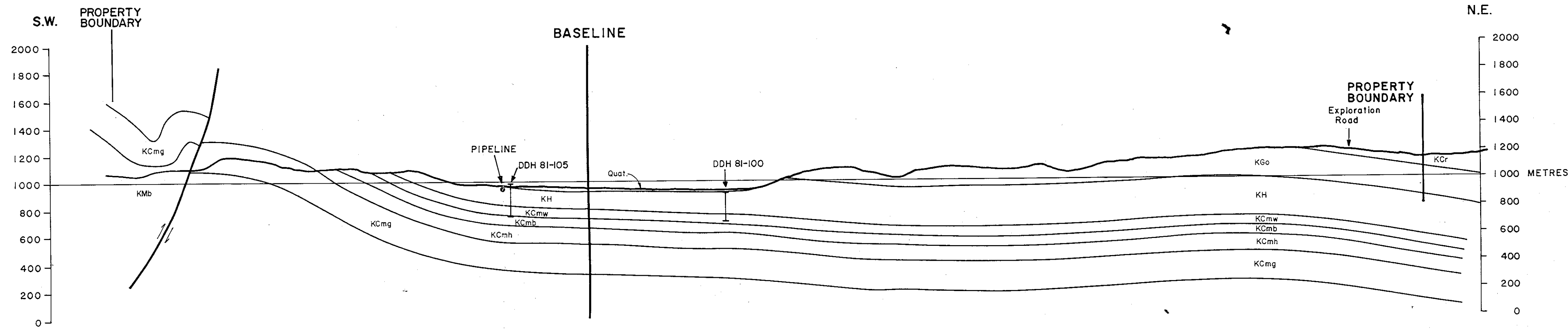
PR-TREFI 81(2)A 681

GULF CANADA RESOURCES INC.
Coal Division
CALGARY ALBERTA

TREFI COAL PROJECT
Northeastern British Columbia
1981
CROSS-SECTION
6+00N



PREPARED BY: K. SAMSON SCALE 1:20,000
APPROVED BY: DATE: FEB. 82 DRAWING No.



STRATIGRAPHY
TABLE OF FORMATIONS

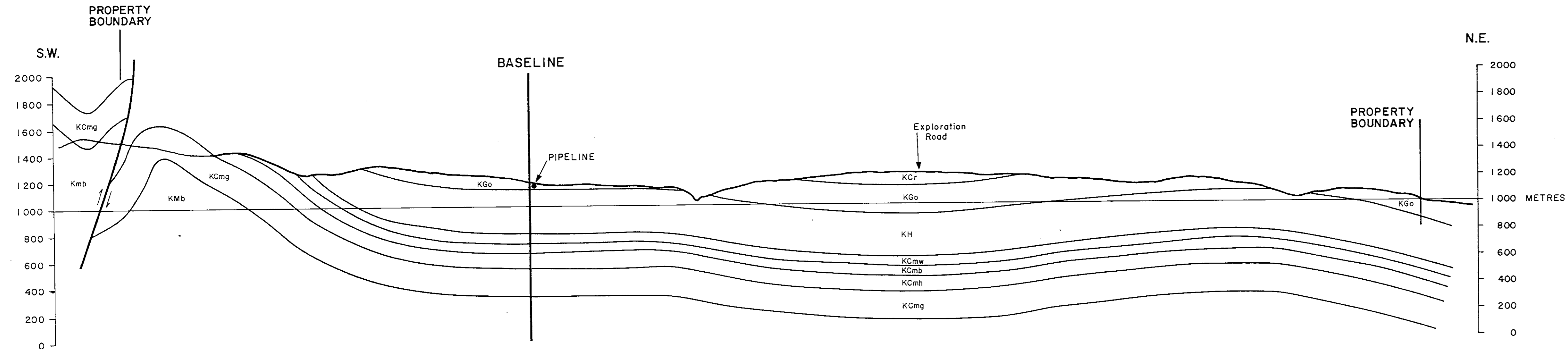
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Pr-TREFI 81(2A) **681**

GULF CANADA RESOURCES INC.
Coal Division
CALGARY ALBERTA 

TREFI COAL PROJECT
Northeastern British Columbia
1981
CROSS-SECTION
8+00N

PREPARED BY: K. SAMSON SCALE 1:20,000
APPROVED BY: DATE: FEB. 82 DRAWING No.



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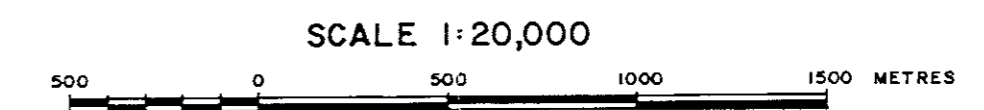
UPPER CRETACEOUS
FT. ST. JOHN GROUP
LOWER CRETACEOUS
CRASSIER GROUP

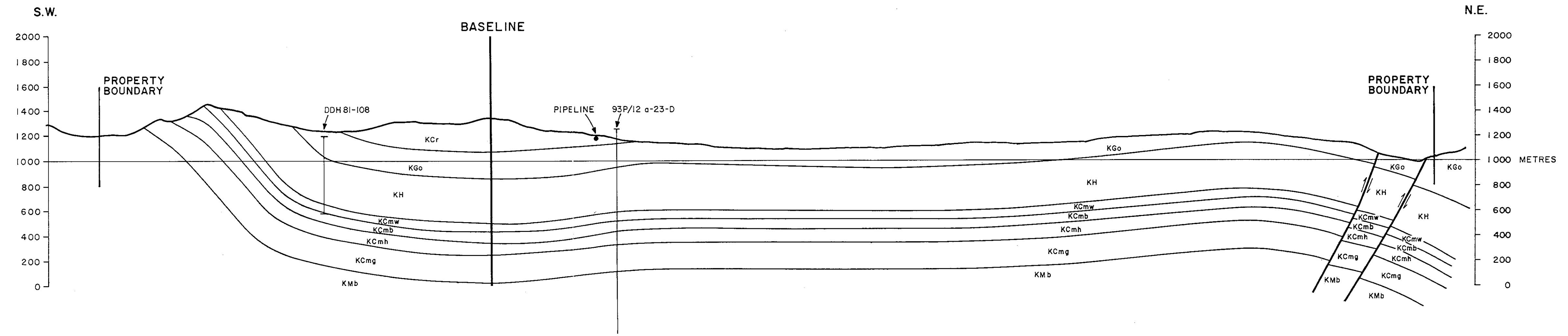
PR-TREFI 81(2)A 681

GULF CANADA RESOURCES INC.
Coal Division
CALGARY ALBERTA

TREFI COAL PROJECT
Northeastern British Columbia
1981
CROSS-SECTION
10+00N

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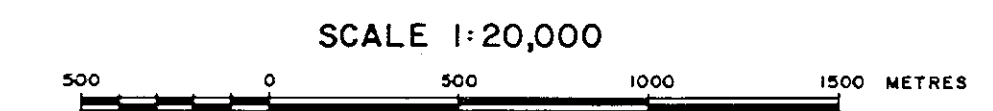




UPPER CRETACEOUS
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 FT. ST. JOHN GROUP
 COMMOTION FORMATION
 CRASSIER GROUP

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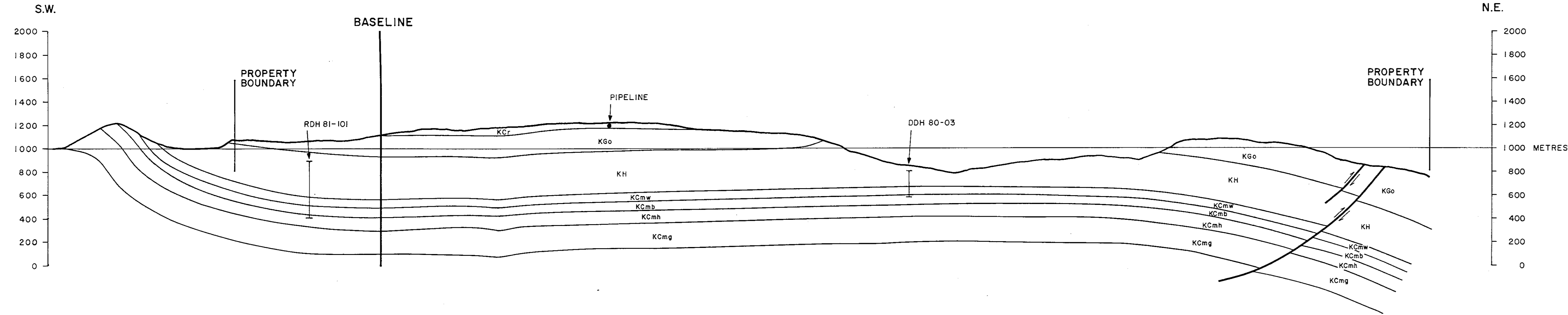
PR-TREFI 81/27 681

GULF CANADA RESOURCES INC.
 Coal Division

CALGARY ALBERTA

TREFI COAL PROJECT
 Northeastern British Columbia
 1981
 CROSS-SECTION
 12+00N

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UPPER CRETACEOUS
 LOWER CRETACEOUS
 FT. ST. JOHN GROUP
 COMMOTION FORMATION
 CRASSIER GROUP

STRATIGRAPHY
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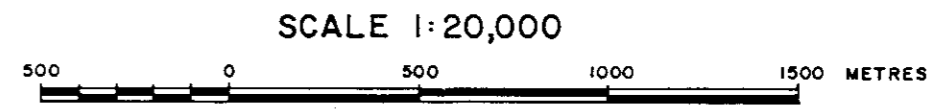
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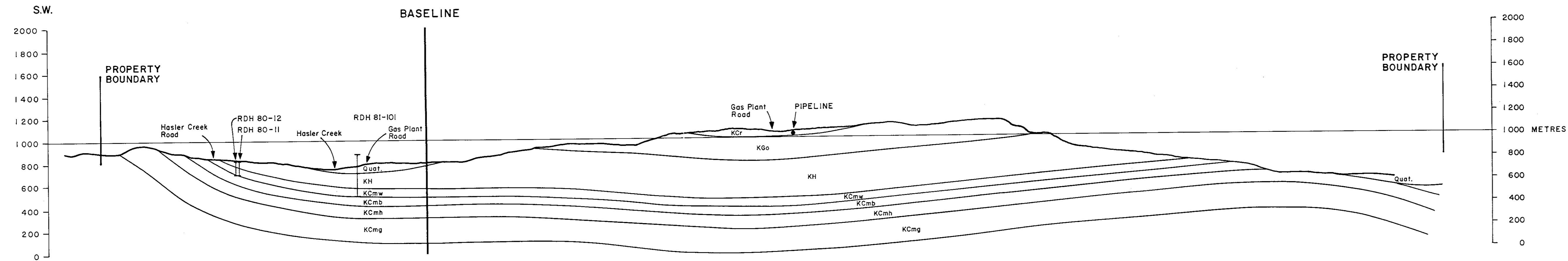
PR-TREFI 81/21A **681**

GULF CANADA RESOURCES INC.
Coal Division
CALGARY ALBERTA

TREFI COAL PROJECT
Northeastern British Columbia
1981
CROSS-SECTION
14+00N

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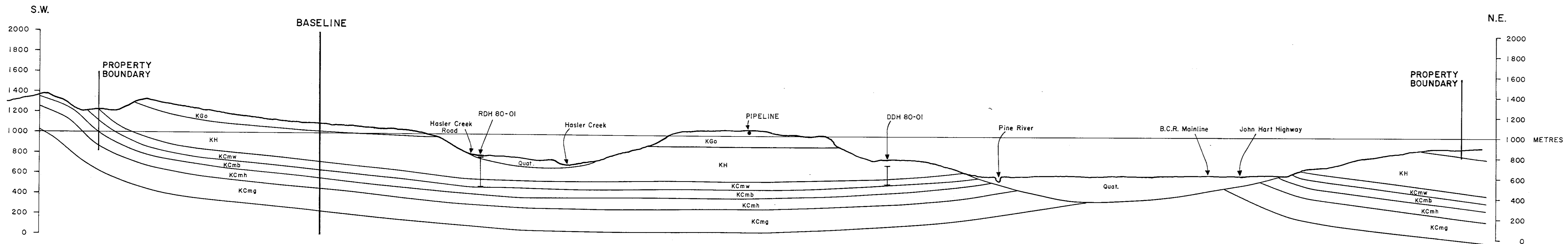
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UPPER CRETACEOUS
LOWER CRETACEOUS
FT. ST. JOHN GROUP
COMMOTION FORMATION
CRASSIER GROUP

PR. TREFI 81/21A **681**

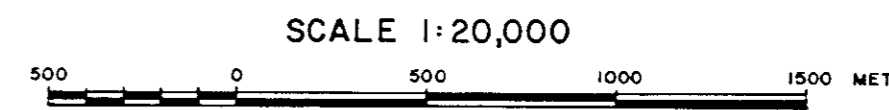
GULF CANADA RESOURCES INC. <small>Coal Division</small>		
<small>CALGARY</small>	<small>ALBERTA</small>	
TREFI COAL PROJECT Northeastern British Columbia 1981 CROSS-SECTION 16 + 00N		
<small>PREPARED BY: K. SAMSON</small>	<small>SCALE 1:20,000</small>	<small>DATE: FEB. 82</small>
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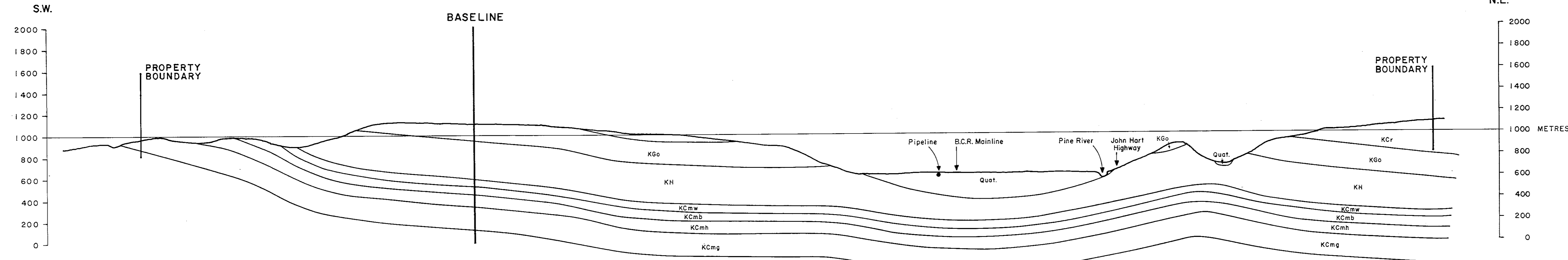
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UPPER CRETACEOUS
LOWER CRETACEOUS
FT. ST. JOHN GROUP
COMMOTION FORMATION
CRASSIER GROUP



PR-TREF1 81/2A 681

GULF CANADA RESOURCES INC. Coal Division		Gulf
CALGARY	ALBERTA	
TREF1 COAL PROJECT Northeastern British Columbia 1981 CROSS-SECTION 18+00N		
PREPARED BY: K. SAMSON	SCALE 1:20,000	
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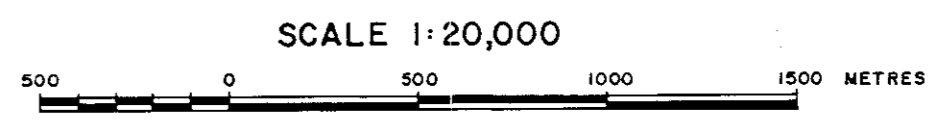
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UPPER CRETACEOUS
LOWER CRETACEOUS
FT. ST. JOHN GROUP
COMMOTION FORMATION
CRASSIER GROUP

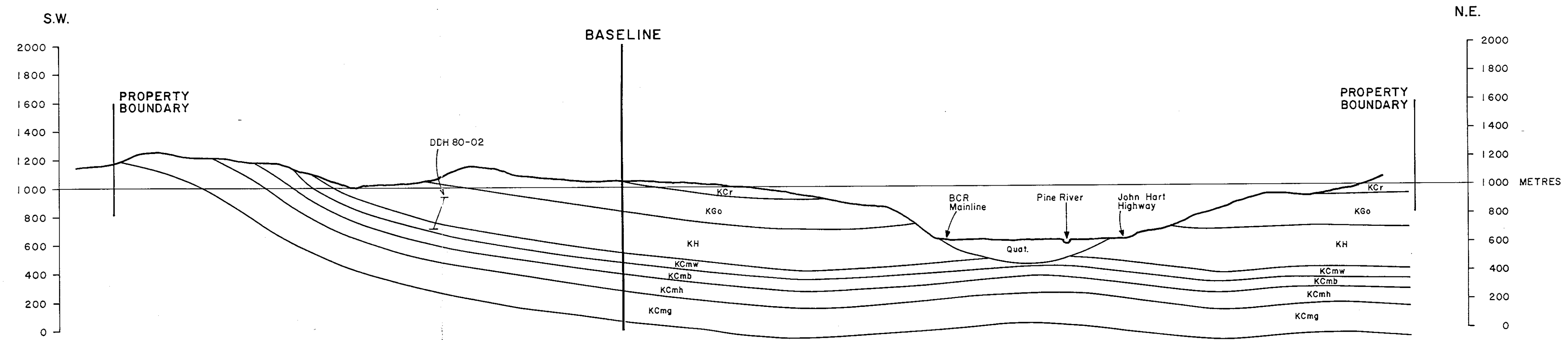
Pr-TREFI 8/2A 681

GULF CANADA RESOURCES INC.
Coal Division
CALGARY ALBERTA

TREFI COAL PROJECT
Northeastern British Columbia
1981
CROSS-SECTION
22 + 00N



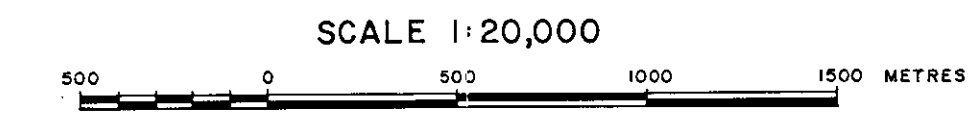
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UPPER CRETACEOUS
LOWER CRETACEOUS
FT. ST. JOHN GROUP
COMOTION FORMATION
CRASSIER GROUP



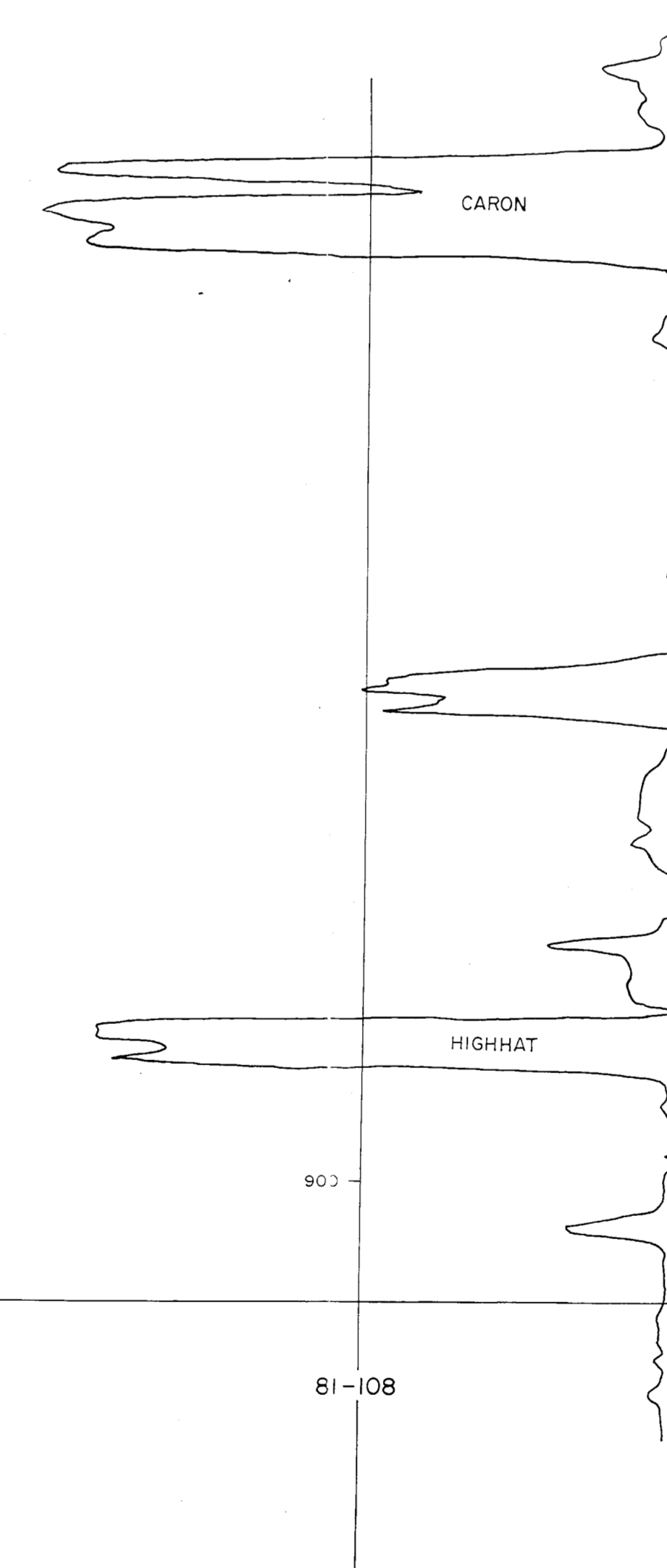
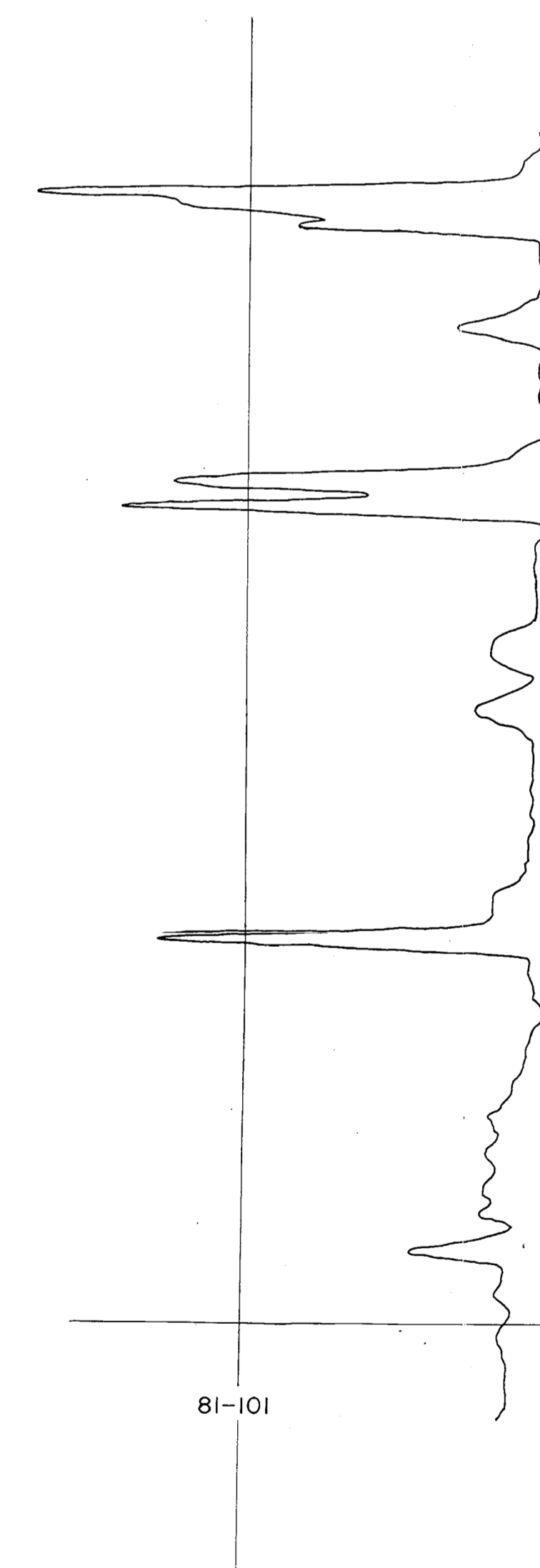
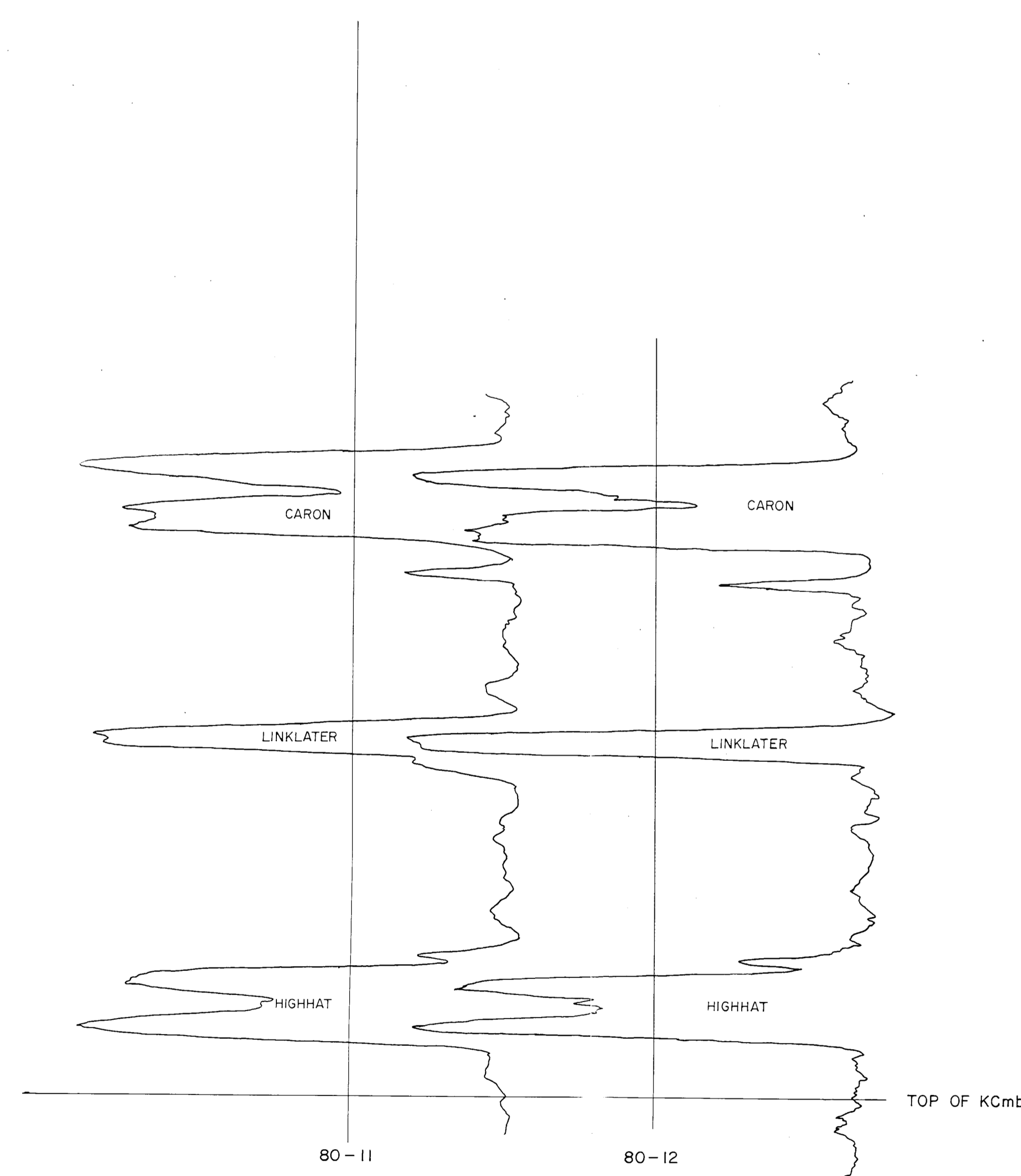
Pr. TREE 81(2)A **681**

GULF CANADA RESOURCES INC.
Coal Division
CALGARY ALBERTA

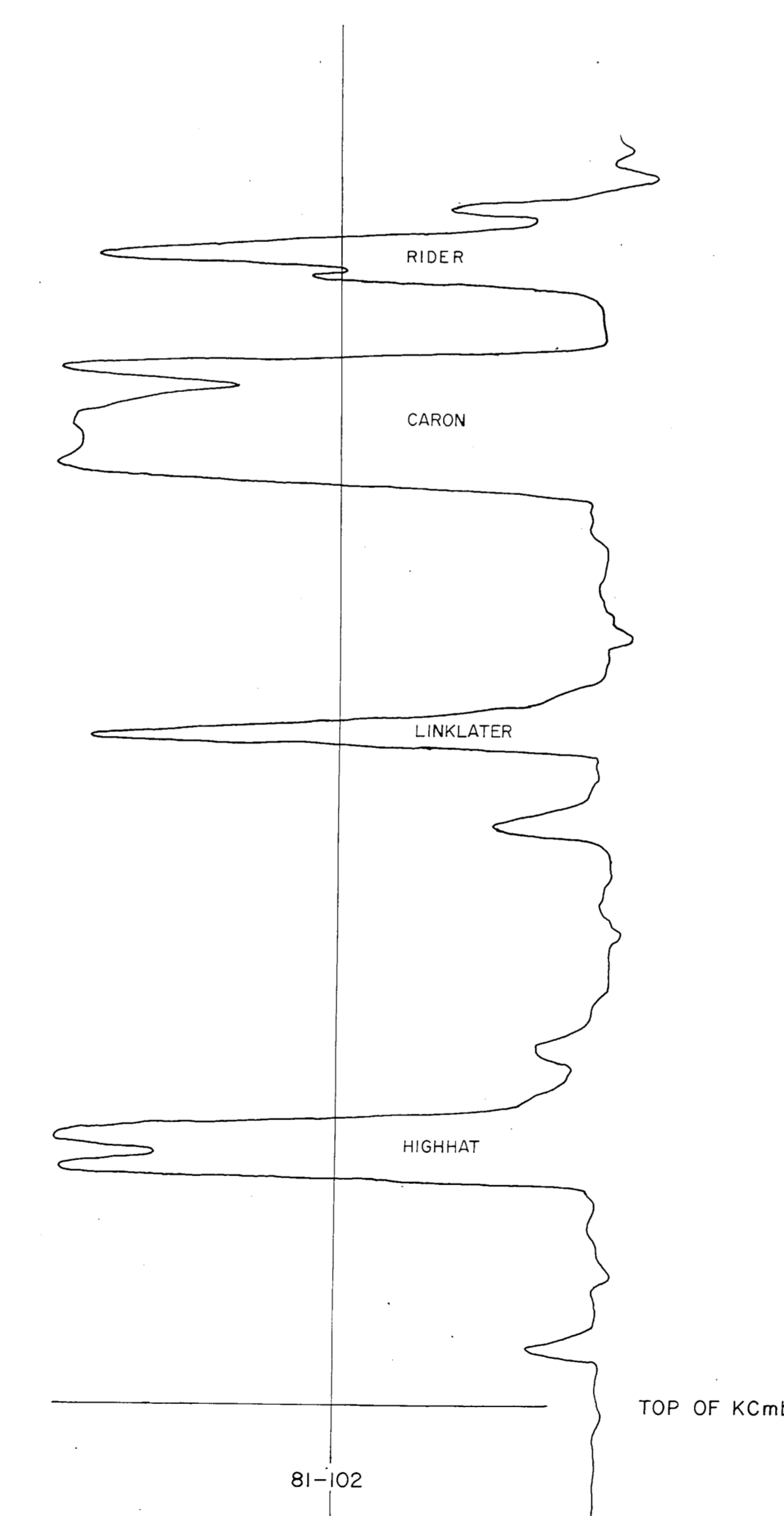
TRETI COAL PROJECT
Northeastern British Columbia
1981
CROSS-SECTION
26+ 00N

PREPARED BY: K. SAMSON SCALE 1:20,000
APPROVED BY: DATE: FEB. 82 DRAWING No.

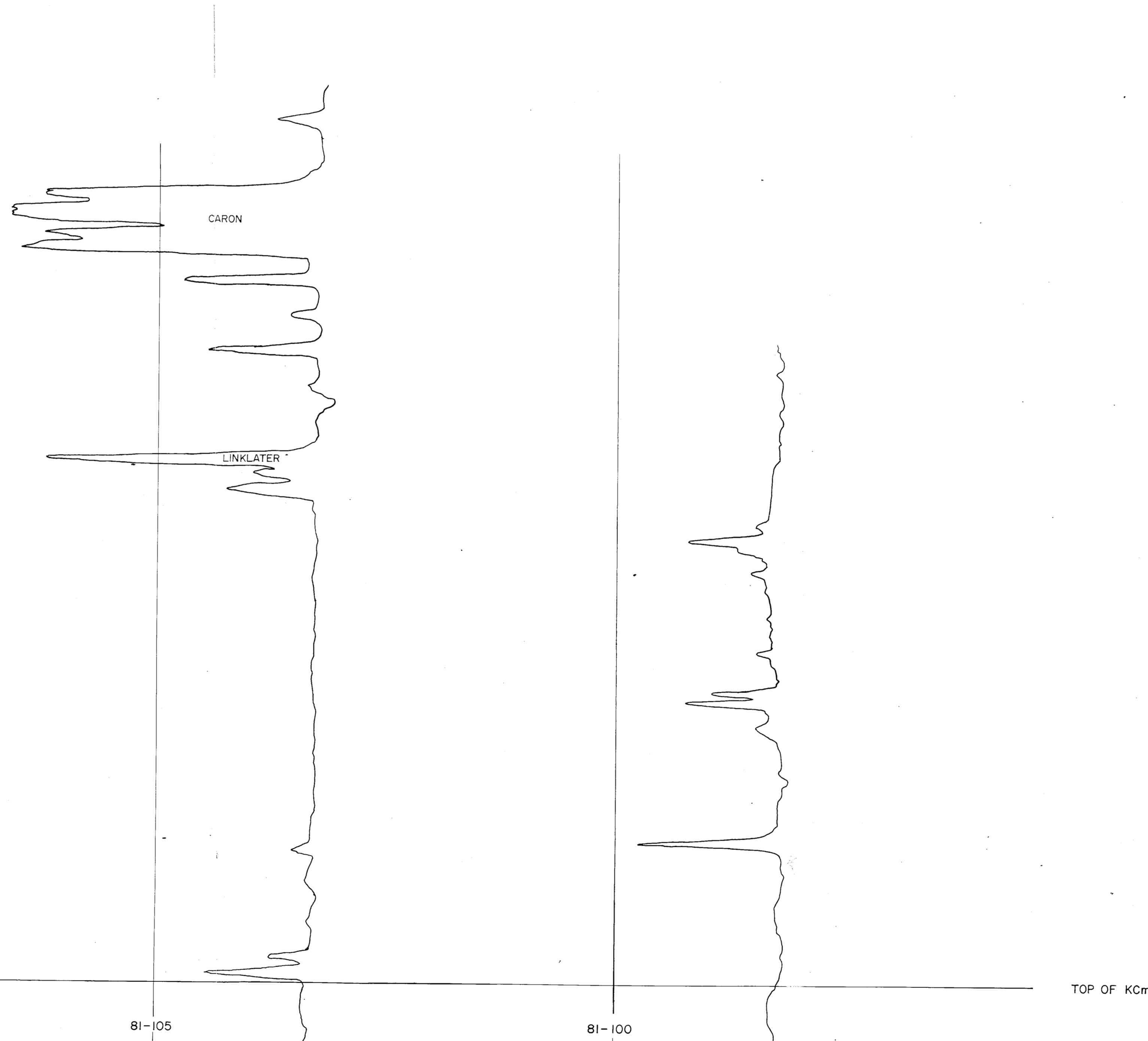
SIDEWALL DENSITY LOGS



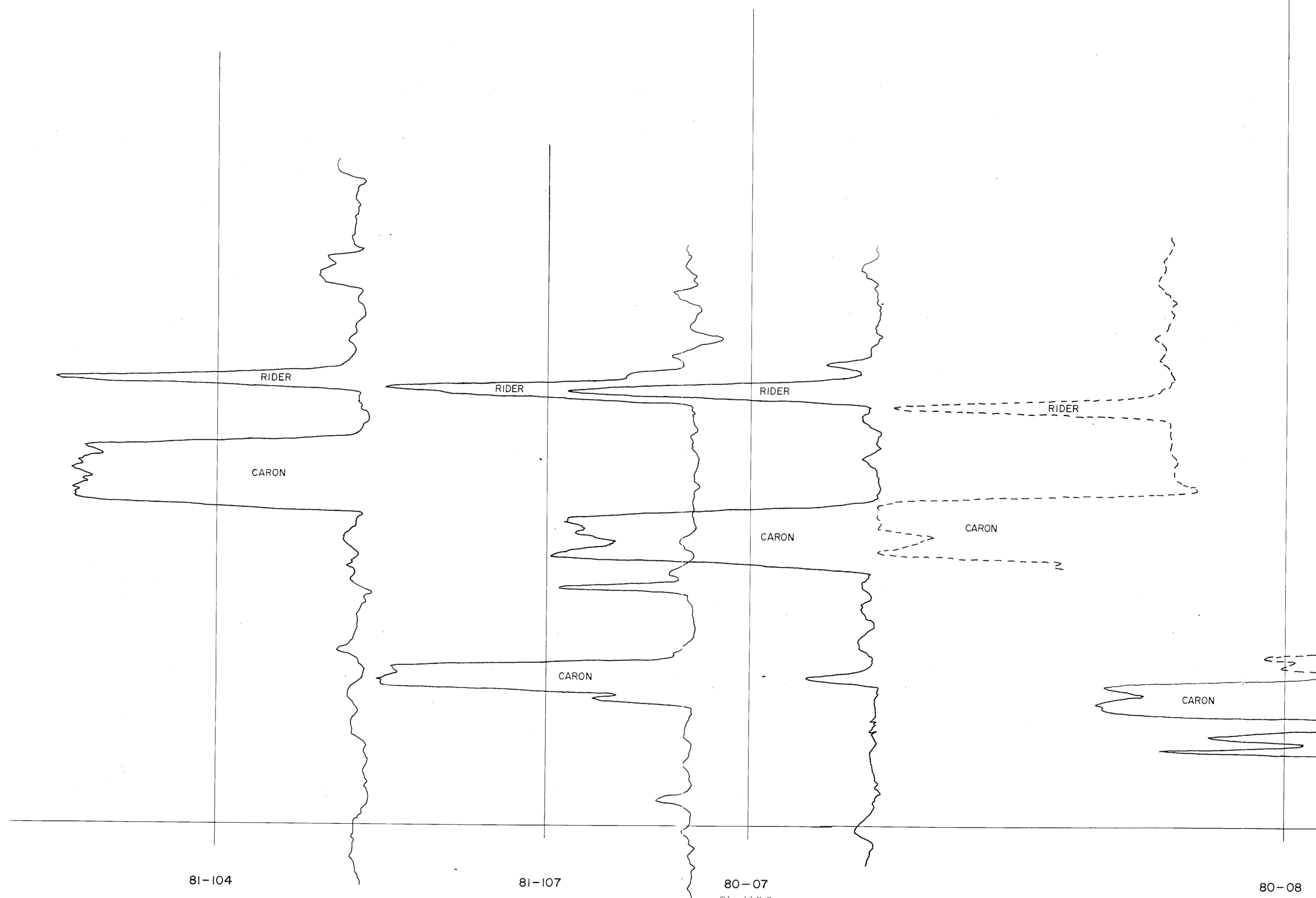
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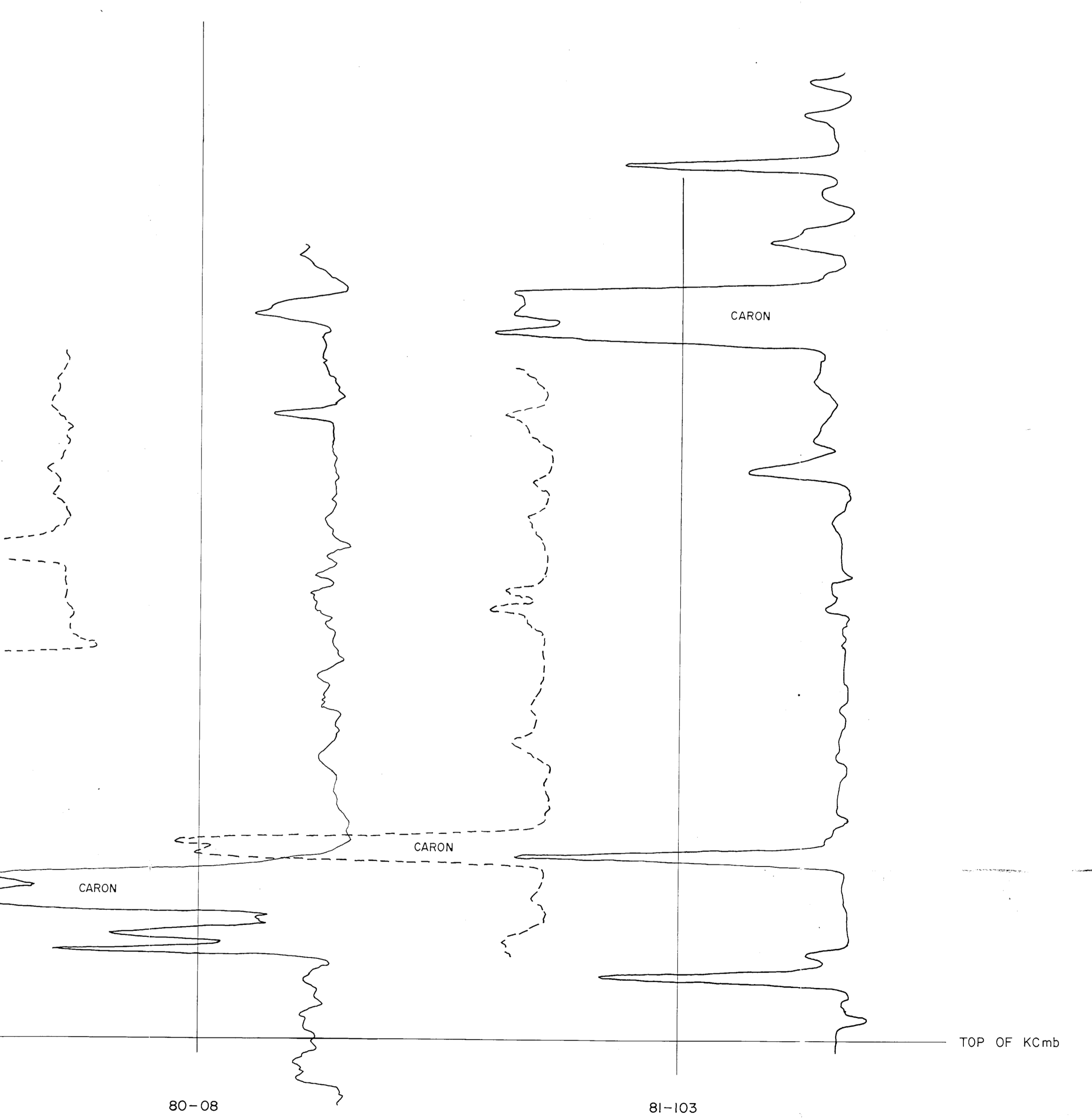
SIDEWALL DENSITY LOGS

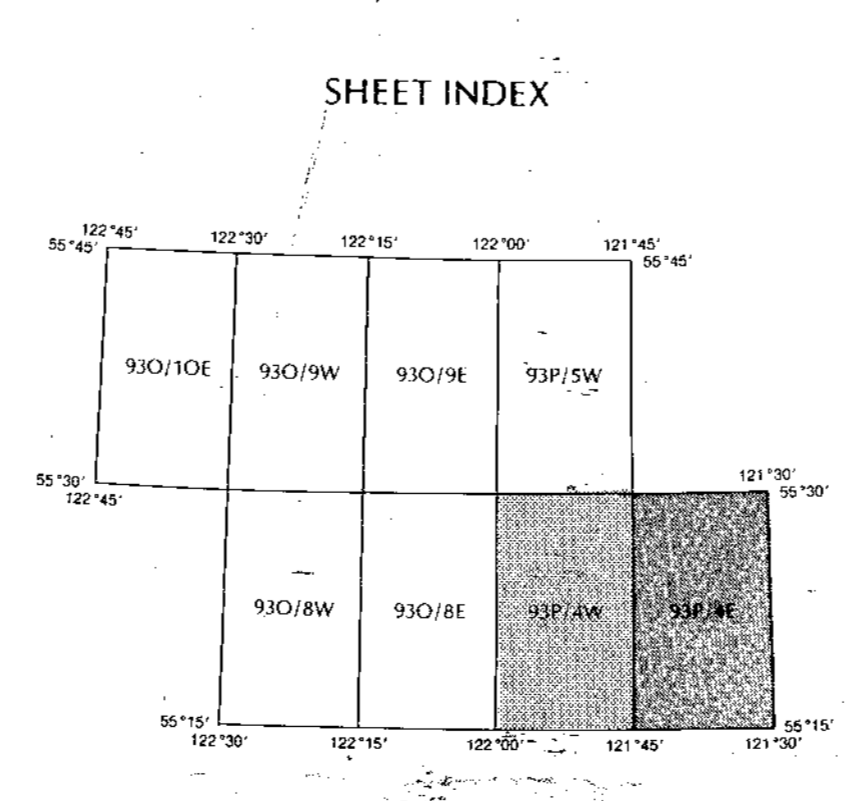
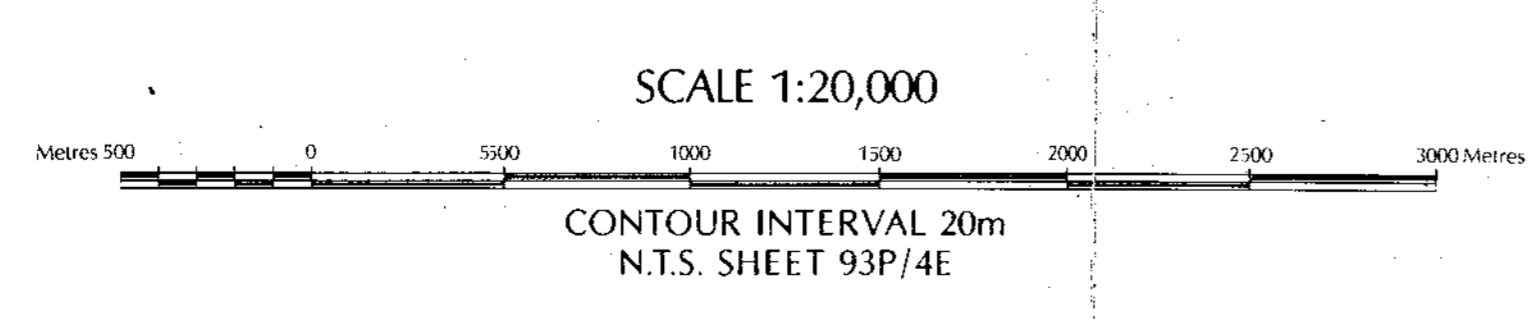
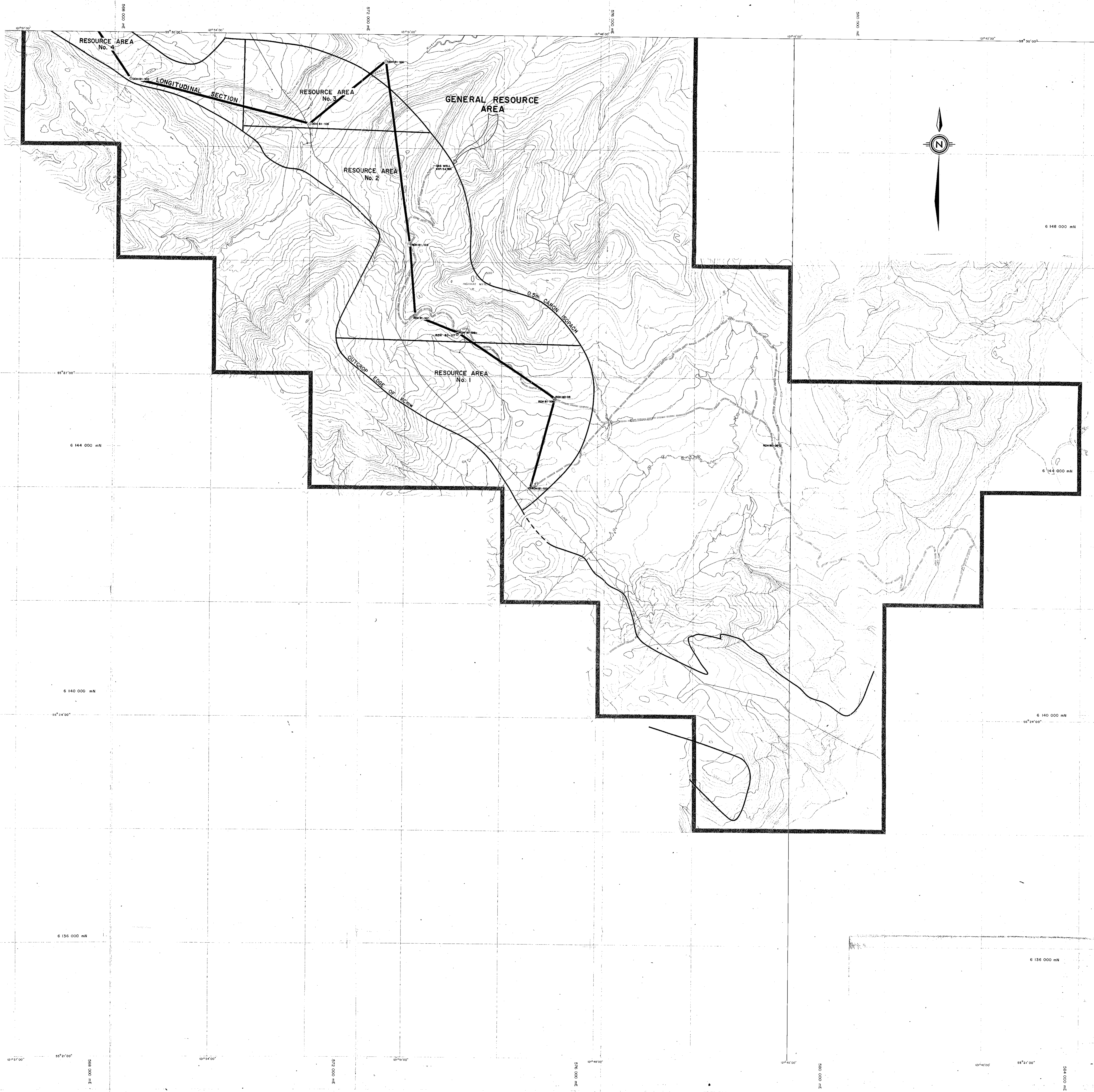


SIDEWALL DENSITY LOGS



SIDEWALL DENSITY LOGS





SURVEY NOTE
 The map data was compiled photographically and is based on the Universal Transverse Mercator grid and geodetic datum.

LEGEND

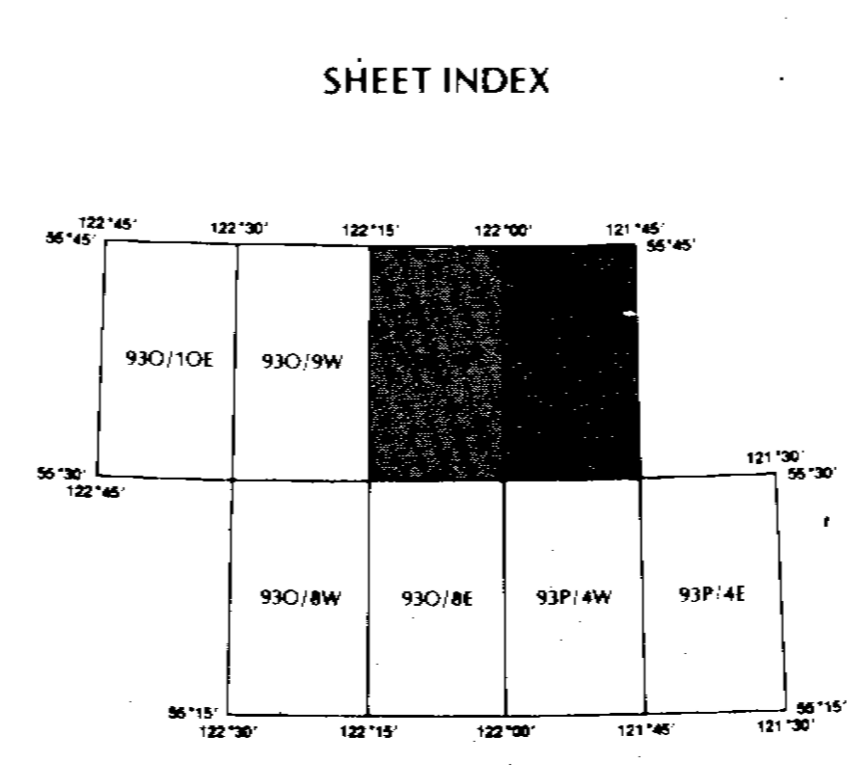
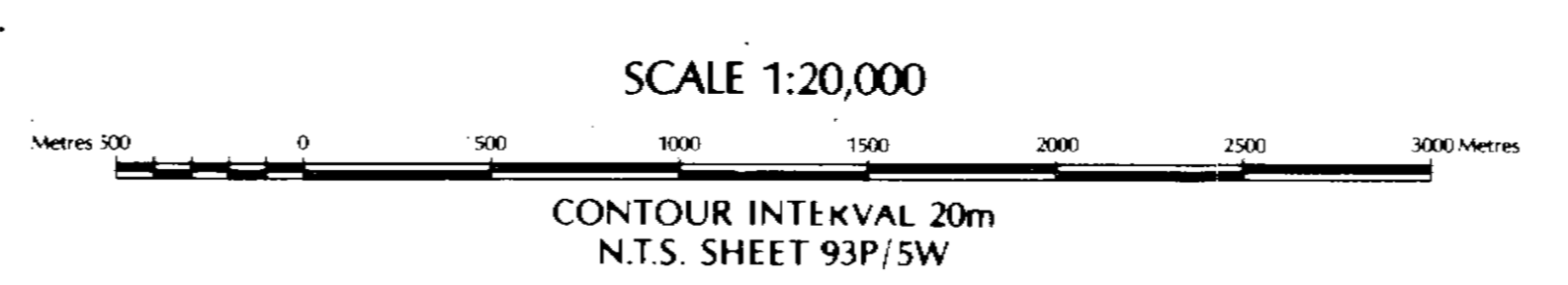
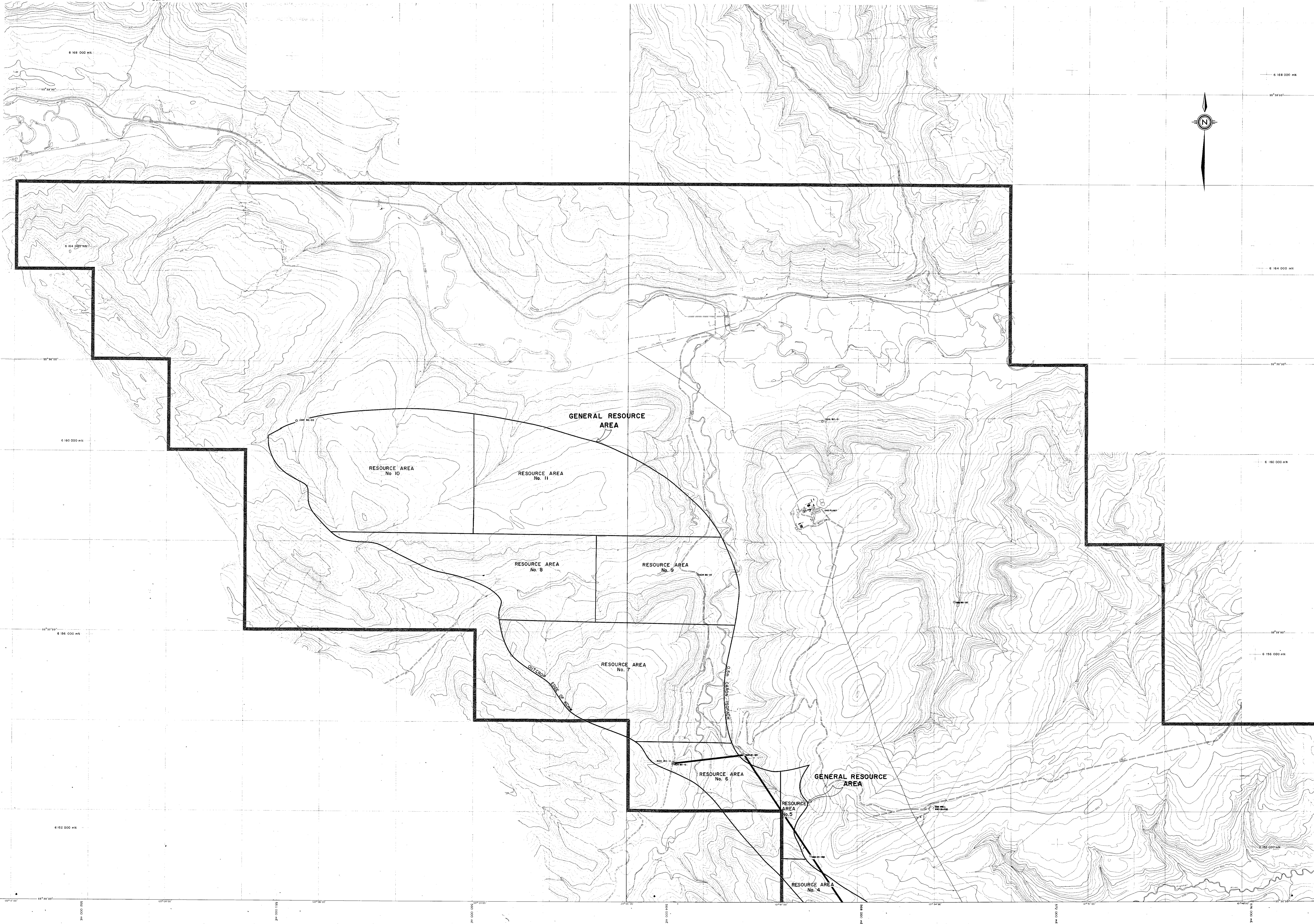
- MAIN ROAD
- SECONDARY ROAD
- TRACK or TRAIL
- CUTLINE
- RIVER
- STREAM
- LAKE
- CONTOURS

681

GULF CANADA RESOURCES INC.
 Coal Division

TRETI COAL PROJECT
 Northeast British Columbia
 1981
 MAP No. 1
 PROPERTY BOUNDARY
 GENERAL RESOURCE AREA
 RESOURCE AREAS - CARON SEAM
 LONGITUDINAL SECTION LOCATION
 SOUTH SHEET

DRAWN BY: Hardy Assoc. Ltd. **DATE:** Nov. 1981 **SCALE:** 1:20,000
PREPARED BY: D. W. MacForlane **DRAWING No.:**
APPROVED BY: **DATE:** Dec. 1981 **FILE No.:**



SURVEY NOTE
The map data was compiled photographically and is based on the Universal Transverse Mercator grid and geoid datum.

LEGEND

MAIN ROAD	.....
SECONDARY ROAD	.....
TRACK or TRAIL	.....
CUT LINE	.....
RIVER	.....
STREAM	.....
LAKE	.....
CONTOURS	.....

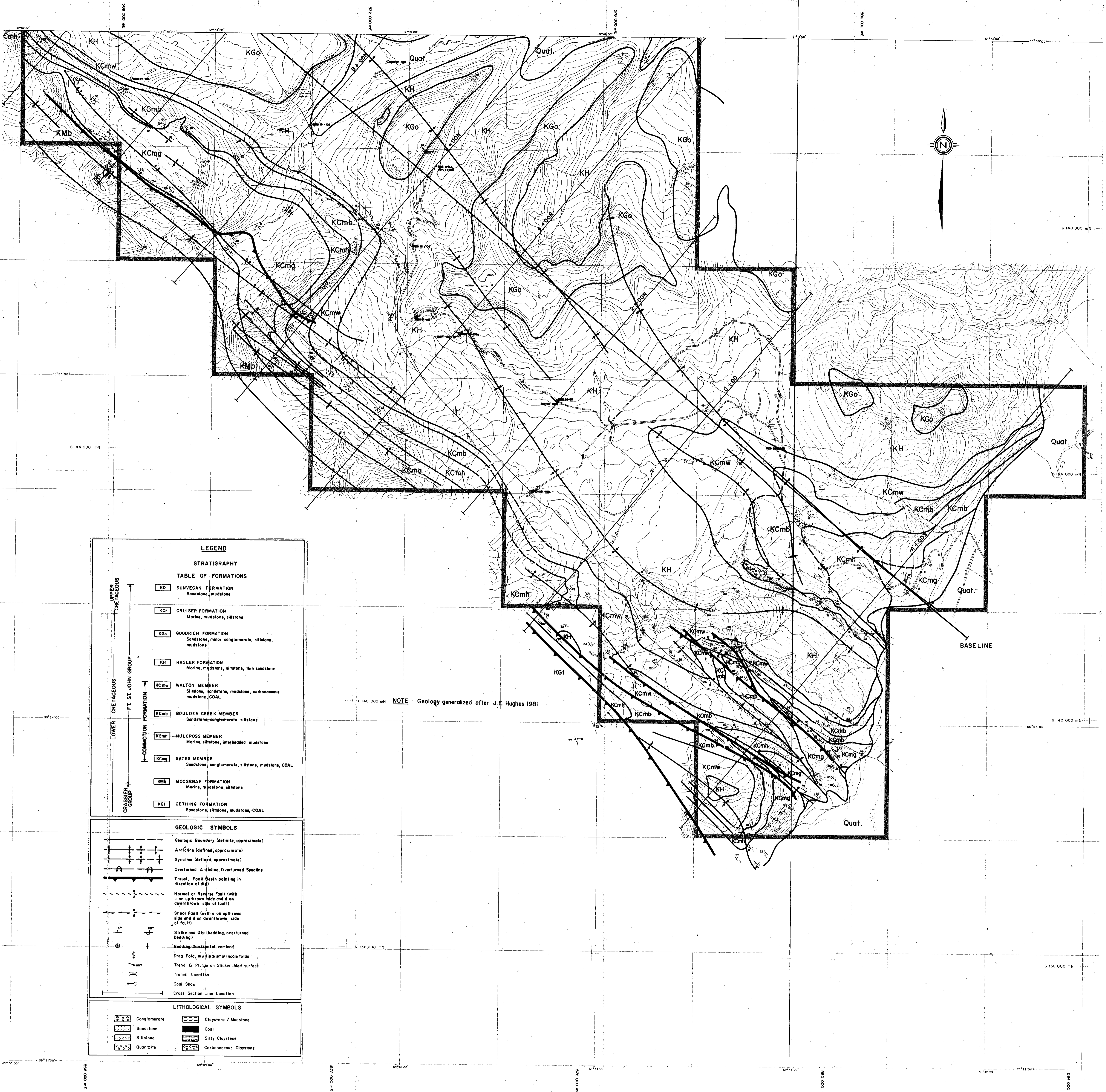
681

GULF CANADA RESOURCES INC.
Coal Division ALBERTA

TREFI COAL PROJECT
Northeast British Columbia
1981

MAP No. 1
PROPERTY BOUNDARY
GENERAL RESOURCE AREA
RESOURCE AREA - CARON SEAM
LONGITUDINAL SECTION LOCATION
NORTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE 1:20,000
APPROVED BY: D. W. MacFarlane	DRAWING No.
DATE: Dec. 1981	



LEGEND

STRATIGRAPHY

TABLE OF FORMATIONS

Kd	DUNVEGAN FORMATION Sandstone, mudstone
KCr	CRUISER FORMATION Marine, mudstone, siltstone
KGo	GOODRICH FORMATION Sandstone, minor conglomerate, siltstone, mudstone
KH	HASLER FORMATION Marine, mudstone, siltstone, thin sandstone
KCrw	WALTON MEMBER Siltstone, sandstone, mudstone, carbonaceous mudstone, COAL
KCmb	BOULDER CREEK MEMBER Sandstone, conglomerate, siltstone
KCrh	MULCROSS MEMBER Marine, siltstone, interbedded mudstone
KCmg	GATES MEMBER Sandstone, conglomerate, siltstone, mudstone, COAL
Kmb	MOOSEBAR FORMATION Marine, mudstone, siltstone
KGI	GETHING FORMATION Sandstone, siltstone, mudstone, COAL

GEOLOGIC SYMBOLS

Geologic Boundary (definite, approximate)
 Anticline (defined, approximate)
 Syncline (defined, approximate)
 Overturned Anticline, Overturned Syncline
 Thrust, Fault (teeth pointing in direction of dip)
 Normal or Reverse Fault (with u on upthrown side and d on downthrown side of fault)
 Shear Fault (with u on upthrown side and d on downthrown side of fault)
 Strike and Dip (bedding, overturned bedding)
 Bedding (horizontal, vertical)
 Drag Fold, multiple small scale folds
 Trend & Plunge on Slickensided surface
 Trench Location
 Coal Show
 Cross Section Line Location

LITHOLOGICAL SYMBOLS

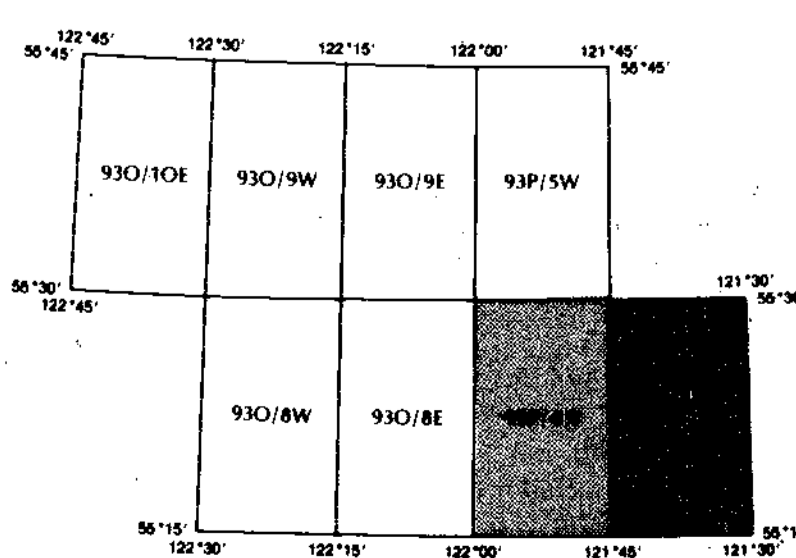
	Conglomerate		Claystone / Mudstone
	Sandstone		Coal
	Siltstone		Silty Claystone
	Quartzite		Carbonaceous Claystone

NOTE - Geology generalized after J.E. Hughes 1981

SCALE 1:20,000

CONTOUR INTERVAL 20m
N.T.S. SHEET 93P/4E

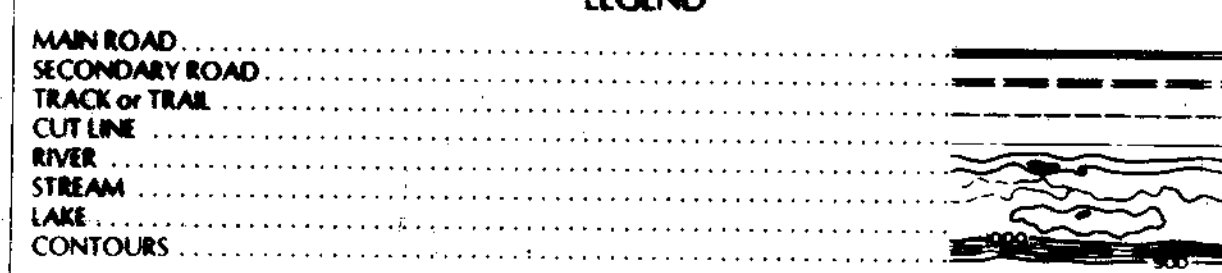
SHEET INDEX



SURVEY NOTE

The map data was compiled photographically and is based on the Universal Transverse Mercator grid and photorec. datum.

LEGEND



Digitized June 1990 by the "TREB" team, Calgary

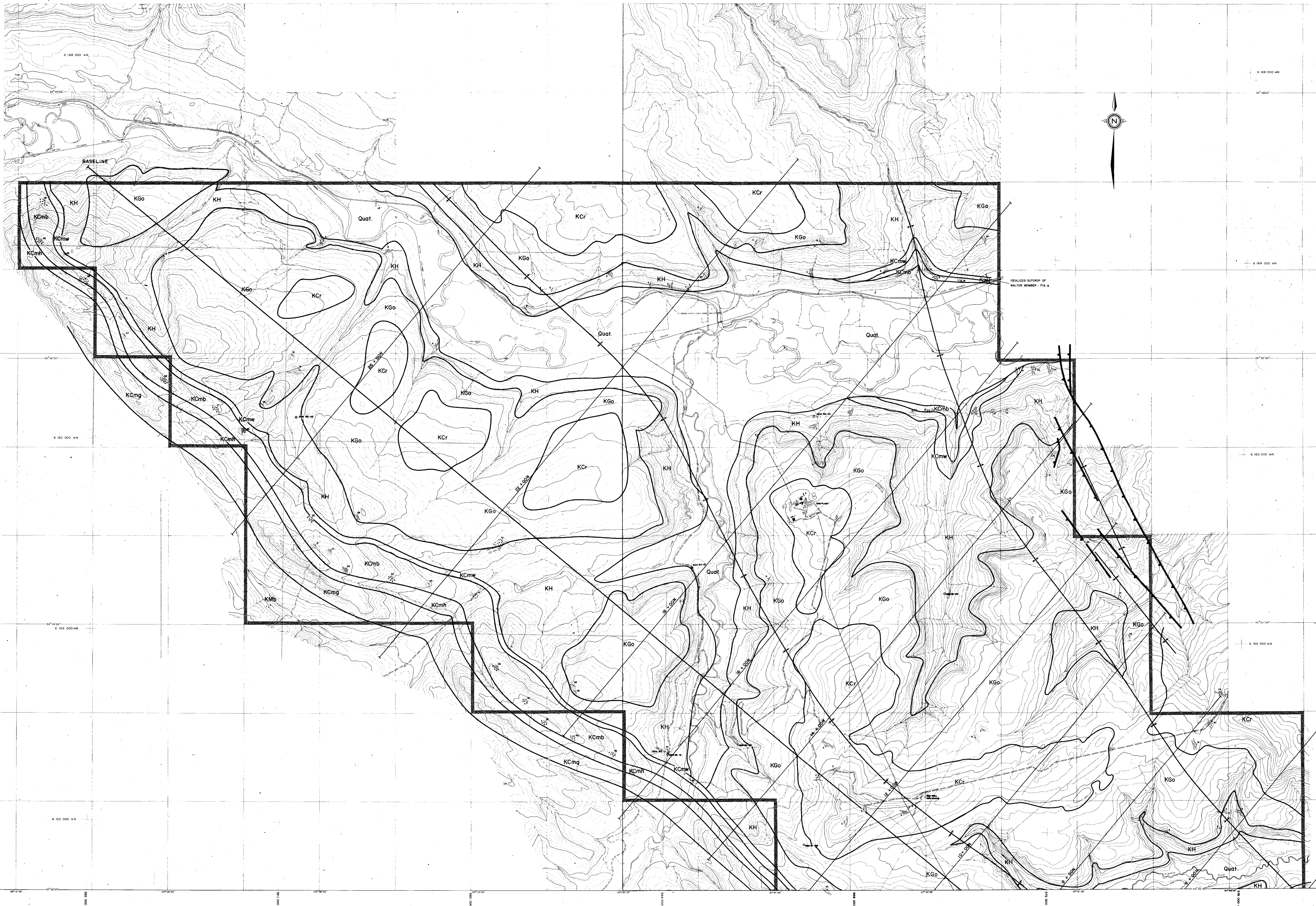
681

GULF CANADA RESOURCES INC.
Coal Division

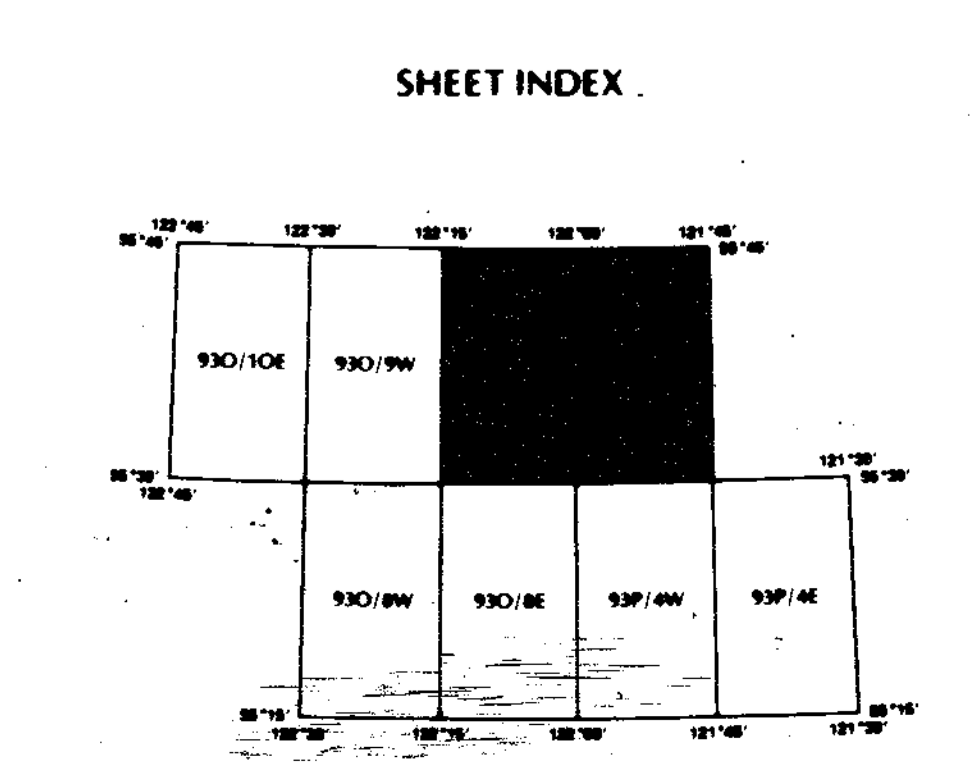
TRETI COAL PROJECT
Northeast British Columbia
1981

MAP NO. 2
GEOLOGY MAP WITH
BASELINE AND CROSS SECTION
SOUTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE 1:20,000
PREPARED BY: K. SAMSON	DRAWING No.
APPROVED BY: DATE: DEC. 81	FILE No.



SCALE 1:20,000
 CONTOUR INTERVAL 20m
 N.T.S. SHEET S3P/SW



SURVEY NOTE
 The map data was compiled photogrammetrically from aerial photography and ground control points.

LEGEND

MAIN ROAD	.....
SECONDARY ROAD	.....
TRACK OF TRAIL	.....
CUT LINE	.....
RIVER	.....
STREAM	.....
LAKE	.....
CONTOURS	.....

681

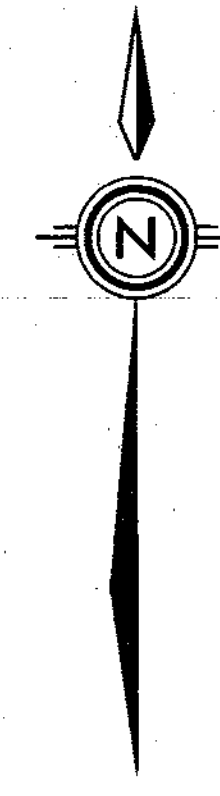
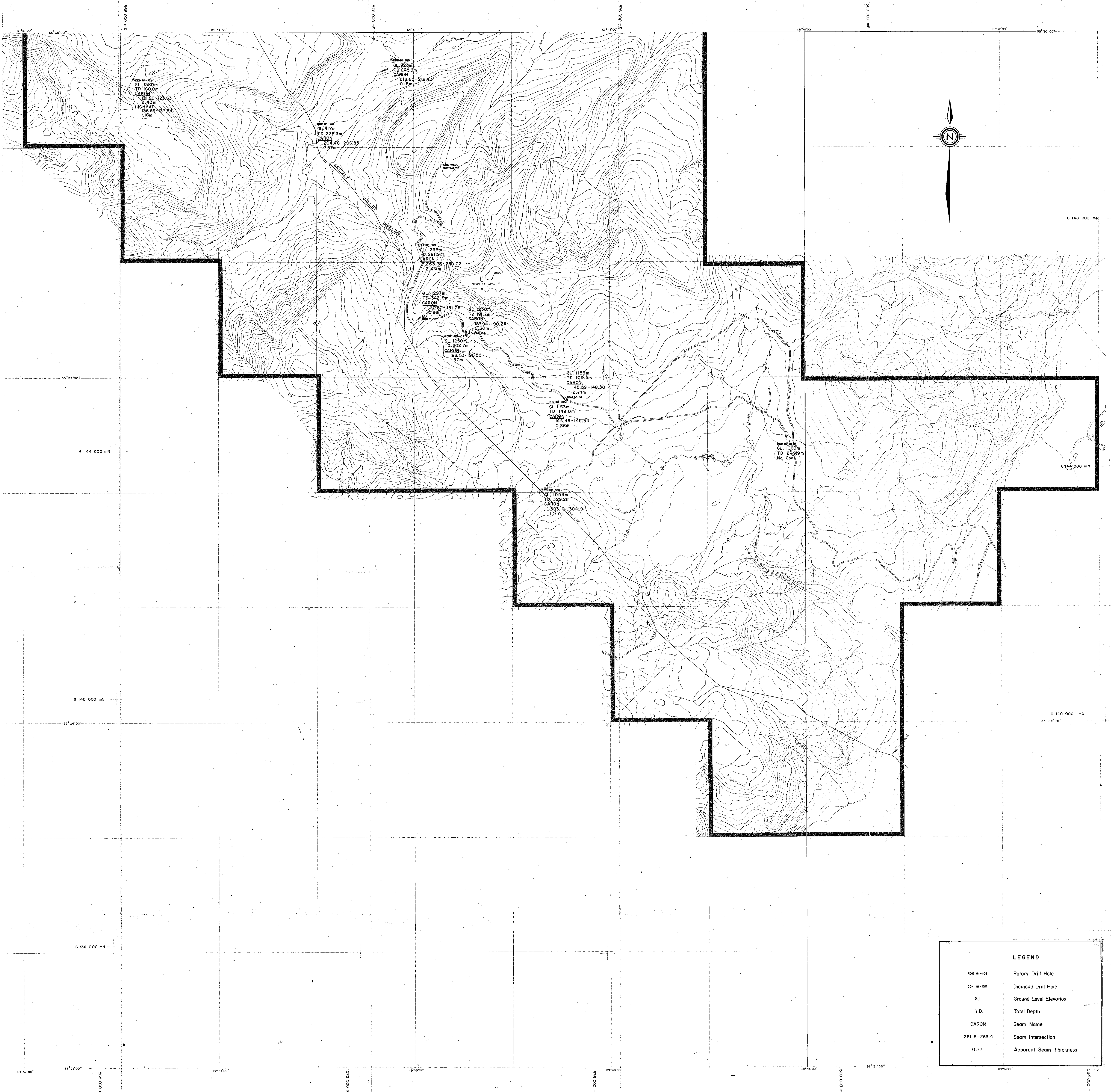
GULF CANADA RESOURCES INC.
 Coal Division ALBERTA

TRETI COAL PROJECT
 Northeast British Columbia

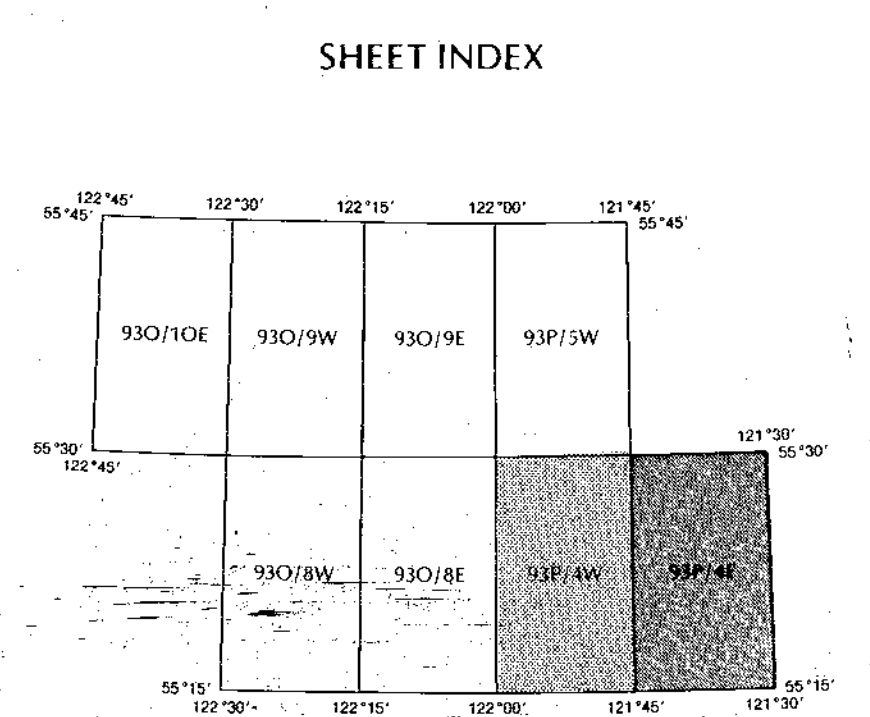
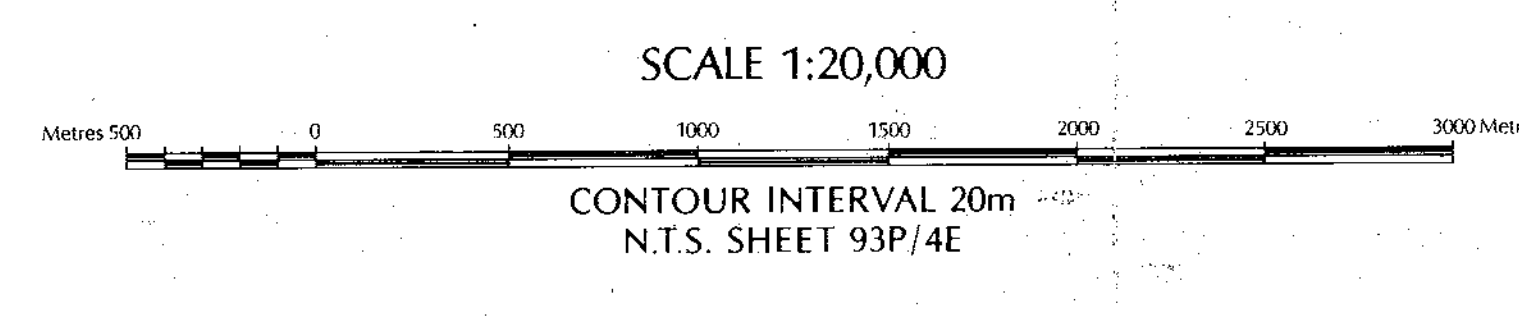
MAP NO. 2
 GEOLOGY MAP WITH
 BASELINE AND CROSS SECTION
 NORTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981
 PREPARED BY: K. SAMSON
 APPROVED BY: DATE: DEC. 1981

SCALE 1:20,000
 DRAWING No.



LEGEND	
RDH 81-103	Rotary Drill Hole
DDH 81-105	Diamond Drill Hole
G.L.	Ground Level Elevation
T.D.	Total Depth
CARON	Seam Name
261.6-263.4	Seam Intersection
0.77	Apparent Seam Thickness



SURVEY NOTE
The map data was compiled photographically and is based on the Universal Transverse Mercator grid and geodetic datum.

LEGEND

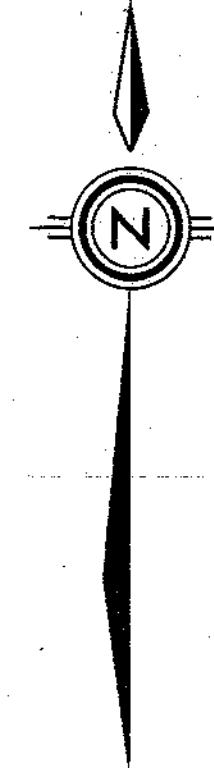
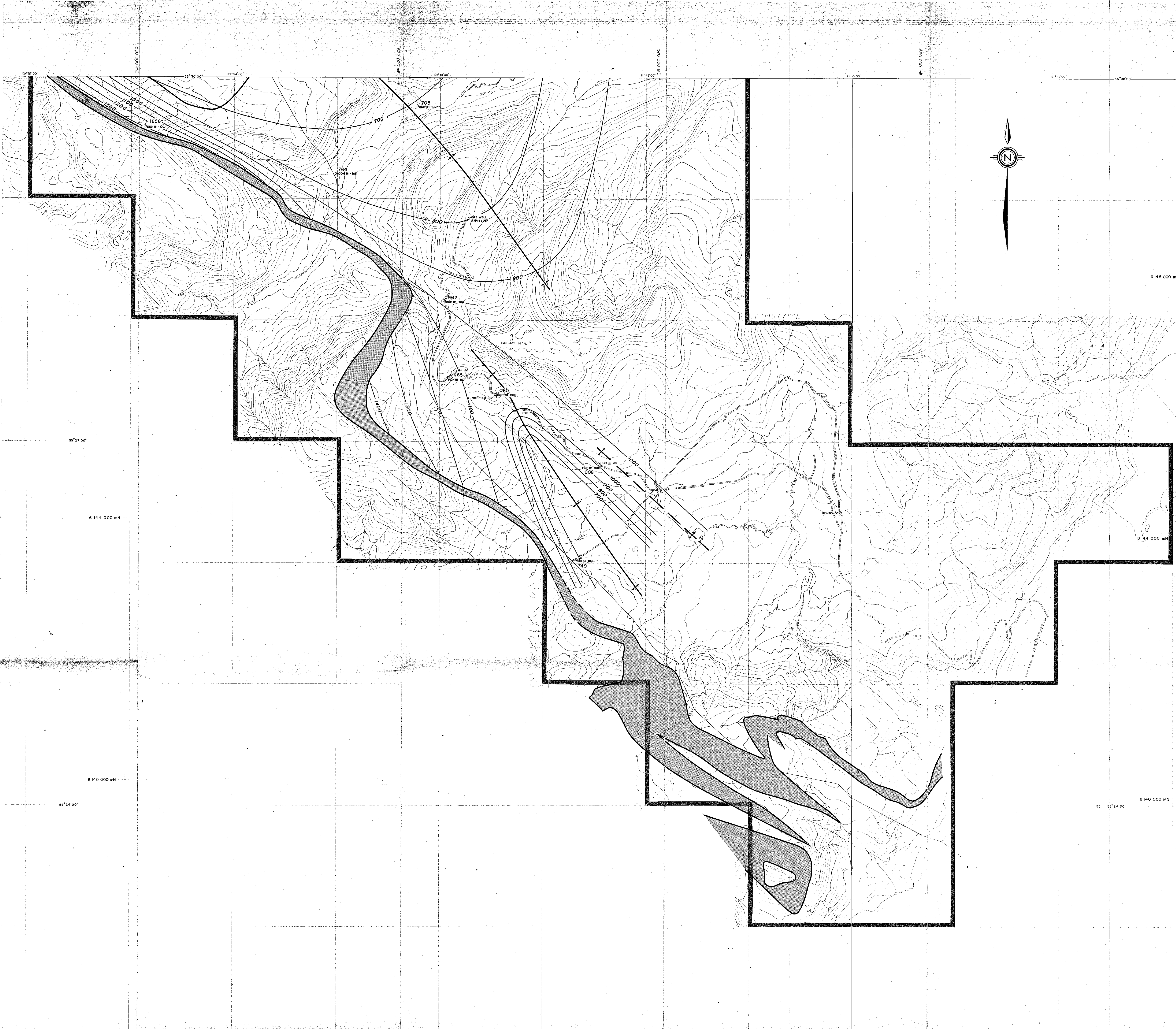
- MAIN ROAD
- SECONDARY ROAD
- TRACK or TRAIL
- CUTLINE
- RIVER
- STREAM
- LAKE
- CONTOURS

681

GULF CANADA RESOURCES INC.
Coal Division

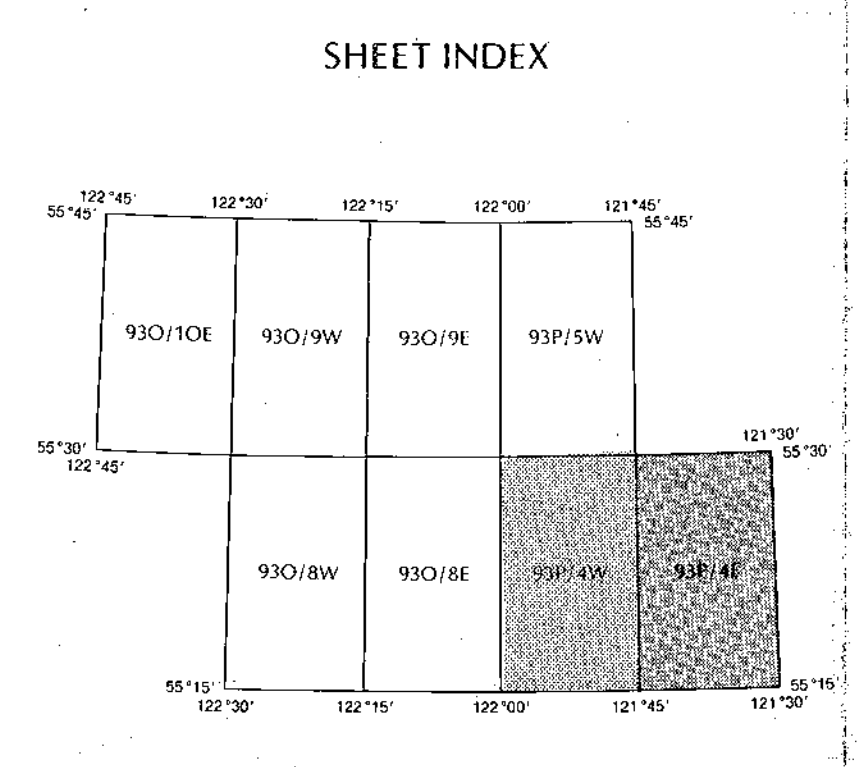
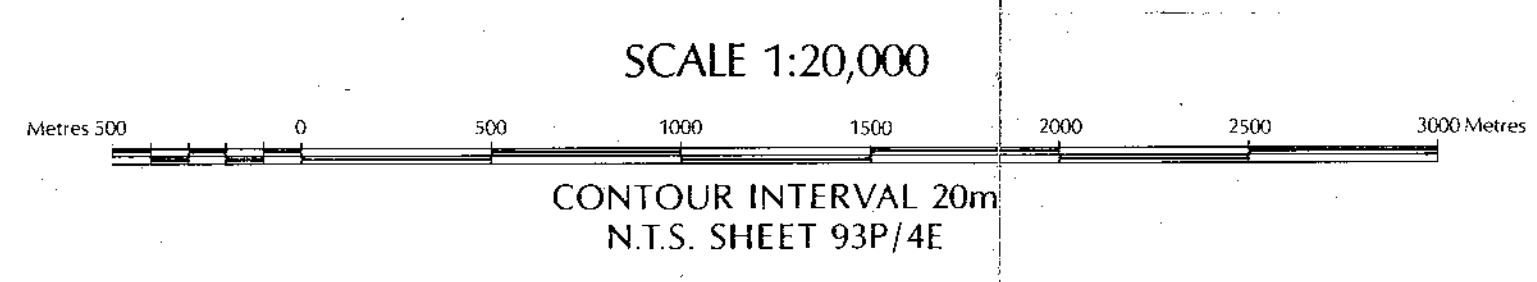
TRETI COAL PROJECT
Northeast British Columbia
1981
MAP No. 3
DOWN HOLE DATA MAP
SOUTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE 1:20,000
PREPARED BY: D.W. MACFARLANE	DRAWING No.
APPROVED BY: DATE: DEC. 1981	FILE No.



LEGEND

- Outcrop Pattern of the Wallaston Member.
- Rotary Drill Hole
- Diamond Drill Hole
- Structure Contour of Caron See Seam
- 600 m Cover Caron Seam
- 749 m Subsurface Elevation on Footwall of Caron Seam



SURVEY NOTE
The map data was compiled photo-grammetrically and is based on the Universal Transverse Mercator grid and geodetic datum.

LEGEND

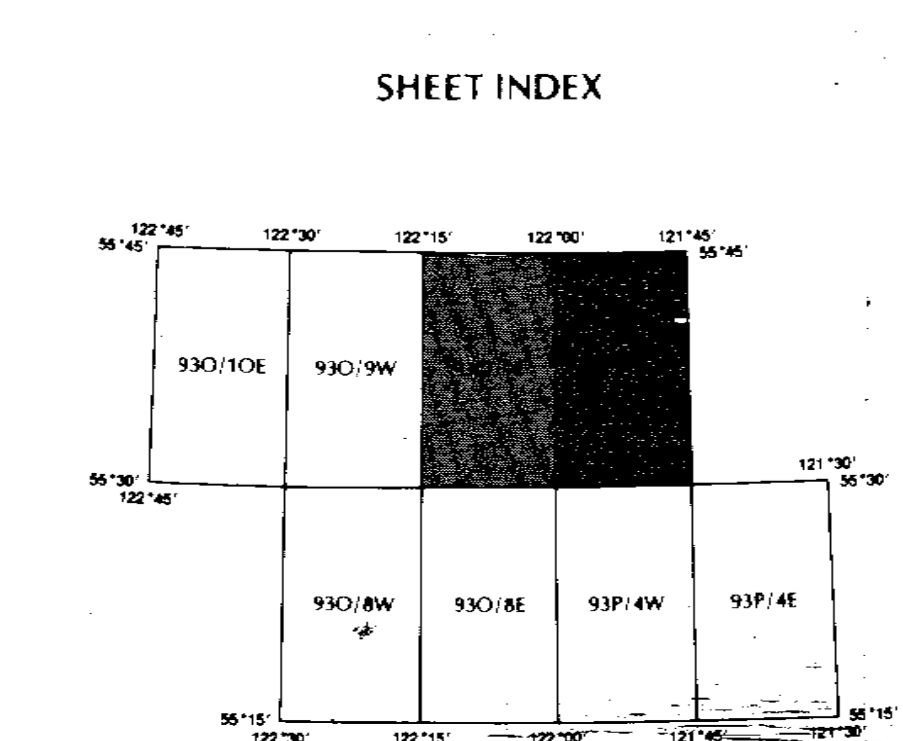
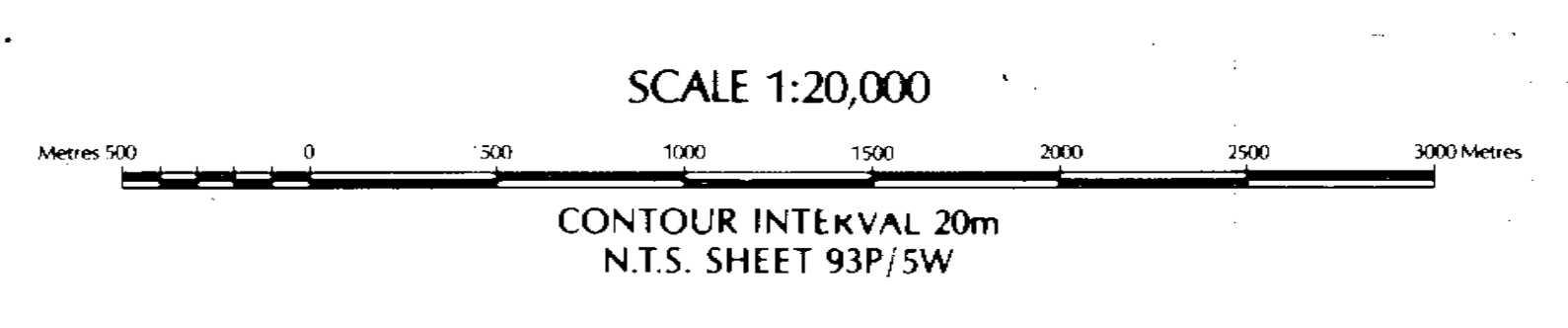
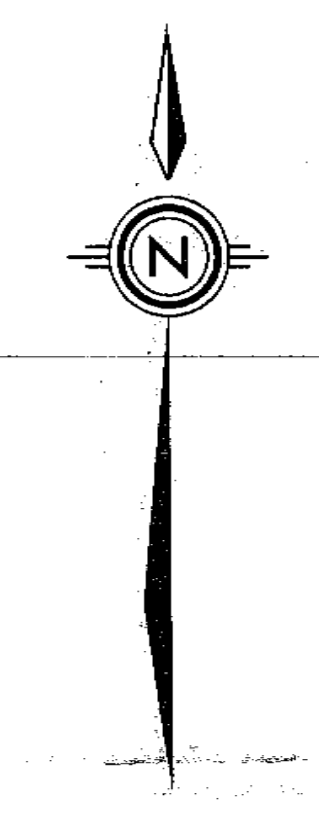
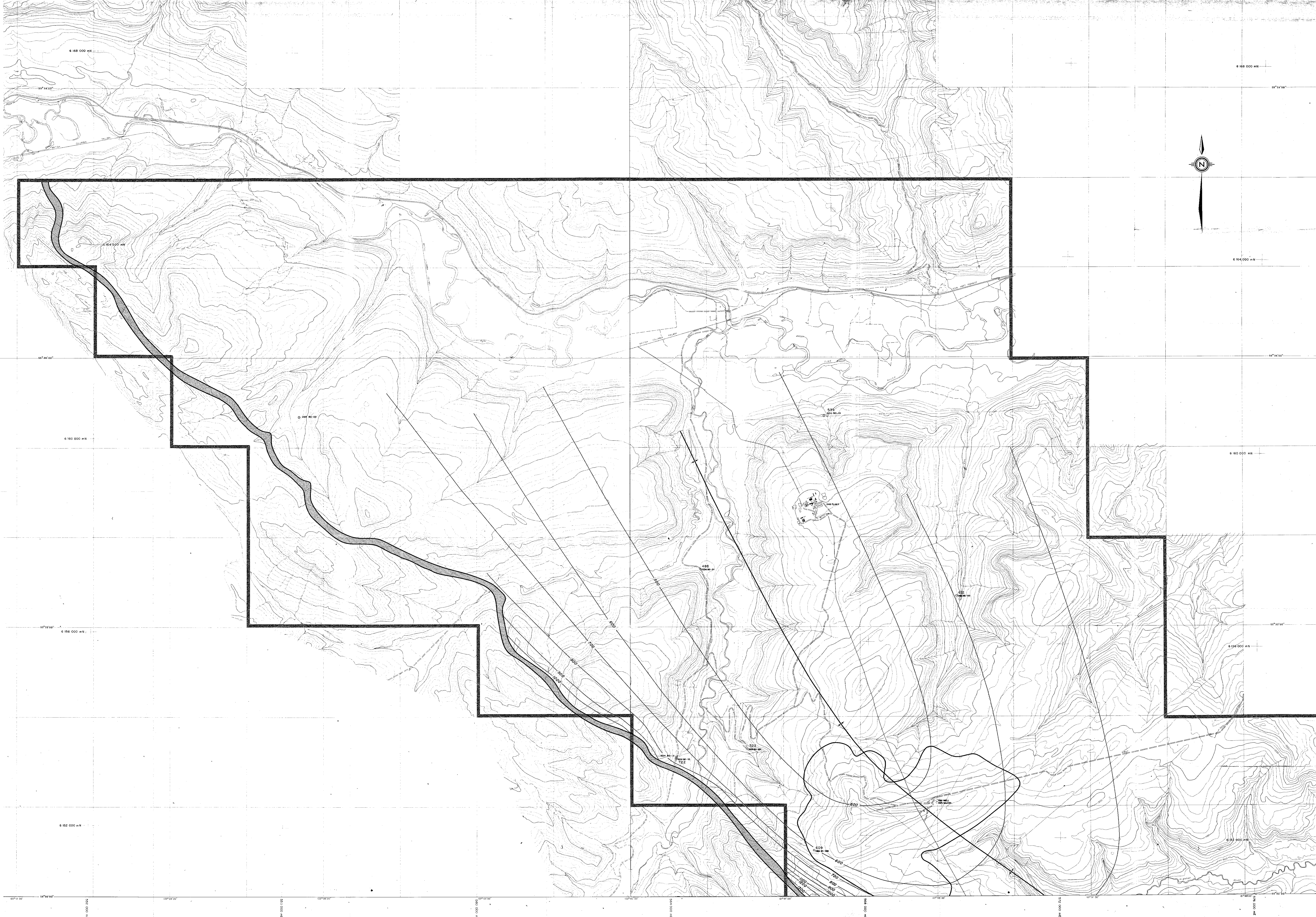
- MAIN ROAD
- SECONDARY ROAD
- TRACK or TRAIL
- CUTLINE
- RIVER
- STREAM
- LAKE
- CONTOURS

681

GULF CANADA RESOURCES INC.
Coal Division

TRETI COAL PROJECT
Northeast British Columbia
1981
MAP No. 4
STRUCTURE CONTOUR MAINMAP
SOUTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE 1:20,000
PREPARED BY: D. W. MACFARLANE	DRAWING No.
APPROVED BY:	DATE: DEC. 1981
FILE No.	



SURVEY NOTE
The map data was compiled photo-grammetrically and is based on the Universal Transverse Mercator grid and geoidic datum.

LEGEND

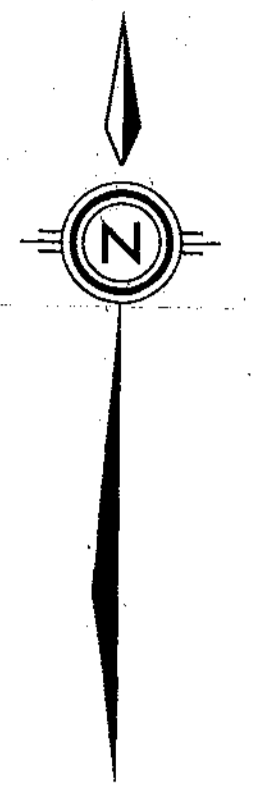
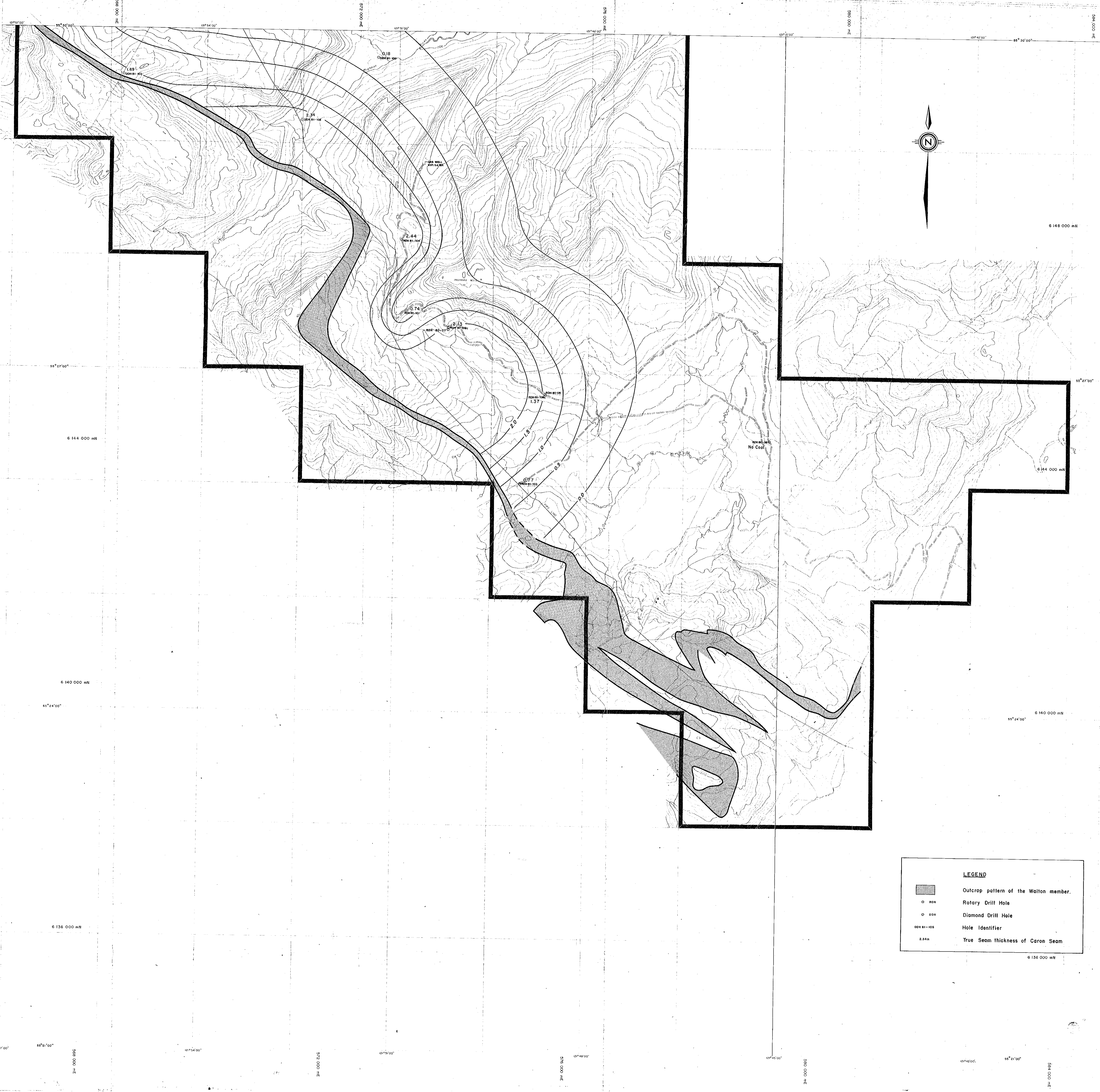
MAIN ROAD	—————
SECONDARY ROAD	.....
TRACKWAY	.....
CUTLINE	.....
POSS.	.....
STREAM	~~~~~
LAKE	.....
CONTOURS	.....

681

GULF CANADA RESOURCES INC.
Coal Division

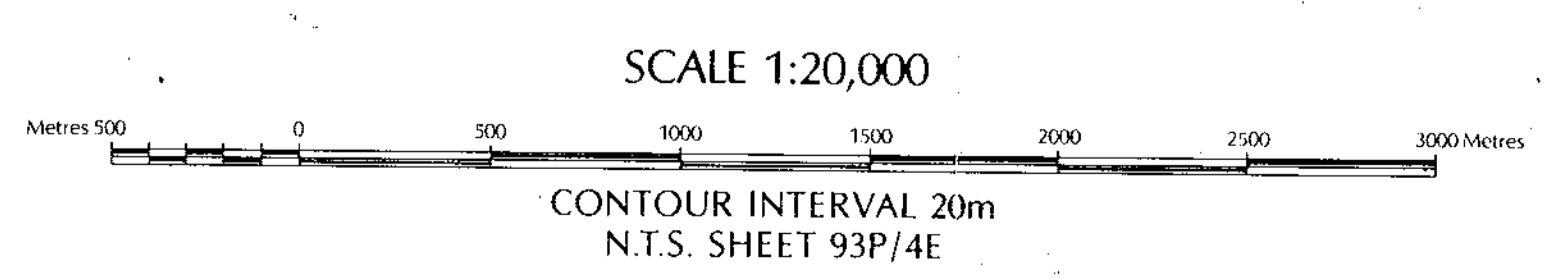
TRETI COAL PROJECT
Northeast British Columbia
1981
MAP No. 4
STRUCTURE CONTOUR MAP
NORTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE 1:20,000
APPROVED BY: D. W. MACFARLANE	DRAWING No.
DATE: DEC. 1981	FILE No.



LEGEND

	Outcrop pattern of the Walton member.
	Rotary Drill Hole
	Diamond Drill Hole
	Hole Identifier
	True Seam thickness of Caron Seam



SHEET INDEX

93O/ROE	93O/ROW	93O/RIE	93O/SW
93O/RAE	93O/RBE	93P/RAE	93P/RE

SURVEY NOTE

The map data was compiled photo-grammetrically and is based on the Universal Transverse Mercator grid and geoidic datum.

LEGEND

.....	MAIN ROAD
.....	SECONDARY ROAD
.....	TRACK or TRAIL
.....	CUTLINE
.....	RIVER
.....	STREAM
.....	LAKE
.....	CONTOURS

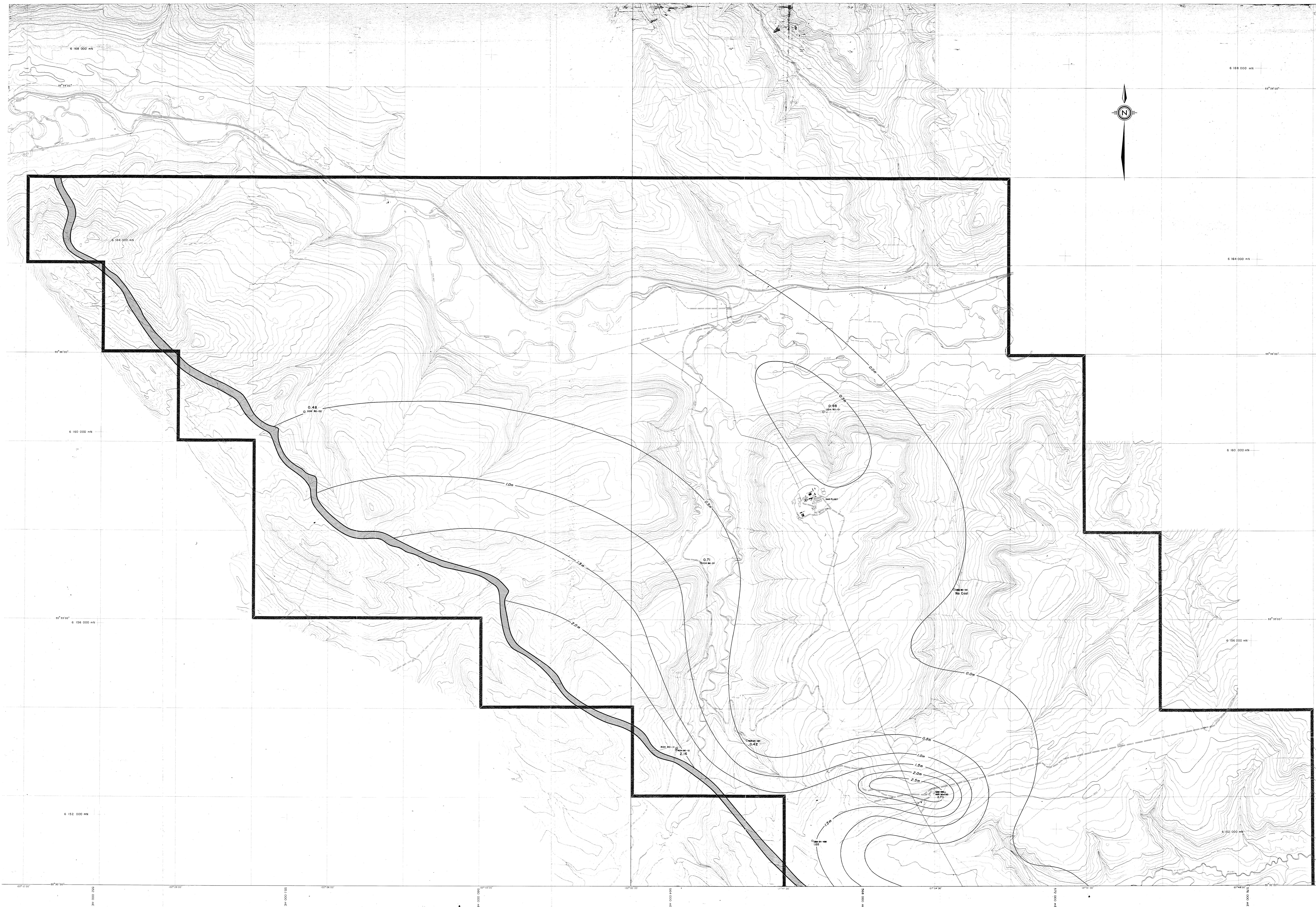
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GULF CANADA RESOURCES INC.

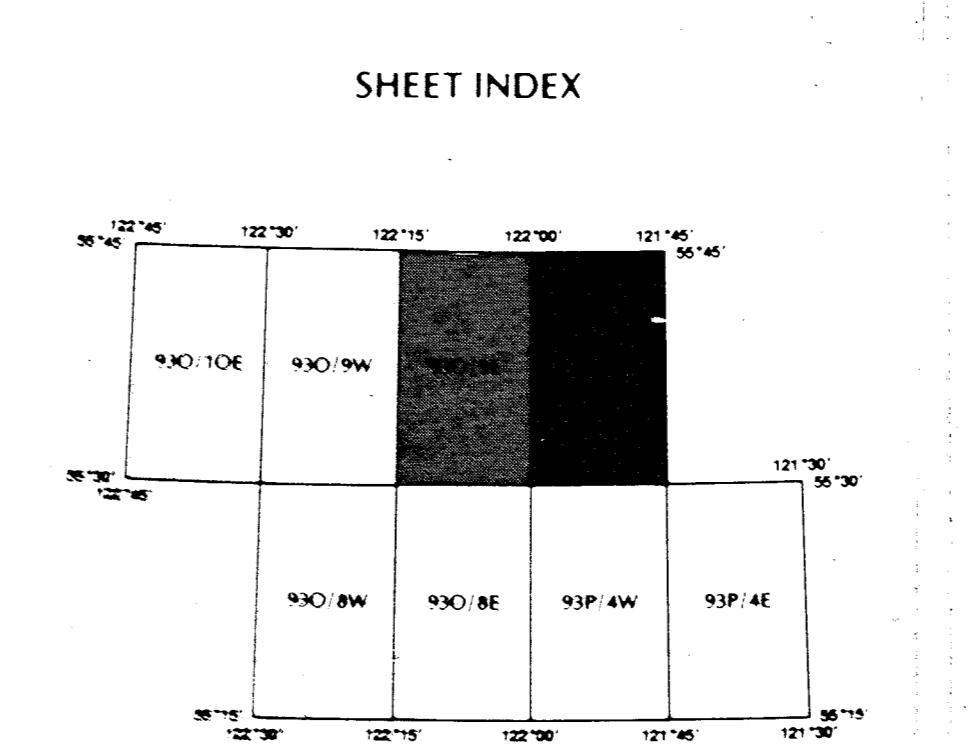
CALGARY Coal Division ALBERTA

TRETI COAL PROJECT
Northeast British Columbia
1981
MAP NO. 5
CARON SEAM ISOPACH
SOUTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE 1:20,000
PREPARED BY: D.W. MacFarlane	DRAWING No.
APPROVED BY: DATE: Nov. 81	FILE No.



SCALE 1:20,000
 CONTOUR INTERVAL 20m
 N.T.S. SHEET 93P/5W



SURVEY NOTE
 The map data was compiled photo-geometrically and is based on the Universal Transverse Mercator grid and geoid datum.

LEGEND

MAIN ROAD	—————
SECONDARY ROAD	—————
TRACK or TRAIL	—————
CUTLINE	—————
RIVER	—————
STREAM	—————
LAKES	—————
CONTOURS	—————

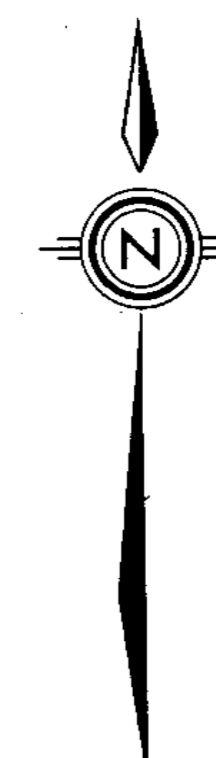
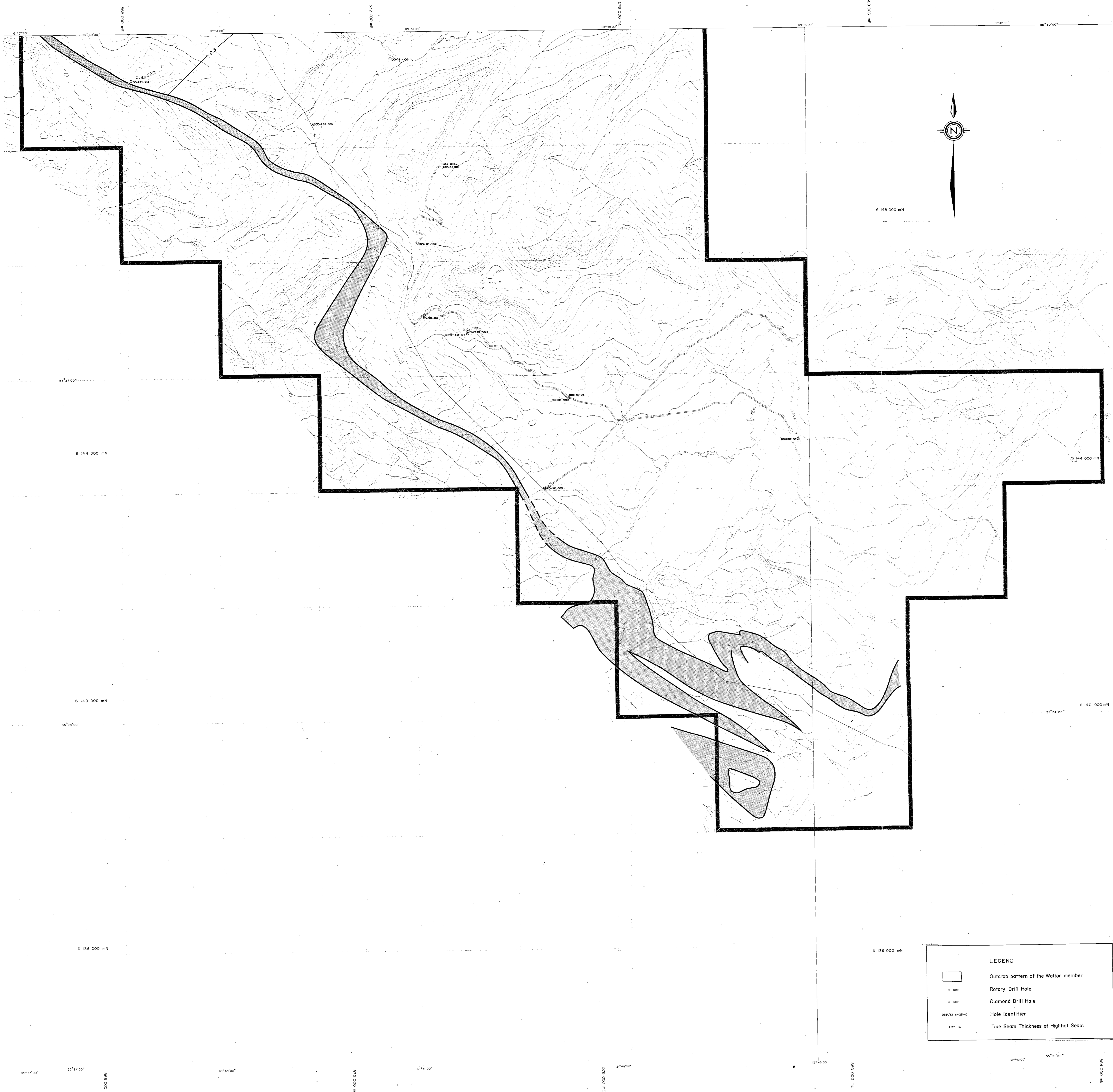
681

Tree 8/1/20

GULF CANADA RESOURCES INC.
 Coal Division

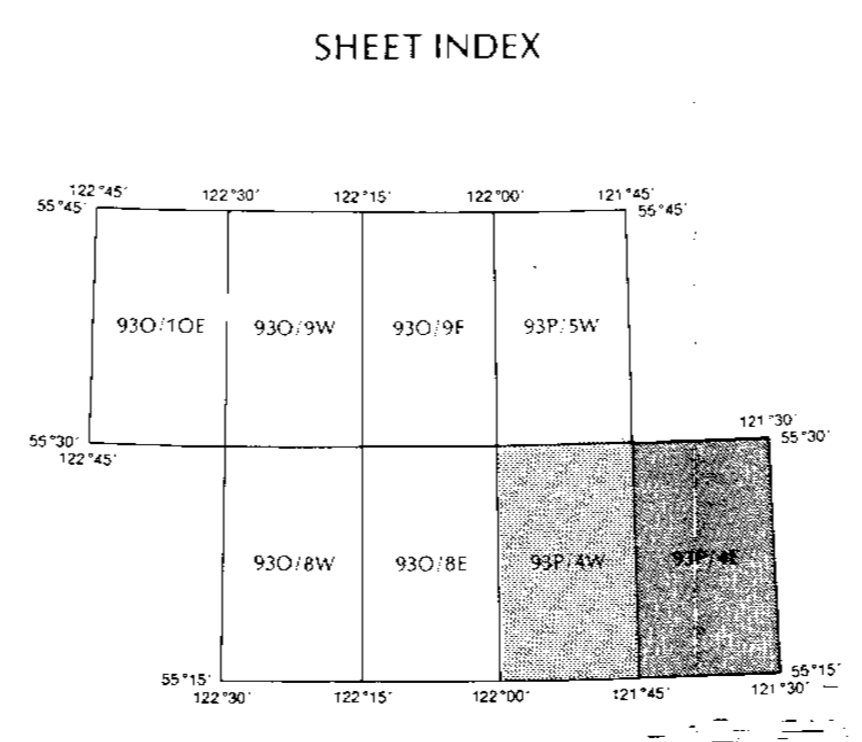
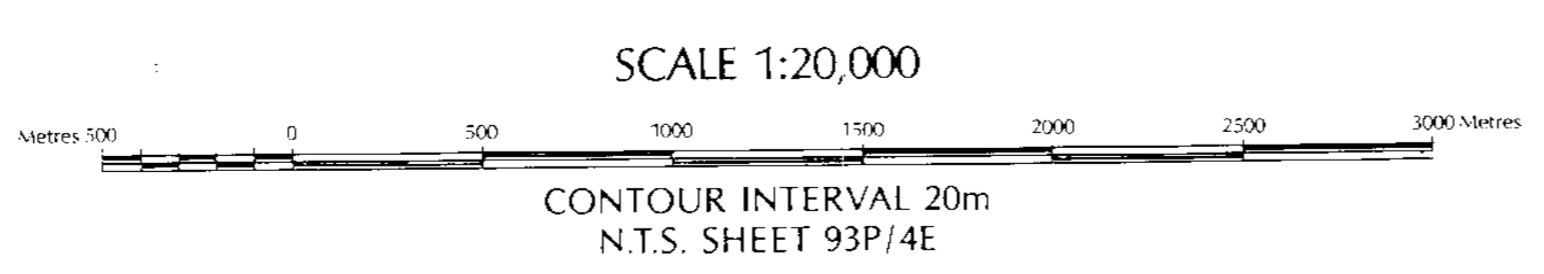
TREFFI COAL PROJECT
 Northeast British Columbia
 1981
 MAP NO. 5
 CARON SEAM ISOPACH
 NORTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE: 1:20,000
APPROVED BY: D.W. MacFarlane	DRAWING No.
DATE: Nov. 1981	FILE No.



LEGEND

	Outcrop pattern of the Walton member
	Rotary Drill Hole
	Diamond Drill Hole
	Hole Identifier
	True Seam Thickness of Highhat Seam



SURVEY NOTE
The map data was compiled photogrammetrically and is based on the Universal Transverse Mercator grid and geodetic datum.

LEGEND

MAIN ROAD	
SECONDARY ROAD	
TRACK or TRAIL	
CUTLINE	
RIVER	
STREAM	
LAKE	
CONTOURS	

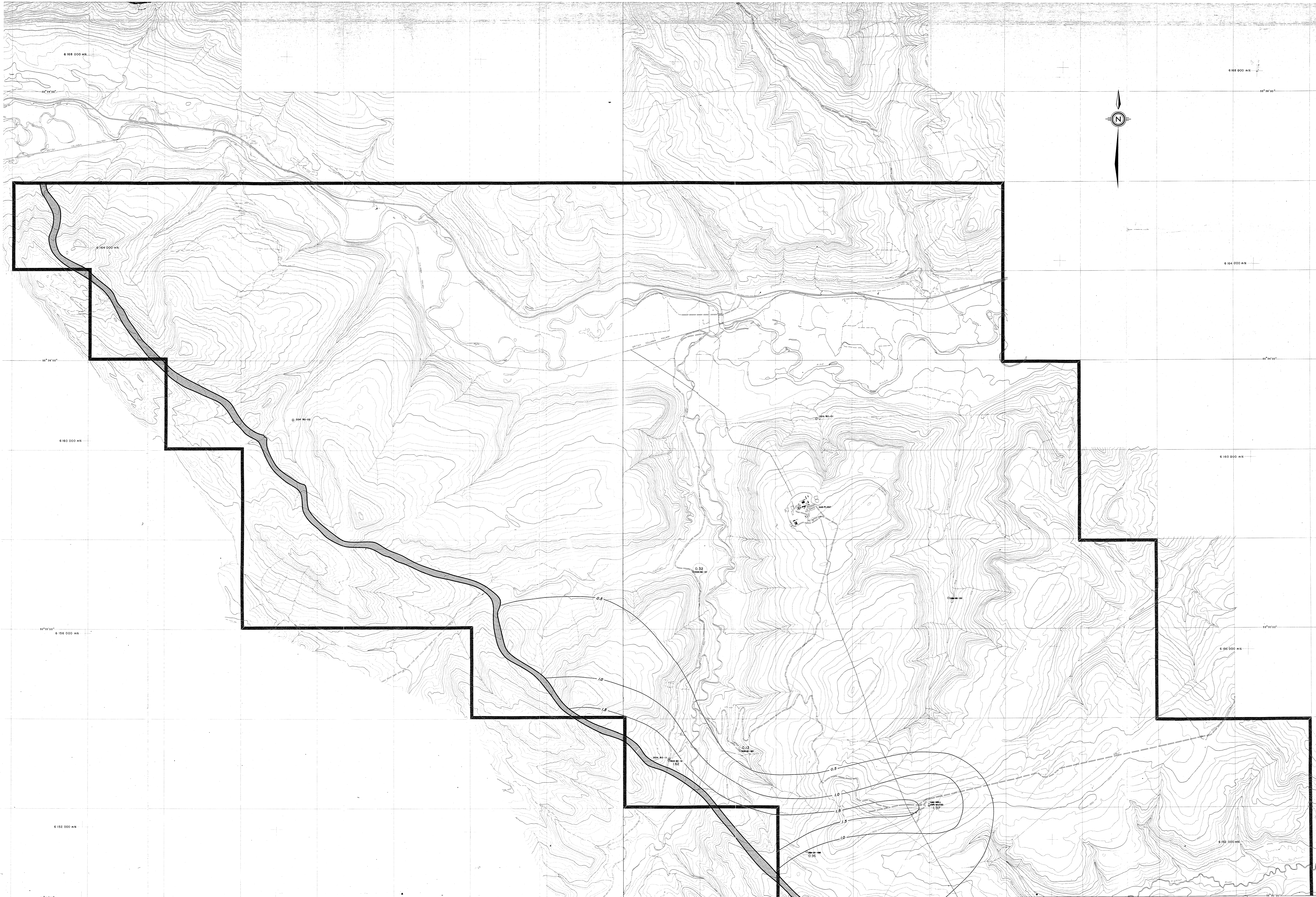
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GULF CANADA RESOURCES INC.
Coal Division

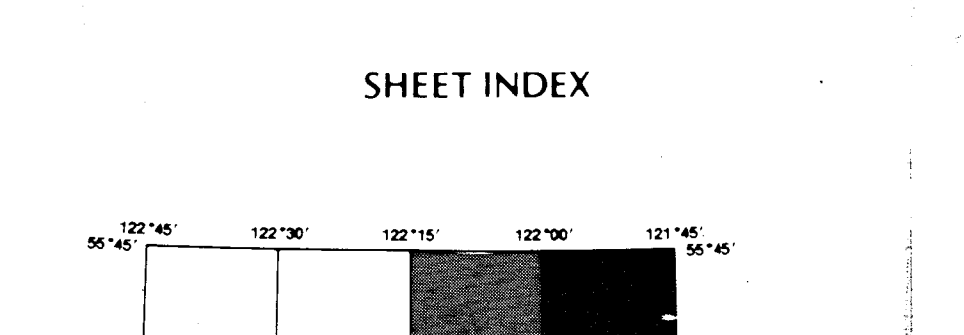
CALGARY ALBERTA

TRETI COAL PROJECT
Northeast British Columbia
1981
MAP No. 6
HIGHHAT SEAM ISOPACH
SOUTH HALF

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE 1:20,000
PREPARED BY: D. W. MACFARLANE	DRAWING No.
APPROVED BY: DATE: NOV. 1981	FILE No.



SCALE 1:20,000
 CONTOUR INTERVAL 20m
 N.T.S. SHEET 93P.5W



SURVEY NOTE
 The map data was compiled photogrammetrically and is based on the Universal Transverse Mercator grid and geoid, datum.

LEGEND

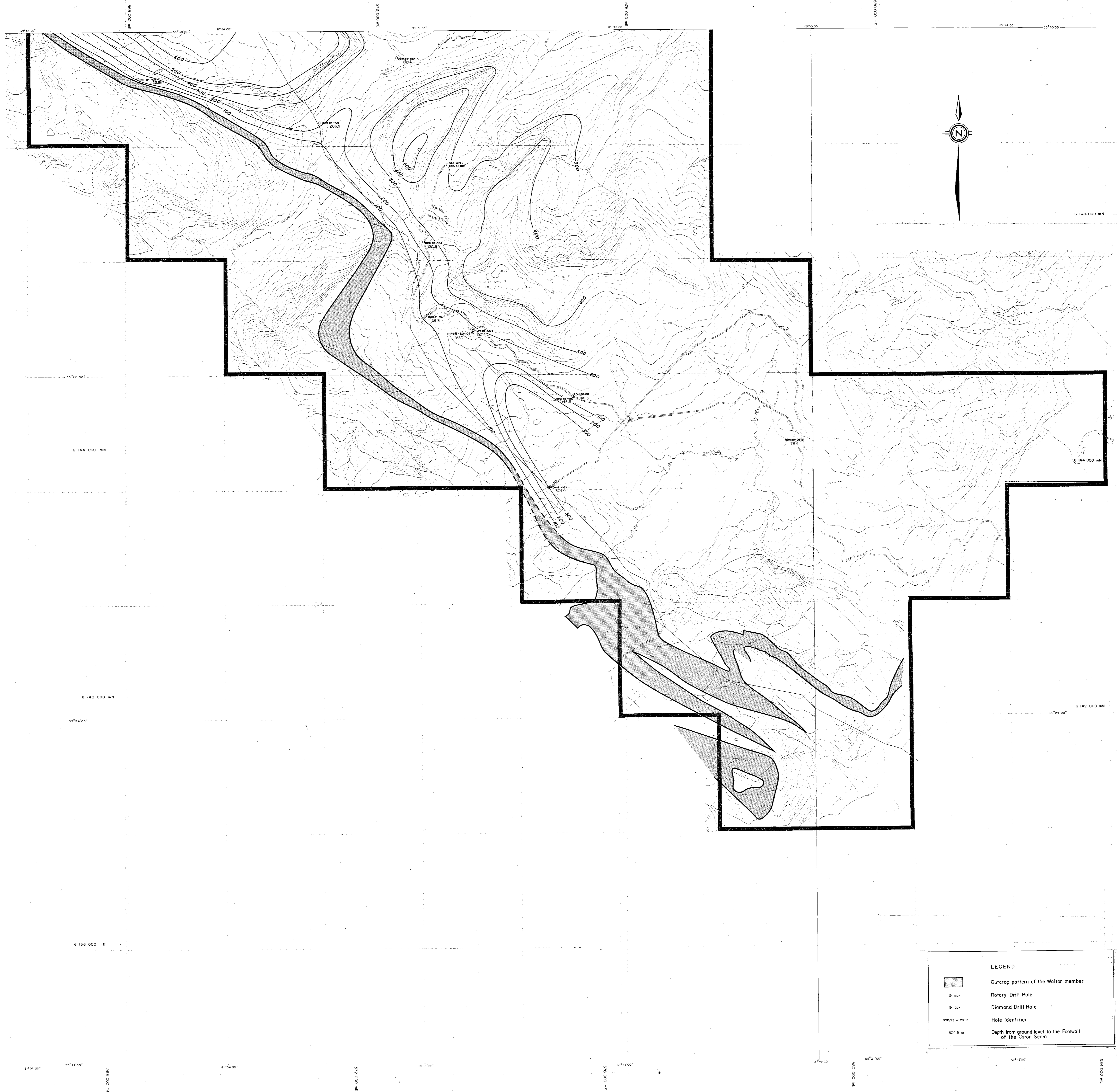
MAIN ROAD	—————
SECONDARY ROAD	-----
TRACK or TRAIL	.....
CUTLINE	.....
RIVER	~~~~~
STREAM	~~~~~
LAKE	.....
CONTOURS	.....

681

GULF CANADA RESOURCES INC.
 Coal Division

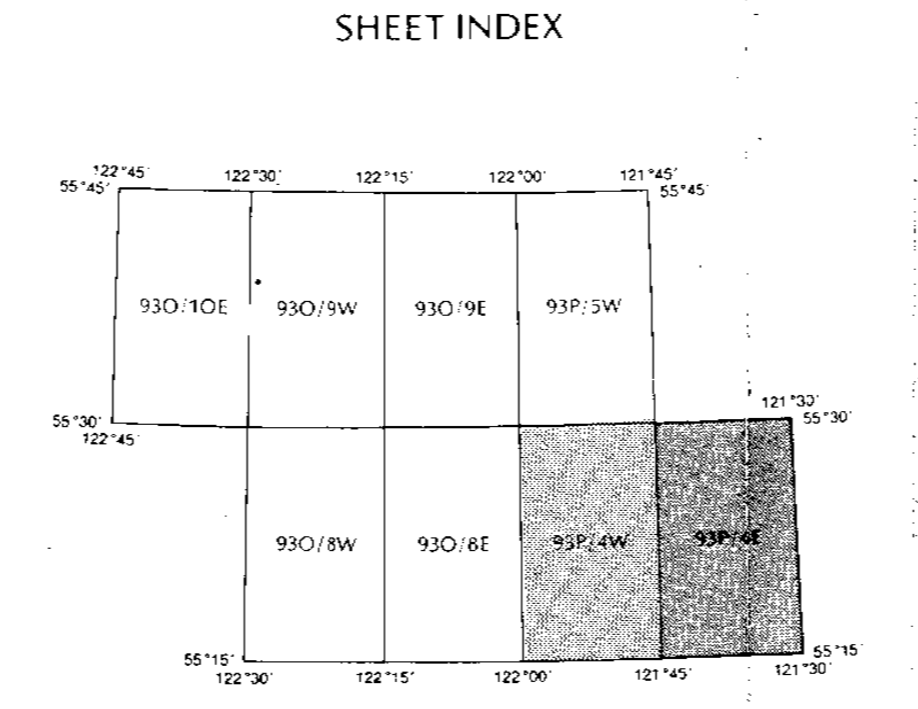
TRETI COAL PROJECT
 Northeast British Columbia
 1981
 MAP No. 6
 HIGHHAT SEAM HOPACH
 NORTH HALF

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE 1:20,000
PREPARED BY: D.W. MACFARLANE	DRAWING No.
APPROVED BY: DATE: NOV. 81	



LEGEND	
	Outcrop pattern of the Walton member
	Rotary Drill Hole
	Diamond Drill Hole
	Hole Identifier
	Depth from ground level to the Footwall of the Caron Seam

SCALE 1:20,000
 CONTOUR INTERVAL 20m
 N.T.S. SHEET 93P/4E



SURVEY NOTE
 The map data was compiled photogrammetrically and is based on the Universal Transverse Mercator grid and geodetic datum.

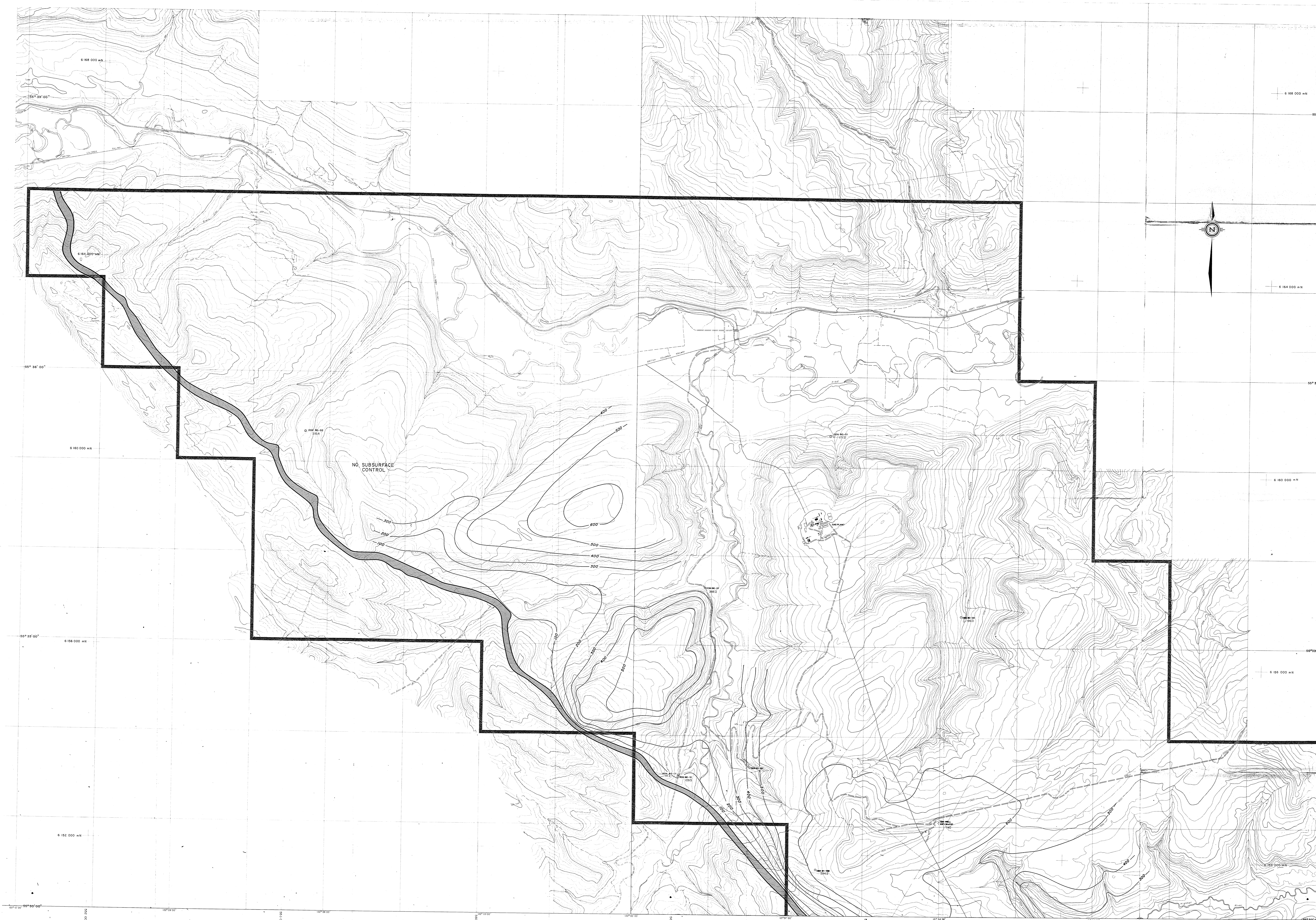
LEGEND	
	MAIN ROAD
	SECONDARY ROAD
	TRACK or TRAIL
	CUTLINE
	RIVER
	STREAM
	LAKE
	CONTOURS

681

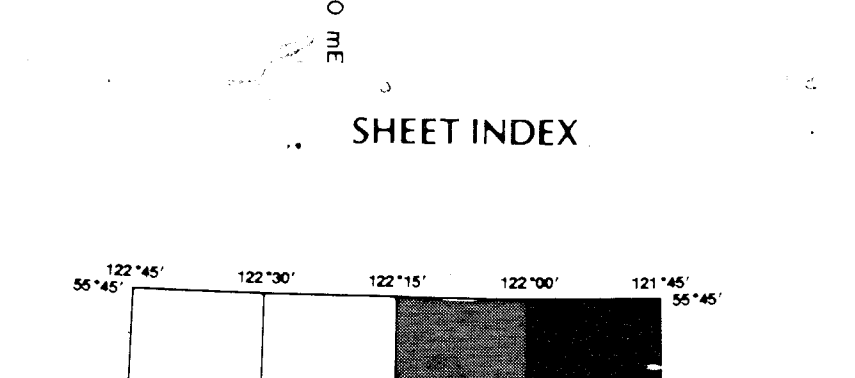
GULF CANADA RESOURCES INC.
 Coal Division

TREFI COAL PROJECT
 Northeast British Columbia
 1981
 MAP No. 7
 COVER - CARON SEAM
 SOUTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981	SCALE 1:20,000
PREPARED BY: D. W. MacFarlane	DRAWING No.
APPROVED BY:	DATE: NOV. 1981
	FILE No.



SCALE 1:20,000
 CONTOUR INTERVAL 20m
 N.T.S. SHEET 93P/5W



SURVEY NOTE
 The map data was compiled photogrammetrically and is based on the Universal Transverse Mercator grid and geoidic datum.

LEGEND

MAN ROAD
 SECONDARY ROAD
 TRACK OR PAVE
 CUTLINE
 RIVER
 STREAM
 LAKE
 CONTOURS

681

GULF CANADA RESOURCES INC.
 Coal Division

TRETI COAL PROJECT
 Northeast British Columbia
 (SGI)
 MAP No. 7
 COVER - CARON SEAM
 NORTH SHEET

DRAWN BY: Hardy Assoc. Ltd. DATE: Nov. 1981 **SCALE:** 1:20,000
PREPARED BY: D.W. MacFarlane **DRAWING No.:**
APPROVED BY: DATE: NOV. 81