

February 10, 1986

Ministry of Energy, Mines & Petroleum Resources 617 Government Street Victoria, B.C. V8V 1X4

Attention: Mr. P. Hagen

Coal Administrator

Dear Sir:

Enclosed please find our report on the Zymoetz Project.

This report has been prepared by Mr. S. Cameron, who is employed by Crows Nest Resources Limited as a geologist.

Mr. S. Cameron, B.Sc., in Geology graduated from the University of Calgary in 1981. Prior to graduation Mr. Cameron worked as an assistant for a major exploration company in the North West Territories. He also worked for Crows Nest Resources Limited as a geological assistant in 1980. Mr. Cameron has been employed by Crows Nest Resources Limited as a Geologist since May 1981.

In my opinion, Mr. Cameron is fully qualified, by training and experience to prepare this report and this account of work done under his direct supervision.

Yours very bruly

H.G. Rushton

Vice President - Development

Enclosure

ZYMOETZ RIVER GEOLOGICAL REPORT

NTS MAP SHEET:

LATITUDE/LONGITUDE:

COAL LICENCES:

HELD BY:

OPERATED BY:

EXPLORATION PERIOD:

REPORT DATE:

GEOLOGIST: SUBMITTED 93L/13

54° 30'/127° 45'

Group 322

4252, 4253, 4254, 4255

SHELL CANADA LIMITED

CROWS NEST RESOURCES LIMITED

SEPTEMBER, 1985

OCTOBER, 1985

STEVE CAMERON

10-11-86

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1.0 SUMMARY

The Zymoetz River Coal Project is contained within four coal licences.

These licences are held by Shell Canada Ltd. and operated by Crows Nest Resources Ltd.

The 1985 drilling program included the preparation of two drill sites and drilling two NQ diamond drill holes. The coordinates of the drill holes were located by air photos. The total expenditure for 1985 was \$61,809.65. All of this amount is being applied to the coal licences covered by this report.

2.0 INTRODUCTION

2.1 Location

Enclosure 1 - location and Index map. The property is located at the confluence of the Zymoetz river and Coal Creek.

N. Lat. 54° 30'

W. Long. 127° 45'

2.2 Tenure

The Zymoetz River Licences are contained in group number 322. The coal licence numbers included in this group are 4252, 4253, 4254 and 4255.

3.0 REGIONAL GEOLOGY

Mesozoic successor basins developed in the Intermontane Belt between the Columbian and Pacific Orogens in the B.C. Cordillera. These deeply subsiding troughs usually had both marine and fresh water depositional environments. Coal-bearing clastic sequences also accumulated in areas of dip-slip and strike-slip faulting in the troughs.

The Skeena Group successor basin is filled with interbedded marine and non-marine sedimentary and volcanic strata. This assemblage was deposited on the folded and faulted terrane of the Bowser Lake and older groups such as the Hazelton. Sediments of the Skeena Group are distinguishable from the Bowser Lake and Hazelton sediments by the presence of fine detrital muscovite. "In the Late Jurassic to Early Cretaceous, prior to deposition of the Skeena Group sediments, the Hazelton Group underwent a period of uplift, deformation and erosion. During the mid Early Cretaceous, the sea readvanced from the west, in the area of Skeena Valley, inundating the non-marine, Late Lower Cretaceous coal basins such as Telkwa and Lake Kathlyn. The sediments of the Skeena Group were derived from an uplifted Pinchi-belt - Columbian Orogen. They were deposited in a southwesterly direction, across the Skeena Arch, which apparently had little influence on the shape of the basin receiving the Skeena Clastics". 1

Tipper H.W. and Richards T.A., Jurassic Stratigraphy and History of North Central British Columbia, 1976, page 7.

4.0 ZYMOETZ GEOLOGY

4.1 Stratigraphy

The basement rocks of the Zymoetz property consist of Upper Jurrassic/Lower Cretaceous volcanics of the Hazelton Group. The volcanics are unconformably overlain by Cretaceous sediments of the Skeena group. These sediments are composed of conglomerate, sandstone, siltstone, shale, mudstone, coal and minor lava flows. Younger intrusives in the form of dykes, sills and stocks are often present.

The Skeena sedimentary section at Zymoetz River varies in thickness but probably does not exceed 300 meters. A basal conglomerate overlies the basement volcanics. At least five coal seams are present with an aggregate coal thickness ranging from 4 meters to 8 meters. These seams vary in thickness and are not laterally extensive. 1985 drilling indicates that the seams pinch out to the north as well as to the south. All of the economic coal seams are in the Coal Creek area, and are contained in the lower part of the Skeena section.

4.2 Structure

In the Coal Creek area of the Zymoetz property, the section dips to the west at an average 25°. To the West (down dip), the Skeena sediments are in fault contact with the Hazelton volcanics. The area of interest is truncated to the north by a high angle fault (normal or reverse). To the south and east the underlying Hazelton Group outcrops. (See Geology Map)

5.0 SUMMARY OF PREVIOUS WORK

Work done in 1979

- 1:10 000 scale geological mapping
- Diamond drilling (two holes)
- Location survey of diamond drill holes
- Drill site reclamation

No exploration work was performed in 1980.

Work done in 1981

- 1:10 000 scale geological mapping
- Additional reclamation of 1979 drill sites

No exploration work was performed in 1982.

Work done in 1983

- One diamond drill hole
- Drill site reclamation

Work done in 1984

- Two diamond drill holes
- Drill site reclamation

6.0 WORK DONE IN 1985

- 5,000 scale mapping
- Two diamond drill holes

7.0 MINEABILITY

On the Zymoetz property five seams can be correlated over a strike length of approximately half a kilometer. The coal seams appear to be limited to the area directly adjacent to Coal Creek in the center of the licence block. The coal seams are dipping at an average 25° into the topography and have a limited strike length. The 1985 drilling program did not prove any additional reserves. It is estimated that there is less than one million tonnes in place of surface mineable coal at ratios less than $7m^3/raw$ tonne.

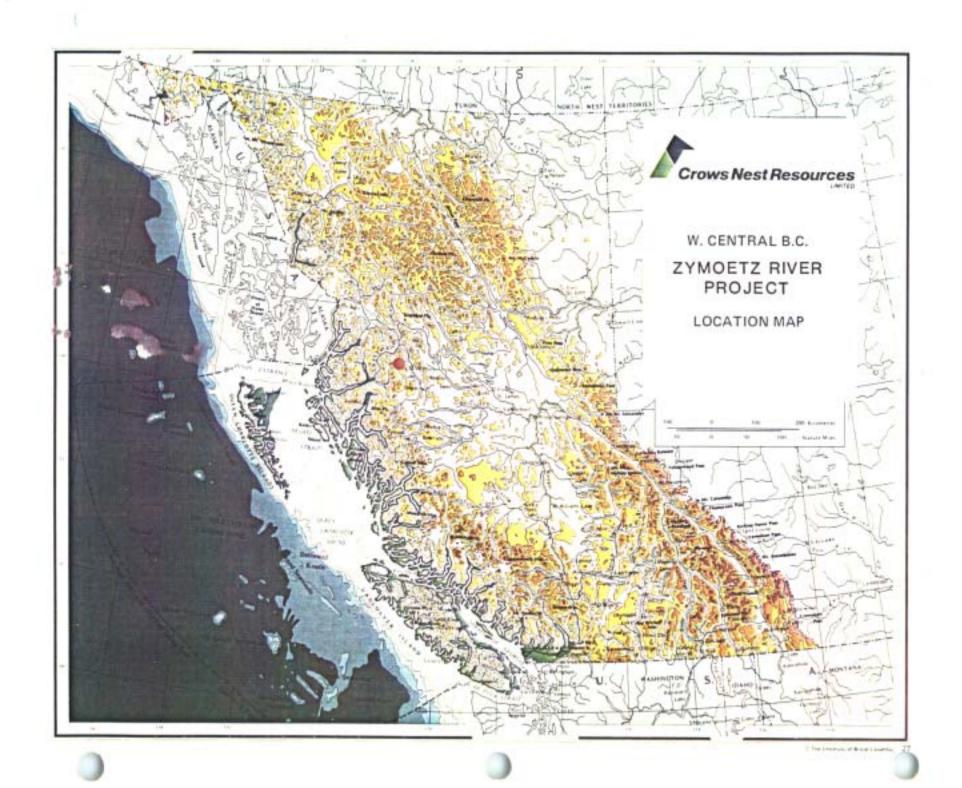
8.0 COAL QUALITY

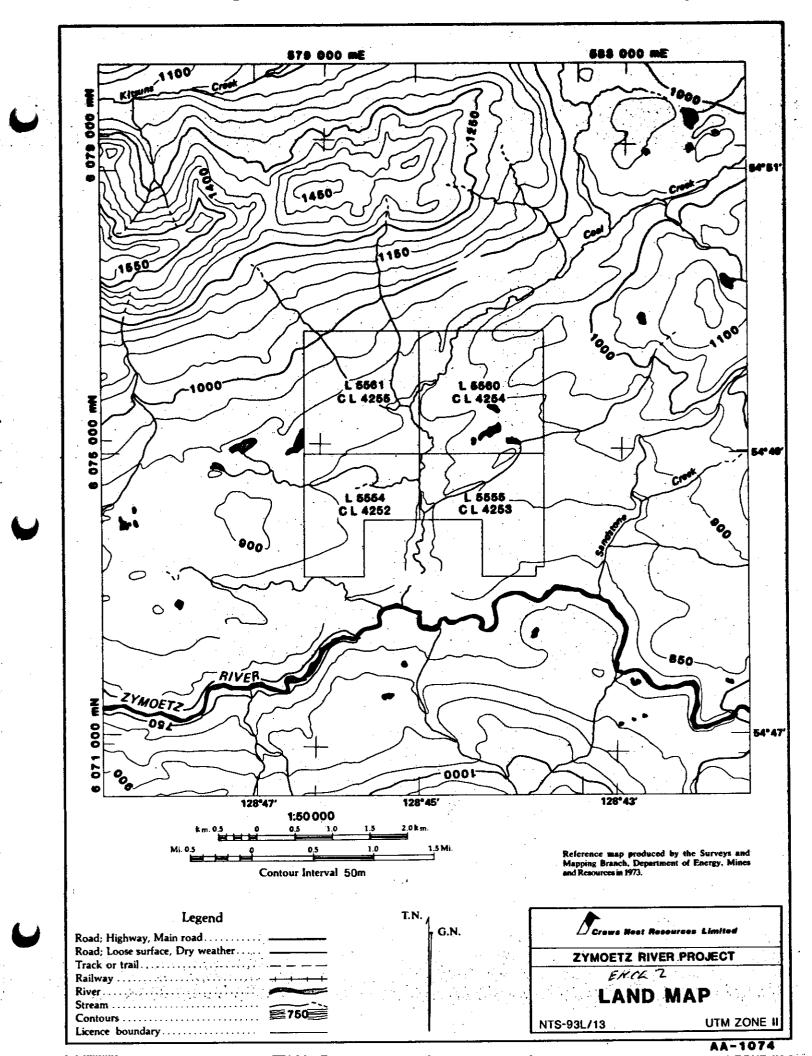
Coal core samples were obtained from 2 NQ3 diamond drill holes.

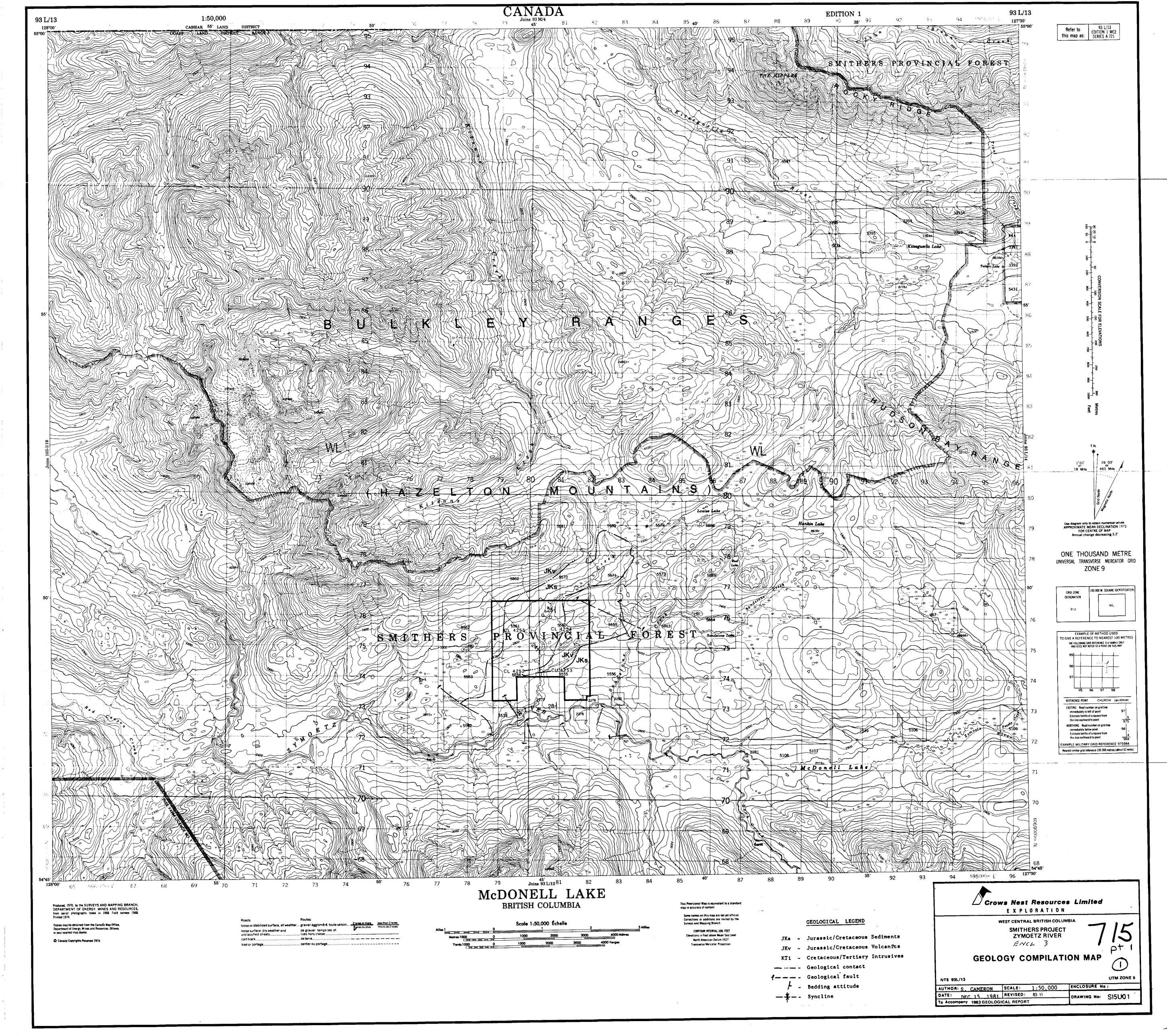
The Zymoetz coal is ranked as high volatile A Bituminous by ASTM standards. Incremental results for each hole can be found in Enclosure 8.

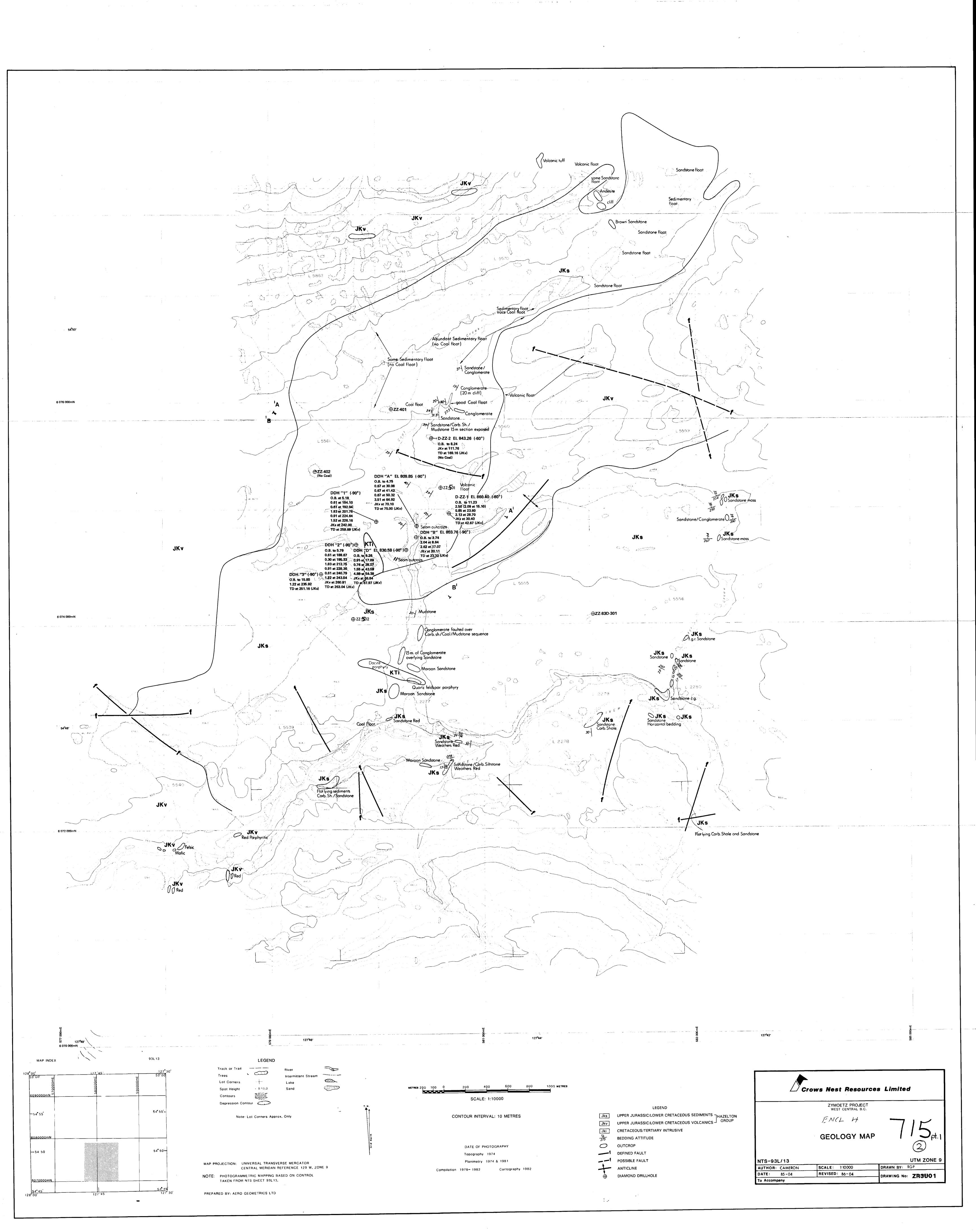
9.0 REFERENCES

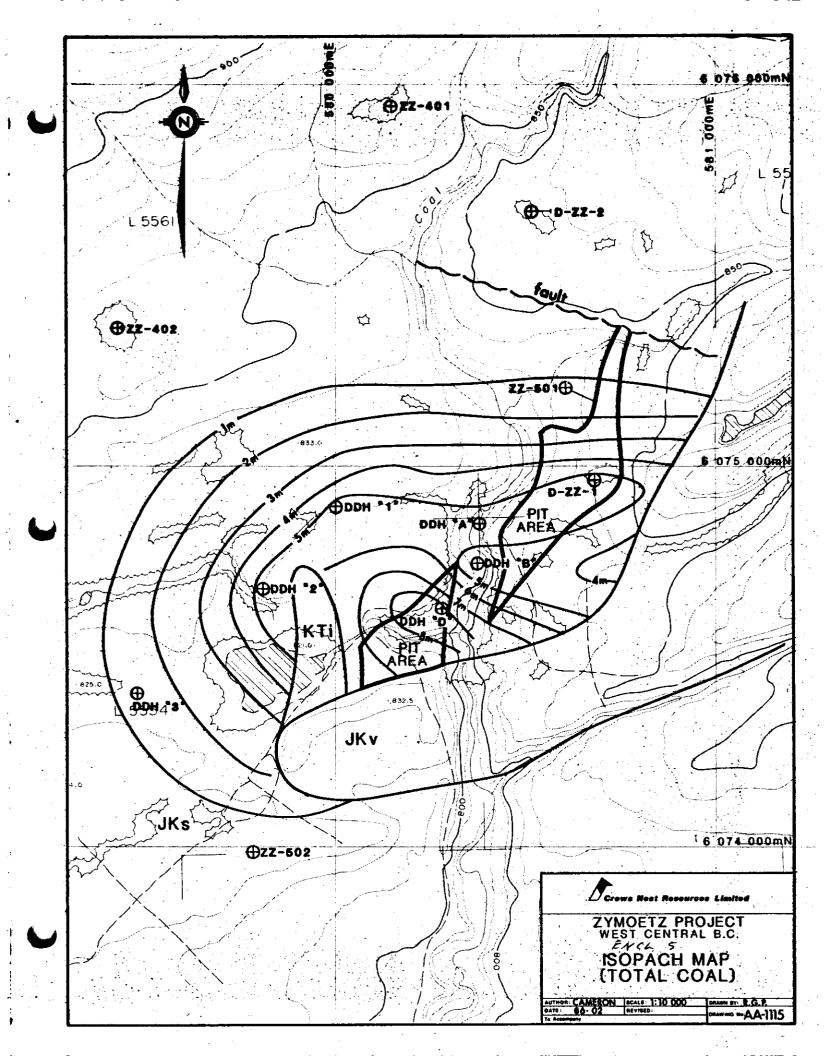
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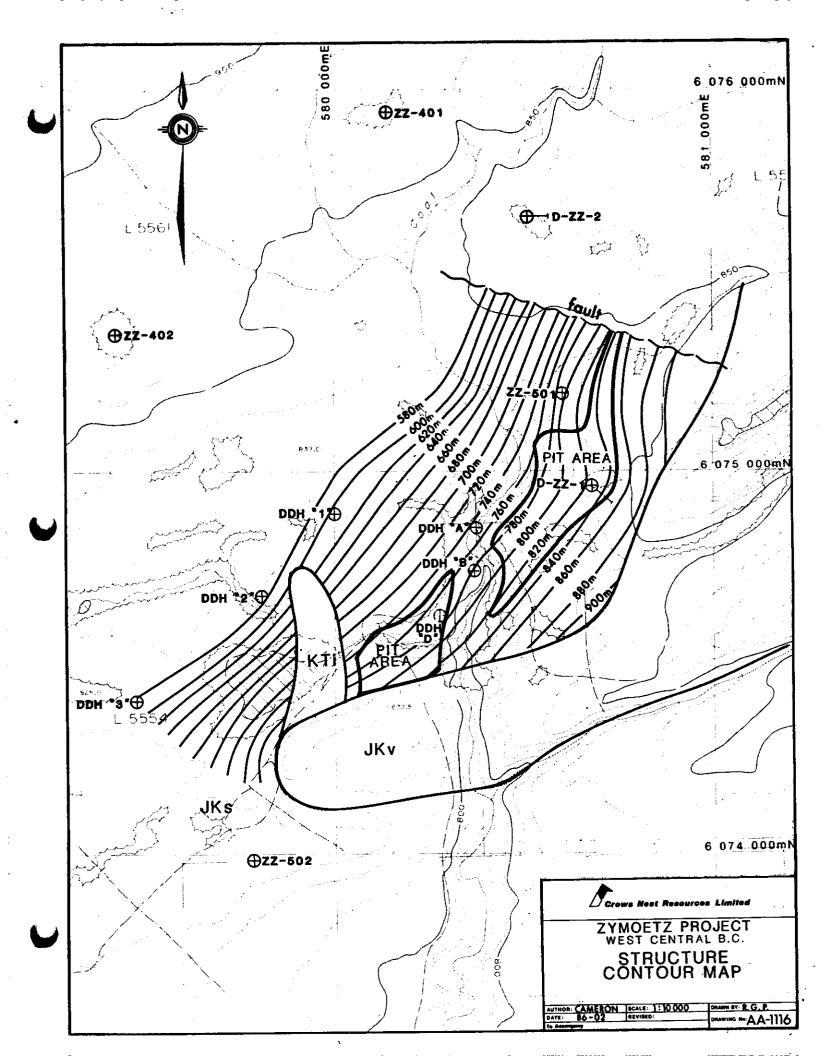


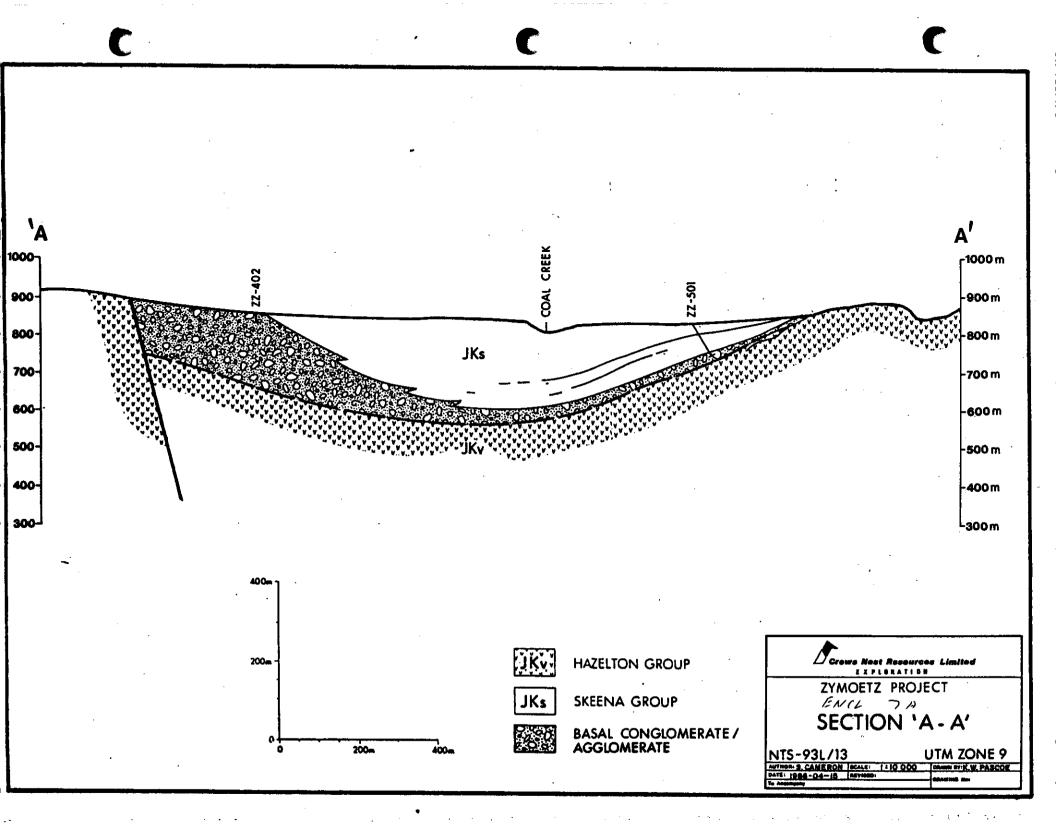


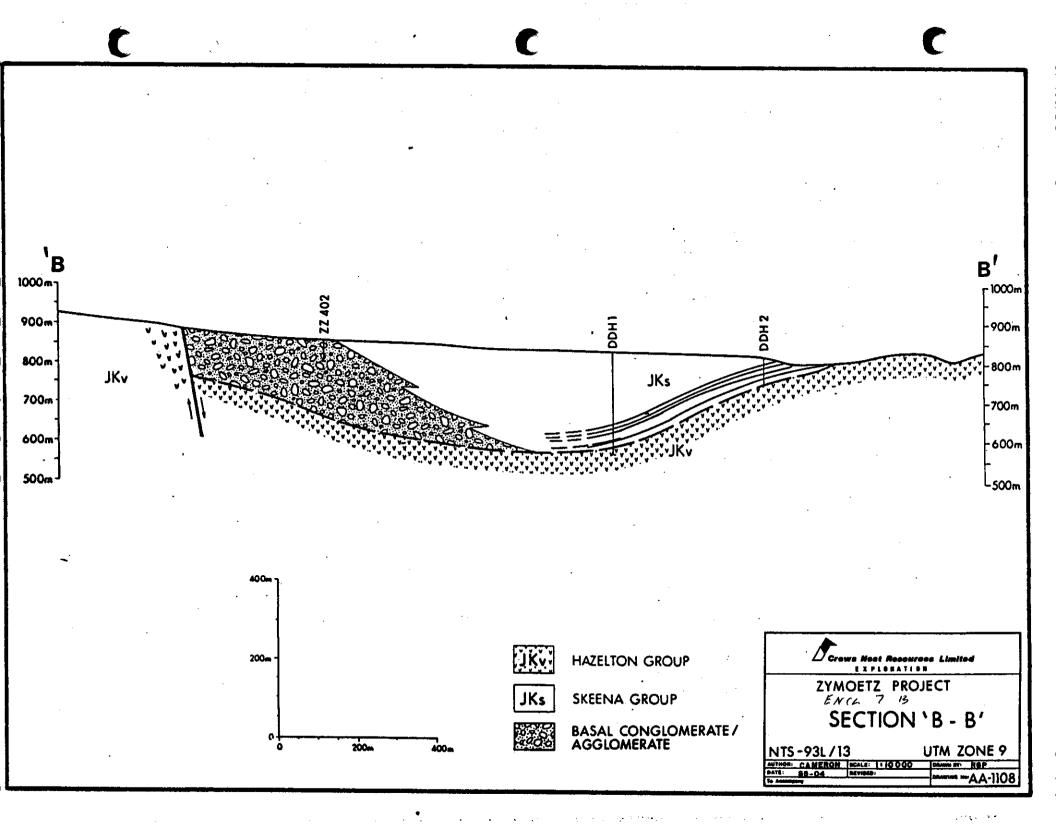












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PAGE 1

ZYMOETZ

DRILL HOLE # ZZ85D-501

LOG DATE 85/09/10 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE# REC %	MINOR LITHOLOGY	REMARKS (C.B.A. DE	PTH
.00	3.40	3.40	OB				O.B.		
3.40	14.80	11.40	SLST				INTERBOD WITH THIN BANDS OF SS1. LIGHT GREY	60	6.00
14.80	26.40	11.60	SS1				INTERBOD WITH SLST AND SS2. SLST IS LIGHT GREY. SS IS SAI	63 LT	18.00
							& PEPPER.	66	22.00
26.40	32.45	6.05	MDST				DARK GREY, FAIRLY MASSIVE, CARB NEAR BASE.		
32.45	33.65	5 1.20	COAL		1 65.00		BROKEN STICK		
33.65	42.70	9.05	CONG				SS MATRIX, VOLC PEBBLES UP TO 5 CM. IN DIAMETER.	σ	
42.70	55.80	13.10	MDST				BLACK CARB. OCC COALY SHALE BAND. IRST BANDS CONTAINING	71	45.00
							ABUNDANT Calcite viens	64	47.00
								62	52.50
55.80	70.40	0 14.60	552				SALT & PEPPER, CONTAINS THIN MOST STRINGERS AND RIP UP	55	60.00
							CLASTS, OCC THIN BANDS OF SLST		64.33
								59	67.00

ZYMOETZ

DRILL HOLE # ZZ85D-501

LOG DATE 85/09/10 EXAMINED BY S. CAMERON 85/09/10

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE# REC %	MINOR LITHOLOGY	REMARKS	C.B.A. DE	PTH
70.40	77.25	6.85	SS1			SLST	INTERBOD LIGHT GREY SS WITH DARK GREY SLST	н	
77.25	83.00	5.75	MDST			FAULT	DARK GREY, FAULT AT 81 MET	ERS.	
83.00	89.20	6.20	SS2				SALT & PEPPER	64	85.00
								58	89.00
89.20	89.65	. 45	BREC				DCC CHLORITE BAND		
89.65	92.60	2.95	VOLC				FINE GR. WEATHERED RED, VE SOFT.	RY	
92.60	105.76	13.16	VOLC				AGGL. GREEN COARSE GR MATR VOLC PEBBLES.	IX,	
							ALSO PEBBLES OF A FELSIC PORPHRY, MASSIVE.		

EXAMINED BY S. CAMERON

ZYMOETZ DRILL HOLE # ZZ85D-502

LOG DATE 85/09/10

CAMMINE	.	J. U								
TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC %	MINOR LITHOLOGY	REMARKS	C.B.A. DE	PTH
.00	29.00	29.00	SS							
29.00	35.60	6.60	MDST				SLST	INTERBEDDED DARK GREY MDST WITH LIGHT GREY SLST.	66	33.00
35.60	37.20	1.60	SS4					COARSE GR WITH OCC SMALL VO PEBBLES.	LC 64	36.00
37.20	38.90	1.70	SS1					LIGHT GREY WITH INTERBEDDED DARK GREY MDST.		
38.90	39.40	. 50	MDST					BLACK CARB INTERBEDDED WITH LIGHT GREY MDST.	60	39.00
39.40	40.00	.60	COAL		1	65.00				
40.00	45.45	5 5.45	SLST					GREY, INTERBEDDED WITH DARK GREY MDST	60	40.00
									60	43.00
45.45	48.60	3.15	SS1					LIGHT GREY, DCC BAND OF CON	IG 56	46.00
48.60	49.10	. 50	COAL			64.00	SHALEY			
49.10	51.10	2.00	SS1				SLST	INTERBEDDED, LIGHT GREY.		
51.10	51.38	. 28	SH		÷		CARB	BLACK		

PAGE 4

ZYMOETZ

DRILL HOLE # ZZ85D-502

LOG DATE 85/09/10 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE# REC %	MINOR LITHOLOGY	REMARKS	C.B.A. D	EPTH
51.38	59.05	7.63	SLST				THIN INTERBEDS OF CARB AND LIGHT GREY SLST.	MDST 54	53.00
								51	58.00
59.05	59.60	. 55	SH	,		CARB	BLACK	·	
59.60	60.10	. 50	SLST				A/A		
60.10	60.60	. 50	SH			CARB	BLACK		
60.60	64.85	4.25	SS1				LIGHT GREY, FINES UPWAR CONG BANDS NEAR BASE.	D. THIN 63	63.00
64.85	65.20	. 35	MDST				DARK GREY		
65.20	66.10	. 90	SLST				DARK GREY		
66.10	67.15	1.05	MDST				DARK GREY		
67.15	68.90	1.75	CONG				VOLC PEBBLES UP TO 4CM : DIAMETER.	IN	
68.90	69.47	. 57	MDST				GREY/RED.		

ZYMOETZ

DRILL HOLE # ZZ85D-502

LOG DATE 85/09/10 EXAMINED BY S. CAMERON

TOP	BASE THI	CKNESS	MAJOR S	SEAM	SAMPLE# REC %	MINOR LITHOLOGY	REMARKS	C.B.A. D	EPTH
69.47	71.72	2.25	SS1				DARK GREY TO RED, OCC CARB STRINGERS NEAR BASE OF UNIT		71.00
71.72	75.20	3.48	CONG				VOLC PEBBLES UP TO 8CM IN DIAMETER.		

					ritionous at
	ort on th	Sealing of drillhole	25.		
lńs	jection I	istrict # 9		Date of Report	Oec. 11/85
<u> </u>	₩ ≙ R[- Crows That K	Corners	Land District	Coast Range 5
Ctra	I ling Nur	ier Nts Max	sheet 93L/13	Licence Number	4254
		Drillhole. 2285			•
2.	Surface	elevation. 835 m	•		
3.	Type (Ve	tical, diamond, rotary	y, size etc. <u>60°</u>	Diamond And	Hole NO3
: .	Drilled	y: Name of Contracto	JT Thomas Du	amond Drilling	Ltd
			on Company Crows	1: 1	
5.	Date of	completion. Sept 7	/85	•	•
6.	Date of	Sealing Sept 7	/85		
7.	Sealed h	: Name of Contractor	J. T. Thomas D.	amond Drilling	, Ltd
			on Company Crows Ne		
8.	the	hole? No	oe, drill bits, core bar		
.		the drillhole sealed tructions? Yes	in the manner outlined	in the Chief Insp	pectors
	(b) If	io, give reasons and d	letails of variation.	·	
	-				
10.	(a) Was	the sealing effective	? Yes		
	-	ails of any tests carr			·
			•		
11.		y that the above drill ions of the Chief Insp	thole has been effective pector of Mines.	ely sealed in acco	ordance with the
	•	Itan Pama	n 21.31		• .
	Signatu	ion beologist			
	Date	lec 1/ 185	_		

Countersignature de

Designation

Date

<u>: </u>	<u>ett e</u>	n the Sealing of drillholes
Ins	;ecti	on District #9 Date of Report Dec 11/85
€ }:::	.penj	Crows Nest Resources Limited Land District Coast Range 5
		Number NTS Map Sheet 93L/13 Licence Number 4252
		er of Drillhole. Z285D-502
		ace elevation. 833m
		(Vertical, diamond, rotary, size etc. Vertical Diamond
4.	Dril	led by: Name of Contractor J.T. Thomas Diamond Drilling Utd.
		Name of Exploration Company Crows Nest Resources Limited
5.	Date	of completion. September 8/85
6.	Date	of Sealing September 8/85
7.	Seal	ed by: Name of Contractor J. T. Thomas Diamond Drilling Utol.
		Name of Exploration Company Crows Next Resources Cimited.
8.	(a)	Has any casing, drill pipe, drill bits, core barrel, etc. been left in the hole?
	(b)	If so, give details and location.
Je.	(a)	Was the drillhole sealed in the manner outlined in the Chief Inspectors Instructions? <u>Yes</u>
	(b)	If No, give reasons and details of variation.
10.	(a)	Was the sealing effective? Yes
	(b)	Details of any tests carried out.
11.	I ca	rtify that the above drillhole has been effectively sealed in accordance with the
		ructions of the Chief Inspector of Mines.
	_	ature_Slow Cameron
		gnation <u>Reologist</u>
		Mee 11/85
. .		enation Manyer
	Date	



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

APPLICATION TO EXTEND TERM OF LICENCE

(same)	<u> </u>	्रक्तिक १०००
	Calgory	Alberta TZP
	Valid FMC No.	
eraby apply to the Minister to extend the	term of Coel Licence(s) No(s). 42.57	2 , 4253 × 4254
	<u> </u>	
or a further period of one year.	.	
roperty name Zymaetz T		·
am allowing the following Coal Licence(s) No(s), to forfelt	<u></u>
have performed, or caused to be perform	ned, during the periodSept	ember 3 , 1985
September 13 1	9_BS_ work to the value of at least \$	61,809.45
in the location of coal licence(s) as follow		•
EGORY OF WORK		•
	Licence(s) No(s).	Apportioned Cost
Geological mapping		
Surveys: Geophysical		
Geochemical		
Other		· · · · · · · · · · · · · · · · · · ·
Road construction		
Surface work	4252 + 4254	1800-00
Underground work		
Drilling	4252 + 4254	46,772.50
Logging, sampling and testing	4252 ~ 4254	10,598.15
Reclamation		
Other work (specify)		3239.
Off-property costs	•	161,809.65
The work performed on the location(s) is	s detailed in the attached report entitle	d Zymoetz 1985
Geological Report	·.	
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April 9, 1986		21\H
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(FORMS AND REPORT TO BE SUBMITTED IN DUPLICATE)

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Licence(s) No.(s)						15	
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IDEACE WARM			Yes	~	No	Cost \$	
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ther* (specify) ontractor					war ha	K	
There is the core stored?				, , , , , , , , , , , , , , , , , , , 			· · · · · · · · · · · · · · · · · · ·
11010 10 410 000 200 001	***************************************					Total Cost \$.	46,172.50
OGGING, SAMPLING AND TES	PTIMO 1		•	G.	. No		
) I NVQ		100	_,	ن		
•	nples i-neutron			атр іс в У		Bulk sampi	es D
ther* (specify) Proxima	de analysis	<u> </u>	FSI		Ø.	Washability	, O
Carboni		Ö		raphic	Ö	Plasticity	
ther" (specify)		······································					- IN 50P.K
						Total Cost	\$ 10,59B·15
ECLAMATION			Yes		No		
etails						Total Cost	
The second of the second	• •	* * *		// h	,		
THER WORK (Specify details)	• ,		Yes		No		Cost
	·						
						Total Cost 1	
			Yes	o o	Ne	,	
PEF-PROPERTY COSTS				_			
1 _ 1	الملم الأ	والمراسط					27 30.00
	ration				•	and the second	3239 65 61 800 65
1 _ 1	ration	·		•	Tota	and the second	5239.65 61,809.65
1 _ 1	ration			• -	Tota	and the second	
1 _ 1	, 1586				Tota	and the second	
OFF-PROPERTY COSTS Details Report Prepar	, 1586	-	*****		Tota 13 13 Manace	Expenditures (

*A full explanation of other work is to be included

COPL QUALITY DATA
ENGLOSURE 10

Fert 2:

	S LAB			IES LTD.	COMPANY CROWSNEST RESO ATTENTION B. Ryan PROJECT Zymoetz			OURCES 1	TD.	FILE NO. DATE PAGE1	28042 October 24, 198 of 1		
SAMPLE NUMBER	SAMPLE TYPE	% REC	FLOAT	BASIS OF ANALYSIS	REC'D % H ₂ O	% Н ₂ О	% V.M.	% ASH	% F.C.	% S	Kcal/Kg	F.S.I	NOTES
ZZ-501-1 32.45-33.65	Raw Coal		Í	As Received Air Dried Dry Basis	7.21	1.45		12.46 13.23 13.42				3	
	1.60 Flt	-	89.95	Air Dried Dry Basis	-	.93 -	35.18 35.51	8.68 8.76	55.21 55.73	.60 .61		3	
							,						
ZZ-502-1 48-6-49.1	Raw Coal			As Received Air Dried Dry Basis	10.87	_ .93 _		50.91 56.59 57.12				0	
	1.60 Flt	•	24.42	Air Dried Dry Basis	-	.87	32.24 32.52	25.31 25.53	41.58 41.95	.73	5,767 5,818	2	
									•				

ER: ____CN 24019

ANALYST: D. Zolo 3

COPL QUALITY DATA
ENGLOSURE 10

Fert 2:

	S LAB			IES LTD.	COMPANY CROWSNEST RESO ATTENTION B. Ryan PROJECT Zymoetz			OURCES 1	TD.	FILE NO. DATE PAGE1	28042 October 24, 198 of 1		
SAMPLE NUMBER	SAMPLE TYPE	% REC	FLOAT	BASIS OF ANALYSIS	REC'D % H ₂ O	% Н ₂ О	% V.M.	% ASH	% F.C.	% S	Kcal/Kg	F.S.I	NOTES
ZZ-501-1 32.45-33.65	Raw Coal		Í	As Received Air Dried Dry Basis	7.21	1.45		12.46 13.23 13.42				3	
	1.60 Flt	-	89.95	Air Dried Dry Basis	-	.93 -	35.18 35.51	8.68 8.76	55.21 55.73	.60 .61		3	
							,						
ZZ-502-1 48-6-49.1	Raw Coal			As Received Air Dried Dry Basis	10.87	_ .93 _		50.91 56.59 57.12				0	
	1.60 Flt	•	24.42	Air Dried Dry Basis	-	.87	32.24 32.52	25.31 25.53	41.58 41.95	.73	5,767 5,818	2	
									•				

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