K- SHELL- CROWN FITH SOUTH THE (10) A.

S.C.R.L. / G.N.R.L.

REPORT ON GEODETIC SURVEY

CROWN MIN. SOUTH

Group #32

1978/1979



GEOLOGICAL BRANCH ASSESSMENT DEPORT

REPORT ON GEODETIC SURVEY

WORK DONE FROM JUNE 27, 1978 TO JANUARY 31, 1979

CROWN MTN. SOUTH

KOOTENAY LAND DISTRICT

B.C. COAL LICENCES 305, 306, 307, 309, 311, 313

GROUP #32

HELD BY SHELL CANADA RESOURCES LIMITED
OPERATED BY CROWS NEST RESOURCES LIMITED

NTS 82G/10 & 15

LAT. 49° 45' N; LONG. 114° 44' W

BY
SHELL CANADA RESOURCES LIMITED - SURVEYING DEPARTMENT
GENERAL SURVEY CONTRACTOR

NORTHWEST SURVEY CORPORATION (YUKON) LIMITED SUBCONTRACTOR ON PHOTOGRAMMETRIC MAPPING

1979-04-26

TABLE OF CONTENT

LAND MAP AND TENURE STANDING SCALE 1:50 000

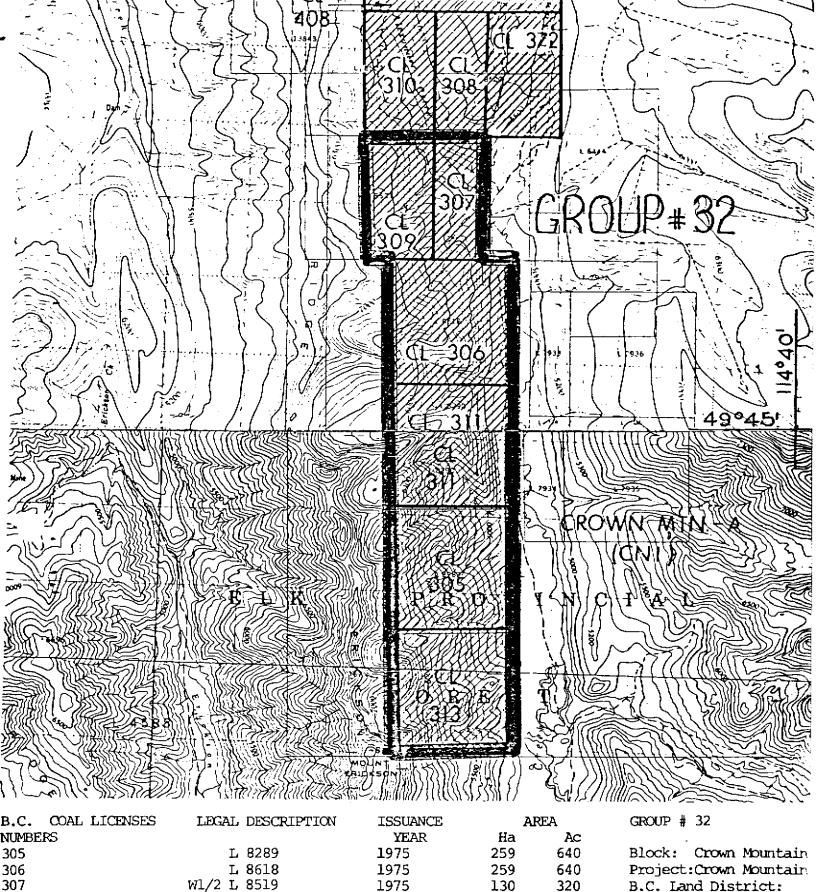
REPORTS ON GEODETIC SURVEY

SURVEY CONTROL FOR CROWS NEST RESOURCES LIMITED FERNIE - SPARWOOD, B.C.

PHOTOGRAMMETRIC MAPPING PROJECT (1978) FERNIE - SPARWOOD AREA, S.E. B.C.

TITLE PAGE, TABLE OF CONTENTS, COST ALLOCATIONS AND REFERENCE ONLY

APPLICATION TO EXTEND TERM OF LICENCE (COST STATEMENT) B.C. COAL LICENCES 305, 306, 307, 309, 311, 313 GROUP #32



B.C.	COAL LICENSES	TEPAT DESCRIE	TION ISSUANCE	F	IREA	GROUP # 32
NUMBE	RS		YEAR	Ha	Ac	-
305		L 8289	197 5	259	640	Block: Crown Mountain
306		L 8618	1975	259	640	Project:Crown Mountain
307		W1/2 L 8519	1975	130	320	B.C. Land District:
309		E1/2 L 8521	1975	130	320	Kootenay
311		L 8290	1975	259	640	Licencee: Shell Canada
31	313	UNSURVEYED	1975	259	640	Resources Ltd.
TOLAL	TOTAL	GROUP # 32		$1,\overline{296}$	$3,\overline{200}$	Operator: Crows Nest
			\$	\$/Ha	\$/Ac	Resources Ltd.
Work	Credit at Februa	ry 1, 1978	42, 9 44	33.14	\$/Ac 13.16	Anniversary Date:
1978	- 1979 work requ	irement	16,000	12.35	5.00	January 31
1978	- 1979 work done		12,144	9.37	3.80	-
Work	Credit February	1, 1979	39,088	30.16	12.22	NTS: 82 G/10 & 15
1979	- 1980 Rental Pa	id				MAP SCALE: 1:50,000

REPORTS ON GEODETIC SURVEY

WORK DONE FROM JUNE 27, 1978 TO JANUARY 31, 1979

SURVEY CONTROL FOR CROWS NEST RESOURCES LIMITED

FERNIE - SPARWOOD, BRITISH COLUMBIA

PHOTOGRAMMETRIC MAPPING PROJECT (1978)

FERNIE - SPARWOOD AREA - S.E. BRITISH COLUMBIA

COVERING ALL COAL LAND IN S.E. BRITISH COLUMBIA
HELD BY SHELL CANADA RESOURCES LIMITED
OPERATED BY CROWS NEST RESOURCES LIMITED

MORRISSEY FREEHOLD

B.C. COAL LICENCES

264 TO 313 INCL., 365 TO 373 INCL., 408, 412 TO 414 INCL.
490 TO 495 INCL., 588 TO 601, 1299 - 1302 INCL., 4080 TO 4089 INCL., 4090, 4092

KOOTENAY LAND DISTRICT, B.C.

NTS 82G AND 82J

LAT. 49° 05; TO 50° 10' N, LONG. 114° 30' TO 115° 10' W

BY
SHELL CANADA RESOURCES LIMITED - SURVEYING DEPARTMENT
GENERAL SURVEY CONTRACTOR

NORTHWEST SURVEY CORPORATION (YUKON) LIMITED SUBCONTRACTOR ON PHOTOGRAMMETRIC MAPPING

TABLE OF CONTENT

SURVEY CONTROL FOR CROWS NEST RESOURCES LIMITED FERNIE - SPARWOOD AREA, B.C.; SCRL 1979

PHOTOGRAMMETRIC MAPPING PROJECT (1978)
FERNIE - SPARWOOD AREA, S.E. B.C.; SCRL 1979
INCLUDING ATTACHMENTS

SCHEDULE A

SCRL ON BEHALF OF CNRL

REQUEST FOR PROPOSALS FOR AERIAL PHOTOGRAPHY, AEROTRIANGULATION
AND TOPOGRAPHIC MAPPING IN THE CROWSNEST PASS - FERNIE AREAS
OF BRITISH COLUMBIA
INCLUDING ATTACHMENTS
FIVE 1:50 000 MAPS OUTLINING AREAS OF CONCERN

SCHEDULE B
GENERAL SPECIFICATION FOR AERIAL PHOTOGRAPHY

SOUTHEASTERN B.C.
INDEX MAP
AERIAL PHOTOGRAPHS, GROUND CONTROL SURVEY, PHOTOGRAMMETRIC MAPS
SCALE 1:100 000

COST STATEMENT
AND ALLOCATIONS TO PROJECTS AND GROUPS OF LICENCES

CROWS NEST RESOURCES LIMITED - EXPLORATION SHELL CANADA RESOURCES LIMITED - SURVEYING

GROUND CONTROL SURVEY AND PHOTOGRAMMETRIC MAPPING SOUTHEASTERN BRITISH COLUMBIA

DISTRIBUTION OF AFE Z4670: UNDIVIDED COSTS TO PROJECTS AND GROUPS OF LICENCES ON THE BASIS OF HOLDING ACREAGES

*HOLDINGS/PROJEC	TSAFE_	ACREAGE		\$ COSTS
NORTH BLOCK=GROUP	"NA" 4853A	7,840	8.0	29,440
CENTRAL BLOCK NORT	H 4851J	10,264	10.5	38,640
HORESESHOE RIDGE	4851E	6, 532	6.7	24,656
LINE CREEK J.V.	4851D	1,854	1.9	6,992
(Central Block To (Group "CA") (Group "CB") (Group "CS")	tal)	(18,650) (6,088) (8,082) (4,480)	(19.4) (6.2) (8.6) (4.6)	(22,816)
CROWN MOUNTAIN TOT	AL 4851Z	6,317	6,. 5	23,920
(Group #31) (Group #32)		(3,117) (3,200)	(3.2) (3.3)	
CORBIN=GROUP #6	4851Q	1,760	1.8	6,629
(Coal Mountain) (Tent Mountain)		(640) (1,120)	(0.7) (1.1)	
MORRISSEY FREEHOLD	4851U	43,200	44.1	162,288
LODGEPOLE=GROUP #1	04 4851S	3,345	3.4	12,512
LILLYBURT	4851R	6,122	6.3	23,184
HARVEY CREEK TOTAL (Group #105 Renews (Remainder)	4851T mal)	7,307 2,992 4,315	7.5 (3.1) (4.4)	27,600 11,408 16,192
CABIN CREEK=Group	#106 4851V	3,200	3.3	12,144
TOTAL	<u>z4670</u>	97,741	100.0	368,000
*All B.C. Coal Lice	ences except Morr	= 39,556ha rissey Freehold		\$3.77/acre \$9.30/ha
1979-01-31	F. Martonhegyi Exploration	D. Poulsom Surveying		H. Hofer Finance Analyst

J. J. Crabb Manager - Exploration

REFERENCE

THESE REPORTS COVER IN ONE UNIT ALL B.C. COAL LICENCES IN SOUTH-EASTERN BRITISH COLUMBIA

HELD BY SHELL CANADA RESOURCES LIMITED OPERATED BY CROWS NEST RESOURCES LIMITED

TWO SETS WERE FILED WITH

ADMINISTRATOR FOR COAL MINISTRY OF ENERGY, MINES & PETROLEUM RESOURCES GOVERNMENT OF BRITISH COLUMBIA VICTORIA, B.C.

ON APRIL 30, 1979, TO WHOM FURTHER COPIES WILL BE SUPPLIED AT REQUEST.

CROWS NEST RESOURCES LIMITED



DEPARTMENT OF MINES AND PETROLEUM RESOURCES Coal Act (Sec. 19)

APPLICATION TO EXTEND TERM OF LICENCE

(N)	agont for_Shell_Cama	(Negal)
P.O. Box 100	P_Q_3ar_3	
Calgary, Alberta T2P 245	Calrary_A	lberta TZP ZHS
	Valid FMC No	10 347
hereby apply to the Minister to extend the term	of Coal Licences No(s).305	306, 307, 309
311, 313		
for a further period of one year.		
2. I have performed, or caused to be performed	during the period Februa	ry 1, 1978 to
January 30 19.7		
on the location of coal licences as follows:		
CATEGORY OF WORK		
CATEGORY OF WORK	License Nudal	Appartment Cont
Geological mapping		NTL
Surveys: Geophysical	· · · · · · · · · · · · · · · · · · ·	_NII.
Geochemical		NIL
Other Deodetic 30	5,307306,309,311,31 3	\$ 12,144
Road construction	_	NIL
Surface work		NIL
Underground work		NIL .
Drilling		NIL
Logging, sampling, and testing		NIL
• • • •		NIL
Reclamation		NIL
Other work (specify)		
3. I wish to apply \$ 12,144 of th	ais value of work on Coal Lic	ence(s)* 305 306, 307
309, 311, 313	·	
		on Coal Licence(s
A Budel on man and in Early at and the con-		
4. I wish to pay cash in lies of work in the am	nount of 3	
4. I wish to pay cath in lies of work in the am	ount of 5	
No(1)	alve of work to claim a refu	nd of cash in Box of work i
No(s)	alve of work to claim a refu	nd of each in Best of work it
No(s) 5. I wish to apply \$ of this with amount of \$ which was	value of work to claim a refu paid to extend the term of C	nd of each in Best of work it
No(s)	paid to extend the term of C from Mining Receipt No.	nd of each in Best of work is
No(s)	paid to extend the term of C	nd of each in Bee of work i
No(s) 5. I wish to apply \$ of this with amount of \$ which was to, 19. for prior payment of each in lieu of work is as 6. The work performed on the location(s) is determined.	raise of work to claim a refu paid to extend the term of C from . Mining Receipt No sached for adjustment. alled in the attached report of	nd of cash in Bee of work is coal Licence(s) No(s)
No(s) 5. I wish to apply \$	raive of work to claim a refu paid to extend the term of C from	nd of cash in Bes of work is coal Licence (s) No(s)
No(s) 5. I wish to apply \$ of this with amount of \$ which was to, 19. for prior payment of each in lieu of work is as 6. The work performed on the location(s) is determined.	paid to extend the term of C from Mining Receipt No suched for adjustment. alled in the attached report of Liphotogrammetric requirementaries and will be	nd of each in Bee of work is coal Licence(s) No(s) noticed
No(s) 5. I wish to apply \$	paid to extend the term of C from Mining Receipt No suched for adjustment. alled in the attached report of Liphotogrammetric requirementaries and will be	nd of cash in Best of work is coal Licence (6) No (8)
No(s) 5. I wish to apply \$	paid to extend the term of C from Mining Receipt No sacked for adjustment. alled in the anached report of photogrammetric report preparation and will be	nd of cash in Best of work is coal Licence (6) No (8)
No(s) 5. I wish to apply \$	paid to extend the term of C from Mining Receipt No. sacked for adjustment. saled in the anached report of the photogrammetric mapping preparation and will be	nd of each in Bes of work is coal Licence(s) No(s)
No(s) 5. I wish to apply \$	paid to extend the term of C from from Mining Receipt No sached for adjustment. alled in the attached report of hiphotogrammetric responses preparation and will be	nd of cash in Best of work is coal Licence (s) No(s)
No(s) 5. I wish to apply \$	paid to extend the term of C from Mining Receipt No. sacked for adjustment. saled in the anached report of the photogrammetric mapping preparation and will be	nd of cash in Best of work is coal Licence (6) No (8)
No(s) 5. I wish to apply \$	paid to extend the term of C from from Mining Receipt No sached for adjustment. alled in the attached report of highest organization and will be preparation and will be green at the sached report of the sached for adjustment.	nd of cash in Ben of work in coal Licence (s) No(s)

Work perferment.	Ja 📆	ו 🛮	
•		_	

The program of operations detailed besterning was coming on during the period from February 1, 1978
10 January 30 879 Total com are \$ 12,144 an average
of \$ 3.80 persons, or \$9.38 per bectage.
GFOLOGICAL MAPPING Year Series
Recommissance
Detail: Surface
Underground
Other (specify)
GEOPHYSICAL OR GEOCHEMICAL SHIPES TO NO E Cost \$ NIL
Method I =
OTHER SURVEYS YELD No Com SUTJEE
Gold Top-patic ferritic formed Other.
entrop series and buotos; was core reshams.
ROAD CONSTRUCTION YE FETT CHES MILL
Length: On Licenos. Acres (d'Ecnos).
SURFACE WORK You No Good III.
Trenching
Seam tracing
Croscotting
Orbor
UNDERGROUND WORK Yes See S. NIL.
Test adits: Number Accept Ingle Total footage
Other workings: Area Total footage
DRILLING Yes No X Cont. Miles William of Rate Total To
Core: Diamond Wireline
Rotary: Conventional
Reverse circulation
Other
Contractor Where one stored
LOGGING, SAMPLING, AND TESTING (Seek) For No (Cost \$ NIL
Lithology: Drill samples Core samples [] Ball-samples []
Logs: Gamma-Neutron Descrip Other [
Testing: Proc. analysis [FSI] Weshelding [
Carbenization Peroposite () Heavily Other (
OTHER WORK (specify details) NOVE Cost \$ NIL
Riports:
Reclamation work (Fermit No) Desired wash
Cost \$ NIL
OPERATIONS:
Work was supervised by Frank 15 molegyi Position Staff Ceologist
h this person a registered or Deceased Embraciant Empirest in British Columbia? Yes 🔃 No 😡
NoteWhere the Decreese intends to perfect, during the extended term of his Decrees, work not set
but in the plan of operations filed under seeins 15 (2) (c), a supplemental plan of operations is to be
enachod.
* 3 metabasan work property in arpartet peut dendard aqual themburgs.

VALUATION OF WORK: COST STATEMENT (Sec. 27, B.C. Reg. 436/75)

ON-PROPERTY COSTS: For period from February 1, 1978 to January 30 , 1979 N.A. I. OPERATOR'S FEES, SALARIES, AND WAGES: Avelage Number of Employees Y-MINIT Professional and technical Machine operators and support ... Minera Other Total operator's costs \$__NIL____ 2. CONTRACTORS AND CONSULTANTS: SCRL Survey Department Geodetic Ground Control Survey \$ 12,144 (including subcontractor: Photogrammetric Mapping Northwest Survey) Total contractor and consultant costs 5 12,144 3. EQUIPMENT AND INSTRUMENTS USED: Owned____ __ Rented Xeared From. Type Total equipment and instrument centals 5 NIL 4. FIELD CAMP COSTS: Food Fuel Other Total field camp costs 5 NIL 5. SAMPLING, ANALYSIS, AND TESTING: Totals, samplings, analysis, and testing \$_ & SUPPLIES AND MATERIALS COSTS: Process supplies _____ Operating and maintenance supplies Office and technical supplies Other supplies and materials _ Total, supplies and materials \$_ 7. TRANSPORTATION COSTS (Ground transportation details):

Airs	apport details:			
	Averals Type	O-mer	0	ener
				
			Total transportation co	sts \$NIL
A. S. REC	LAMATION WORK	K: '		
	<u>-</u>	·····		_ snil
. n 2234	VEL EVENNENTE	nre (1.	
A, 9. 11ca	VEL EXPENDITOR Number of Ferroms	RES (operator's costs only	Number of Trips	Amount
				
			Total travel expenditu	res \$ NIL
			Total or	rsts \$_12,144
		(Secs. 28 and 29,	B.C. Reg. 436/75)	
. Accept	APERTY CASTS.	Period from	to	
				A Province
(a)	Logistics and field :	support		5
		•		
(c)	Preparation of sepo	7ts		_
(d)	Supplies and service	a		
(e)	Mobilization and de	emobilization of equipmen	t	
(1)		·		
	(Jumine)			
				
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			· · · · · · · · · · · · · · · · · · ·	
				_
	Supporting Cost Sta	atements Attached	To	oral \$ NIL
	Supporting Cost Sta	atements Attached	Тс	
	Supporting Cost Sta	atements Attached	To	
	Supporting Cost Sta		Тс	
	Supporting Cost Sta			
	Supporting Cost Sta			
	Supporting Cost Sta			
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•	Supporting Cost Sta			
	Supporting Cost Sta			A====
	Supporting Cost Sta			A====
	Supporting Cost Sta		Total supporting or	A====
		SUM	Total supporting o	Assets \$_NIL
		SUM	Total supporting or	S_12,144
		SUM	Total supporting o	S_12,144
	Oo-property costs .	SUM	Total supporting or	S_12,144
Statemen	On-property costs -	SUM	Total supporting or	\$ 12,144 \$ NIL
	On-property costs -	SUM	Total supporting or MARY	\$ 12,144 \$ NIL

- -- . . .