82ESE143

NAME 01 BIBLIO

SUBJECT SD 18

SUB FILE No. 01

001307

MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

VICTORIA, BRITISH COLUMBIA

PROPERTY FILE

MINFILE NO.: 082ESE143

MINFILE

NAME(S):	SD 18 AND 20,RADAR 4			
STATUS:	Showing		MINING DIVISION:	Greenwood
N.T.S.:	082E01W			
LATITUDE:	49 07 10		UTM ZONE:	11
LONGITUDE:	118 23 50		UTM NORTHING:	5441454
ELEVATION	1160 Metres		UTM EASTING:	398046
COMMENTS:	Showing #1, Map #3 (Assessment Report 3172).			
LOCATION ACCURACY:	Within 500 M			
COMMODITIES:	Uranium			
SIGNIFICANT MINERALS:	Uraninite	Uranophane	Autunite	Carnotite
ASSOCIATED MINERALS:	Quartz	Biotite		
AGE OF MINERALIZATION:	Unknown			
DEPOSIT CHARACTER:	Disseminated			
DEPOSIT CLASS.:	Magmatic	Pegmatite		
DOMINANT HOST ROCK:	Metamorphic			

	STRATIGRAPHIC NAME	STRATIGRAPHIC AGE	ISOTOPIC AGE	DATING METHOD	MATERIAL DATED
FORMATION:	Grand Forks	Upper Proterozoic			
IGN./META:	Unknown	Tertiary			
LITHOLOGY:	Pegmatite				
	Biotite Gneiss				
	Biotite Schist				
	Quartz Monzonite				
	Diorite				
	Amphibolite				

TECTONIC BELT:	Omineca
TERRANE:	Plutonic Rocks
PHYSIOGRAPHIC REGION:	Okanagan Highland
METAMORPHIC TYPE:	Regional
GRADE:	Amphibolite

GEOLOGY:

The area is underlain by the Upper Proterozoic Grand Forks Group, a raised fault block of high grade metamorphic rocks which are part of the Shuswap Metamorphic Complex. The rocks consist of biotite, amphibole, and pyroxene schists and gneisses, interlayered with pegmatites and leucogranite, with minor quartzites and calcareous rocks. These rocks are cut by north trending quartz monzonite dykes and stocks and dykes and small stocks of biotite-hornblende diorite and quartz diorite with minor amphibolite and pyroxenite. Regional foliation of the gneisses strikes northwest and dips 20 to 50 degrees southwest.

Principal host rocks for the uranium mineralization are quartz-rich pegmatites which are interlayered with the biotite gneisses and schists. Uraninite is associated with biotite clots in the pegmatite and uranophane and autunite occur along fractures and joints in the

MINFILE NO.: 082ESE143
CONTINUED...

pegmatite and biotite gneiss. Distribution of the uranium is erratic within the pegmatites, which seldom exceed 2.0 metres in thickness. A grab sample assayed ~~0.32~~ 0.27 per cent ~~U3O8~~ (Assessment Report 3172) and a drillhole intersected ~~0.03~~ 0.025 per cent ~~U3O8~~ uranium over 4.6 metres (Assessment Report 7621). Uraninite associated with biotite-rich pegmatites within biotite schists and gneisses.

BIBLIOGRAPHY:

EMPR ASS RPT *3172, *5585, 5964, 6449, 6536, *7621
EMPR GEM 1970-432-433; 1971-374
EMPR EXPL 1975-11; 1976-18; 1977-12-13
GSC P 69-22
CIM BULL Aug. 1980, p. 100
GSC MAP 6-1957
GSC OF 551

DATE CODED: 850724 CODED BY: GSB FIELD CHECK: NO
DATE REVISED: 870305 REVISED BY: LDJ FIELD CHECK: NO

MINFILE NO.: 082ESE143

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

MINFILE

GEOLOGICAL SURVEY BRANCH

U43

MINFILE

IDENTIFICATION

MINFILE NO. 082ESE143 NATIONAL MINERAL INVENTORY NO. _____

NAMES SD 18 and 20
Radar 4

CLAIMS _____

OWNER _____

OPERATOR _____

STATUS [X] SHOWing [ ] PROSpect [ ] DEveloped PRospect [O] [U] PRODucer [O] [U] PAst PRoducer

LOCATION

NTS 082E01W MINING DIVISION GRWD

LATITUDE 49 ° 07 ' 10 " LONGITUDE 118 ° 23 ' 50 " ELEVATION 1160 metres

UTM ZONE _____ NORTHING _____ EASTING _____

LOCATION CERTAINTY [X] WITHIN 500 m [2] WITHIN 1 km [3] WITHIN 5 km

COMMENT ON IDENTITY Showing No. 1 Map #3 (ASS RPT 3172)

MINERAL OCCURRENCE

COMMODITIES UR _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
listed according to economic importance

RESERVES TYPE ___ TONNES _____ GRADES _____

OR BEST ASSAY DATA _____

COMMENTS _____

PRODUCTION YEARS _____ TONNES MINED _____

METALS RECOVERED _____

MINERALOGY ECONOMIC MINERALS URNN URNP ATNT CRNT _____

COMMENTS _____

GANGUE MINERALS QRTZ BOIT _____ _____ _____

COMMENTS _____

ALTERATION MINERALS _____ _____ _____ _____ _____ _____

COMMENTS _____

ALTERATION TYPE _____ _____

AGE OF MINERALIZATION *** ISOTOPIC AGE _____

DATING METHOD ___ _____ MATERIAL DATED _____

DEPOSIT TYPE
- [01] VEIN
- [02] STOCKWORK
- [03] PORPHYRY
- [04] PIPE
- [05] IGNEOUS
- [06] SKARN
- [X] PEGMATITE
- [08] STRATABOUND
- [09] STRATIFORM
- [10] CONCORDANT
- [11] PLACER
- [12] PRECIPITATE
- [X] DISSEMINATED
- [14] MASSIVE
- [15] UNKNOWN
- [16] UNCLASSIFIED

GENETIC TYPE
- [1] REPLACEMENT
- [X] MAGMATIC
- [3] VOLCANOGENIC
- [4] SEDIMENTARY
- [5] SYNGENETIC
- [6] EPIGENETIC
- [7] HYDROTHERMAL
- [8] RESIDUAL
- [9] UNKNOWN (UNCLASSIFIED)

[12] pegmatite

SHAPE OF DEPOSIT [1] REGULAR [2] TABULAR [3] CYLINDRICAL [4] BLADED [5] IRREGULAR

MODIFIER [1] FOLDED [2] FAULTED [3] FRACTURED [4] SHEARED [5] OTHER _____

DIMENSION _____ _____ _____

ATTITUDE _____ _____ [1] STRIKE/DIP [2] TREND/PLUNGE

COMMENT ON STRUCTURE _____

HOST ROCKS

A. DOMINANT ROCK TYPE: [1] SEDIMENTARY [3] VOLCANIC [5] METAPLUTONIC [X] METAMORPHIC [2] PLUTONIC [4] METASEDIMENTARY [6] METAVOLCANIC

B. SUPERGROUP ____ GROUP Grand Forks 138
FORMATION Grand Forks 138 MEMBER ____
AGE 410 ISOTOPIC AGE ____
DATING METHOD ____ BOIT GNSS MATERIAL DATED ____
ROCK TYPE PGMT BGNS BSCS ____ ____
LITHOLOGY ____ BIOTITE GNEISS BIOTITE SCHIST BOIT SCST

C. IGNEOUS/METAMORPHIC/OTHER 390
AGE 120 ISOTOPIC AGE ____
DATING METHOD ____ MATERIAL DATED ____
ROCK TYPE QZMZ DORT AMPB ____ ____
LITHOLOGY QRTZ MNZN AMPH

COMMENT ON HOST ROCK ____

GEOLOGICAL SETTING

TECTONIC BELT [ ] INsular [X] OMineca [ ] Coast Crystalline [ ] EAstern [ ] InterMontane
TERRANE CPC
PHYSIOGRAPHIC AREA OKHL
METAMORPHISM: TYPE [1] CONTACT [X] REGIONAL
RELATIONSHIP [1] PRE-MINERALIZATION [2] SYN-MINERALIZATION [3] POST-MINERALIZATION
GRADE [ ] HornFels [ ] BlueSchist [X] AMphibolite [ ] EClogite [ ] SubBituminous [ ] ZeoLite [ ] GreenSchist [ ] GranuLite [ ] LIgnite [ ] Low Vol. bituminous [ ] Med. Vol. bituminous [ ] Hi Vol. bituminous [ ] SemiAnthracite [ ] ANthracite

COMMENT ON GEOLOGICAL SETTING ____

CAPSULE GEOLOGY The area is underlain by the Upper Proterozoic Grand Forks Group, a raised fault block of high grade metamorphic rocks which are part of the Shuswap Metamorphic Complex. The rocks consist of biotite, amphibole, and pyroxene schists and gneisses, interlayered with pegmatites and leucogranite, with minor quartzites and calcareous rocks. These rocks are cut by north trending quartz monzonite dykes and stocks and dykes and small stocks of biotite-hornblende diorite and quartz diorite with minor amphibolite and pyroxenite. Regional foliation of the gneisses strikes northwest and dips 20 to 50 degrees southwest.

Principal host rocks for the uranium mineralization are quartz-rich pegmatites which are interlayered with the biotite gneisses and schists. Uraninite is associated with biotite clots in the pegmatites and uranophane and autunite occur along fractures and joints in the pegmatite and biotite gneiss. Distribution of the uranium is erratic within the pegmatites, which seldom exceed 2.0 metres in thickness. A grab sample assayed 0.32% U_3O_8 (ASS RPT 3172) and a drillhole intersected 0.03% U_3O_8 over 4.6 metres (ASS RPT 7621).

BIBLIOGRAPHY (place 'best' or most recent source first)

EMPR ASS RPT *3172, *5585, 5964, 6449, 6536, *7621
EMPR GEM 1970-432,433, 1971-374
EMPR EXPL 1975-11, 1976-18, 1977-12,13
GSC P 69-22
CIM BULL Aug 1980 p100

CODED BY LDJ initials FIELD CHECKED: YES [ ] NO [X] DATE CODED 1987 yr 03 mo 05 day
REVISED BY ____ initials FIELD CHECKED: YES [ ] NO [ ] DATE CODED ____ yr ____ mo ____ day

Uraninite associated with biotite-rich pegmatites within biotite schists and gneisses.

MINERAL DEPOSIT INVENTORY

Map No. 82E/SE-143

Property No. ____ Metal ☑ Industrial Mineral ☐ Placer ☐ Coal ☐ Lapidary ☐

Name: Current SD 18 Previous ____

C.G. and No. ____

Operator/Yr. ____

Claim prob. MIDNIGHT (Unit ?) Owner ____

Operator ____ Year 1975

Claim WENDY 16 & 18 Owner T. Schorn

Operator Chinook Construct^n. & Eng. Ltd. Year 1975

Claim SD 18 & 20 Owner B + H Prosp. ?/later Cronus Miner. Ltd

Operator B & H Prospecting (1970); Cronus Min. Ltd (1971) Year 1970

Location: N.T.S. 82E/1W Lat. ____ Long. ____ U.T.M. ____

M.D. Greenwood In park ____ E. & N. ☐ El. ____

Location plotted centre of showing Precision 1

Status: Producer ☐: Active ☐ Inactive ☐ L+ ☐ L ☐ M ☐ S ☐ S− ☐

Non-producer ☑: Pot. prod. ☐ Under exploration ☐ Prospect ☐ Occurrence ☑

Reserves: L+ ☐ L ☐ M ☐ S ☐ S− ☐ Tons ____ Grade ____

Est. potential: L+ ☐ L ☐ M ☐ S ☐ S− ☐ Grade ____

Development: Surface ____

Underground ____

Drilling ____

Surveys: Geol. ____ Geophys. '70, 1976 Geochem. 1976

References: M.M.A.R. ____

G.E.M. *1970-432, 1971-374, 1975-E11, 1976-E18, 1977-E12, 1978-E15

Dept. expl. forms 1975

Asses. rept.: ~~Geol.~~ 5585, 6434, 6449 ~~Geophys.~~ 3172, 5964, 6536 ~~Geochem.~~ 6986

Geological and maps ____

Recorded by [illegible] 7'71 Revised by ____ Lib. Res. Comp. ____

Summary description In pegmatite

Attitude of deposit: Strike ca. 350° Dip ____ Azimuth ____ Plunge ____

Size: Length ____ Width ____ Depth ____

Mineralogy: Major Uraninite

Minor ____

Assays: Major elements ____

Significant minor elements ____

Production: Tons ____ Grade: Au ____ Ag ____ Cu ____ Pb ____ Zn ____

Others ____

Remarks See #142

Product(s) U

Map No. 82E/SE-143

Property No. ____