82ESE144

NAME 01·BIBLIO

SUBJECT SD 37

SUB FILE No. 01

001308

MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

VICTORIA, BRITISH COLUMBIA

PROPERTY FILE

MINFILE

MINFILE NO.: 082ESE144

NAME(S):	SD 37		
STATUS:	Showing	MINING DIVISION:	Greenwood
N.T.S.:	082E01W		
LATITUDE:	49 06 30	UTM ZONE:	11
LONGITUDE:	118 23 05	UTM NORTHING:	5440203
ELEVATION	1040 Metres	UTM EASTING:	398935
COMMENTS:	Showing #4, Map #3 (Assessment Report 3172).		
LOCATION ACCURACY:	Within 500 M		
COMMODITIES:	Uranium		
SIGNIFICANT MINERALS:	Uraninite		
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	Lower Cretaceous			

LITHOLOGY:
Pegmatite
Biotite Gneiss
Biotite Schist
Quartz Monzonite

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. Radioactivity of small pegmatite lenses measured 1500 counts per second on a SRAT SPP2 scintillometre (background is 80-100

MINFILE NO.: 082ESE144
CONTINUED...

counts per second) (Assessment Report 5585).

BIBLIOGRAPHY:
EMPR ASS RPT *3172, 5585, 5964, 6392, 6536
EMPR GEM 1971-374
EMPR EXPL 1975-11; 1976-18; 1977-12,13
GSC P 69-22
CIM BULL Aug. 1980, p. 100

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

GSC MAP 6-1957
GSC OF 551

MINFILE NO.: 082ESE144

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

MINFILE

GEOLOGICAL SURVEY BRANCH

MINFILE

IDENTIFICATION

MINFILE NO. 082ESE144 NATIONAL MINERAL INVENTORY NO. _____

NAMES SD 37

CLAIMS _____

OWNER _____

OPERATOR _____

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

LOCATION

NTS 082E01W MINING DIVISION GRWD

LATITUDE 49 ° 06 ' 30 " LONGITUDE 118 ° 23 ' 05 " ELEVATION 1040 metres

UTM ZONE _____ NORTHING _____ EASTING _____

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

COMMENT ON IDENTITY Showing No. 4, 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

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 07 PEGMATITE, 08 STRATABOUND, 09 STRATIFORM, 10 CONCORDANT, 11 PLACER, 12 PRECIPITATE, X 13 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 · 2 PLUTONIC · 3 VOLCANIC · 4 METASEDIMENTARY · 5 METAPLUTONIC · 6 METAVOLCANIC · X METAMORPHIC

B. SUPERGROUP ______ **GROUP** 138

FORMATION 138 Grand Forks **MEMBER** ______

AGE 410 **ISOTOPIC AGE** ______

DATING METHOD ______ **MATERIAL DATED** ______

ROCK TYPE PGMT BGNS BSCS

LITHOLOGY BOIT GNSS BOIT SCST

C. IGNEOUS/METAMORPHIC/OTHER 390

AGE 217 **ISOTOPIC AGE** ______

DATING METHOD ______ **MATERIAL DATED** ______

ROCK TYPE QZMZ

LITHOLOGY QRTZ MNZN

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 · H. Vol. bituminous · SemiAnthracite · ANthracite

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.

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BIBLIOGRAPHY (place best or most recent source first)

EMPR ASS RPT 3172, 5585, 5964, 6392, 6536

EMPR GEM 1971-374

EMPR EXPL 1975-11, 1976-18, 1977-12, 13

GSC P 69-22

CIM BULL Aug 1980 p 100

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

MINERAL DEPOSIT INVENTORY

Map No. 82E/SE-144

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

Name: Current SD 37 Previous
C.G. and No.
Operator/Yr.

Claim prob. SNOW - Unit ? Owner
Operator Year 1975 -

Claim WENDY 28 Owner T. Schorn
Operator Chinook Construct.n & Eng. Ltd. Year 1975

Claim SD 37 Owner B+H Prosp.g (later Cronus Min. Ltd) Product(s) U
Operator B+H Prosp. (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 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.~~ 3172, 5585, 5964 ~~Geophys.~~ 6434, 6449, 6535 ~~Geochem.~~ 6536, 6986
Geological and maps

Recorded by GEPE 7'71 Revised by Lib. Res. Comp.

Summary description In pegmatite

Map No. 82E/SE-144

Attitude of deposit: Strike 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

Property No.

5M-271-1190 BRITISH COLUMBIA DEPARTMENT OF MINES AND PETROLEUM RESOURCES