

RUN DATE: 07/0/96
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MINFILE / DC
 MASTER REPORT

GEOLOGICAL SURVEY BRANCH - MINERAL RESOURCES DIVISION
 MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

PAGE: 5
 REPORT: RGENG100

REVISED 7 sub. to Victoria
 25 July 15/96

MINFILE NUMBER: 082FNM259

NATIONAL MINERAL INVENTORY:

NAME(S): BLU STARR, BLU STARR SAPPHIRE

881131

STATUS: Prospect
 NTM MAP: 082P12E
 LATITUDE: 49 32 54
 LONGITUDE: 117 38 53
 ELEVATION: 0503 Metres
 LOCATION ACCURACY: Within 500M

MINING DIVISION: Slocan
 UTM ZONE: 11
 NORTHING: 5480400
 EASTING: 453125

COMMENTS: Rocks exposed in a highway cut (Highway 6) and along the railway below the highway, 250 metres south of the confluence of Little Slocan and Slocan rivers, about 28 kilometres south of Slocan (Industrial Mineral File - Sketch map of outcrop locations).

COMMODITIES: Corundum

Gemstones

(Titanite, ruby, beryl, 2 Slocan "Japan" quartz, amethyst) + feldspar, mica &

MINERALS

SIGNIFICANT: Corundum
 COMMENTS: Sapphire.
 ASSOCIATED: Zircon
 ALTERATION: Zircon
 ALTERATION TYPE: Fenitic
 MINERALIZATION AGE: Unknown

Sphene
 Sphene

Amphibole
 Amphibole

DEPOSIT

CHARACTER: Disseminated
 CLASSIFICATION: Magmatic Industrial Min.
 TYPE: Gem corundum hosted by alkaline rocks
 DIMENSION: 250 x 100 Metres STRIKE/DIP:
 COMMENTS: Outcrops with corundum extend along a length of about 250 metres and vertically between 50 and 100 metres.

TREND/PLUNGE:

HOST ROCK

DOMINANT HOST ROCK: Metasedimentary

STRATIGRAPHIC AGE
 Unknown

GROUP

FORMATION

IGNEOUS/METAMORPHIC/OTHER
 Valhalla Complex

LITHOLOGY: Meta Sediment/Sedimentary Gneiss
 Leucocratic-Granitoid

GEOLOGICAL SETTING

TECTONIC BELT: Omineca
 TERRANE: Undivided Metamorphic Assembl. Plutonic Rocks
 METAMORPHIC TYPE: Regional RELATIONSHIP:

PHYSIOGRAPHIC AREA: Selkirk Mountains

GRADE:

CAPSULE GEOLOGY

Outcrops with corundum are exposed in a highway cut (Highway 6) and along the railway below the highway. The corundum-bearing outcrops extend over a length of about 250 metres, and vertically from the river bank up to the highway cut between 50 and 100 metres.

Hostrocks at the Blu Starr occurrence consist of metasedimentary gneisses, mainly syenitic or monzonitic in bulk composition, of the Valhalla Complex. They contain abundant crystals of corundum; in some coarser zones, the crystals are up to 1 to 2 centimetres. The association with zircon and sphene with amphibole zones suggest affinity to fenite/nepheline syenite complexes known from similar environments north of Revelstoke and in the Blue River area (D. Hora, personal communication, 1993).

The corundum crystals are extracted, shaped and polished and the resulting cabochons are marketed as untreated, natural "star sapphires", mostly of a translucent grey-blue to sky-blue colour (Industrial Mineral File - Geological Association of Canada Joint Annual Meeting 1993, Edmonton, Alberta - Field Trip Guidebook (A-7), page 32).

Anglo Swiss Industries Inc. has acquired the Blu Starr property and proposed to carry out detailed mapping and bulk sampling of its extensive land holdings. It will utilize its crushing, milling and laboratory facility located at its Kenville mine property (082FSW086), 30 kilometres by road from the Blu Starr deposit (Information Circular 1996-1, page 20).

Over 50,000 carats of rough sapphires have been extracted from a select high-grade showing (George Cross News Letter No. 36 (February 20), 1996).

BIBLIOGRAPHY

EMPR IND MIN FILE (Sketch map of outcrop location; excerpt from Field Trip Guidebook (A-7) May 1993, p. 32 - Geological Association of Canada Joint Annual Meeting 1993, Edmonton,

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BIBLIOGRAPHY

Alberta)
EMPR INF CIRC 1993-13, p. 20; 1994-1, p. 21; 1994-19, p. 16; 1995-1,
p. 16; 1995-9, p. 20; 1996-1, p. 20
EMPR OF 1994-1
GSC OF 481; 1195
GSC MEM 308
GSC BULL 129; 161
GSC MAP 3-1956
GCNL #36 (Feb.20), 1996

DATE CODED: 931026
DATE REVISED: 960606

CODED BY: DH
REVISED BY: LJ

FIELD CHECK: Y
FIELD CHECK: N

960715

TES

y

Note: Blu Moon occurrence (similar to Blue
Star), approx. 1 km to NW, on north side
of jct. of Little Stocan and Stocan rivers
(Lot 12299)