

RUN DATE: 07/18/90
 RUN TIME: 15:12:10

MINFILE / pc
 MASTER REPORT
 GEOLOGICAL SURVEY BRANCH - MINERAL RESOURCES DIVISION
 MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

PAGE: 1
 REPORT: RGEN4000

MINFILE NUMBER: 082ESE200

NATIONAL MINERAL INVENTORY: 82E2 Mg1

NAME(S): ROCK CREEK DOLOMITE, DOLO, MIGHTY WHITE DOLOMITE

STATUS: Producer
 NTS MAP: 082E02W
 LATITUDE: 49 01 13
 LONGITUDE: 118 57 57
 ELEVATION: 1003 Metres
 LOCATION ACCURACY: Within 500M
 COMMENTS: Location centered on quarry, 4.5 kilometres southeast of Rock Creek (National Topographic System Map 82E/02).

Open Pit

MINING DIVISION: Greenwood
 UTM ZONE: 11
 NORTHING: 5431350
 EASTING: 356275

COMMODITIES: Dolomite

MINERALS

SIGNIFICANT: Dolomite
 ASSOCIATED: Quartz Talc
 MINERALIZATION AGE: Paleozoic
 ISOTOPIIC AGE: DATING METHOD: Fossil MATERIAL DATED: Bryozoa/corals

DEPOSIT

CHARACTER: Stratiform Massive
 CLASSIFICATION: Sedimentary Precipitate
 DIMENSION: 0100 x 0100 Metres STRIKE/DIP: 157/80 TREND/PLUNGE:
 COMMENTS: Bedding in vicinity of quarry.

HOST ROCK

DOMINANT HOST ROCK: Sedimentary

| STRATIGRAPHIC AGE | GROUP | FORMATION | IGNEOUS/METAMORPHIC/OTHER |
|-------------------|-----------|---------------------|---------------------------|
| Paleozoic | Knob Hill | Undefined Formation | |

DATING METHOD: Fossil
 MATERIAL DATED: Bryozoa/corals

LITHOLOGY: Dolomite
 Hornblende Gneiss
 Amphibolite
 Talc Chlorite Schist

HOST ROCK COMMENTS: Fossils indicate Permian to Carboniferous age.

GEOLOGICAL SETTING

TECTONIC BELT: Omineca PHYSIOGRAPHIC AREA: Okanagan Highland
 TERRANE: Okanagan
 METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

RESERVES

ORE ZONE: QUARRY

CATEGORY: Measured Geological YEAR: 1972
 QUANTITY: 15400000 Tonnes
 COMMODITY Dolomite GRADE 100.0000 Per cent

COMMENTS: "Proven" reserves. Grade is in per cent.
 REFERENCE: Financial Post Survey of Mines 1972, page 214

CAPSULE GEOLOGY

A dolomite lens in altered sediments and volcanics of the Permo-Carboniferous Knob Hill Group outcrops over a 100 by 100 metre area along the top of a knoll on the southeast portion of Lot 446s, 4.5 kilometres south-southeast of the community of Rock Creek. The lens is embedded largely in hornblende gneiss (amphibolite). An irregular band of talc-chlorite schist lies along the hanging wall contact. Bedding strikes 157 to 180 degrees and dips 40 to 80 degrees east. A schistosity strikes 150 degrees and dips 30 to 50 degrees west.

The lens contains massive, fine to very fine grained, white

MINFILE NUMBER: 082ESE200

RUN DATE: 07/18/90
RUN TIME: 15:12:10

MINFILE / pc
MASTER REPORT
GEOLOGICAL SURVEY BRANCH - MINERAL RESOURCES DIVISION
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

PAGE: 2
REPORT: RGEN4000

CAPSULE GEOLOGY

dolomite with scattered grains, patches and veinlets of quartz and a trace of talc. A 2 to 10 metre thick band of gneiss lies within the deposit. Two samples of crushed dolomite taken from a stockpile averaged 30.73 per cent CaO, 18.16 per cent MgO, 6.55 per cent insolubles, 0.32 per cent R2O3, 0.135 per cent Fe2O3, 0.01 per cent MnO, 0.0025 per cent P2O5, 0.015 per cent SO3 and 44.04 per cent ignition loss (Geology, Exploration and Mining in B.C. 1971, p. 456). A sample of dolomite quarried in 1987 contained 30.90 per cent CaO, 19.30 per cent MgO, 5.90 per cent SiO2, 0.26 per cent Al2O3, 0.13 per cent Fe2O3, 0.02 per cent MnO, 0.05 per cent P2O5, 0.02 per cent TiO2, 0.10 per cent K2O, 0.02 per cent Na2O and 41 per cent ignition loss (P. Chaput, 1989, personal communication). The deposit was estimated in 1972 to contain 15.4 million tonnes of proven (measured geological) reserves and 9.0 million tonnes of probable (indicated) reserves (Financial Post Review of Mines 1972, page 214).

The property was first operated on an intermittent basis by New Dolomite Mines Ltd. between 1972 and 1977. Dolomite Mines Ltd. continued quarrying dolomite from 1978 to 1982. Mighty White Dolomite Ltd. currently operates the quarry, producing crushed dolomite for agricultural, landscaping and decorative purposes. Between 1972 and 1988 60,000 tonnes of dolomite were quarried.

BIBLIOGRAPHY

EMPR GEM 1970-411; *1971-456; 1972-586
EMPR EXPL 1978-285,286; 1983-XL1; 1985-A48
EMPR IND MIN FILE (*Report by Z.D. Hora, 1978)
GSC P 79-29, pp. 11,12
GSC MAP 6-1957; 10-1967; 1550A
GSC OF 481; 1969
FIN POST Survey of Mines 1972, p. 214
EMR MP CORPFILE (New Dolomite White Mining Ltd.)

DATE CODED: 850724
DATE REVISED: 890911

CODED BY: GSB
REVISED BY: PSF

FIELD CHECK: N
FIELD CHECK: N

MINFILE NUMBER: 082ESE200

not entered
so attached

MINFILE

NEW REVISION MODIFIED

IDENTIFICATION

MINFILE NO. 082ESE200

NAT'L MINERAL INV. NO. 82E2 Mg 1

CANMINDEX NO. _____

NAME(S) 1. DOLO
2. _____
3. _____
4. _____

STATUS: SHOWing PROSpect DEveloped PProspect U PRODucer U PAsst PProducer

LOCATION: DOLOMITE QUARRY

NTS MAP: 82E/2W

BC MAP: _____

MINING DIVISION: G RWD

UTM ZONE: _____ NORTHING: _____ EASTING: _____

LATITUDE: 49° 01' 20" LONGITUDE: 118° 58' 57.55"

ELEVATION: 1020 (metres)

LOCATION CERTAINTY: within 500 m within 1 km within 5 km

Comment on Identity: south of Meyer's Creek, 5.3 kilometres southeast of Rock Creek settlement.

MINERAL OCCURRENCE

COMMODITIES: DO MG WO TH

MINERALOGY: SIGNIFICANT Minerals: DOLOMITE TALC

Comment: ~~talc is specimen to yellow~~

ASSOCIATED Minerals: QUARTZ

Comment: _____

ALTERATION Minerals: _____

Comment: _____

ALTERATION Type: SKRN

- DEPOSIT CHARACTER**
- 01 Vein
 - 02 Stockwork
 - 03 Breccia
 - 04 Pipe
 - 05 Unconsolidated
 - 06 Podiform
 - 07 Layered
 - 08 Stratabound
 - 09 Stratiform
 - 10 Concordant
 - 11 Discordant
 - 12 Massive
 - 13 Disseminated
 - ** Unknown

- DEPOSIT CLASSIFICATION**
- 01 Replacement
 - 02 Magmatic
 - 03 Volcanogenic
 - 04 Sedimentary
 - 05 Syngenetic
 - 06 Epigenetic
 - 07 Hydrothermal
 - 08 Residual
 - 09 Porphyry
 - 10 Igneous-contact
 - 11 Skarn
 - 12 Pegmatite
 - 13 Placer
 - 14 Precipitate
 - 15 Exhalative
 - 16 Diatreme
 - 17 Epithermal
 - 18 Mesothermal
 - 19 Fossil Fuel
 - ** Unknown

AGE OF MINERALIZATION: 999. XXX ISOTOPIC AGE: _____

MATERIAL DATED: _____ DATING METHOD: _____

SHAPE OF DEPOSIT: 1 Regular 2 Tabular 3 Cylindrical 4 Bladed 5 Irregular

SHAPE MODIFIER: 1 Folded 2 Faulted 3 Fractured 4 Sheared 5 Other

DEPOSIT DIMENSION: _____ X _____ X _____ (metres)

ATTITUDE: STRIKE/DIP 150 40 TREND/PLUNGE _____

Comment: attitude of talc zone, bands 0.3-1.1 metres thick

DATE CODED: Y 1988 M 01 D 12 CODED BY _____ FIELD CHECKED YES NO
REVISED BY mm YES NO

MINFILE NO. 082ESE200

