

RUN DATE: 09/11/97  
RUN TIME: 13:44:45

MINFILE / pc  
MASTER REPORT  
GEOLOGICAL SURVEY BRANCH  
ENERGY AND MINERALS DIVISION

Jean  
884200

PAGE: 1  
REPORT: RGEN0100

MINFILE NUMBER: 093N 079

NATIONAL MINERAL INVENTORY: 093N2 Cu2

NAME(S): JEAN, JW

STATUS: Prospect

MINING DIVISION: Omineca

REGIONS:

NTS MAP: 093N02W

LATITUDE: 55 06 18 N

LONGITUDE: 124 57 16 W

ELEVATION: 1025 Metres

LOCATION ACCURACY: Within 500M

UTM ZONE: 10 (NAD 27)

NORTHING: 6108000

EASTING: 375300

COMMENTS: Area of percussion drilling on the JW claims (Assessment Report 5343, Map 2). This showing also includes the Jean occurrence (formerly 093N 083) which was deleted as an independent occurrence because no documented evidence of mineralization can be found. The property is located about 10 kilometres south of Tchentlo Lake.

COMMODITIES: Copper

Molybdenum

MINERALS

SIGNIFICANT: Chalcopyrite

Molybdenite

Bornite

ASSOCIATED: Quartz

Pyrite

ALTERATION: K-Feldspar

Malachite

Hematite

ALTERATION TYPE: Potassic

Oxidation

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein

Stockwork

CLASSIFICATION: Hydrothermal

Epigenetic

Porphyry

TYPE: Porphyry Cu ± Mo ± Au

HOST ROCK

DOMINANT HOST ROCK: Plutonic

STRATIGRAPHIC AGE

GROUP

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Upper Triassic

Takla

Witch Lake

Unnamed/Unknown Informal

Lower Cretaceous

ISOTOPIC AGE: 131 +/- 4 Ma

DATING METHOD: Potassium/Argon

MATERIAL DATED: Hornblende

LITHOLOGY:

Granodiorite

Quartz Diorite

Pyroxene Porphyry

Andesite

Syenite Dike

Plagioclase Syenite Porphyry Dike

Aplitic Syenite Dike

Granite Dike

Syenite

HOST ROCK COMMENTS: The isotopic date is from J.A Garnett (Bulletin 70).

GEOLOGICAL SETTING

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Nechako Lowland

TERRANE: Quesnel

Plutonic Rocks

INVENTORY

ORE ZONE: DRILLHOLE

CATEGORY: Assay/analysis

YEAR: 1995

SAMPLE TYPE: Drill Core

COMMODITY

GRADE

Copper

0.5620 Per cent

COMMENTS: Over 35.7 metres.

REFERENCE: Explore B.C. Program 95/96 - M26.

CAPSULE GEOLOGY

The JW (Jean) area is underlain by a mainly granodiorite-quartz diorite stock (the Jean Marie stock) which has intruded rocks of the Middle Triassic to Lower Jurassic Takla Group. Mineralized zones occur along the contact of the stock with dark grey aphanitic andesites and pyroxene porphyries, probably of the Upper Triassic Witch Lake Formation (Takla Group). A sample of the granodiorite yield two potassium/argon dates: 1) 136 +/- 4 Ma (biotite) and; 2) 131 +/- 4 Ma (hornblende) (Bulletin 70, page 63). These Early Cretaceous intrusive rocks are cut by numerous dikes ranging in composition from plagioclase syenite porphyry through aplitic syenite to red granite.

Copper and molybdenum are reported to occur in three zones on the JW and Jean claims. The three zones are reported to grade from

MINFILE NUMBER: 093N 079

CAPSULE GEOLOGY

0.3 to 0.4 per cent copper equivalent (Canadian Institute of Mining and Metallurgy, Volume 15, Table 1, Deposit No. 98). The zones are 150 by 500 metres to 260 by 800 metres in area.

Chalcopyrite and molybdenite with hematite occur along potash feldspathized fractures in granodiorite and quartz diorite. Chalcopyrite is reported to occur as replacements of hornblende in syenite dikes, and also along with pyrite in quartz veins and fractures cutting granodiorite and syenites. Malachite is common within fault zones along which granite and syenite dikes have cut the main intrusion and the volcanic rocks. The volcanic rocks exhibit blocky fracturing generally more pervasive than the fracture density in the crosscutting intrusive rocks, and chalcopyrite is locally significant along hairline fractures and smeared along small faults in the andesites within the altered contact zone. Bornite also occurs on the property.

The property was first staked in 1969 by the NBC syndicate. During the next several years numerous geochemical and geophysical surveys were conducted and over 4000 metres of diamond and percussion drilling were completed.

Work done in 1995 by International Focus Resources Inc., with support from the Explore B.C. Program, included 27 kilometres of grid lines, 29.4 kilometres of IP survey and 838.4 metres of diamond drilling in 5 holes. The IP survey defined a 4 by 2 kilometre anomaly that warrants drill testing, while the diamond drilling significantly upgraded copper values from earlier percussion drilling. The best hole was 95-2 with 28.2 metres grading 0.61 per cent copper and 35.7 metres grading 0.562 per cent copper in the previously drilled B zone (Explore B.C. Program 95/96 - M26).

BIBLIOGRAPHY

- EMPR ASS RPT 2241, 2242, 2626, 3899, 4774, 5343, 5590, 5633, 5737, 6332, 6948, 7530, 9320, 11572, 20333
- EMPR GEM 1970-178; 1971-1981; 1972-436; 1973-365; \*1974-275
- EMPR EXPL 1975-E150; \*1977-E201; 1978-E227; 1979-234
- EMPR BULL \*70, pp. 62
- EMPR FIELDWORK 1990, pp. 89-110; 1991, pp. 103-118
- EMPR OF 1991-3; 1992-4
- EMPR Explore B.C. Program 95/96 - M26
- GSC MEM 252
- GSC P 41-5; 42-2; 45-9
- GSC MAP 876A; 907A; 971A; 1424A
- GSC OF 2842
- CIM Special Vol. 15, Table 1, # 98; BULL VOL 67, No. 749, 1974-101

DATE CODED: 850724  
DATE REVISED: 961029

CODED BY: GSB  
REVISED BY: GJP

FIELD CHECK: N  
FIELD CHECK: N

DRILLING  
190-'75 = 5013m (51)  
Explore Bc '95 = 838m (51)  

---

Total = 5851m in 60 holes

RUN DATE: 88/08/12  
RUN TIME: 01:11:21

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

PAGE: 1,649

MINFILE NO.: 093N 079

NATIONAL MINERAL INVENTORY NO.: 93N2 CU2

NAME(S): JW (JEAN)

MINING DIVISION: Omineca

STATUS: Showing  
N.T.S.: 093N02W  
LATITUDE: 55 05 18  
LONGITUDE: 124 54 12  
ELEVATION: 1300 Metres

UTM ZONE: 10  
UTM NORTHING: 6106060  
UTM EASTING: 378517

COMMENTS: SEE ALSO 093N 083(JEAN)  
LOCATION ACCURACY: Within 1 KM

COMMODITIES: Copper Molybdenum Iron  
SIGNIFICANT MINERALS: Chalcopyrite Molybdenite  
AGE OF MINERALIZATION: Unknown  
DEPOSIT CHARACTER: Unknown  
DEPOSIT CLASS.: Unknown

DOMINANT HOST ROCK:

GEOLOGY: CHALCOPYRITE & MOLYBDENITE WITH HEMATITE OCCUR ALONG POTASH FELDSPATHIZED FRACTURES IN MIDDLE JURASSIC DIORITE & QUARTZ DIORITE A GREY, MEDIUM-GRAINED GRANODIORITE IS IN CONTACT WITH ASPHANITIC ANDESITES AND PYROXENE PORPHYRIES OF THE TAKLA GP. THE CONTACT IS PYRITIZED WITH LOCAL GARNET-EPIDOTE SKARN. CHALCOPYRITE, MOLYBDENITE, AND HEMATITE OCCUR ON ORANGE-BLEACHED FRACTURES. CHALCOPYRITE OCCUR AS HORNBLLENDE REPLACEMENTS IN SYENITE DYKES, WITH PYRITE IN QUARTZ VEINS AND ON FRACTURES

DRILLING

Yr.	#	Am (m)	Type
190	2	467	ddh
171	10	3,025	ddh
174	40	10,495	pdh
175	6	2,460	ddh
TOTALS	58	16,447	ddh + pdh

(5013m)

BIBLIOGRAPHY: EMPR GEM 1977-E201 ✓  
EMPR ASS RPT 6948 ✓  
EMPR GEM 1970-178, 1971-198, 1972-436, 1973-365, 1974-275, 1975-E150 ✓  
EMPR ASS RPT 3899, 5343, 5590, 5633, 5737, 6332 ✓  
CIM BULL VOL 67 NO 749, 1974-101 ✓

DATE CODED: 850724  
DATE REVISED:

CODED BY: GSB FIELD CHECK: NO  
REVISED BY: FIELD CHECK:

MINFILE NO.: 093N 079