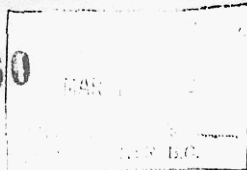


001260



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ACTION	
FILE NO:	

RAM EXPLORATIONS LTD.

PROSPECTING REPORT

JOSH CLAIM GROUP

BURNT BASIN JOINT VENTURE

GREENWOOD MINING DIVISION

SOUTHEASTERN, B.C.

Latitude = 49° 11'

Longitude = 118° 08'

NTS = 82E1E

Mineral Claims

- Ajax Fr., No. 4270; Arlington, No. 4268; Ennismore, No. 4269;
- Motherlode, No. 4270; Motherlode Fr., No. 4271; Daly, No. 4271;
- Burnt Basin, No. 4272; Aldeen, No. 4273; Kittie, No. 4274;
- Jennie Lind Fr., No. 4275; Tunnel, No. 4276; Eva Bell, No. 4277;
- Golden Age, No. 4445; Halifax, No. 4446; Hastings, No. 4213;
- Josh #1 Fr., No. 4776; Josh #2 Fr., No. 4777; Josh #3 Fr., No. 4778;
- Josh #4 Fr., No. 4779; Josh #5 Fr., # 1780; Josh, No. 4775

Owner: West Rim Resources Inc.

Operator: Sumatra Resources Inc.

Date Submitted: March 10, 1989
Reported By: C. von Einsiedel, B.Sc.

GEOLOGICAL BRANCH
PROSPECTING REPORT

18560

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 89.12.14

ASSESSMENT REPORT 18560

MINING DIVISION: Greenwood

PROPERTY: Halifax
LOCATION: LAT 49 11 00 LONG 118 08 00
UTM 11 5448235 417407
NTS 082E01E
CLAIM(S): Halifax(L.3042)
OPERATOR(S): Sumatra Res.
AUTHOR(S): Von Einsiedel, C.A.
REPORT YEAR: 1989, 26 Pages
COMMODITIES
SEARCHED FOR: Lead, Zinc, Silver
KEYWORDS: Paleozoic, Roof Pendant, Limestone, Mt. Roberts Formation, Galena
Sphalerite

WORK
DONE: Prospecting
PROS 0.1 ha

RELATED
REPORTS: 17046
MINFILE: 082ESE099

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1.1 Summary

The Burnt Basin Property consists of 15 Reverted Crown Grants and six located claims which cover an area equivalent to roughly 5 square kilometers. The project area consists of a moderate relief plateau (at elevations of between 1,200 and 1,600 meters) accessible by a network of 4 x 4 roads from the No. 3 Highway (forms the eastern boundary at the property).

Government Geological maps show that the claims are underlain by a west-northwest striking sequence of folded metasediments (mainly limestones and argillites) and metavolcanics (tuffs, greenstones) belonging to the Paleozoic Aged Mt. Roberts Formation. More recent felsic intrusive rocks belonging to the Nelson and Coryell Batholiths are exposed to the north and south of the claim area.

Little detailed geological information is available, however extensive prospecting and surficial work (circa 1965 to present) has identified several gold, silver and base metal occurrences. These are subdivided into two broad categories including: narrow gold bearing, quartz veins (typified by the Motherlode Prospect in the northwestern part of the claim area); and, skarn or replacement type (possible exhalative origin) silver-lead-zinc occurrences containing variable gold and copper values. The latter type of mineralization is the most widespread and occurs as irregular replacement zones along bedding planes within interbedded limestones and argillites, often along the margins of sills, dykes or tuffaceous units.

Geochemical surveys, geophysical surveys, cat trenching and short hole drill testing by various previous operators (Christina Lake Mines, 1965; Dalex Mines, 1968; Donna Mines, 1972-75; Paulson Mines, 1977; Granges Exploration, 1979; and Westrim Resources, 1986-87) has identified a series of the replacement type occurrences in the southern part of the claim area. These occurrences include (from east to west) the Production and Northwest Zones on the Eva Bell Claim, the Halifax Zone and the Ennismore Zone and together form a belt roughly 1,500 meters long.

Trench sampling of the Eva Bell-Northwest Zone (Dalex Mines, 1968) returned grades of up to: 8.42 oz/ton silver, 2.28% copper, 1.52% lead and 2.30% zinc across a sample width of 7.0 meters. Select samples collected from this zone assayed up to: 23.0 oz/ton silver, 12.20% copper, 0.04% lead and 9.10% zinc.

Bulk samples shipped from the Eva Bell-Production Zone (Donna Mines, circa 1972) indicate an average grade of: 0.017 oz/ton gold, 6.50 oz/ton silver, 7.8% lead and 16.50% zinc. In 1972 Donna Mines completed two short holes (DDH 72-04 and 05) to test the down dip extent of this zone and reported a 5.2 meter true width of mineralization grading 4.0 oz/ton silver, 5.40% lead and 6.80% zinc followed by a similar width of lower grade mineralization.

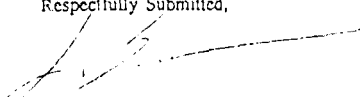
Trench sampling of the Halifax zone (Dalex Mines 1968) returned a grade of 3.2 oz/ton silver, 0.20% copper, 7.50% lead and 12.70% zinc across a 1.9 meter wide, steeply dipping mineralized zone.

Later sampling by Christopher, 1986 confirmed these results however channel sample assays were somewhat lower than those reported by Dalex Mines Ltd. A sample across 3 meters assayed 0.50 oz/ton silver, 1.87% zinc and 0.56% lead.

The objective of the 1988 work program was to determine if the mineralization exposed in the Halifax Zone is in fact related to the mineralization developed at the Eva Bell Production Zone. To accomplish this objective the author cleaned out and mapped the Halifax trench and collected several samples for detailed petrographic and mineralogical study.

This report summarizes technical data concerning the Halifax Zone (for additional details see Magrum and von Einsiedel, 1988) and includes detailed descriptions of samples collected from exposed mineralization.

Respectfully Submitted,


C. A. von Einsiedel, B.Sc.
Geologist



Renwick Cr.



LOCATION MAP

Paulson Cr.

693(3)
M.A.S.

SAH
744(6)
M.A.S.

DOUGLAS

Cr.

JOY 2

L 14563
C.O.

L 14565
C.O.

L 14566
C.O.

L 14567
C.O.

L 14568
C.O.

L 14569
C.O.

L 14570
C.O.

L 14571
C.O.

L 14572
C.O.

L 14573
C.O.

L 14574
C.O.

L 14575
C.O.

L 14576
C.O.

L 14577
C.O.

L 14578
C.O.

L 14579
C.O.

L 14580
C.O.

L 14581
C.O.

L 14582
C.O.

L 14583
C.O.

L 14584
C.O.

L 14585
C.O.

L 14586
C.O.

L 14587
C.O.

L 14588
C.O.

L 14589
C.O.

L 14590
C.O.

L 14591
C.O.

L 14592
C.O.

L 14593
C.O.

L 14594
C.O.

L 14595
C.O.

GOPHER GORPHER
3 C.O. M.A.S.
81/3(2) 81/4(2)

ALSO
CALL 4

733(6)

JOY 4

698(3)

ALSO
CALL 3

732(6)

JOY 3

731(6)

JOY 1

730(6)

JOY 5

729(6)

JOY 6

728(6)

JOY 7

727(6)

JOY 8

726(6)

JOY 9

725(6)

JOY 10

724(6)

JOY 11

723(6)

JOY 12

722(6)

JOY 13

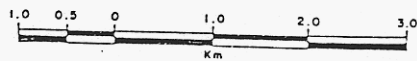
721(6)

JOY 14

720(6)

GOPHER GORPHER
3 C.O. M.A.S.
81/3(2) 81/4(2)

10015
Cr.



SUMATRA RESOURCES INC.
- BURNT BASIN JOINT VENTURE -
GREENWOOD MINING DIVISION - BRITISH COLUMBIA

LOCATION & CLAIM MAP

RAM EXPLORATIONS LTD.
VANCOUVER, B.C.

DWN. BY: T.M.	FIG. No.
CHK. BY:	1
DATE: MAY, 1968	

411(102)
Cr.

JOSH
4775(12)
M.A.S.
9122(82)

JOSH
4777(12)
M.A.S.
9124(82)

McRAE 2
4142(102)
M.A.S.

McRAE 3
4149(102)
M.A.S.

MOLLIE
GIBSON
1985
4725(102)
M.A.S.

BURNT BASIN
PROPERTY

Corvill

RAILWAY

Creek

2.1 Property Location, Access, Ownership

The Burnt Basin Claim Group is situated approximately 13 kilometres northeast of Christina Lake, roughly 25 kilometres west of Trail in southeastern B.C. The centre of the claim group is located at Latitude 49°11'N and Longitude 118°08'W.

Access to the property is via Highway No. 3 from either Grand Forks or Castlegar to the Paulson Bridge. A 4 x 4 track extends from the Paulson Bridge along the eastern side of the claims and then extends across the southern part of the property. A continuation of this road traverses Josh Creek to the northwestern part of the claim area. Topographic relief on the property is not extreme, although a few localized steep slopes are present. Elevations range from 1,189 m along Josh Creek to 1,624 m at the highest point on the property.

Title to the property is recorded on Mineral Title Reference Map No. 82E1E, Greenwood Mining Division as shown in the accompanying Table 1.

2.2 Previous Exploration

The Burnt Basin claim area was originally prospected during the late 1800's, however, much of this information was not recorded.

Since 1965, several operators have explored known showings on the property and direct shipped small quantities of ore mainly from the Eva Bell claim. The following table is a chronological summary since 1965:

- 1965 - Christina Lake Mines - geological, geochemical and magnetometer surveys were completed. Some diamond drilling - data not available.
- 1968 - Dalex Mines - an induced polarization survey and considerable stripping and trenching on Burnt Basin and Nally Gibson Claim (L1509). Geochemical survey, trenching and stripping and seven holes totalling 2,142 feet.
- 1972-75 - Donna Mines, reports by E.O. Chisholm and H. Shear, line cutting and magnetometer surveys on the Eva Bell and Halifax, and five short diamond drill holes on the Eva Bell, cat trenching and percussion drilling. Shipped a total of 1,488 tons to Trail, H.B. Mine, Re-Mac Mines and Kam-Kotia.
- 1975-76 - Alvija Mines Ltd. - produced 1,750 tons from the Halifax claim and shipped 535 tons yielding 3.1 oz. Ag/ton, 4.45% Pb, 6.75% Zn with 21.5% magnetite to the H.B. Mine at Salmo.
- 1977 - Paulson Mines Ltd. completed 1,500 feet of diamond drilling on the Halifax claim and published intercepts of up to 6' grading 12.4 oz. Ag/ton, 19.7% lead and 14.9% zinc. (* Note: Details not available).
- 1978 - Oliver Resources completed a Vector Pulse E.M. Survey, I.P. Survey and Magnetometer Survey with about 10 km completed.
- 1979 - Granges Exploration Ltd. completed 291 m of diamond drilling on the Eva Bell and BP No. 2 (adjoins Eva Bell to the east).
- 1986-87 - West Rim Resources completed 420 meters of diamond drilling at the Motherlode Prospect and carried out extensive soil geochemical surveys in the Halifax-Eva Bell area.

REFERENCES

The following maps, publications and reports were noted by Christopher in a report prepared in 1986. Those references marked with an asterisk were used in the compilation of this study.

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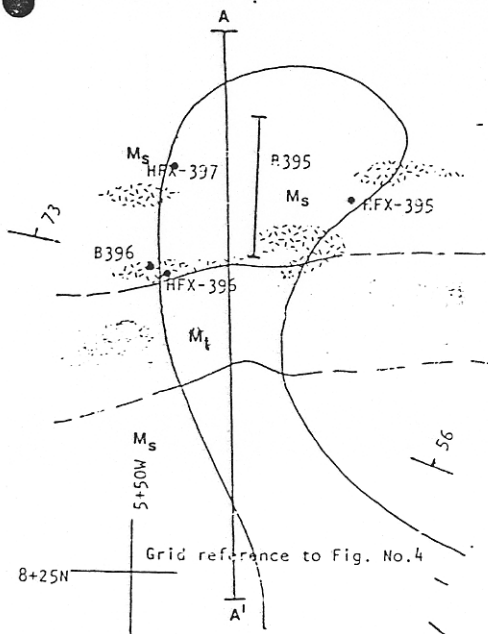
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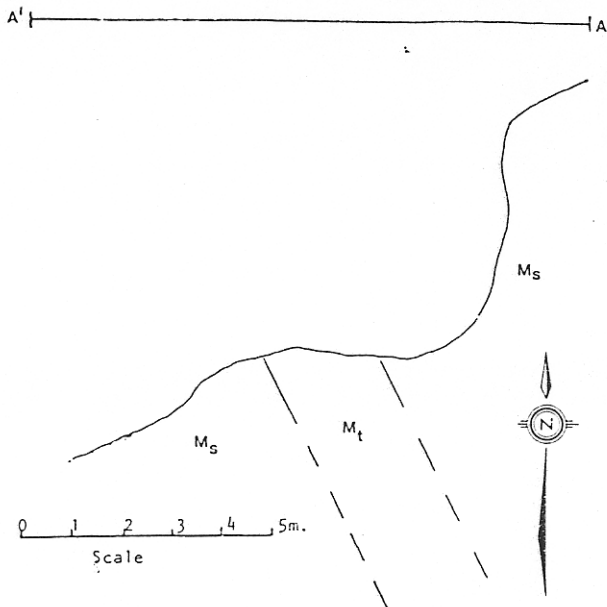
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SUMATRA RESOURCES LTD.
 HALIFAX TRENCH
 DETAIL SKETCH 1988
 FIG. NO.5



LEGEND

- sample location
 -  massive sphalerite, galena
- Note: see Legend for Fig.4 for unit description



2.4 Description of Halifax Zone

The Halifax-Eva Bell prospects include the Eva Bell Production and Northwest zones, the Halifax zone and the Ennismore zone (refer to Figure 4 for locations). These prospects form an east-west belt roughly 1500 metres long, portions of which have been explored by previous operators.

The Halifax zone lies approximately 400 metres ^{5.20} east of the Eva Bell-Northwest zone, located at grid reference 5+50W and 8+25N (shown in Figure 4). Previous exploration within this zone includes several trenches and short drill holes that have partially delineated parallel, 1.0 to 2.5 metre wide zones, comprised of galena and sphalerite mineralization grading approximately 3.0 oz/ton silver, 7.0% lead, and 12.0% zinc (Dalex Mines, 1968). Chip sampling by P.A. Christopher in 1986, also confirms the earlier results as well as values in gold (refer to Table 2).

Rehabilitation and detailed mapping in 1988 of the main trench area in the Halifax zone exposed massive magnetic mineralization within a grey to black siliceous limestone unit localized along the contact with a brown weathering pyroclastic(?) unit. Dense, massive pods of brown sphalerite and galena occur within the magnetite-rich limestone adjacent to this contact. The pods range up to 25 X 75 centimetres across. The contact strikes approximately east-west and dips between 50 to 75 degrees north. The contact zone is extremely oxidized with extensive rusty limonitic and black manganese staining.

Previously, the brown weathering pyroclastic(?) unit described above was thought to represent andesite dykes intruded into the limestone. However, there is no indication of chilled margins along the contact with the limestone and numerous pyroclastic debris fragments occur within the brown weathering unit. Therefore, it is considered to represent a conformable tuffaceous unit deposited within the limestone. These relationships are similar to those observed at the Eva Bell Production zone.

Silver-lead-zinc mineralization comprised of massive to disseminated galena, sphalerite, magnetite and pyrrhotite also occurs within the irregularly bedded limestone.

Sampling of the massive magnetite shows patchy, steely grey, very fine grained magnetite grading to finely disseminated magnetite within the limestone host. Sphalerite occurs as pale brown, fine sugary grains intergrown with fine to medium grained crystalline galena. Pyrrhotite and minor chalcopyrite occur with disseminated magnetite in the limestone.

Three samples of the massive magnetite mineralization were collected and cut into slabs for detailed descriptions. No samples were assayed.

JOSH CLAIM GROUP



LEGEND

CENOZOIC
Kgd Cragell intrusions, apatite, monzonite, obsidianite and granite.

MESOZOIC
Kgd Metam. intrusions, granodiorite, granite, quartz monzonite.

Kd Base rock series in southeast.

PALEOZOIC
MSV Mt. Desert Formation, greywacke, gneiss, limestone, paragneiss, sandstone, etc.

Mt Metasediments, not given symbols.

Mt Metasediments, intrusions and black limestone, carbon and salt.

Mt Tuffaceous unit

SYMBOLS

- Geochemical anomaly, 1984/85. (Values for Sg in ppm)
- Area of extensive cut tracing, rock sampling. (Refer to Table 2 for rock sample descriptions and assay results).
- Diamond drill hole, reference number.
- Approximate strike of bedding, dip.
- Fault, approximate.

NOTE: Contour Interval 100 Feet.



SUMATRA RESOURCES INC.
— BURNT BASIN JOINT VENTURE —
GREENWOOD MINING DIVISION — BRITISH COLUMBIA

COMPILATION MAP

2.3 Geology and Exploration Model

(Please refer to figure No.s 3 and 4)

Geologically, the project area covers the central part of an elongate roof pendant composed of mixed, Paleozoic aged sediments and volcanics bordered to the north and south by granitic intrusive rocks belonging to the Nelson and Coryell Batholiths.

The pendant consists mainly of limestones and argillaceous limestones interbedded with andesitic volcanics collectively termed the Mt. Roberts Formation. Various authors note the presence of felsic dykes and sills within these rocks however, in a report by Granges Exploration dated October 1979, it is concluded that some or all of these intrusives may actually be concordant, metamorphosed tuffaceous beds.

Rocks within the pendant strike roughly northwest (320° to 340°), dip shallowly to steeply east and are crosscut by north trending shear zones.

Limestones and argillites are generally grey to black in colour and relatively unaltered, (referred to as unit Ms). Volcanic rocks are typically dark green (referred to as unit Mv) and "intrusive dykes and sills" are typically light coloured. Figure No. 3 shows the approximate distribution of the various rock units.

This type of environment is typical of areas which host both skarn and secondary vein type deposits. Within the claim area over 20 precious and base metal occurrences have been identified most important of which are the Halifax-Eva Bell Prospects. Previous operators (Dalex Mines, Donna Mines etc.) concluded that known mineralization is a type of skarn occurrence however, observations made by Granges Exploration suggests a possible volcanogenic origin.