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GEOLOGICAL EVALUATION OF GYPSUM DEPOSITS

ON THE DENBY PROPERTY

(DEN #1-10 Mineral Claims)

situated in

FORT STEELE MINING DIVISION

Latitude: 49°50'00" Longitude: 115°28'00" NTS: 82G 093

REPORT FOR

WESTROC INC.

INVERMERE, B.

January 2001

STEPHEN B. BUTRENCHUK P. GEOL. GEOLOGICAL SURVEY BRANCH AGSESSMENT REPORT

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SUMMARY

The DEN #'s 1-10 mineral claims were staked in July 2000. Geological mapping completed in August 2000 indicated the presence of gypsum over a length of 2000 metres. The quality of the gypsum is variable Gypsum is overlain by limestone of the Devonian Harrogate Formation and underlain by limestone of the Cedared Formation. Further work will be required to fully evaluate the resource potential of these deposits.

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GEOLOGICAL EVALUATION OF GYPSUM DEPOSITS ON THE DENBY PROPERTY

INTRODUCTION:

Gypsum ranks as one of the leading industrial mineral commodities in British Columbia in terms of volume and value of production. The majority of this production comes from quarries situated in the Windermere Creek and Lussier River areas and operated by Westroc Inc. and Georgia Pacific Canada Ltd. respectively. Other gypsum deposits are also located in the Lussier River area.

In July 2000, Westroc Inc. acquired the DEN #'s 1-10 mineral claims to protect known gypsum occurrences located immediately north of Top of the World Park. This report describes the geological evaluation of these occurrences.

LOCATION AND ACCESS:

The DEN #'s 1-10 mineral claims are situated on the east side of the Lussier River immediately north of Top of the World Park (Figure 1). Access to the property is via the Whiteswan and Lussier River Forest Service Roads from Highway 93. The property itself is traversed by a series of north-south logging roads. Crossing the Lussier River can be challenging as the only bridge to the property has been dismantled. Forging of the Lussier River is best done during low water periods.

The nearest communities are Canal Flats and Skookumchuk located on Highway 93.

PROPERTY

The Denby property consists of the DEN #'s 1-10 mineral claims (Figure 2), the particulars of which are summarized in Table 1. Pending acceptance of this report these claims will be in good standing until July 2003.

FIGURE 1: LOCATION MAP- DENBY PROPERTY



http://webmap.ei.gov.bc.ca/minpot/map/dep_find.mwf

Monday, October 16, 2000 11:39 AM

FIGURE 2: CLAIM MAP



TABLE 1: PROPERTY SUMMARY

Tenure Number	Claim Name	Map Number	Work Recorded To	Status	Mining Division	Units	Tag Number
378620	DEN #1	082G093	20030706	Good Standing 20010706	Fort Steele	1	633063M
378621	DEN #2	082G093	20030706	Good Standing 20010706	Fort Steele	1	633064M
378622	DEN# 3	082G093	20030706	Good Standing 20010706	Fort Steele	1	633065M
378623	DEN #4	082G093	20030706	Good Standing 20010707	Fort Steele	1	633066M
378624	DEN #5	082G093	20030707	Good Standing 20010707	Fort Steele	1	633067M
378625	DEN #6	082G093	20030707	Good Standing 20010707	Fort Steele	1	633068M
378626	DEN #7	082G093	20030707	Good Standing 20010707	Fort Steele	1	633069M
378627	DEN #8	082G093	20030707	Good Standing 20010707	Fort Steele	1	633070M
378628	DEN #9	082G093	20030707	Good Standing 20010707	Fort Steele	1	618398M
378629	DEN #10	082G093	20030707	Good Standing 20010707	Fort Steele	1	618399M

GENERAL GEOLOGY:

In British Columbia the most extensive gypsum deposits occur within the Devonian Burnais Fm. geographically located in the Stanford Range and in the Lussier River-Coyote Creek area. The Burnais Formation is restricted to an evaporite sequence consisting of gypsum, anhydrite and minor limestone. Estimates of stratigraphic thickness range from 50 to 100 metres or more. This formation has a general thinning trend southwards into the Coyote Creek area where it rarely exceeds 60 metres (Butrenchuk, 1991).

Gypsum throughout this area is typically laminar to thin bedded, with laminations and bedding varying from a fraction of a millimetre to 4 millimetres. The colour of the gypsum varies from white through various shades of grey to occasionally black. Pale brown to pale brownish grey laminae are often present (Butrenchuk, 1991).

Within the Burnais Fm. a black fetid limestone and thin grey aphanitic limestone bands may also be present. Generally this limestone occurs above the gypsum.

The Cedared Fm. is comprised of dolomite, minor limestone and argillaceous limestone. These rocks are generally thin to medium bedded and aphanitic to finely crystalline. In part they are light grey to dark grey and weathered grey.

Overlying the Cedared and Burnais Fms. is the Harrogate Fm. also of Devonian age. It consists of a sequence of dark grey to black, typically nodular limestones. Minor shale and dolomite are present locally. The nodular limestone unit provides a useful marker horizon throughout the area.

In the Lussier River valley the majority of gypsum deposits are located east of the river. These deposits extend from south of Whiteswan Lake to the north end of Top of the World park. Where observed, the gypsum is steeply dipping to vertical. Faulting may have played an important role in the localization and preservation of these deposits. The dominant structural feature in this area is a north-south trending syncline with shallow dipping limbs. Its axis is located along the height of land separating the Lussier River and Coyote Creek. Gypsum Occurs along both limbs.

PROPERTY GEOLOGY - MINERAL DEPOSITS:

Gypsum outcrops at three localities along an old logging trail over a distance of 2 kilometres (Figure 3). Separating the gypsum is limestone of the Cedared and Harrogate Formations. Some of the limestone may belong to the Burnais Fm. The general trend of these units is north-south with gentle dips easterly. An east-west trending near vertical fault is present at the south end of the claim block. This fault may cut off the gypsum to the south. At the north end of the claims, overburden conceals the extent of gypsum in this

direction.

Two limestone units are present on the property. The older unit consists of a medium to thick bedded, dark grey, very fine-grained to aphanitic limestone. Weathering varies from buff grey to light grey and occasionally grey. This unit appears to both overlie and underlie the gypsum. It has tentatively been assigned to the Cedared Fm. In part this unit may also belong to the Burnais Fm.

The younger limestone unit is assigned to the Harrogate Fm. It is thin to medium bedded, grey to dark grey with a typical nodular appearance.

The gypsum varies from buff to light grey in the north to cream to very light grey in the south. Some white gypsum is also present in the most southerly exposure. Both the northernmost and southernmost outcrops appear to have a substantial clay content. This is reflected in the analyses of samples taken from these two localities (Table 2). The best quality gypsum is located in the centre of the property.

Sample Number	Gypsum (%)	Chlorides (ppm)
DEN 00-1	78.6	<28
DEN 00-2	95.2	<28
DEN 00-3	91.1	<28
DEN 00-4	70.5	<28
DEN 00-5	81.0	<28
DEN 00-6	78.4	<28

TABLE 2: GYPSUM ANALYSES

NOTE: All analyses were done by Westroc Inc. at their facility in Invermere.

CONCLUSIONS AND RECOMMENDATIONS:

A substantial gypsum resource has been identified on the Denby property. Further evaluation will be required to determine its full extent.

Report by:

B. Butrenchuk 51

Stephen B. Butrenchuk P. Geol.

REFERENCES

Butrenchuk, S.B. (1991): Gypsum in British Columbia, Ministry of Energy, Mines and Petroleum Resources, Open File 1991-15, 48 pages.

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STATEMENT OF QUALIFICATIONS

I, **Stephen B. Butrenchuk**, of 34 Temple Crescent West, Lethbridge, Alberta, T1K 4T4, do hereby certify that:

- 1. I am a graduate of the University of Manitoba with a B.Sc. in Geology (1966) and a M.Sc. in Geology (1970).
- 2. I have been practicing my profession in British Columbia, Quebec, Labrador, Northwestern United States, Yukon and Northwest Territories since graduation.
- 3. I am a Fellow of the Geological Association of Canada.
- 4. This report is based upon knowledge of the DEN Property gained from exploration work done on the property.
- 5. I have no beneficial interest, either directly or indirectly in the DEN Property, nor do I beneficially own, directly or indirectly, any securities of Westroc Inc.
- 6. I am a Professional Geologist, registered in the Province of Alberta.

Stephen B. Butrenchuk P. Geol.

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STATEMENT OF EXPENDITURES

SALARIES: S.B. Butrenchuk \$ 900.00 TRUCK: 1159 km @ \$0.40/km 463.60 PER DIEM: 3 days @ \$35/day 105.00 REPORT PREPARATION: 600.00

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2,068.60

