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SLIDE MOUNTAIN PROPERTY

SLIDE 1-11 CLAIMS

CARIBOO MINING DIVISION

SUMMARY REVIEW OF DATA AND EXPLORATION PROPOSAL

for

LABRADOR MINING AND EXPLORATION CO. LTD.

by

I.M. WATSON & ASSOCIATES LTD.

Vancouver, B.C. May 1982.

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I.M. Watson P. Eng.

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INTRODUCTION

This report is a summary review of data pertaining to the Slide Claims, near Slide Mountain on the Quesnel River, B.C. The report includes a proposal and budget for exploration of the property.

The property is situated immediately west of the Dome QR claims which contain a significant gold deposit of the porphyry gold-copper type, presently being explored by Fox Geological Consultants Ltd., on behalf of Dome Mines Ltd.

Interest in the Slide Claims arises from the proximity of the Dome gold prospect, and the possibility that the favourable host rock lithology extends into or is repeated within the Slide property.

DATA SOURCES

Information contained in this review has been derived from reports and reviews provided by Labrador, and from B.C. Ministry of Mines annual reports and assessment reports. (See References and the appendix to this report).

LOCATION (Figure 1)

- Approximately 70 kms. north-east of Williams Lake, at Slide Mountain on the north bank of Quesnel River, in the Cariboo Mining Division.
- Latitude 52° 40'
- Longitude 121° 48'
- NTS Ref. 93A/12W





ACCESS (Figure 2)

Best and shortest road access to the property is by the Quesnel River/Dragon Mountain road from Quesnel to Gravelle Ferry and thence by a new, good, forestry road to Ducks Creek, at the north-eastern corner of the Slide Property. The road continues south-east across the Slide claims to the Dome camp on the QR property.

The distance from the Quesnel to the Slide claims is approximately 65 kms., ...a one and a half hours drive.

CLAIMS (Figure 3)

The 11 claims, 186 unit property was staked by Canorex in March 1981. The claims are listed by McInnis (1982) as follows:

Claim	Name	No. of Units	Record No.	Expiry Date
Slide	1	20	3361	April 8, 1982.
Slide	2	20	3351	April 8, 1982.
Slide	3	20	3352	April 8, 1982.
Slide	4	15	3353	April 8, 1982.
Slide	5	15	3354	April 8, 1982.
Slide	6	· 20	3355	April 8, 1982.
Slide	7	20	3356	April 8, 1982.
Slide	8	20	3357	April 8, 1982.
Slide	9	8	3358	April 8, 1982.
Slide	10	16	3359	April 8, 1982.
Slide	11	12	3360	April 8, 1982.



PREVIOUS WORK (Figures 4-7)

Figures 4-7 depict, in cartoon form, the extent, nature, and results of previous work in the Slide Mountain area, as recorded in assessment reports and in the annual reports of the B.C. Department of Mines.

Figure 4 shows the areas surveyed and the type of survey carried out by each company.

Figures 6 and 7 portray the geophysical and geochemical anomalies resulting from these surveys.

Figure 5 is a geological compilation of work by Nippon, Shell, and Dome, and includes information derived from definitive mapping by Bailey (1976) in the Morehead Lake area immediately south of the Slide and Dome QR properties.

The following is a summary of the work recorded/reported on a) Slide Mountain property area and b) The Dome QR property

a) Slide Mountain Area

Earliest activity appears to have been placer gold operations on the Quesnel River and on Birrell Creek, but there are no records of this work in the government reports.

Since the mid 1960's exploration in the area has been directed towards copper. Particular attention was focussed on chalcocite, bornite, and tetrahedrite showings in limestone outcropping along the north bank of the Quesnel River, in the area now covered by the Slide 7, 8 and 9, and Stone 1 and 2 claims.



- 196? <u>Noranda Exploration Company Ltd</u>. Bulldozer trenching of limestone hosted copper showings. Possible mapping and prospecting of area (no records or reports of work in B.C. government files)
- 1966-67 <u>Cariboo Gold Quartz Mining Company Ltd</u>. bought 59 claims from E. Hewett and Associates. (CGQ group)
 - Soil sampling survey on 400' x 200' grid (1857 samples) during January 1967, through two foot snow cover. Samples were tested in the field for copper (acetic-acid/rubeanic acid test), Assessment Report 960. (Area sampled and 'anomalies' detected indicated in Figures 4 and 6).
- 1970 <u>Nippon Mining of Canada Ltd</u>. Slide Group - 400 claims.
 - Reconnaissance soil sampling survey (Cu, Mo, Ag) of entire group, using claim lines for control. 1200 samples (approx. three samples/claim). Assessment Report 2858 (Figures 4 and 6).
 - Detail soil sampling survey (Cu) over 33 claim area in south-west portion of claim group. 950 samples were collected over a 400' x 100' grid (Figure 6). Assessment Report 2875.
 - Geological survey (Figure 5) Assessment Report 2858.
 - I.P. and magnetometer surveys over grid area in the south-west part of the claim group (13.4 line miles), (Figure 7)
- 1976 Shell Canada Resources Ltd. RIV Group - 20 claims. (Claim area is the same as that covered by the Nippon 'detailed' grid in 1970).
 - Prospecting, test-pitting and sampling. (Figure 4)
- 1981 <u>Canorex Resources Inc</u>. Staked 11 claim - 186 unit property in March 1981. April - limited stream sediment sampling Sept. - linecutting - 139 line kms.150m x 25m grid (NS base line, E-W grid lines) Oct. - property optioned to Norcen



2B Basalt bx, minor seds.

C

3A

FIGURE 5

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Geological Compilation (After Fox, Richardson 1978; and Bailey 1976) Scale 1:50,000

- b) <u>Dome QR Property</u> Information on this area is derived mainly from the Assessment Reports: 6079 (Nov.'76); 6730 (Apr.'78); and 6967 (Nov.'78).
- 1975 PR 2-5 (35 units) staked by Fox Geological for the Cariboo Project (a joint venture between Newconex and Dome supervised by Fox Geological) to cover a stock and enclosing sediments and volcanic rocks.
- 1976 Geochemical soil sampling
 Magnetometer survey
 Geological mapping
 (All work done by Fox Geological)
- 1977 PR claims abandoned and ground restaked as QR 1-6 (100 units) - Survey grids expanded to cover larger area
 - Magnetometer, geochemical and geological surveys extended to cover most of the claim group.
 - Percussion drilling (9 holes, footage undisclosed)
 - Diamond drilling (at least three holes, but number and footage not reported)
- 1978 Percussion drilling (25 holes, 2028 metres) on the QR 1 and 3 claims, along northern margin of stock.
 2.2 kms. drill access roads built.
 - _____
- 1980-81 Geochemical, magnetometer and I.P. surveys
 - Diamond drilling (details unavailable)
 - Access road improvement (section between Maud Lake turn off and QR camp)
- 1982 Diamond drilling (no published data)

In addition to the work on the QR claims Dome/Fox has explored the 58 claim <u>Maud Group</u> immediately north of the Slide Group (B.C. Annual reports, 1974 and 1975).

- 1974 Soil sampling 528 samples from 24 mile grid covering entire property
- 1975? Geological mapping
 - E.M. survey (19 line kms. on Maud 1-21, 23, 25, 27, 29, 31, 37, 39, 41)
 - Magnetometer survey (40 line kms.)
 - Road building (5 kms.)
 - Trenching (300m on Maud 3, 4 and 18)

Further work is intended on the Maud claims during 1982.

GEOLOGY

a) General

The Slide and QR properties lie within the Quesnel Trough at the Morehead Lake-Quesnel River area 'constriction'. The succession in this part of the Trough consists mainly of Mesozoic volcanic rocks and derived sediments, and minor marine sediments. Intruding the volcanics and sediments are complex intrusive stocks and sills of quartz-monzonite, diorite, and syenite. Examples of this type of intrusion, with associated porphyry copper type mineralisation, are the Mt. Polley (Cariboo Bell) and Morehead Creek stocks south of the Quesnel River, and the QR and Maud property stocks north of the Quesnel (Bailey 1976).

The trend of the Trough rocks is dominantly north-north westerly, with dips towards the central axis; at the Quesnel River this trend swings abruptly east-west.

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The structural style of the Trough is characterised by north-easterly trending block-faults. Folding is rare. A major north-westerly trending lineament or fault system is recognisable north and south of the Slide Mountain area, and coincides with the alkalic stocks at Maud, Shiko, and Kwun Lake. (Bailey 1976)

b) Slide/QR area

Mapping of the Slide property has been confined to a small area in the southern part of the claim group underlain by the copper bearing limestones explored by Nippon, Shell and Noranda.

Best information comes from mapping by Dome of the QR property, and by Bailey (1976) of the Morehead Lake area immediately south of the Slide and QR properties, as depicted in Figure 5. The QR stock (unit 4) intrudes easterly striking basalts and volcanic metasediments. The sediments and volcanics along the north contact of the stock are propylitised, with strong development of pyrite and epidote.

The easterly strike reverts to north-westerly, probably in the eastern part of the Slide property. The copper bearing limestones in the southern part of the Slide elaims probably correlate with the Jurrassic (Hettangian) massive limestone (unit 3D) mapped by Bailey on the south bank of the Quesnel River.

No intrusive stocks have been recognized so far on the Slide property; the large airborne magnetic anomaly covered by the claims may arise from a volcano-intrusive complex of the QR - Mt. Polley type.

QR GOLD DEPOSIT

Original interest in the QR property lay in its potential as a porphyry copper deposit. Attention was drawn to gold by the detection of gold soil anomalies in 1976. Drilling revealed interesting gold values in the pyriteepidote alteration zone immediately north of the QR stock. In April 1981 Dome announced that the deposit contained drill-indicated reserves of 750,000 tons grading 0.20 ozs Au/ton.

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In May 1982, following further drilling and calculation of reserves, Dome's annual report announced drilled reserves of 950,000 tons grading 0.21 Ozs Au/ton "in a compact near surface deposit"; also reported was "the delineation of several geochemical/geophysical targets within the same favourable geological environment as the original discovery".

Gold is believed to occur within heavily pyritised and epidote rich volcanic sediments along the north contact of the stock. Although there is a broad stratigraphic control, the distribution of the gold within the 1.4 unit (s) is complex and not fully understood. Ore 'shoots' cross-cut stratigraphy and the zone is apparently displaced by strong north-south faults.

Exploration Methods

Geological mapping, soil sampling, magnetometer, and, at a later stage, I.P. surveys are effective primary exploration tools.

a) <u>Geochemistry</u> - Interpretation of geochemistry requires caution due to the complexity of ice movement in this area; the main northerly movement is locally significantly modified by the Quesnel River channel and bedrock highs.

b) <u>Magnetometer</u> surveys are useful as an aid to geological interpretation. Strong highs are produced by the often arcuate hornfels magnetite rich, alteration zones. Basalts also cause complex highs, not readily distinguishable from those produced by the alkalic stocks. The QR 'gold zones' are only weakly magnetic and have little or no magnetic expression.

c) <u>I.P.</u> is effective in detecting the pyrite rich host deposits; however, as noted above, the gold is restricted to relatively small 'shoots' within the pyritic host.

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d) <u>E.M.</u> (VLF) may be effective as a mapping aid, particularly in detecting important cross-cutting faults. EM methods have been tested on the QR pyritic host zone, but the sulphides apparently lack the 'continuity' to conduct.

DISCUSSION OF PREVIOUS WORK, SLIDE PROPERTY AREA

Geological and geophysical work reported over the area of the present Slide Group has been confined to the south-western part of the property (area of detailed grid, Figure 4).

Soil sampling surveys by Nippon and Cariboo Gold Quartz have covered most of the area, but none of the samples was analysed for gold.

The Nippon reconnaissance survey included molybdenum and silver, as well as copper, but sampling was too sparse to be effective for a precious metal target (three samples per claim), except in the detailed grid area where samples were analysed for copper only. No molybdenum or silver anomalies were detected by the reconnaissance work.

The Cariboo Gold Quartz programme covered about 25% of the present Slide group area. Samples were analysed for copper only, and the analytical method used is not reliable by present standards.

None of the work done to date contributes significantly to exploration for a QR type gold deposit; the potential for this target remains untested. Future exploration will require complete geological, geophysical and geochemical coverage of the property, as proposed below.

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LOGISTICS

The Dome QR camp will be vacant this season and it has been proposed that Labrador/Vanco rent the camp for \$500.00/month. Dome/Fox have agreed to this arrangement. The camp is fully equipped, with the possible exception of a cooking stove. Use of this camp will represent a great saving in time, material and living expenses. Dome benefit by having a "caretaker" in an area prone to theft during the summer months.

PROPOSED EXPLORATION PROGRAMME SLIDE GROUP 1982

 Preliminary property examination (approx. June 7th depending on ground and access conditions)

Purpose - 1.1) To inspect access road on Slide and QR properties

- 1.2) To check the Dome camp to establish camp and equipment requirements
- 1.3) To check bedrock strikes on the Slide property so that extension/modification of the existing grid can be planned.
- 2. Preparation of air photo based contour plan of property, 1:500 scale.
- 3. Establish base at Dome QR camp (assuming no access or major equipment problems), approx. mid June.
- 4. Property work as follows:
 - 4.1) Line cutting: modification of existing grid, if necessary (see 1.3 above).

- extension of existing grid to cover all accessible areas of property, estimated 55 kms. at 150 metre line spacings. (see Figure 2)

- 4.2) Geological mapping using grid, photos and contour plans for control.
- 4.3) Geochemical soil sampling (analyses for Au, by AA method, and 30 element ICP, approx. 2500 samples)?
- 4.4) Magnetometer survey
- 4.5) VLF-EM test orientation traverses over known lithological and structural features, particularly major faults, on the Dome QR property. (To be done on a mutual benefit basis, with Dome's approval.) Any work on the Slide property would depend on the success of the test work.
- 4.6) I.P. survey area of survey to be selected on the basis of results of mapping, geochemical magnetometer and VLF EM?, surveys.

Further work would be dependent on the results of the above programme.

BUDGET PROPOSAL - SLIDE GROUP PROJECT 1982

Period 15th June to 15th August 1982.

01	Salaries and Fringe	\$ 30,000
02	Accommodation, Board and Travel	6,200
03	Radio, Telephone, Postage and Freight	1,300
04	Vehicle Expenses	3,500
05	Equipment Rental	4,400
06	Equipment Purchase	2,200
07	Geochemical/Assays	20,600
08	Reproductions, Maps and Publications	3,600
09	Insurance	1,000
10	Draughting	1,000
11	Fees and Administration	15,900
12	Linecutting	11,150

TOTAL

\$ 100,850

Prepared by:

I.M. WATSON & ASSOCIATES LTD.

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REFERENCES

1976 Notes to Accompany Preliminary Map No. 20 Bailey, D. G. Morehead Lake Area, B.C. (B.C. Department of Mines) Campbell, R.B. 1961 Preliminary Map 93A West Quesnel River GSC Map 3-1961 McInnis, M. 1981 Summary Report on the Slide Claim Group for Canorex International, Inc. 1982 Linecutting and Geochemical Report on the Slide 1-11 Claims • , Ryan, T. 1982 Memo re: Slide Project B.C. Labrador Mining and Exploration Co. Ltd. Salazar, G. 1981 Slide Project, Summary Report Inter office memo re: Slide Mountain Slingsby, A. 1981 Norcen Energy Resources Ltd.

ASSESSMENT REPORTS

a)	Slide Mou	intain Ar	ea
	AR 960	1967	- Report on Geochemical Survey C.G.Q. Group E. Mason and J. Mitchell (Cariboo Gold Quartz Co. Ltd.)
	AR 2857	1970	- Geological and Geochemical Surveys on Slide and River Groups K. Shuts and E. Chisholm (Nippon Mining of Canada Ltd.)
	AR 2858	1970	- Geochemical Reconnaissance Survey on Slide Group K. Shuts and E. Chisholm (Nippon Mining of Canada Ltd.)
	AR 2859	1970	- Report on I.P. and Magnetometer Surveys Slide Mountain Project J.G. Baird (Nippon Mining of Canada Ltd.)
	AR 6251	1976	- Prospecting Assessment Report on RIV Claim Group J.Brander and R. Moore (Shell Canada Resources Ltd.)
Ъ)	<u>QR (PR) P</u>	roperty	(Dome Mines Ltd.)

AR 6079 1976 - Geochemical and Geophysical Report on the PR Mineral Claims P. Fox

AR 6730 1978 - Soil Geochemical, Magnetic and Geological Surveys on the OR Claim Group P. Richardson

Extracts from Minister of Mines Annual Reports and Dome Mines Annual Report for 1981 in appendix.

B.C. MINISTER OF MINES

ANNUAL REPORTS

(EXTRACTS)

SLIDE, RIVER (No. 192, Fig. H)

(93A/12W) LOCATION: Lat. 52°37.2-43.7' Long. 121°48.7–59.2' Astride Quesnel River and on Slide Mountain, 40 miles southeast of Quesnel. CLAIMS: SLIDE, RIVER, totalling 408.

¥ 43,47,45

ACCESS: By four-wheel-drive vehicle from Quesnel, 40 miles.

OWNER: NIPPON MINING OF CANADA LTD., 607, 475 Howe Street, Van-Same couver 1.

METAL: Copper.

DESCRIPTION: Chalcocite disseminations and veinlets in dolomitic limestone.

WORK DONE: Surface geological mapping, 1 inch equals 400 feet on 33 claims; induced polarization and magnetometer survey, 19.5 line-miles covering 33 claims; geochemical soil survey, 2,150 samples covering 25 claims.

REFERENCES: Assessment Reports 2857, 2858, 2859.

SLIDE, RIVER	(No. 80, Fig. D)		
LOCATION:	Lat. 52° 39.8′ Long. 121° 54′	(93A/12W)	
	CARIBOO M.D. At approximately 2,800 feet elev	ation on the north	
	bank of the Quesnel River, near Slide Mountain, 40) miles southeast of	
	Quesnel.		
CLAIMS:	SLIDE, RIVER, totalling 71.		
ACCESS:	By four-wheel-drive vehicle from Quesnel, 40 miles.		
OWNER:	NIPPON MINING OF CANADA LTD., 607, 4	175 Howe Street,	
	Vancouver 1.	· ·	
METAL:	Copper.		ų
DESCRIPTION:	Three chalcocite showings occur in dolomitic li	mestone along the	8
	boundary between the limestone and an andesitic vo	kanic complex.	¢
WORK DONE:	Surface geological mapping, 1 inch equals 5 feet of	on Slide 289 and 1	2
	inch equals 20 feet on River 4 (surveying trench); geochemical soil	λ
	survey, 1,070 samples covering 69 claims of Slide g	roup; trenching, 30	` .
	feet on Slide 289.		ž
REFERENCE:	B.C. Dept. of Mines & Pet. Res., G.E.M., 1970, p. 20	7.	Ĩ.
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(Fig. E-1, NTS 93, No. 4) RIV

Lat. 52° 40' Long. 121° 54' (93A/12W) LOCATION: CARIBOO M.D. North of the Quesnel River, 1.5 kilometres east of Slide Mountain. CLAIM: RIV (20 units). **OWNER:** Thomas E. Lisle. SHELL CANADA RESOURCES LTD., Box 100, Calgary, Alta. **OPERATOR:** T2P 2H5. METAL: Copper. DESCRIPTION: Mineralization consists of chalcocite, bornite, and occasional chalcopyrite occurring in erratic fractures at a dolomitic/limestone volcanic contact. Maximum thickness ranges up to 3 metres. Purple amygdaloidal and fragmental flows of an intermediate to mafic composition with grey and black (dolomitic) limestone constitute the lithologies. WORK DONE: 1976 - prospecting; 1977 - geological mapping (21 days mapping,

prospecting, and examining previous trenching); grab samples taken from trenches and showings.

REFERENCES: Mineral Inventory 93A-40, 41; B.C. Ministry of Mines & Pet. Res., GEM, 1971, pp. 135, 136; Assessment Report 6251.

(93A/7E)

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	EN (93A-11)	(Fig. D, No. 11)
	LOCATION:	Lat. 52° 19' Long. 120° 38' (93A/7E)
		CARIBOO M.D. Between 5,000 and 7,950 feet elevation 30 miles east
		of Horsefly (access is by dirt road from 150 Mile House; a 6-mile
		four-wheel-drive vehicle road leaves Horsefly River at MacKay Creek).
	CLAIMS:	EN 1 to 6, 14, 28, 29 Fraction, 104 to 107, 109, 126, 127, 129, EU 1
	•	to 26, CS 55 and 56.
	OWNERS:	E. Scholtz and J. Carson.
	OPERATOR:	NORANDA EXPLORATION COMPANY, LIMITED, Box 2380,
		Vancouver V6B 3T5.
	METAL:	Copper.
•	DESCRIPTION:	Chalcopyrite, pyrrhotite, and pyrite occur in pods, veins, and as
		disseminations in granodiorite and augite porphyry. On Eureka
		Mountain, a thick sequence of siltstones and phyllites has been intruded
1		successively by irregular bodies of amphibolite, augite porphyry, and
		granodiorite within the Quesnel Trough Mesozoic volcanic sequence.
	WORK DONE:	IP survey, 1.6 line-miles, 400-foot grid spacing covering EN 6, 29
		Fraction, 105, and 127; surface diamond drilling, two holes totalling
		1,204 feet on EN 6.
	REFERENCES:	B.C. Dept. of Mines & Pet. Res., GEM, 1972, pp. 331, 332; Assessment
		Report 5215.

CEDAR (Fig. D, No. 13)

LOCATION:	Lat. 52° 35' Long. 121° 30' (93A/12E, 11W)
	CARIBOO M.D. Four miles southeast of Likely on the north side of
	Cedar Creek, at 4,700 feet elevation.
CLAIMS:	CEDAR 1 to 12, 16, 17, 19, 21, 23, 25, 27, ROSE 1 to 6.
OWNER:	UNION CARBIDE EXPLORATION CORPORATION, 601, 1112 West
	Pender Street, Vancouver.
DESCRIPTION:	The claims are underlain by andesite and phyllitic black argillite.
WORK DONE:	Magnetometer survey, 5.9 line-miles, 400-foot grid spacing covering
	Cedar 4-8, 21, 23; IP survey, 5.5 line-miles, 400-foot grid spacing and
	geochemical soil survey, 8 line-miles, 400-foot grid spacing, 414 samples
	covering Cedar 4-9, 12, 21, 23, 25; surface diamond drilling, four holes
	totalling 1,694 feet on Cedar 8; linecutting, 9.1 miles on Cedar claims;
	road construction, 400 feet on Cedar 8.
REFERENCES:	B.C. Dept. of Mines & Pet. Res., GEM, 1973, p. 293; Assessment
	Report 5198

MAUD (934	A-119) (Fig. D, N	lo. 14)	
LOCATION:	Lat. 52° 44'	Long. 121° 55'	(93A/12W)
	CARIBOO M.D.	Fifteen miles northwest of Likely	y, on the west side of
	Maud Lake, at ap	proximately 3,700 feet elevation.	
CLAIMS:	MAUD 1 to 58.		

240

(93B/1E)

OWNERS:	DOME EXPLORATION (CANADA) LIMITED, 600, 365 Bay Street,		
	Toronto, Ont. and NEWCONEX CANADIAN EXPLORATION LTD.,		
	Box 40, Toronto-Dominion Centre, Toronto, Ont.		
METAL:	Copper.		
DESCRIPTION:	Weakly disseminated chalcopyrite occurs in pyritic volcanic breccias.		
	An augite diorite stock is enclosed by altered volcanic breccias.		
WORK DONE:	Geochemical soil survey, 24 line-miles, 500-foot grid spacing, 528		
	samples covering all claims.		
REFERENCE:	B.C. Dept. of Mines & Pet. Res., GEM, 1970, p. 207 (LEM).		

QUESNEL 93B

EM (93B-31)	(Fig. D, No. 15)	
LOCATION:	Lat. 52° 06' Long. 122° 01' (93B/1E)	
	CARIBOO M.D. Approximately 1 mile south of the east end of	
	Williams Lake, at approximately 2,000 feet elevation.	
CLAIMS:	EM 2, 4, 6, 7, 9, ALEX Fraction.	
OWNER:	CARPIQUET MINES LTD., Box 157, Ashcroft.	
METAL:	Copper.	
DESCRIPTION:	Disseminated chalcopyrite and bornite occur in a granodiorite of	
	Mesozoic age.	
WORK DONE:	Surface diamond drilling, two holes totalling 125 feet on EM 7.	

GIBRALTAR	MINE (93B-6	, 7, 12, 13)	(Fig. D, No. 10	0) · By A. D. Tidsbury
LOCATION:	Lat. 52° 31′		Long. 122° 17'	(93B/9W)
	CARIBOO M	.D. Twleve	miles north of l	AcLeese Lake, on Granite
	Creek and Lal	ke, at approx	imately 4,000 fee	elevation.
CLAIMS:	A total of 325	i claims, 134	of which are held	under mineral leases.
OWNER:	GIBRALTAR	MINES LTD)., Box 130, McLe	ese Lake.
METALS:	Copper, moly	bdenum (pro	duction shown in	Table 6).
DESCRIPTION	:			

Gibraltar mine is a unique plutonic porphyry copper-molybdenum deposit of Triassic age. Three major orebodies are distributed about a felsic core of a deformed zoned quartz diorite pluton. The orebodies are to be mined in sequence with the first stage of each involving production from the secondarily enriched part of the orebodies.

In 1974 activity occurred at all three bodies: stage 1 was completed at East Gibraltar, mining transferred to the Granite Lake orebody, and initial stripping occurred at the Pollyanna. The geology of the Granite Lake body is similar to East Gibraltar (GEM, 1973, p. 299-318), but the less deformed felsic core rocks are exposed as the western rim of the pit. Exposures of the orebody underneath the former lake show no oxidation or enrichment although this develops rapidly to the west.

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					(93A/12W)
MAUD (Fig. E	E-1, NTS 93, No. 7	7)			
OCATION:	Lat. 52° 44′	L	ona. 121° 55'		(93A/12W)
	CARIROO M.D.	Nineteen k	ilometres nor	thwest of Que	snel Forks, on
OL A1140	the west side of	Maud Lake,	at approxima	tely 1 200 me	etres elevation.
CLAINS:	MAUDI 10 30.	ATION ICL	NADA) LIM	TED 600 3	66 Ray Street
OWNERS:	Toronto, On EXPLORATION Ontario M5K 18	tario M5H LTD., Box 7.	1 2V4 and 40, Toronto-	NEWCONEX Dominion Ce	CANADIAN ntre, Toronto,
METAL:	Cooper.	••			
DESCRIPTION:	Weakly dissemi breccias.	nated chalo	copyrite occu	ırs in pyrite	erich volcanic
WORK DONE:	Surface geologic magnetic survey Maud 1-21, 23, line-kilometres, construction, 5 I 32 (between Tw on Maud 3, 4, an	cal mapping , 19 line-kill 25, 27, 29, 166-metre kilometres o enty Mile Pa od 18.), 1:6000, co ometres, 166-1 31, 37, 39, 4 grid spacing, n Maud 1, 3, ass and Maud	vering Maud netre grid spa 1; magnetome covering Mau 4, 13, 15, 16, Lake); trenchi	1-58; electro- acing, covering eter survey, 40 ud 1-58; road 18, 27, 29, 30, ing, 300 metres
REFERENCES:	B.C. Dept. of Mil	nes & Pet. R	es., GEM, 197	4, p. 240; MI	93A-119.
	-				
ML (Fig. E-1,	NTS 93, No. 8)		-		•
LOCATION:	Lat. 52° 35' CARIBOO M.D. of the west end elevation.	Lo Fifteen kil I of Moreho	ong. 121° 47′ Iometres west ead Lake, at a	of Likely, 2 ki approximately	(93A/12W) ilometres south r 1 000 metres
CLAIMS:	ML 1 to 24.				
OWNERS:	65 Bay Street,				
	Toronto, Ontari	o M5H 2V4	and NEWCO	NEX CANAD	IAN EXPLOR-
	ATION LTD., 1 M5K 1B7.	3ox 40, Toi	ronto-Dominic	in Centre, To	ronto, Ontario
DESCRIPTION:	Chalcocite, born	ite, and cha	lcopyrite are d	isseminated in	i limestone and
WORK DONE:	Surface geologic 260 metres on M	al mapping,	, 1:10 000, co I 21	vering all cla	ims; trenching,
REFERENCES:	<i>B.C. Dept. of M.</i> 93A-118.	ines & Pet. F	Res., Geologica	Il Fieldwork, '	1975, p. 59; MI

BJ, CARIBOO-BELL (Fig. E-1, NTS 93, No. 9)

LOCATION:	Lat. 52° 33'	Long. 121° 38'	(93A/12E)			
•	CARIBOO M.D.	Eight kilometres southwest of	F Likely, on Mount			
	Polley, at approximately 1 200 metres elevation.					
CLAIMS:	BJ, BOOTJACK,	RED, GREEN, totalling approxim	nately 130.			

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DOME MINES ANNUAL REPORT 1981 (March 1982)

A large gold property on Opapimiskan Lake. approximately 80 miles north of Pickle Lake, Ontario, is operated as a joint venture in which the Dome Mines Group has a 35 percent participating interest. The work is managed by Dome Exploration. A definition drilling program has outlined drill-indicated reserves in excess of one million tons grading approximately 0.2 ounces of gold per ton in two discrete zones in banded iron formation. Preliminary feasibility studies, including metallurgical, environmental and mining investigations, are currently in progress. The main thrust of the 1982 exploration program will be to block out additional reserves. In order to accomplish this, a major drilling program to test favourable areas close to the known deposits will be carried out during the first quarter of 1982.

Work continued on the Quesnel deposit in the Cariboo district of central British Columbia where drill-indicated reserves of 950,000 tons grading 0.21 ounces of gold per ton have been identified in a compact near-surface deposit. In addition to the drilling carried out in 1981, a comprehensive exploration program was undertaken to test the potential of the remainder of the property. This resulted in the delineation of several geochemical/ geophysical targets within the same favourable geological environment as the original discovery. During 1982, further drilling will be carried out to explore these targets as well as to investigate some deep intersections of gold mineralization adjacent to the discovery.

In the Yukon, within a few miles of the Alaska Highway, participation continues in a joint-venture exploration program which involves tin prospects on several properties. On the most interesting of these, further drilling was carried out during 1981. The deposit is structurally complex and will require much more work to assess its ultimate potential.

In the Detour Lake area, a joint-venture exploration agreement has been concluded with Amoco Canada Petroleum Company Ltd. whereby the Dome Mines Group and Amoco will participate in exploration carried out within a specific area involving 583 claims near the Detour deposit.

In the United States, exploration activities are concentrated in the west, particularly Nevada and neighbouring states where major gold deposits have been discovered by various companies in the last few years. During 1981, the Dome Mines Group had active programs on 9 properties in Nevada and carried out drilling on 6 of these. In addition, the Dome Mines Group has a 33¹/₃ percent working interest in the Cordex IV joint venture which is also actively engaged in precious metal exploration in Nevada.

During most of 1981, the permanent exploration staff consisted of 10 geologists and 7 support staff operating out of Toronto, Timmins and Reno, Nevada. Early in 1982, a field office was established in Red Lake in order to handle exploration more efficiently in this important mineral-producing region.