

ROBINA EXPLORATIONS LTD.

HIGHLAND VALLEY AND ATHABASCA - Exploration of properties in Highland Valley near Ashcroft, B.C., and in the Athabasca M.D., Saskatchewan, are scheduled for exploration by Robina Explorations.

In Highland Valley, the company has a block of 40 claims located 20 miles by road from

Corporate Structure

Inc.: B.C., 7Jan69; public 26June69.

H.O. & Reg. Off.: 14<sup>th</sup> Floor, 1030 W. Georgia St., Vancouver.

T.A. & Reg.: Guaranty Trust Co. of Canada.

Auditors: Frederick Field & Co.

Auth. Cap.: 5,000,000 shs., 50¢ par value

Shares Issued:

For properties, escrowed BCSC 750,000

For \$45,446 total cash, pooled 302,969

Outstanding 31Oct69 1,052,969

Offered, prospectus 31Oct69 275,000

To be issued if fully taken up 1,327,969

Financial Position: working capital 31Oct69, \$11,829.

Public Share Offering: by prospectus 31Oct69,

the company offers 275,000 shs. at 50¢ per share subject to 10¢ per share commission to net \$110,000.

Directors: T.W. Stewart, J.F. Watson, J.R.

Mackay, G.A. Wilkinson, B.J. Rustom, H.W.

MacDonald.

Promoter: T.W. Stewart, whose wife, Robina T. Stewart, received as vendor's consideration, 750,000 shs. and \$14,750. Of the vendor's consideration, \$13,500 in cash and 524,750 in shares were allocated to others.

..... Ltd.'s hydro generating plant at Wellington Lake to Uranium City crosses the property. In a report in February, 1969, C.M. Trigg, Ph.D., P. Eng., advised, in his summary, that the property should be explored for uranium, copper, and silver. He said favorable lithological and structural conditions apparently were present and should be explored by airborne scintillometer, geochemical, ground scintillometer and visual prospecting methods. He advises an initial program to cost an estimated \$15,000. If mineral occurrences are found, then a program of geological mapping, detail geophysical surveys, trenching and diamond drilling may be required. This subsequent exploration, incl. 1,000 ft. of diamond drilling, would cost at least \$26,500.

The company estimates overhead costs and property acquisition will require approx. \$7,875. Should all the shares of the public offering not be sold, it will give priority to the Highland Valley program.

Robina Explorations has also acquired C.B.S. 2452, near Kalln Lake, Saskatchewan but does not propose any program on this prospect at this time.

IONARC SMELTERS LTD.

INTERIM FINANCING SECURED - Ionarc Smelters Ltd. has reported that \$345,000 has been borrowed from the bank to carry the company until negotiations for some \$2,000,000 new financing can be concluded. The second installment on the purchase of Humphreys Corp. was made 3Feb70 and the third is due 3Feb71, in the amount of \$200,000. The plant and plant site of Humphreys is owned by Arc Corporation which Ionarc has agreed to purchase with the closing date on the purchase set for 30June 70. If the financing is secured, the multi-purpose spheroidizing and zirconium plant will be in operation by May 1970.

The unaudited financial statements for the 12 months to 31Dec70 show sales of \$1,886,992, cost of sales \$1,243,792, administrative expenses \$554,537, interest expenses \$1,923, income taxes \$39,158 and net profit of \$47,582. A note to the financial statements shows: "All research and development costs have been capitalized including salaries of three senior employees who devote their time to research programs."

During the 12 months, the company raised \$1,420,678 by the sale of shares, spent \$978,236 to purchase Humphreys Corp., less stock and notes payable for a cash outflow of \$555,861 net. Other major expenditures were \$745,121 on deferred research and development costs, \$232,083 added to fixed assets. Working capital at 31Dec69 was \$28,356.

PARMAC MINES LTD.

REPORT REVIEWS FIRM - Parmac Mines Ltd. has issued a report which reviews the work to date on the highgrade Wigwam property near Revelstoke, B.C. The report states that a 1968 program of trenching, underground sampling and drilling indicated a large ore body. Work has established a continuous length of 4,800 feet, in beds from 6 to 150 feet thick. One hole cut 34 feet, grading 4.55 oz. silver, 3.48% lead, 3.45% zinc.

APPOINTMENT OF ATTORNEY:

Fidelity Mining Investments Ltd. did on 12Dec69, appoint H.C. Millhamor, alternatively, E.S. Thorne, of 1400-1030 W. Georgia St., Vancouver, as the company's attorney in place of W.J. Worrall in care of Shulman, Tupper, Worrall, Jonsson & Laxton, 404-510 W. Hastings St., Vancouver 2.

Ranger Oil (Canada) Limited did on 12Dec69, appoint R.N. Samson, of Crease & Company, 1070 Douglas St., Victoria, B.C., as the company's attorney in place of W.A. Woods, of 895 Fort St., Victoria.

Grand Duchess Mining Ltd. and Cro-Mur Mining and Exploration Co. Ltd. did on 19Nov69, appoint D.W.H. Creighton, barrister and solicitor, of 1030 W. Georgia St., Vancouver 5, as the company's attorney in place of Walter S. Owen, Q.C., barrister and solicitor, of 1060-505 Burrard St., Vancouver 1.

Calvert Gas & Oils Ltd. did on 12Nov69, appoint Marshall M. Soule, barrister and solicitor, of 1030 W. Georgia St., Vancouver 5, as the company's attorney in place of Walter S. Owen, Q.C., barrister and solicitor, of 1060-505 Burrard St., Vancouver 1.

AMALGAMATION OF COMPANIES:

Sunlite Oil Company Limited - By a 16May69 agreement, Del Norte Oil Ltd., an Alberta incorporation registered as an extra-provincial company within B.C., and Sunlite Oil Company Limited, an Alberta incorporation not registered as an extra-provincial company within B.C., were amalgamated as Sunlite Oil Company Limited.

AMENDED CERTIFICATE OF LIMITED PARTNERSHIP:

Noradco-Shield Joint Venture (Limited Partnership) - An amended certificate of limited partnership dated 20Oct69 has been made and certified in respect of certain amendments in the above limited partnership. The firm consists of Noradco Mines Ltd. and Minexco Corporation as general partners and Minbanco Corporation as special partner.

Noradco Mines Ltd. is a B.C. incorporated company with offices at 1019-409 Granville St., Vancouver; and Minexco Corporation and Minbanco Corporation are both Delaware incorporated companies, with offices at 595 Madison Avenue, New York, N.Y., 10022, U.S.A. Minbanco Corporation (through its predecessors as special partners) contributed \$278,239.10 U.S. to the capital of the partnership.

The copartnership commenced as a limited partnership on 1May68, and terminates on 1May75.

MERGERS:

Tesoro Petroleum Corporation - By a 31Dec68 merger agreement, TSO Corp., a Delaware corporation and Tesoro Petroleum Corporation, a California corporation, both registered as extra-provincial companies within B.C., were merged as TSO Corp. TSO Corp. changed its name to Tesoro Petroleum Corporation.

Monsanto Company - By a Apr69 merger agreement, Monsanto Company, a Delaware corporation, registered as an extra-provincial company within B.C., and Fisher Governor Company, an Iowa corporation, not registered as an extra-provincial company within B.C., were merged as Monsanto Company.

EXTRA-PROVINCIAL REGISTRATION:

Atlantic Richfield Canada Ltd. is a Canada incorporated company with head office at 650-727 Seventh Avenue Southwest, Calgary, Alberta. On 24Nov69, the company was registered as an extra-provincial company within B.C. with head office at 1403-1030 W. Georgia St., Vancouver. Paid-up capital of the company is \$116,500.

FOR THE RECORD

Datatech Systems Ltd. shares were suspended from trading on the Vancouver Stock Exchange on 12Jan70, pending clarification of company's affairs and a shareholders' meeting.

Norex Uranium Ltd. has reported that Yorkshire Securities Ltd. have firmly underwritten 300,000 treasury shares of the company at 25¢ per share, payable forthwith.

Magnum Consolidated Mining Co. Ltd. has advised the Vancouver Stock Exchange that, by a 23Feb67 agreement with Roy A. Martin, the company has issued 40,000 treasury shares in lieu of the payment of \$200,000.

MPG Investment Corporation Limited will pay a quarterly dividend of 32.5¢ per \$1.30 preferred share on 31Jan70, record 16Jan70.

Northern and Central Gas Corporation Ltd. will pay a dividend of 15¢ per common share on 1Mar70, record 13Feb70.

Field Stores Limited authorized capital has been increased from 2,250,000 to 3,500,000 common no par shares.

Western Exploration Company Limited and Ionare Smelters Ltd. shs. are no longer in primary distribution.

Robina Explorations Ltd. has received B.C. Securities Act registration covering the sale of 275,000 shares at 50¢ per share by 31Oct69 prospectus.

The Alberta Gas Trunk Line Company Limited has received B.C. Securities Act registration covering the sale of \$35,000,000 of 7½% Convertible Sinking Fund Debentures-Series 'I' by 6Jan70 prospectus. The debentures were underwritten by a Purchase Group managed by Tanner Bros. Limited and Dominion Securities Corporation Limited.

ZINC-American Zinc Institute, Inc. has reported U.S. stocks of zinc, including all primary and secondary zinc of standard grades, in short tons as follows: at smelter 31Dec69: 76,314; at smelter 30Nov69: 61,390; and stock elsewhere at 11,763 tons vs 10,150 tons.

Radio Hill Mines Co. Limited directors currently are: Gordon Lak, 905-26 Underhill Drive, Don Mills, Ont.; Mervin Lass, C.A., 801 Eglinton Ave. W. Toronto, 10, Ont., and S. Michael Gardner, Gardner Securities Corp., 15 William St., New York, N.W. 10005.

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MU. 3-7265

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\$140.00 PER YEAR  
NO. 279(1969)  
DECEMBER 19, 1969

*George Cross News Letter*  
*"Reliable Reporting"* *Loware below*

NO. 279(1969)  
DECEMBER 19, 1969

WESTERN CANADIAN INVESTMENTS  
UNITED PROVINCIAL INVESTMENTS LIMITED

*Darkhawk on page 2*

INCREASED EARNINGS - Ken Erwin, president of United Provincial Investments Limited, has FORECAST FOR YEAR reported that the company has had an exceptionally good second half to date. Earnings should more than double those of the first half of the year and are expected to produce approximately 35¢ per share.

Despite the governments counter-inflationary policies and the fact that a full fifty-percent of senior corporate officer's time has been spent on matters pertaining to getting the company listed as a public corporation, the company has proved, as will clearly be shown on the January 31, 1970 year end statement that it can show tremendous growth during difficult times.

He states prospects for the 1970-71 fiscal year are exceptionally encouraging. Further details will be given at the annual shareholder's meeting to be held in March.

IONARC SMELTERS LTD.

ADDITIONAL FINANCING UNDER CURRENT NEGOTIATION - PLANS AND PROGRESS OUTLINED IN CAREFUL PRESENTATION - Ionarc Smelters Ltd. annual meeting heard a careful, detailed interesting and enthusiastic report on the plans and progress from Merle L. Thorpe, vice-president and chief executive officer. What appeared to be the key to the presentation is the development over the past year of all of the ingredients for a outstandingly successful undertaking, all developed around the wide variety of products apparently capable of production by use of the Ionarc plasma furnace.

Mr. Thorpe explained that plasma is the fourth state of matter- solid-liquid-gas-plasma. Plasma is a gas heated to the point that the atoms are separated. The Ionarc process makes it possible to attain the plasma state in a number of materials that otherwise cannot be heated to this state. The molten state can be attained by way of the Ionarc process at about one fifth the cost of conventional methods. The Ionarc process makes possible the production of ultra high temperatures which can be used in a variety of ways.

The company as presently organized has four areas of activity; equipment sales, research and development on a contract basis, development of process and the facilities to apply the developed processes and material production. Mr. Thorpe went into some considerable detail on each of the phases of the company's activities. He spoke of the different types of equipment the company produces and holds patents upon, and the wide uses to which this equipment can be put. He spoke of the research and development work now underway with particular reference to the \$250,000 worth of work for NASA and the residual values that arise therefrom in employee knowledge. He spoke of the company's ability to develop processes and apply these processes to the development of the equipment to make these processes commercial.

As to personnel, Mr. Thorpe stated that there has been a major reorganization in the four or five companies which had been in the high temperature business in the past few years. The result of these reorganizations is that Ionarc now has all of the key people in the business in the U.S.A. He went into some detail on the ten senior people in the company where they came from and their experience. He stated that the company is well staffed in all phases from research to marketing and public relations.

An extensive program has been started to tell the story of Ionarc to the industry in the U.S.A. where process and products and possible products may be marketed.

The possibility of a contract, worth about \$1,000,000 in the first year, and a rapidly increasing amount in future years, with Xerox. He stated that Xerox is testing a new generation of machines, including a very high speed photo copier, which makes use of steel spheres made by use of the Ionarc plasma arc furnace. If it is satisfactory to Xerox, and the company expects to know in about six months, perhaps less, then the spheres made by the Ionarc process may be of use in other dry ink printing processes now being developed by a variety of companies.

There are a very wide variety of products which can be produced by use of the Ionarc process, in company with the highly skilled technical people within the company. The biggest problem for the company has been to determine which of these can be brought to the commercial stage the fastest to provide the cash flow to lever future developments.

The company now has two furnaces in operation or to be in operation in the next few months. At present, these furnaces are fed by hand permitting a production rate of about three tons per month. The scaling up of these furnaces is expected to be completed in May 1970 when production of some 400 lbs. per hour or 25 to 50 tons per month is anticipated. The production capacity is expected to be increased to the 250 ton range by the fall of 1970 and perhaps to the 1,000 tons per month range in 1971.

Mr. J.A. McLallen, president of Ionarc, told the meeting that the company recently completed some interim financing which provided \$351,000. Negotiations are being held on a daily basis towards securing the \$1,889,000 needed to carry the company through the current phase of development.

IONARC SMELTERS LTD.

EMPHASIS IS NOW ON TECHNOLOGICAL DEVELOPMENTS OFFERING EARLY RETURNS - In addition to the \$351,000 provided recently by an underwriting of 90,000 shs. of Ionarc Smelters' treasury stock, the company has negotiations in progress to arrange for an additional \$1,889,000, says J.A. McLallen, president, in submitting the second annual report covering the period from 18Jan67, the date of incorporation to 30June69. (See GCNL No. 266 and No. 274). The annual meeting is called for 2:30 p.m., 18Dec69, at Hotel Georgia, Vancouver.

In its lifetime of less than 2½ years, Ionarc, prior to the recent underwriting, had raised a total of \$1,722,501 by the issuance of 1,605,002 shares. (In the balance sheet this is shown at \$802,501 being the par value of the shares, which is 50% p/s, plus \$900,000 being the premium received in the aggregate in excess of par value for the shares sold for cash, and shown as "contributed surplus"). Ionarc issued 900,000 shs. for assets of a predecessor company and at 30June69 had issued also 415,000 shs. to Merle L. Thorpe as partial consideration for all of the outstanding shares of Humphreys Corp. This brought outstanding shares to 2,920,002 of the 5,000,000 authorized. Additional consideration for Humphreys Corp. was \$429,750 cash and \$429,750 in promissory notes. Of the promissory notes of \$214,875 each, without interest due 3Feb70 and 3Feb71, one half in the sum of \$214,875 is due within one year and included in current liabilities. Funds from sources other than sale of shares totalled \$44,165 incl. net earnings in the 6 months to 30June69 of \$27,821 making a total of \$1,766,665 available in the 2½ years.

Total cash outlay from inception of the company to 30June69, after allowing for \$88,764 acquired as Humphreys Corp. working capital; \$250,075 for deferred research and development; \$42,383 in fixed asset additions and other amounts of \$20,290, was \$888,609. Working capital at 30June69 was \$352,528, represented by \$981,947 in current assets and \$629 in current liabilities.

The president says Ionarc has an "unlimited" future potential and notes that new applications to the company's plasma arc systems continue to expand, mostly through the reaction of industry to Ionarc's successes to date. The year ahead, he adds, should be one of unprecedented development for the company.

Mr. McLellan draws attention also to the brochure issued recently (GCNL No. 212) outlining some of the new developments and covering the broad aspects of the high temperature technology field.

Ionarc estimates the facilities being constructed in Bow, New Hampshire, will be on stream by May, 1970. Tonnage samples of metal spheres, meeting rigid specifications, have been accepted by a large end user. A quotation has been tendered for a contract of 100 tons per month for delivery to start in 6 months from receipt of order. The original recommendation by consultants to build a plant in Vancouver was re-assessed in view of the acquisition of the Humphreys plant and in view of economic consideration.

Markets for spheres include: photocopy, flame spray powder metallurgy, magnetic tape, magnetic ink, ceramic and refractory industries. Tonnage quotations for these products range between \$1.00 and \$5.00 per lb. and management believes that the establishment of the company's production facility should open the door to meet industrial demands for a variety of metallic and non-metallic spheres which have not previously been available.

The report outlines the research in progress. Re-election of present directors is recommended by the company. They are as follows, with the number of shares held by each: J.A. McLallen, pres., 30,488; Merle L. Thorp, executive V;P/ 249,000; M.E. Davis, v.p. 35,500; J. Austin 2,500; R.M. Brown, 66,725; B.O. Brynelsen, 62,275; P.M. Reynolds, 16,037; I. Shulman, 9,447; J.E.R. Wood, 25,162.

FOR THE RECORD

Silver Duke Mines Ltd. has received B.C. Securities Act Registration covering sale of 250,000 shares at 50¢ per share by 31Oct69, prospectus.

Fort Steele Mines Ltd. has received B.C. Securities Act Registration covering 31Oct69, prospectus.

Croydon Mines Ltd. has reported that West Coast Securities Ltd. have exercised their option to purchase 100,000 shares of the company at 30¢ per share due 11Dec69.

An option covering 200,000 shares at 35¢ per share due 9Feb70, remains outstanding.

Brameda Resources Limited shares will be called for trading on the Mining Section of Vancouver Stock Exchange on 16Dec69. Of authorized capital of 10,000,000 no par common shs., 6,498,228 shs. are issued, including 3,024,000 shs. in escrow (280,000 shs. pooled to 24Dec69). Transfer agent is Canada Permanent Trust Company and ticker symbol is BMR. Glen Lake Silver Mines Limited has issued \$700,000 in principle amount of 8% Convertible Sinking Fund Debentures Series "A" together with 350,000 Warrants, both maturing 31Dec72. The Debenture will be secured by a first fixed and specific charge on all of the real and immovable property present and future of the company, and of the company's Hiho Silver Mines Limited.

The debentures will be convertible to 31Dec72, into shares of Glen Lake at the rate of one share for each 75¢ in principle amount. The warrants will entitle the holders to subscribe for one additional share for each warrant at 75¢ per share.

The debentures and warrants are being purchased on a pro rata basis for investment by the following companies: Consolidated Skeena Mines Ltd. - \$400,000 and 200,000 warrants; Consolidated Van-Tor Resources Ltd. - \$150,000 and 75,000 warrants; and Madrona Explorations Co. Ltd. - \$150,000 and 75,000 warrants.

LOCHIEL EXPLORATION LTD.  
(Formerly Mollusca Oils Limited)

MORE DETAILS PROVIDED CONCERNING - Various interests of Lochiel Exploration Ltd. were  
HOLDINGS AND DEVELOPMENT AGREEMENTS outlined in GCNL No. 233. Under date of 5Dec69, the  
company has issued additional information including  
the terms under which Citizens Pipeline Limited, wholly owned by Lochiel, has optioned oil  
and gas rights to over 2 million acres in Sverdrup Basin to King Resources Ltd. Called for  
is a cash payment by King and a commitment by King to perform the exploration required to  
satisfy the govt. requirements for 2 years. King can extend its option for 2 more years by  
carrying out further work commitments and making further cash payments to Lochiel. At  
any time after the initial 3-yr. period, King can acquire a 100% working interest in all or  
part of the properties, by making a cash payment to Lochiel on all or part of the acreage.  
After the exercising of the option by King, Lochiel would still retain a 3% gross overriding  
royalty that may be convertible to 12% carried working int. If King exercises all options  
and makes all payments in course of the 5-yr. program, total cash payable to Lochiel would  
approximate \$8 million.

Through Lochiel's 17% interest in Petromines Ltd., Lochiel participates in ownership  
of additional oil and gas rights to 1,000,000 acres which are 100% owned by Petromines.  
N.W. Taylor, Lochiel president, says also that, in Beaufort Sea region, Lochiel, through  
Citizens, owns a 3% overriding royalty on 685,943 acres which are being explored by H.L. Hunt  
Co., Texas.

Lochiel owns 10% in 529,530 acres on Devon Island on the Arctic foreland outside the  
Sverdrup Basin. In this connection, Mr. Taylor says King Resources announced recently it had  
negotiated a farmout from Pan Arctic on east Bathurst Island which is the island immediately  
west of this acreage.

The current Lochiel report details also that company's holdings in Baker Lake area,  
Hudson Bay; Athabasca where an airborne radiometric survey and surface geological work this  
summer obtained no encouraging results; West Coast, where although Shell Oil moved out of  
the area last spring, Union Oil has recently filed on 1.2 million acres in Queen Charlotte  
Islands; Lake Erie; Atlee-Buffalo; Wainwright; Adriatic Sea.

The current report says Lochiel is making arrangements to employ technical personnel  
to provide the expertise required to effect development agts. with new domestic and foreign  
investors.

IONARC SMELTERS LTD.

INITIAL PROFIT REPORTED - Estimated net proceeds of \$351,000 from an underwriting of 90,000  
FOLLOWING ACQUISITIONS Ionarc shs. at \$3.90 p/s (GCNL No. 266) will form part of the com-  
pany's general working capital. The funds will be used primarily  
for research and development. In a statement to VSE, Ionarc outlines its proposed cash  
requirements for the period 1Nov69 to 1Jan71 at \$2,240,000 of which the \$351,000 from the  
new underwriting will form a part. This includes \$376,000 for the last 2 months of 1969;  
\$1,133,000 for the 6 months to 30June70 and \$731,000 for the 6 months to 1Jan71. The statement  
adds that Ionarc is negotiating with a private B.C. investment firm to arrange the balance  
required for this program. Results of negotiations should be known within 60 days. The statement  
adds: During 1970, Ionarc anticipates continued expansion of the Humphreys equipment sales oper-  
ation and additional research and development work for NASA. It also proposes to continue to ex-  
pand its research and develop. with respect to utilization of its ultra-high temperature por-  
cesses and apparatus. In particular, a multi purpose spheroidizing and zirconium oxide production  
plant under construction at the Humphreys facilities at Bow, New Hampshire, estimated to be com-  
plete by May1970, will produce tonnage quantities of a variety of spheres for industry.  
Prior to the new underwriting by Richardson Securities Ltd. by agt. 26Nov69, Ionarc had issued  
2,920,002 of its 5,000,000 ordinary shares. In the 10 months to 31Oct69, Ionarc had issued  
635,000 shs. as fol.: 200,000 for \$1,000,000 net cash; 20,000 shs. for \$10,000 net cash under an  
agt. of 22Nov68, now complete; and 415,000 shs. as partial consideration for the acquisition of  
Humphreys Corp. The company also received in this 10-month period, \$69,678 being the unpaid bal-  
ance on 146,689 shs. issued in 1968 to employees under a directors' resolution on 28Feb68.

Net cash from all sources received in the 10 months was \$1,125,721. Cash disbursement incl-  
uded \$555,861 as part consideration for Humphreys Corp. after deducting from the required cash  
consideration of \$1,067,000, the \$88,764 working capital acquired in this deal and after  
deducting also \$422,375 representing other consideration acquired in the same transaction.  
Working capital at start of the period was \$107,294 and working capital deficiency at end of the  
period was \$26,481, represented by \$766,674 in current assets and \$793,155 in current liab.

Prepared without audit, the statement, which consolidates with the parent company  
Ultrabasic Minerals Limited, 50.4% owned, and Humphreys, 100% owned, shows sales in the 10 months  
at \$1,497,475; cost of sales \$1,009,200 leaving gross profit of \$488,275 less \$435,223 for  
selling, general and administrative expenses a net of \$53,052, to which was added \$3,007 other  
income and from which was deducted \$20,224 for income taxes, leaving net earnings of \$35,835  
which is the total of retained earnings to that date. It is noted that inter-company sales  
of approx. \$250,000 had not been eliminated on consolidation, the profit relating thereto,  
being considered to be immaterial. Ionarc has 3 promissory notes outstanding which have  
an aggregate principal value of \$429,750, as part of the purchase price for acquisition of  
the outstanding shares of Humphreys Corp. (Reference: GCNL No. 266, 212, 195, 179 and 151(1969)).

# George Cross News Letter

"Reliable Reporting"

NO. 266(1969)  
DECEMBER 4, 1969

WESTERN CANADIAN INVESTMENTS

DAVIS-KEAYS MINING CO. LTD.

DEC - 5 1969

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\$140.00 PER YEAR

NO. 266(1969)  
DECEMBER 4, 1969

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✓ P.M.K.  
✓ R.S.  
✓ B.C.R.  
✓ I.S.  
✓ C.M.L.  
✓ M.K.

NEW ORE RESERVE CALCULATIONS INCREASE TONS - A new ore reserves calculation has been reported by Davis-Keays Mining Co. Ltd., vice-president J.F. McIntyre, P.Eng. The ore reserves are based on results to 15 Oct 69. The property is located 80 miles west of Fort Nelson, B.C., and 15 miles south west of the Churchill Mine of Brameda Resources. These new reserves reflect large amounts of ore previously quoted as possible or inferred now showing in the proven and probable categories. Another significant change is that the grade of inferred ore is much higher than previously indicated, he stated.

Category	Tons	% Copper
Proven	378,450	5.31%
Probable	382,381	5.58%
Possible	882,967	5.60%
Inferred	517,252	5.03%
Total	2,101,050	

During the two weeks to 15 Dec 69, the program will be accelerated including a much expanded underground diamond drilling program and the driving of raises from 6900 level. A new crosscut is being prepared on 5800 level from which point drifting will commence and deep diamond drilling to test the vein below this horizon. It is now expected that, by the end of January, 1970, ore reserves in the proven and probable categories will be sufficient to enable making the feasibility decision.

Mr. McIntyre reviews recent property work as follows: The 6900 foot level on the Eagle Vein has been completed to daylight on the other side of the mountain. The vein persisted throughout the 2200 feet of drift with only one small dislocation by faulting. This degree of persistence is most unusual and one cannot conclude otherwise but that this is a most remarkable ore structure.

On the 6400 foot level, the Eagle Vein was entered beneath the Mike showing by means of a crosscut. From the point where the crosscut intersected the vein, drifts were driven to the north (beneath the 69 and 73 drifts) and to the south. In both directions, excellent ore has been found. At present, the south drift has been stopped temporarily and work is being concentrated on the north heading. Again only one fault has been encountered on 64 level, the same one previously found in the 69 drift. So far assays and widths are available for a total length of only 939 feet and again the degree of persistence of the ore structure is remarkable.

Earlier work on 7300 foot level was found to have taken place on a vein originally thought to be the Eagle Vein and which showed insufficient width and grade. Subsequent diamond drilling revealed that this vein was a subsidiary structure parallel to and about 125 feet east of the Eagle Vein. This drill-hole intersected the Eagle Vein 350 feet in from the face of the mountain finding a grade at that point of 12.10% copper over a 4 foot width. On this information, a crosscut was driven intersecting the vein at 410 feet in. From this point, drifting to the north is underway and the vein is found to be persistent and yielding excellent ore.

During the summer, a mine dry was constructed along with additional portal buildings and a second bunkhouse. Currently, the original bunkhouse is being extended and a field office-first aid building is partially complete. All of these are permanent buildings, designed to fit into the ultimate production plant. Accommodation for a crew of ninety men will be completed by year end.

BRALORNE OIL & GAS LIMITED

CHEMCELL LIMITED

INVESTMENT AGREEMENT NOW FORMAL - The agreement between Chemcell Limited and Bralorne Oil & Gas Limited, reported as an agreement in principle last month, has now been signed by both parties. As a result Chemcell expects to invest over \$10,000,000 in oil and gas properties over the next five years with BO&G acting as manager for those investments. BO&G, in addition to earning fees and working interest for managing Chemcell funds, will also participate directly with Chemcell in the exploration and acquisition of petroleum properties. The arrangement also entitles Chemcell to invest a further \$5,000,000 to \$6,000,000 in treasury shares of BO&G, sufficient to give it a controlling interest in BO&G by the end of 1974. Chemcell, a leading manufacturer of chemicals, synthetic fibres, fabrics and carpets, used the arrangement as a first step in long-term diversification plans. BO&G which is actively engaged in oil and gas exploration and development in Western Canada, expects the agreement to enable it to significantly diversify its exploration programs in the future.

FOR THE RECORD

Ionarc Smelters Ltd. has received an underwriting from Richardson Securities of Canada covering 90,000 shares at \$3.90 per share. Ionarc will receive \$351,000 as proceeds.

Montana Mines Ltd. has reported the acquisition by staking of 46 claims in the Casino and Canadian Cree s area, 150 miles northwest of Whitehorse, Yukon. The claims adjoin on two sides the property currently being drilled by Casino Silver Mines Ltd. under an exploration agreement whereby the funds are provided by Brameda Resources Ltd. Montana Mines has crews in the Whitehorse area staking additional blocks of claims.

FOR THE RECORD

Hogan Mines Ltd. has reported Great Plains Development Ltd. of Calgary has confirmed its intention to spend an additional \$50,000 on Hogan Mines Ltd. Kwanika Creek, B.C., prospect during 1970. Results obtained on this property from three diamond drill holes this year were encouraging. The property is located near the Pacific Great Eastern Railway's new extension out of Fort St. James, now under construction.

Benson Mines Ltd. has reported that West Coast Securities Ltd. have exercised their options to purchase 100,000 shares of the company at 50¢ per share due 21Nov69, and on 100,000 shares at 60¢ per share due 19Feb70, pursuant to a 15Sep69, agreement. No options remain outstanding and the agreement has now terminated.

The Vancouver Stock Exchange has been advised that the shares of Benson Mines are no longer in primary distribution.

Norcan Mines Ltd. has reported that, by 12Nov69 agreement, Continental Securities Corporation Ltd., acting on behalf of clients as to 50% each, have firmly underwritten 200,000 treasury shares of the company at 35¢ per share, payable forthwith.

The Vancouver Stock Exchange has been advised that the shares of Norcan Mines are no longer in primary distribution.

IONARC SMELTERS LTD.

NEW HAMPSHIRE PLANT NOW UNDER CONSTRUCTION - Ionarc Smelters Ltd. has reported a multi-purpose spheroidizing and zirconium oxide production plant, using its unique proprietary process, is now under construction at its facilities at Bow, New Hampshire. The company estimates that the plant will be on stream by May of 1970. The recommended Vancouver, B.C., plant will not be built at this time.

Tonnage samples of metal spheres, meeting rigid specifications, have been accepted by a large end user. A quotation has been tendered for a contract of 100 tons per month for delivery to start in six months and interim deliveries of 2,000 lb. sample lots per month will start in December.

Markets for spheres include: photocopy, flame spray, powder metallurgy, ceramic and refractory industries. Tonnage quotations for these products range between \$1.00 and \$2.00 per lb. and management believes that the establishment of the company's production facility should open the door to meet industrial demands for a variety of spheroidized materials which have not previously been available.

Research, development and marketing is being aggressively pursued in all fields of endeavour.

ATLAS EXPLORATIONS LIMITEDDYNASTY EXPLORATIONS LTD.

CASINO CLAIMS REPORTED - Atlas Explorations, in joint venture with Dynasty Explorations, has staked 470 mineral claims in the Casino Area of Yukon Territory. Exploration expenditures totalling \$110,000 have produced encouraging results from a program of geochemical, geophysical and geologic surveys. Four target areas have been defined in coincidence with favourable Tertiary intrusive rocks.

The four target areas, are located to the northwest of the Casino property, along strike of complex granitic rocks similar to those at Casino.

The joint venture, named the Victor Project, has budgeted expenditures of \$300,000 for the 1970 season.

BENSON MINES LTD.CANADIAN BARRANCA MINES LIMITED

TEST WORK ON MEXICAN SILVER PROPERTY GIVES ENCOURAGING RESULTS - Benson Mines Ltd. and Canadian Barranca Mines Limited share equally in a 49% interest in the Palmarito Silver mine, located ten miles northeast of Guamuchil, in the northern part of the state of Sinaloa, Mexico. This property interest was acquired from The Patino Mining Corp. A recent report on the property by B.C. Macdonald, P.Eng., discloses that 345 channel samples over 1,100 feet of the indicated length of 1,900 feet of the mineral bearing siliceous breccia zone gave an average grade of 6.81 ozs. silver; 0.017 ozs. gold, 1.23% lead for a horizontal width of 21.4 feet. Zinc and copper values have yet to be run.

The report states that approximately 1,000,000 tons of this material remains unmined from the earlier operations. It is indicated that the mineralization was likely sub-commercial when silver was 60¢ per ounce. The engineer also states that this sampling represents only the footwall portion of the zone and, when the full width is tested, widths could be doubled with an increase in grade. He also points out that the ore mine in previous operations was two to three times the grade indicated in the sampling and that testing for this type of material, both below the present floor of the old pit area and along the possible lateral extensions, is justified.

One hole drilled to test this zone at the north end cut 36.5 feet grading 8.72 ozs. silver, 0.02 ozs. gold, 1.10% lead. This represents a horizontal width of about 42 feet, or double that shown in the adit sampling. A deeper hole to test the zone below the floor of the old pit entered mineralization at a depth of 98 feet and was still in mineralization at 131 feet. Additional drilling is underway to further test this depth extension.

Sampling of old tailing dumps is now underway with the indication that the estimated 200,000 tons on the dumps may average 8 oz. silver and 2.5% lead. Results are considered encouraging and work is continuing. (See GCNL No. 211, 25Sept69, page 4)

SEP 29 1969

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SUITE 203  
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MU. 3-7265

# George Cross News Letter

"Reliable Reporting"

WESTERN CANADIAN INVESTMENTS  
IONARC SMELTERS LTD.

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SUBSCRIPTION RATE  
\$140.00 PER YEAR

NO 3 212(1969) S.M.H.  
SEPTEMBER 26, 1969

NO. 212(1969)  
SEPTEMBER 26, 1969

**BREAKTHROUGH IN TECHNOLOGY OPENS WAY FOR OPPORTUNITIES FOR PROFIT** - Ionarc Smelters Ltd. has issued a brochure defining its aims and activities. In summary, this company, which specializes in advanced high temperature technology, says that "through its continued advancement of this technology it expects to supply the know-how, the equipment and the new materials required by the sophisticated industries of today and tomorrow."

Initiated and managed by principals closely identified with various aspects of successful mining and metallurgical operations chiefly in British Columbia and in United States, Ionarc has executive offices at 1111 West Hastings, Vancouver and its east coast laboratories and offices at Bow, New Hampshire. Consultants include Hazen Research, Inc. of Golden, Colorado and Wright Engineers Limited, Vancouver. Ionarc is a B.C. company. Shares are listed on VSE.

The board of directors is headed by J.A. McLallen of Vancouver as president. M.L.Thorpe, executive v-p and director is chief executive officer and is an internationally known authority on arc and plasma technologies. Mervin E. Davis of Vancouver is vice-president. Other directors are Jacob Austin, Ralph M.Brown, Bernard Brynelsen, Patrick M.Reynolds, I.Shulman and John E.R.Wood.

Three of the 15 officers and key personnel have been designated vice-president. These are: L.W. Scammon, V.P. engineering, active in plasma technology for the past 10 years; Raymond F.Unger, general manager of Humphreys Corporation's commercial and industrial refrigeration business; and J.W. Winzeler, experienced in the carbon arc and plasma fields.

Other officers are: R.Bainbridge, senior project engineer; F.L.Croteau, project manager; Lauch F.Farris, sec. treas.; Dr. P.H. Dundas, manager process development; Roy Ellerman, manager, metallurgical operations; Dr. C.L.Grant, director of research; K.W.Harrington, senior development engineer; J.W.Poole, senior project engineer; Harry C.Royce, Jr., engineer experienced in the field of high temperature vacuum and atmosphere furnaces; R.Unger, marketing manager; C.E.Vogel, manager contract development; Dr. P.H. Wilks, senior project engineer.

The current brochure deals with the segment of Ionarc Smelters Ltd. which specializes in advanced high temperature technology-the design, production and sale of equipment for ultra-high temperature applications, and the development and exploitation of proprietary processes. It explains that a major breakthrough in high temperature processing techniques, which provides for more rapid and efficient transfer of energy into solid materials and the super heating of reactive gases, places the company in position to produce modern specialized materials at favorable prices. Ionarc is an established company with recognized scientific proficiency and technical competence integrated with another group of experts stated to have the creative vision and the financial insight to exploit the potentialities of their modern technology.

Humphreys Corporation, oldest segment of Ionarc, was established in 1929 and in 1961 entered the field of new technologies with formation of its TAFE division, becoming an early pioneer in development of modern plasma(arc heated gas)torches and processes. The early experiences of Ionarc was in the application of ultra-high temperature techniques to the field of extractive metallurgy. The Ionarc process, regarded as a major breakthrough in thermal efficiency, is now developed into a workable process with many new areas beginning to be exploited.

The brochure gives brief summaries of its activities under the following headings: The Ionarc Process, The TAFE-Arc Process, technologies, applications, product line, company objectives and financial planning.

A partial list of customers includes leading chemical, steel, metallurgical, electric, paper, space science, glass works, smelting, instrument, research, atomic concerns, 7 U.S.A. defence agencies and 11 universities.

New financing by Ionarc is in the final stages of negotiation.

## ALWIN MINING COMPANY LTD.

**TERMINATION OF FINANCING DEAL CARRIES IMPLICATION THAT CONCERN B.C. SMELTER**

Harold E.Jacques, president of Alwin Mining Company Ltd., reports that a financing agreement to develop Alwin's copper property in the Highland Valley, B.C., originally signed with Nippon Mining Company of Japan, and later assigned by Nippon to the Brynelsen Group's Combined Capital Resources Ltd. (CCR), was terminated as of 24Sep69, at the request of Alwin board of directors for reasons stated below.

He states, "Termination of the agreement carried with it simultaneous termination of all rights previously held by Nippon Mining Company, including purchase of Alwin's copper ore concentrates for 10 years. This complete termination is in accordance with terms of the \$690,000 exploration financing agreement signed by Alwin and Nippon on 18Jan69.

(CONTINUED ON PAGE TWO)



RECO SILVER MINES LTD.

DEVELOPMENT OF TONNAGE BLOCKS - Exploration on the Slocan silver-lead-zinc property of  
 NEXT PHASE OF RECOMMENDED WORK Reco Silver Mines Ltd. has advanced to the point that the  
 next phase of work is the development of ore blocks to  
 provide production decision data.

The \$80,000 provided by way of an underwriting by S.H.Lennard & Co. Ltd. to Reco Silver Mines Ltd. in early June of this year has been used in the successful exploration of the 68 claims held by the company and located 10 miles east of Sandon, B.C., about 60 miles north of Nelson and about 100 miles north of the Cominco Ltd. smelter at Trail. The exploration has been successful in that the company engineer W.S.Ellis, P.Eng., states that the next phase of work will provide for the blocking out of ore on the Chamber vein and in the No. 1 mine.

Work so far this season has been carried out on three vein structures, the New Discovery, the Chamber and the Purcell. The Purcell has yielded results which warrant continued exploration efforts in the form of advancing some of the old underground workings as well as surface trenching and drilling. Two veins were explored for some distance in the New Discovery area but neither developed.

Chamber vein exploration has included new exploration of a long known mineralized zone with a length in excess of 1,000 feet. The work has included trenching and sampling of a recently discovered highgrade outcrop where exposed by high water in a creek.

The outcrop has been uncovered for 70 feet and channel sampled with the following results:

<u>DISTANCE</u>	<u>WIDTH</u>	<u>OZ.</u> <u>SILVER</u>	<u>%</u> <u>LEAD</u>	<u>%</u> <u>ZINC</u>	<u>DISTANCE</u>	<u>WIDTH</u>	<u>OZ.</u> <u>SILVER</u>	<u>%</u> <u>LEAD</u>	<u>%</u> <u>ZINC</u>
Zero in Creek	1.8 ft.	16.30 oz.	36.25%	9.50%	41 ft.	1.25 ft.	28.82 oz.	26.82%	2.30%
6 ft.	2.0 "	24.85 "	32.70%	11.35%	46 "	2.80 "	2.50 "	0.93%	0.85%
12 "	0.9 "	2.95 "	6.00%	1.27%	51 "	2.75 "	38.58 "	21.33%	1.34%
18 "	1.9 "	3.70 "	2.67%	TR	52 "	1.75 "	59.16 "	29.88%	6.64%
24 "	1.8 "	9.35 "	18.50%	3.50%	55 "	2.0 "	24.5 "	14.31%	2.54%
30 "	1.5 "	14.85 "	33.10%	10.25%	61 "	1.9 "	51.4 "	36.61%	4.37%
36 "	0.9 "	3.80 "	11.87%	TR	66 "	2.0 "	34.6 "	26.88%	3.21%
					71 "	1.2 "	20.2 "	10.87%	1.04%

About 180 feet from the southwest end of the outcrop, there is an old working described in an old Government report as a crosscut for 55 feet where it enters a lode carrying disseminations, pockets and small stringers chiefly of galena. A diamond drill hole driven from a location about midway between the end of the old underground working and the end of the surface showing has cut two feet of "mill-feed" and some one and one-half feet of disseminated galena. Drilling is continuing to explore the mineralized zone and at the same time the old adit level is being cleaned out and will be advanced to below the surface outcrop. Assay results from this work are expected soon including further surface sampling and the drill assays.

In addition to the above work, the program this season has included road building, camp and building rehabilitation, general prospecting and geological mapping.

The next phase of work is budgetted at \$100,000 with \$18,000 for new mining equipment, \$37,000 for underground work on the Chambers, \$10,000 on the Purcell and the balance for general overhead and working capital.

Directors of Reco Silver Mines Ltd. are: S.E.Cropper, president; R.W.Long, vice-president; and S.D.McLeod, treasurer. Of the 5,000,000 shares authorized, 2,070,561 shares are currently issued.

The claims being explored and developed by Reco are former Slocan producing mines with total past production values estimated in excess of \$9,000,000.

FOR THE RECORD

Centex Mines Ltd. shares were posted for trading on the Vancouver Stock Exchange, interim board on Sept.2,1969. Of the 3,000,000 shares authorized,1,281,636 shares are issued including 750,000 shares in escrow. National Trust Company is the transfer agent and CXLX is the ticker symbol.

Jason Explorers Ltd. has reported that S.H.Lennard & Company Ltd. have cancelled the Aug.28, 1969 option covering 100,000 shares at \$1.75 per share. There are no further options now outstanding.

Dusty Mac Mines Ltd. has had 476,995 shares released from pool by the B.C.Superintendent of brokers.

Austin Investment Corporation Ltd. has had 15% of the shares originally placed in escrow released by the Vancouver Stock Exchange.

Ionarc Smelters Ltd. shares are no longer in primary distribution.

Northcal Mines Limited has reported termination of the June 8,1967, agreement with Helicon Explorations Limited whereby they acquired an option to purchase La Purisima Mining Concession, covering 55 hectares, in Chihuahua State, Mexico.

Giant Mascot Mines Limited has reported that the 95<sup>th</sup> shipment of nickel-copper concentrates from the nickel mine near Hope,B.C.,went forward Aug.26,1969, totalling 2,313 short wet tons, averaging 10% nickel and 6.0% copper. The shipment has a gross value of \$426,990. Since shipments to Japan started in May 1960, the company has shipped a total of 199,590 tons of concentrates with a gross value of \$25,058,781 U.S. funds.

B.C. COMPANIES ACTNEW INCORPORATIONS:

Blue Earth Mines Ltd.-16Jul69, registered office is 1710-1177 W.Hastings St., Vancouver, and authorized capital is 3,000,000 shares of 50¢ par value.

Charta Mines Ltd.-28Jul69, registered office is 510-890 W.Pender St., Vancouver, and authorized capital is 3,000,000 shares of 50¢ par value.

Pistol Bay Mining Company Ltd.-28Jul69, registered office is 220-890 W.Pender St., Vancouver, and authorized capital is 3,000,000 shares of no par value.

Quintana Resources (B.C.) Limited-16Jul69, registered office is 1215, Two Bentall Centre, 555 Burrard St., Vanc.1, and auth.cap. of 10,000 shares of \$1.00 par value.

Zurex Explorations Ltd.-22Jul69, registered office is 1524-925 W.Georgia St., Vancouver, and authorized capital is 2,000,000 shares of 50¢ par value.

EXTRA-PROVINCIAL REGISTRATIONS:

Anco Exploration Ltd. is an Alberta incorporated company with head office at 6th Floor, 407 Eighth Avenue Southwest, Calgary 2, Alberta. On 29Jul69, the company was registered as an extra-provincial company within B.C. with head office at 6th Floor, 1070 Douglas St., Victoria, B.C. Paid-up capital of the company is \$75,000.

Cro-Mur Mining and Exploration Co. Ltd. is an Alberta incorporated company with head office at 300-444 Seventh Avenue Southwest, Calgary 2, Alberta.

On 17Jul69, the company was registered as an extra-provincial co. within B.C. with hd.office at 15th Floor, 1030 West Georgia St., Vancouver. Paid-up capital of the company is \$100.00.

Ulster Petroleum Ltd. is an Alberta incorporated company with head office at 203-309 Seventh Avenue Southwest, Calgary, Alberta. On 18Jul69, the company was registered as an extra-provincial company within B.C. with head office at 1508-510 W.Hastings St., Vancouver 2. Paid-up capital of the company is \$4,667,150.

CHANGE OF NAME:

Can-American Petroleum Ltd. did on 20Jun69 change its name to Can-American Natural Resources Ltd.

Paragon Developments Ltd. did on 24Jul69 change its name to Ensign Developments Ltd.

WINDING UP:

Pacific Rim Mines Ltd. has reported that by special resolution of 28Jul69, the company resolved to wind up voluntarily and appointed as liquidator, John F.

Morgan, chartered accountant, of 846 W.Hastings St., Vancouver. A meeting of the company's creditors will be held 15Aug69, at 10:00 a.m., at 1462-1075 W.Georgia St., Vancouver 5.

CONVERSION TO LIMITED COMPANY

Northwest Ventures Ltd.(N.P.L.) was on 10Jul69, converted from a specially limited company into a limited company with the name of Northwest Ventures Ltd.

Ionarc Smelters Ltd.(N.P.L.) was on 18Jul69, converted from a specially limited company into a limited company with the name of Ionarc Smelters Ltd.

Can-American Petroleum Ltd.(N.P.L.) was on 20Jun69, converted from a specially limited company into a limited company with the name of Can-American Petroleum Ltd.

FOR THE RECORD

Moly-Win Mining Ltd. advised VSE in its application for an Interim Listing of its shares which became effective late in July (GCNL NO.168) that from incorporation 9Aug66 to 2May69, it had sold 677,345 shs. to net \$136,535 after \$12,450 for commission. Incl. 750 escrowed vendors' shs., there were 1,427,345 issued of the 3,000,000 authorized. This season, the company plans to implement recommendations of H.D.Forman, P.Eng., in his report of 70Oct68 for exploration of its optioned Cris Group, 12 miles east of Burton, B.C. Option terms call for payment of \$17,500 of which \$2,700 has been paid with the balance payable on specified dates with final instalment 9Apr72. Should the property enter commercial production, 10% of net smelter returns are payable to the vendor Leonard Root until a maximum of \$750,000 has been paid. The option payments have been terminated pending the outcome of an investigation by the Mines Department of infractions of the location provisions of the B.C. Mineral Act which the company's engineers have advised appear apparent. The vendor was acting for the Silver Mountain Syndicate of Osoyoos, B.C.

Property interests in Yukon are: Moly-Win Doug Group, acquired outright for \$800 from J.P.Humme; Moly Win Jersey Doug Group owned 50-50 with Jersey Consolidated Mines Ltd. The 50% interest was acquired by payment to Jersey Consolidated of \$2,000 and the transfer to Jersey Consolidated of a 50% interest in Doug 73-80 including, which claims prior to the transaction were owned outright by Moly-Win Mining Ltd. Also, held by Moly-Win Mining Ltd. is a 20% interest in the Moly-Win Share Group under terms of a Syndicate Agreement with Quatsino Copper-Gold Mines Ltd., New Privateer Mine Ltd., Gaylord Mines Ltd. and Jersey Consolidated, providing for joint exploration as advised by P.E.Walcott, P.Eng. Several sites have been cleared for diamond drilling and the program was reported to be proceeding. These properties are all in the Whitehorse Mining Division. Further work on all the groups other than the Moly-Win Share group has been deferred pending the outcome of the joint program on the Share Group.

Moly-Win advised that previously held "Bridesville" and "Hazel" claim groups in Yukon were dropped on advice of the company's engineers.

Johnston Terminals & Storage Ltd. will pay a dividend of 15¢ per First Preferred and 12½¢ per Second Preferred share, both on 15Sept., record 2Sept.69.

Swim Lake Mines Ltd. has reported that 334,918 shs. of the company have been released from pool by the Superintendent of Brokers.

Hanna Gold Mines Ltd. has reported that West Coast Securities Ltd. have firmly underwritten 100,000 treasury shares of the company at 70¢ per share, payable forthwith.

Hearne Coppermine Explorations Limited has reported that 29,400 shares of the company have been cancelled and were surrendered to the company by

VANCOUVER STOCK EXCHANGE - SHORT POSITION REPORT

(June 30, 1969)

Abitibi Paper	200	Churchill Copp	1,800	Imperial Metal	1,000	San Doh Mines	1,500
Ace Mining	22,200	Coast Copper	200	Interprov Silv	200	Sherritt Gordn	600
Adera Mining	400	Coast Silver	4,300	Kimberley Copp	100	Silver Arro Ex	8,300
Aetna Inv. Corp.	200	Condor Mines	1,000	Largo Mines	6,300	Silver Butte M	3,000
Alice Lake	7,500	Cons Rexspar	500	Lornex Mining	1,500	Silver City M	600
Allied Roxana	11,000	Cons Skeena M	1,500	Magnum Cons M	2,000	Silver Standrd	3,200
Alwin Mining	300	Cons Van-Tor	4,000	Midland Pet	36,500	Spooner Mines	1,200
Anuk River M	12,700	Copper Ridge M	8,500	Mid-West Mns	2,000	Stampede Oils	1,100
Arctic Gold M	12,900	Davis Keays M	1,500	Minex Dev	1,000	Stannex Mineral	800
Arlington Silv	1,000	Driver Develop	200	Mistango R Mine	500	Sunlite Oil	150
Austin Inv Corp	900	Early Bird M	2,000	Moly mine Expl	9,000	Taylor(Bridge)	8,000
Boswell River	5,300	EDP Data Cent	100	Nadina Expl	1,900	Texore Mns	500
Brenda Mines	2,100	Endako Mines	100	National Nick	3,900	Trans Cda Res	200
Buffalo Lake M	1,000	Fields Stores	300	New Imperial M	2,200	Trojan Cons M	1,700
Buttle Lake M	1,600	Gibraltar M	15,000	Northlode Expl	4,000	Utd Bata Res	1,100
Canusa Mines	5,500	Giant Mascot M	100	Northwest Vent	5,000	Utica Mines	12,200
Canzac Mines	1,000	Granduc Mines	200	Pacific Asbest	2,500	Vananda Expl	2,000
Capri Mining	55,600	Hart River M	1,000	Pacific Silver	500	Venus Mines	2,500
Captain Int Ind.	100	Hearne Copperm	200	PCE Expl	1,500	Ventures Min	700
Cariboo Gold	1,000	Highmont Mng	6,500	Peel Resources	4,000	Western Expl	1,000
Casino Silver	1,500	Home Oil "A"	50	Peso Silver M	4,300		
Chataway Expl	100	Hudson Bay Mt S	1,000	Royal Cdn Vent	900		

IONARC SMELTERS LTD.

SCOPE OF FIRM'S - At their extraordinary general meeting on 7 July 69, shareholders of Ionarc Smelters Ltd. approved resolutions amending its Articles of Association which had been increased by share holders suited to a mining exploration company so that they better suited its research in the field of ultra-high temperature processing, and the development and commercial application of pertinent processes and equipment including furnaces. These changes are expected to facilitate the full listing of its shares on stock exchanges, and its financing.

T.A. MacLallen, president, noted that the company had a letter of intent from Richardson Securities of Canada to underwrite 500,000 shares at \$10.00 or if at issue time the market for the currently issued shares were significantly less, then at some price nearer that market. He said Richardson's plan to register such an issue in all provinces except Newfoundland.

Mr. MacLallen said much of the research and development facilities has been shifted to the new 30,000 square foot plant, and more important, several highly talented and qualified scientists have been engaged in New Hampshire.

Mr. MacLallen mentioned that the Apollo spacecraft will carry items made by the subsidiary, Humphrey Corporation, and that that company's order book for laboratory research equipment is full. The company has been awarded a \$250,000 research grant from the U.S. government space agency as stated in GCNL No. 144 and 142.

DAVIS-KEAYS MINING CO. LTD.

ASSAY RESULTS FROM - Davis-Keays Mining Co. Ltd. has reported the following assay results. UNDERGROUND SHOW Face sampling from 956 feet to 1025 feet along the drift, a length of GOOD GRADE AND WIDTH 69 feet over an average width of 4.0 feet, 2.52% copper and from 1025 feet to 1083 feet along the drift, a length of 58 feet, over an average width of 7.3 feet, 8.65% copper.

Further assay results obtained from sampling and drilling in the 6950 drift in the Eagle Vein will be announced as received by the company. (See GCNL NO.139, page 3, 24 June 69).

FOR THE RECORD

Copper Ridge Mines Ltd. has advised the Vancouver Stock Exchange that the shares of the company are no longer in primary distribution.

Lead-Zinc Prices (Cominco) Ltd. The monthly averages of Cominco's Canadian metal prices for June are as follows:

	June 1969	May 1969	June 1968
Lead	15.333 ¢/lb.	15.000 ¢/lb.	13.000 ¢/lb.
Prime Western Zinc	14.500 ¢/lb.	14.500 ¢/lb.	13.500 ¢/lb.

The basis for the current month average is 21 days.

Magnetron Mining Ltd., a private B.C. exploration company, is currently completing access roads to one of its three claim blocks in the Terrace, B.C., area. The nine miles of road completed will now be extended to drill target areas selected by the company's consulting engineer. The company worked the claims in 1967 and 1968 seasons with the 1969 program to include, geological mapping, additional geophysical survey work, continued surface stripping and some trenching.

J.G. Ager, managing director of the company, has reported that \$150,000 has been raised by the company for the 1969 program and that the present plans are to spend all the funds now on hand.

JUN 30 1969

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# George Cross News Letter

"Reliable Reporting"

see page 2

NO.144(1969)  
JUNE 30,1969

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NO.144(1969) G.M.H.  
JUNE 30,1969 P.K.

## WESTERN CANADIAN INVESTMENTS HIGHMONT MINING CORP. LTD.

**EXPLORATION UNDERWAY IN THREE NEW AREAS OF HIGHLAND VALLEY CLAIMS** - The annual meeting of Highmont Mining Corp.Ltd. was told that the company currently has three diamond drill machines at the property in the Highland Valley area of B.C. These machines are working in an area of the property previously unexplored. The southeast area of the claim have been covered by a magnetometer and induced polarization survey which located two anomalous areas. One of these areas has been tested by two drill holes with the third now drilling and the second area has been tested by four holes with the fifth now drilling. The meeting was told that the holes are too far apart to be considered indicative of any tonnage and that the grade in the holes is considered "very encouraging". In one of the holes, 400 feet of "continuous ore of the same grade as elsewhere on the property" has been encountered.

A third point of interest is the induced polarization and magnetometer work being done on three claims which jut into the Lornex property at the northwestern end of the Highmont property. The work on these claims has been most encouraging and it is expected that drill targets will be outlined.

Mr.J.L.Gibson told the meeting that the Highmont ore zone was of the same type and comparable grade as that on the Lornex property the only difference he stated was that the Lornex property has a much larger ore reserve at this time.

No work is now underway on the main ore zone on the property where reserves have been reported as 75,000,000 tons.(See GCNL No.142,page four, June 27,1969)

Retiring directors were re-elected with the addition of W.Clarke Gibson and S.A.Mowat.

## CHROMEX NICKEL MINES LTD.

**SUSPENDED PARTIALLY REMOVED** - Deputy Superintendent of Brokers of B.C. has issued a June 24, 1969, order to the effect that the June 6, order prohibiting all members of the Vancouver Stock Exchange, registered Brokers and Broker-Dealers from trading in the shares of Chromex Nickel Mines Ltd. has been rescinded and replaced by an order to the effect that Chromex Nickel Mines Ltd., Chromex Investments Ltd., Michael Hretchka and Jean Marie Hretchka are prohibited from trading in securities of Chromex Nickel Mines Ltd., until such time as the commission orders otherwise.

On June 27,1967, the over the counter market in the shares of Chromex was in the range of \$1.40 to \$1.90 per share. (For details of the exploration and financing and suspension, see GCNL No.140 and No.129,page two, June 12,1969)

At the meeting of shareholders 23Jun69, president Michael Hretchka stated that drilling had indicated 150,000,000 tons of 0.25% nickel of what may or may not be commercial ore at this time. He stated that it was his opinion at this time that the nickel was in a sulphide form which would be recoverable. If the nickel is in a silicate form, then recovery would not be by normal processes and its commercial value would be in considerable doubt.

## FOR THE RECORD

Ionarc Smelters Ltd. has called a special meeting of shareholders for 4:00 p.m., July 7,1969 in the Georgia Hotel, Vancouver, for the purpose of considering a number of resolutions changing the objectives of the company giving it power to carryout a wider range of activities. J.A.McLallen, president, states that this function is being carried out to broaden the activities of the company including a wider range of applications to the high-temperature techniques. He stated that intensive examinations are now being carried out on specific commercial applications the results of which will not be revealed at this time. Ionarc and its subsidiaries are among the world pioneers in the heat technology field and their proprietary opposition and expertise with this advanced technology has resulted in a major breakthrough in thermal efficiency.

A \$5,000,000 financing has been tentatively arranged for development and expansion purposes, and work is in progress to finalize details to bring the equity issue to the public.

The annual meeting is expected to be called for sometime in September at which time technical information will be reported.

S.Madill Ltd. shareholders approved the measures outlined in GCNL No.135,19Jun69, which will result in the company's amalgamation with the Madill Sales Ltd.

Madill has a backlog of orders to carry the Nanaimo plant a full capacity well into 1970. The products from the plant is mainly for various phases of logging with about 50% of the products sold in the U.S.A. and a large potential market existing in that market. The company has been carrying out an active research and development program on new types of equipment and all of this work is now paying off in the form of product sales. No new financing is now contemplated since the present cashflow is sufficient for current needs.

UNITED PRO CIAL INVESTMENTS LIMITED  
(Continued from Page 1)

Regarding the above mentioned property sold to Sun Life, this comprises the sale and leaseback by U.P.I. of a site at Alberni and Broughton Streets, Vancouver. Under this Agt., U.P.I. obtained a ground lease for one year at a rental of \$34,000 and prior to expiration of such year U.P.I. is to submit to Sun Life a plan for development of an apartment and office building complex costing approx. \$2,350,000. Sun Life has the first opportunity to provide the primary financing and, if plans are settled, the insurance firm will grant U.P.I. a ground lease of 75 years at an initial basic annual rental of \$34,000 to be reviewed at 20-yr. intervals plus additional rent to be agreed upon based on a percentage of gross income.

The agreement provides for repurchase of the property by U.P.I. if financing and development plans are not agreed within one year and for repurchase of the property by U.P.I. or cancellation of the long term lease by Sun if no development has occurred within 2 years.

STANNEX MINERALS LTD.

ORE RESERVES ESTIMATE - Annual meeting was told this year's accelerated ore development program is proceeding well at the silver-lead-zinc mine near Revelstoke B.C. The all-inclusive contract awarded to Versatile Tunnel Contractors Ltd. covering roadwork, camp operation and underground development, has proven successful and initial results are beyond expectations. Since work started early in May, over 1,522 feet of additional underground drifting and raising has been completed. It is believed that by mid-summer ore reserves will be increased sufficiently to warrant a decision on plans for production.

Of special significance this year has been the increase in ore values. According to latest estimates, reserves now stand at 402,000 tons proven and probable, containing metals worth \$27.20 per ton at present metal prices for a total gross value of \$10,934,000. There is another 483 feet of development footage completed that is visibly in ore but cannot be included in estimates until assays are received. An important feature this year is the development of good ore in the Nos. 4 and 6 veins, running parallel to the No. 5 vein in which earlier reserves were developed.

Values in tin have been found consistently throughout the mine, especially in new work this year on No. 6 vein. Tin has always been of great interest in operations on the Stannex property and has the potential of adding substantially to earnings. Tungsten and Cadmium content in the ore is also important. Metallurgical tests continue at the Mineral Processing Division, Department of Energy, Mines and Resources, Ottawa and at testing laboratories in Denver, Colorado.

Mr. Bruce Lang, General Manager, Operations, submitted estimates of mining and milling costs running just under \$10.00 per ton for a concentrator with capacity of 500 tons per day.

Robert B. Pincombe, president, Barry D. Speton, secretary and Joseph Gallo were re-elected directors for the ensuing year.

IONARC SMELTERS LTD.

NASA RESEARCH CONTRACT RECEIVED - M.L. Thorpe, president of Humphreys Corporation, a wholly-owned subsidiary of Ionarc Smelters Ltd., has reported the company has been awarded a \$250,000 research and development contract by National Aeronautics and Space Administration (NASA). The TAFE Division of the Humphreys Corporation has been a pioneer in the development of plasma arc heaters in the U.S. and markets a line of this equipment to industry, operating on the principle of heating any gas to temperatures above the sun's surface with electric arcs. The hot gas so heated is then used in a variety of processes ranging from synthesizing new chemicals to melting refractories and high temperature metals, and a variety of high speed industrial heating applications. The NASA contracts awarded to the company involve basic investigations on improving the performance of the company's proprietary equipment and the development of a large heater for simulating the nuclear gas core reactor engine which has been proposed for deep space propulsion by the latter part of this century. This work is a continuation of work conducted for the past three years which totalled approximately \$180,000. Mr. Thorpe indicated that the development will involve the use of electric power levels to 2,000 kilowatts and their new laboratory, just completed, will have adequate power for this work. He indicated knowledge gained from this work will permit the company to engineer a broader, more efficient line of products for sale to industrial customers.

FOR THE RECORD

Interplex Mining and Industrial Ltd. has announced a \$1.25 million program of expansion for its wholly-owned Palm Springs Health Spa chain. Included in the expansion program will be a new spa for Anchorage, Alaska, at a total cost of \$350,000; a second spa for Victoria at a cost of \$500,000; Calgary's third spa; and Edmonton's third spa at a cost of \$400,000. This will bring the total of spas to 16 in British Columbia, Alberta, Manitoba, and Alaska.

Bralorne Oil & Gas Ltd. shares were called for trading on the Oil Section of the Board of the Vancouver Stock Exchange June 26, 1969.

Of the 5,000,000 authorized shares of no par value, 2,600,000 shares are issued. The transfer agent is The Royal Trust Company and the ticker symbol is B G L.

Scurry-Rainbow Oil Limited has reported that pursuant to the agreement dated 7Mar69 with the company and Dynamic Petroleum Products Limited, et al, the Vancouver Stock Exchange has now been advised that the 15,000 shares of Sourry-Rainbow have been issued, pursuant to the terms thereof.

MAY - 5 1969

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# George Cross News Letter

"Reliable Reporting"

NO. 97(1969)  
MAY 5, 1969

NO. 97(1969)  
MAY 5, 1969

WESTERN CANADIAN INVESTMENTS

## B.C. SUGAR REFINERY LIMITED

- \* Three -for-one Split of Common Stock Approved by Directors
- \* Quarterly Dividend Increased from 50¢ to 60¢ Per Share

Subject to approval of common shareholders, directors of B.C. Sugar Refinery, Limited announce that those holding such shares will receive certificates representing two additional common shares for each of such shares presently held.

In effect, this is a three-for-one split in the common stock.

In making the announcement, Forrest Rogers, president, said also that the directors had decided to increase the regular quarterly dividend from 50¢ to 60¢ per share, based on the common shares outstanding before the proposed stock split.

The stock split requires the granting of Supplementary Letters Patent by the Hon. Minister of Consumer and Corporate Affairs.

Subject to approval of shareholders and subject to the granting of the Letters Patent, directors have enacted a bylaw subdividing the company's common share capital, issued and unissued so that those holding such shares will receive certificates representing two additional common shares for each of such shares presently held.

Based on the common shares to be outstanding after the proposed stock split, the new quarterly dividend of 60¢ per share will be equivalent to 20¢ per share.

Latest quarterly dividend on the common shares was 50¢ a share paid April 30, 1969. In the year ended September 30, 1968, B.C. Sugar paid a total of \$2.70 per common share, made up of regular dividend of \$2.00 p/s and an extra dividend of 70¢ p/s from the prior year's earnings. In the year ended September 30, 1967, the company made regular payments of \$1.50 p/s plus 35¢ extra, a total of \$1.85.

### FOR THE RECORD

Vanguard Explorations Ltd. has reported that shares will be called for trading on the Interim Listing Board of the VSE May 5, 1969. Of the 3,000,000 shares with 50¢ par, 1,548,415 shares are issued including 750,000 shares in escrow. The transfer agent is Guaranty Trust Company of Canada and the trading symbol is V E X X.

Highpoint Mines Ltd. shares will be called for trading on the Mining Section of the Board of the Vancouver Stock Exchange May 5, 1969. Of the 5,000,000 shares without par, 2,353,151 shs. are issued including 703,750 shares in escrow. The transfer agent is Canada Trust Company and the ticker symbol is H P T.

Ionarc Smelters Ltd. has reported that shares were called for trading on the Industrial section of the Board of the Vancouver Stock Exchange May 2, 1969. Of the 5,000,000 shares with a 50¢ par value, 2,920,002 shares are issued. The transfer agent is Guaranty Trust Company of Canada and the ticker symbol is I O N.

Silver Standard Mines Limited has reported that Pemberton Securities Ltd. as to 80%, Nesbitt Thomson and Company Ltd. as to 10%, and Carlisle, Douglas & Co. Ltd. as to 10%, have firmly underwritten 300,000 treasury shares of the company at \$2.45 per share, payable forthwith, and in consideration of the underwriting, have granted the following options: 100,000 shs. at \$2.75 per sh. due on or before July 31, 1969, 100,000 shs. at \$3.10 per share due on or before Oct. 29, 1969.

### POTTER DISTILLERIES LTD.

SALES UP 20% - P.N. Geode, vice-president of Potter Distilleries Ltd., notes that, during the six months ended 29 Feb 69, some \$100,876 was spent on additions to fixed assets.

These include completion of the second maturing warehouse which is already partially filled. 6 MOS. TO FEB. 28:

	1969	1968	
Gross oper. revenue	\$374,647	\$294,249	the initial start of an increase in production
Prod. admin. sell. exp.	288,791	241,289	of new whisky fillings.
Oper. profit bef.			Sales of bottled products are growing steadily

			and are approximately 20% greater than for the same period in 1968. The company has received listing
Undermentioned deduct.	85,856	52,960	from the State of Oregon Liquor Control Board and
Depreciation	30,951	11,517	application for listing has been made to the State
Interest	9,210	6,140	of Washington. The company has started shipment
Management exp.	22,800	19,800	export orders to California, West Germany, Hong
Net Profit	\$ 22,895	\$ 15,503	Kong, and England and is negotiating for agencies for Alaska, the Near East and Japan. The

domestic market is showing a very satisfactory increase and the necessary steps are being taken to constantly expand the areas in which the company's products are available, both Canada and abroad. The company has completed necessary arrangements to provide adequate financing for the distilling and maturing of its whisky inventories over the next two years will commence to use their own whiskies in Nov./69 when the first of their initial product reaches maturity. Mr. Geode says that Potter is progressing in a satisfactory manner, and considers that good progress will continue during 1969.

MAY 6 1969

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# George Cross News Letter

"Reliable Reporting"

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MAY 3, 1969

NO. 96(1969)  
MAY 3, 1969

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WESTERN CANADIAN INVESTMENTS

IONARC SMELTERS LTD.

+ New Financing Will be Needed to Build Vancouver Plant.

The Ionarc Process may be described as a process and a furnace designed to efficiently and economically separate solid metallic and non-metallic materials into two or more compounds by passing the materials through a high intensity electric arc to disassociate them and/or exposing the materials to a reactive agent in the arc to produce a chemical reaction. Test work to date using complex ores of zirconium, columbium, and titanium and complex refractory ores containing precious metals have demonstrated that, by using the Ionarc Process, the production of these metals from such complex ores is technically feasible. In addition, the test work has demonstrated the commercial feasibility of the Ionarc Process in the production of zirconium oxide (which is used in the production of zirconium which in turn is used in the production of nuclear reactors), columbium pentoxide (which is used in the production of stainless steel) and spheroidized magnetic spheres (which are used in the photocopying industry).

A March 31, 1969, report by Wright Engineers Limited of Vancouver recommended: construction of a "minimum production plant" for zirconium oxide; continued laboratory work to develop a flowsheet for a full scale production of pigment-grade titanium dioxide; conduct furnace test work on other metals; continue to develop a furnace unit in the 2,000 to 5,000 kw range which will bring many applications within economic limits; continue test work on the industrial production of spheroidized material and acquire mining properties which may produce feed materials of prime interest.

The material filed with the Vancouver Stock Exchange in conjunction with the listing of the Ionarc Smelters Ltd. shares on May 2, 1969, discloses that the "minimum production plant" to be designed and constructed will be on stream by June 1970. It is intended that this will be the first of many plants and more important than its profitability will be the use of this initial plant "as a development plant for exploiting the major breakthrough which has been made by Ionarc in the field of metallurgical processing."

**NEW FINANCING IN NEAR FUTURE** - In implementing the recommendations of the engineers and in carrying out additional research and development, it is estimated that Ionarc will require in the next twelve months approximately \$4,206,500 (\$600,000 of which is on hand. Of the total required \$2,556,000 will be used in the construction of the Vancouver plant with 900 kw capacity. Negotiations are presently underway to raise the required funds. To date, these funds have not been raised and there is no guarantee they will be raised.

Patents have been applied for in Canada, United States and 33 countries. Expended to Dec. 31, 1968, on the research and development of the process was \$729,291.

Ultrabasic Minerals Limited is owned 50% by Ionarc now and Ionarc holds an option to increase its interest to 90%. Ultrabasic holds a number of leases covering the placer-mining rights in the Similkameen Mining division, Tulameen River area of B.C., where testing for the platinum content and other precious metal content has been underway with inconclusive results to date.

Present shareholders have qualified a total of 255,000 shares for distribution to the public none of the proceeds from which will go to the company. The largest blocks of shares being supplied or qualified are, 50,000 shares from Combined Capital Resources Ltd. and 25,000 shares from Consolidated Morrison Explorations Ltd. The material supplied also disclosed that not all of the qualified shares will necessarily be sold at this time. (See GCNL No. 84, Page One, April 21, 1969)

FOR THE RECORD

Key Anacon Mines Ltd. has reported shares removed from the trading list of the Vancouver Stock Exchange at close of business Friday, 2 May 69 at the request of the company.

Correction: Troy Silver Mines Ltd. surface showing on the Highland Valley prospect is 41 feet wide assaying 0.35% copper rather than 18 feet of 0.42% copper as noted in GCNL NO. 91, 28 Apr 69.

Dynasty Explorations Limited has reported that Richardson Securities of Canada have firmly underwritten 200,000 shares at \$15.00, and the shares will be distributed through the facilities of the Toronto Stock Exchange.

Interprovincial Silver Mines Ltd. has reported that Carlisle Douglas & Co. Ltd. as to 80% & Continental Securities Corporation Ltd as to 20%, have firmly underwritten 250,000 treasury shares at 35¢ per share, payable forthwith.

Kimberley Copper Mines Ltd. has reported that by agreement, the company and United Bata Resources Ltd. will expend a total of \$400,000 on United Bata's Kamloops Mineral properties from the period commencing January 1, 1969 to August 1, 1971.

MAY - 5 1969

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# George Cross News Letter

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MAY 2,1969

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## WESTERN CANADIAN INVESTMENTS

### NEW IMPERIAL MINES LTD.

QUARTER TO MARCH 31,	1969	1968
Tons Milled	171,247	161,048
Ore Grade-copper	1.19%	0.93%
Recovery	85.5%	76.2%
Production -Value	\$2,259,426	\$1,275,728
Production Exp.Admin.		
Transpor.&Marke.	\$1,285,192	\$1,099,738
Depre.Inter.Expl.	339,438	282,815
NET INCOME(loss)	\$ 634,796	(\$106,825)
Earnings per share	10.0¢	( 1.7¢)
Shares Issued	6,374,601	6,135,233

Arnold Pitt, president of New Imperial Mines Ltd. has reported that a feasibility study is near completion, dealing with facilities for mining the Little Chief deep ore zone. Included are improvements and additions to the current mill to facilitate improved throughput and deal with the higher copper grade associated with the deep ore. Access to the mine will be by an inclined underground road. Completion of the feasibility study will enable financing negotiations.

Mill recovery improved during the quarter the president stated, partly due to Arctic Chief ore which has been mined out except minor tonnage. The Little Chief pit is in the final stages of mining and ore is being stockpiled to be fed to the mill while the mining equipment is prepares the War Eagle orebody for production in July.

Overburden is being stripped now. In exploration, encouraging results continue to be obtained on the Gem claims in support of a potentially good grade open pit orebody. 25 holes have been drilled with more required before reserves can be calculated.

Exploratory drilling has started at War Eagle where hole W.E. 61 is now at 1058 feet in minor mineralization aimed at potential deep ore below the open pit. Five holes will be drilled at the pit's south end to test for ore extension.

### ALWIN MINING COMPANY LTD.

**RIGHT TO HIGHLAND VALLEY MINE ASSIGNED** - Alwin Mining Company Ltd. has been notified that on April 30, that Nippon Mining Co. Ltd. assigned the balance of its rights under the exploration agreement with Alwin to Combined Capital Resources Under this assignment C.C.R. acquired the right to exercise in full the remaining options and senior financing participation included in the original agreement between Alwin and Hippon. C.C.R. also acquired the right to elect one director to the board of Alwin and appoint members to the management and technical committees. C.C.R. has notified the company, however, that Mr. Nakamura has agreed to remain on the board of Alwin as their appointee. Similarly, they have appointed the previous representatives of Nippon to remain on the committees.

Nippon Mining retains the exclusive rights to the marketing of the concentrates as covered by the agreement.

Both Nippon Mining and C.C.R. have exercised their rights to convert the "first contribution" of \$210,000.00 into shares of Alwin Mining Company Ltd. at the price of \$2.10 per share as covered by the original agreement.

Pursuant to the above assignments, C.C.R. did on April 30, exercise their right to advance to Alwin the sum of \$230,000.00 which contribution carries with it conversion rights to acquire shares of Alwin at the price of \$2.30 per share.

### HOME OIL COMPANY LIMITED

**FIRST QUARTER** - Home Oil Company Limited has reported gross revenue in the first quarter of \$6,735,000 up 5% over that in 1968. Net earnings were \$1,291,000 or 20¢ per share compared with 26¢ per share which had included 3¢ from an extraordinary item. Crude oil and natural gas liquids production rose 4% to 16,768 barrels daily, natural gas sales averaged 69.3 MCF daily down from 74.7 MCF and sulphur sales were 7,610 long tons for the quarter down from 10,231 tons in 1968.

**TAYLOR(BRIDGE RIVER) MINES LIMITED** new name INTER-TECH DEVELOPMENT & RESOURCES  
**LOS ANGELES OIL PROSPECT TO BE DRILLED START MAY 10** - Shareholders of Taylor(Bridge River) Mines Limited have approved a name change to Inter-Tech Development & Resources Ltd. Vice-president, Errol Fisher reports that the company through its wholly-owned subsidiary Inter-Tech Resources Inc. has acquired petroleum rights on 36.59 acres in the Salt Lake field in the heart of Los Angeles from Oil and Gas Investments Inc. of Texas for an undisclosed consideration. He said the first well will be spudded in before May 10, by Jade Oil and Gas. Rights to further 24.12 acres are being acquired there. Jade has pooled 26.57 acres with those of Inter-Tech and will drill the first hole and follow up with eight to ten more as warranted. Inter-Tech will recover its costs after undisclosed royalties and then be entitled to a 75% net working interest, the other 25% going to Jade and Standard Oil of California.

### IONARC SMELTERS LTD.

**NYSE LISTED** - Ionarc Smelters Ltd. shares were posted for trading on the Vancouver Stock Exchange on May 2, 1969. Of the 5,000,000 shares authorized 2,920,002 shares are issued.

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APR 21 1969

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# George Cross News Letter

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WESTERN CANADIAN INVESTMENTS

IONARC SMELTERS LTD.

Two Commercial Plants Now Under Construction For the 'New' Smelting Process

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APRIL 19, 1969

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NO. 84(1969)  
APRIL 21, 1969

Pursuant to Agreement of October 31, 1968 Ionarc has purchased from Merle L. Thorpe of Hopkinton, New Hampshire, all of the issued and outstanding shares of Humphreys Corporation, a leader in the field of plasma technology which has been carrying out the bulk of Ionarc's research and development work during the past fourteen months. Mr. Thorpe was paid 415,000 shares of Ionarc, \$429,750 and will be paid a further \$429,750 during the next two years. Mr. Thorpe will remain as president of Humphreys Corporation and has been appointed Executive vice-president of Ionarc.

To provide funds to complete the acquisition of Humphreys Corporation and for use in continued research and development, 200,000 shares of Ionarc were sold in February 1969 at \$5 net per share to Richardson Securities of Canada, acting on behalf of fifteen clients.

On March 31, 1969 Wright Engineers Limited of Vancouver delivered a comprehensive report to Ionarc recommending construction of a minimum production plant to be used in the production of zirconium oxide. Subject to financing being arranged Ionarc proposes to proceed immediately with the construction and to have the plant on stream by June, 1970.

The above News Release and the accompanying letter to shareholders over the signature of J.A. McLallen, president of Ionarc Smelters Ltd. is the first news break by the company in months and is apparently in preparation for an early listing of the shares of the company on the Vancouver Stock Exchange. When the files of the Exchange become available following the listing, expected in the next two weeks, some details of the company will be available. In the meantime, the company has 5,000,000 shares authorized, and following the issue of the shares for Humphreys Corporation there will be 2,920,002 shares issued until such time as additional financing is undertaken. The additional financing is expected in the next few months to accelerate the rate research and plant construction.

Ionarc holds all the rights to what is referred to as the Bainbridge Invention which has been described as a very high temperature (15,000 to 20,000° F) electrical arc using consumable carbon cathodes in a gas walled furnace. The process has been under research both in Vancouver and in Concord, New Hampshire for about five years and is now adequately covered by patents pending in the U.S.A. The original idea was to pass mineralized material through the arc furnace, recover the residue and proceed with the normal type of metallurgical recovery of metals. The research work has been very successful on the 55 test materials and have demonstrated a very high multiple on the rate of recovery following the arc treatment. The company officials and research people state that work has opened a full new field in mineral recovery and constitute a major breakthrough in 'plasma' technology. The original idea will be put into commercial operation with the construction of the Vancouver area plant and with the use of the pilot plant and new larger facilities now under construction at Concord. The other potential applications of the Ionarc furnace or the 'Bainbridge Invention' are at least as important as the metallurgical applications and could be of substantially greater importance in the future.

9 MOS. TO FEB. 28:	1969	1968
Sales	\$10,010,114	\$ 9,508,880
Equipment	7,103,840	7,404,825
Aviation services	1,257,342	1,644,633
Oil & Gas Sales	1,139,249	1,081,795
Heating equip.	934,728	208,501
Other income	433,182	320,697
Total revenue	\$23,222,020	\$20,169,331
Oper., gen. exp.	20,660,502	17,906,410
Deprec'n, depletion	1,310,985	1,372,458
Dry hole costs	-----	137,435
Mining writeoffs	30,000	-----
Non-pooled earnings	-----	36,677
Income taxes	75,126	(8,449)
Extra ordin. items	367,223	428,636
Net income	\$ 1,512,630	\$ 1,153,436
Shares Outstanding	3,089,344	2,379,260
Net income per share	46¢	45¢

Bow Valley Industries Ltd. interim report states the annual independent appraisal of oil and gas reserves has been completed and shows a substantial increase in proven reserves. As a consequence depletion charges for the nine-month period have been reduced by \$120,000, all of which is reflected in third-quarter results.

During the last quarter the company disposed of its interest in Pan-Oceanic Drilling Ltd. resulting in a loss of \$101,080.

During the period under review Bow Valley drilled a Keg River oil discovery, B.V.X. Galaxy 8-1-112-6W6, in the Rainbow area of northwestern Alberta. The company's working interest in the discovery and surrounding 320 acres amounts to 20% with a further 25% net profits interest in the remaining working interest.

Bow Valley participated in the drilling of a successful development well in the Inga oil field in northeastern B.C. The company has a 33 1/3% working interest in the well and surrounding 320 acres.

Bow Valley together with Canadian Pacific Oil & Gas Co. Ltd. and Cominco Ltd. is drilling a 9000' test, CPOG et al Sukunka d-57-B in the foothills structural belt in the southern part of the northeastern B.C.