EUREKA CORPORATION LIMITED

EUREKA, NEVADA

FORM MF-100 DATE-JUNE 25, 1951

DOCKET NO. D.M.A. 74-X

Room 1841
230 Park Avenue
New York 17, N. Y.

June 26, 1951

Dr. James Boyd, Administrator
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Re: Eureka Corporation Limited
Eureka, Nevada
Allocation Assistance
Form MB-100

Dear Dr. Boyd

Reference is made to Defense Minerals Administration's Mineral Order 7, as amended, "Serialization of Mines, Smelters, and Mineral Processing Plants", dated May 10, 1951, setting forth arrangements for allocation assistance under the programs of the Defense Minerals Administration.

Enclosed, in quadruplicate, is the completed form MB-100 covering the operations of our property at Eureka, Nevada which is our application for a serial number under the allocation assistance program.

Will you kindly acknowledge receipt of this application and notify us of the assignment of a serial number for allocation assistance and forward copies of any pertinent regulations.

Very truly yours,

EUREKA CORPORATION LIMITED

George W. Mitchell
Vice President and Managing Director

JUL 9 1951

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMA 74X

Date received MS 1424

Eureka Corporation Limited
Eureka, Nevada
and
1841-230 Park Avenue
New York 17, N. Y.

Docket No. DMA-74-X

28175

Name and address of applicant

Date June 25, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessary Certificate of Necessity for Rapid Amortization Deduction of Internal Revenue Code 1950~~ (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

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GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   ☐ Owner.
   ☐ Lessee.
   ☐ Contractor.
5. Number of years in production Major Production old property 1870-1910
   If not in production or operation, estimated date when production will begin 2 to 4 years after start of exploration program
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

JUL 9 1951

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8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Thayer Lindsley 230 Park Ave. N. Y.	President D	nil	1,000,000	270,703	-	None	None
Geo. W. Mitchell Eureka, Nevada	V.P. & Managing D	212,000	28,000	5,500	-	"	"
Maurice R. Jennings 25 King St. W. Toronto	Sect. D	nil	10,000	1	-	"	"
J. M. Busson 217 Bay St. Toronto	D	nil	50,000	10,000	-	"	"
W. B. Malone 25 King St. W. Toronto	D	nil	75,000	1	-	"	"
Paul W. Zockhausen 230 Park Ave. N. Y.	Treas.	nil	40,000	1	-	"	"
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$5,000,000	$4,593,780	Canadian $ 1.00	4,851,455	None
Preferred stock	$	* 2,035,150 $	$		

*Indicate period covered. * Paid-in surplus

10. Production: See Addendum Page 13

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)	See addendum sheets Page 14				

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Eureka Corporation Limited
(Name of company)

By George Mitchell
(Signature of authorized official)

June 26 1951
(Date)

George V. Mitchell
Vice President & Managing Director
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Addendum to MF-100
Eureka Corporation Limited
Eureka, Nevada

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ATTACHMENTS

Chart #1, Water Data — Exhibit A

GENERAL TECHNICAL DATA

ITEM 1: Materials Produced.

a) Eureka Corporation Limited controls and operates the Richmond-Eureka Mine, near Eureka, Nevada. The metals produced in the past and for which exploration is now in progress, are zinc, lead, gold and silver.

b) There are no other metals or minerals which would be classed as by-products.

ITEM 2: Name and Type of Mine.

The property is presently known as the Richmond-Eureka Mine, which is a consolidation of the Richmond Mining Company's property and the Eureka Consolidated Company's property. The consolidation of the properties of these two companies was made in the year 1905. Since that time, and in the past few years, several other parcels of adjoining claims have been included in the Richmond-Eureka mine property. Eureka Corporation Limited leased the Richmond-Eureka mine from the Richmond-Eureka Company in 1937, and has been operating the property since that time. Most of the workings in the old mine are now inaccessible. The following is a record of new workings and old workings, which have been reopened and repaired:

a) Linear feet of shafts
- Fad Shaft - 2,415 feet.
- Locan Shaft - 840 feet.

b) Linear feet of drifts and crosscuts - 3,700 feet.

c) Linear feet of tunnels or adits. - None reopened or repaired.

d) Linear feet of other mine openings. - Old workings which are for the most part inaccessible.

ITEM 2. (continued)

The old Locan Shaft was reopened to the 900' level, which is 840' below the collar of the shaft. A new shaft, the Fad Shaft, was sunk 2,415' and a level started out on the 2,250' level, in search of the ore body. A heavy flow of water was encountered, which was greater than the pumping capacity and the plant and the shaft was flooded. An attempt was made to recover the shaft by increasing pumping capacity during the period May 16, 1948 to December 16, 1948, but the velocity of the water eroded the 2,250' level water course, depositing rock material in the bottom of the shaft to a depth of some 80'. Pumping was stopped on December 16, 1948 in order to prevent further difficulties. The water has risen in the shaft to the normal level of the water table, which is approximately 1,000' below the collar of the Fad Shaft.

Reference is made to our application for an exploration loan on DMA Form MF-103 under Docket #DMA-74-X to which we attached a private report, marked (Exhibit G), titled "Synopsis of a Report on an Investigation of the Properties of Eureka Corporation Limited, in Nevada", by Ira B. Joralemon, September 1949, and a chart marked (Chart #1), showing the record of pumping from the Fad Shaft, and pertinent water data. For your convenience, a copy of this chart is attached.

Studies have been made of the unwatering of the Richmond-Eureka mine by a number of engineers and further studies are being made by officials of Defense Minerals Administration and U. S. Geological Survey. We have proposed to unwater the Fad Shaft in a period of eighteen months.

During the production period of the old mine, in the years 1870-1910, approximately 1,250,000 tons of ore were mined, having a gross value, variously estimated at from 60,000,000 to 90,000,000 dollars. This production was from ore bodies in the footwall of the Ruby Hill Fault, and for the most part, from above the Richmond 750' level. These ore bodies were above the water table in the

ITEM 2. (continued)

district and were almost completely oxidized. Ore values were, for the most part, in gold and silver, with high lead values. It is estimated that the old mine produced approximately 200,000 tons of lead which counted for nearly one third the value of the ore.

No positive ore is blocked out in the Richmond-Eureka mine but diamond drilling in the hangingwall of the Ruby Hill Fault indicates more than 800,000 tons of heavy sulphide ore. The U. S. Bureau of Mines did some of this diamond drilling and, though they make no estimates of tonnage, they indicated in their ore dressing experiments that the weight and average content of the ore is as follows:

Lead	-	4.46 %
Zinc	-	9.84 %
Gold	-	0.241 oz. per ton
Silver	-	7.28 " " "

Ira B. Joralemon states that the drilling indicates a possible 800,000 tons of heavy sulphide ore, averaging 3.74% lead, 9% zinc, 0.192 oz. of gold and 5.92 oz. of silver. He also states that this indicated ore occupies less than a tenth of the promising area northeast of the Ruby Hill Fault.

Indications are that the ore body in the area of the Fad Shaft will be sufficient in size to support at least a production of 500 tons of ore per day and may very well be large enough to warrant a production of 1,000 tons of ore per day. It is estimated that on a basis of 500 tons of ore per day, the production of lead and zinc would be as follows:

Zinc	-	1,080 tons per month
Lead	-	580 " " "

ITEM 2. (continued)

On a basis of 1,000 tons of ore per day, the production of lead and zinc would be:

Zinc	-	2,160 tons per month
Lead	-	1,160 " " "

ITEM 3. Location and Accessibility, Richmond-Eureka Mine.

a) The mine works of the Richmond-Eureka mine are 2½ miles southwest of the town of Eureka, Eureka County, Nevada, and is connected to the town by a two-lane surfaced highway maintained by the State of Nevada. The town of Eureka is on the main trans-continental highway, U. S. 50, and is 78 miles west of Ely, Nevada and 246 miles east of Reno, Nevada. The nearest rail connections are at Palisade, Nevada, which is on the main lines of the Western Pacific Railroad and the Southern Pacific Railroad. Palisade is 90 miles north of Eureka and the two towns are connected by Nevada State Highway, Rt. #20 which heads north from a junction with U. S. Highway #50, five miles west of Eureka. State Highway #20 is surfaced for the first 30 miles and the balance of the road is graveled and maintained by the state. An additional section of this road is to be surfaced this year, 1951, and it is contemplated that the total distance would be surfaced in a few years. This would then be the most direct feasible route for shipments of large quantities of freight and supplies.

At the present time, freight and supplies for the Eureka District are brought in by truck freight lines from Salt Lake City and Ely to the East, and Reno to the West.

b) The Richmond-Eureka mine is located in the Eureka mining district.

c) The Richmond-Eureka mine properties are located in sections 3, 4, 9, 10, 11, 14, 15, 16, 21, 22, 23, 26, 27, 28 in T19 N., R53 E., and in sections 33 and 34 in T20 N., R53 E., of M.D.B. and M., Negada. Eureka town lots are in Sections

ITEM 3 c) (continued)

13 and 14 of T19 N., R53 E.

d) Richmond-Eureka mine properties are located in Eureka County, Eureka, Nevada.

ITEM 4. Operation of Property.

a) The active exploration on the Richmond-Eureka mine property was started in 1937 by Eureka Corporation Limited. Since the flooding of the Fad Shaft, the company has continued exploration by rotary drilling and diamond drilling. At the present time one diamond drill hole is being drilled in the hangingwall of the Ruby Hill Fault, and repair work is being carried on in the shaft.

b) Eureka Corporation Limited is operating the mine under a lease from Richmond-Eureka Company.

ITEM 5.

The mine properties were operated during the period 1870-1910 which was the major production period at the mine. Since 1910 there has been only sporadic operation and production under small Lessees. If the present proposed program of exploration is started in the near future, direct shipments of ore to smelters in the Salt Lake area could be made in about two years. Major production and milling on the property would not commence earlier than from three to four years.

ITEM 6. Experience of Operators.

a) Eureka Corporation, Ltd. has been operating the Richmond-Eureka Mine at Eureka, Nevada for the past 14 years. Associated Companies and officers of the Corporation have been operating mining and metallurgical works in Canada, United States, Nicaragua and other countries for the past 30 years. Some of the associated companies are:

ITEM 6 a) (continued)

Falconbridge Nickel Mines, Ltd. (Nickel)	Falconbridge, Ontario
New Calumet Mines, Ltd. (Lead, Zinc)	Southern, Ontario
La Luz Mines, Ltd. (Gold)	Nicaragua, Central America
Ventures, Ltd.	Various locations in Canada

b) The Vice-President and General Manager of Eureka Corporation is:-

George W. Mitchell,

Engineer of Mines degree Colorado School of Mines 1923. Age 52 years.

Mining experience:

United Verde Copper Company - Jerome Arizona	- 6 years
Lake Shore Mines, Ltd. -Kirkland Lake, Ontario	- 1½ years
International Nickel Co. Frood Mine-Sudbury, Ontario	- 3½ years
Falconbridge Nickel Mines, Ltd.-Falconbridge, Ontario	- 1½ years
Matachewan Cons. Mines, Ltd. - Matachewan, Ontario	- 6 years
Panaminas, Inc. Adamson Mine - Bishop, California	- 1½ years
Eureka Corporation, Ltd. - Eureka, Nevada	- 7 years

b) The General Superintendent of the Richmond Eureka Mine is:-

W. Spencer Hutchinson, Jr.

BS Degree in Mining Engineering, Massachusetts Institute of Technology, in 1929. Age 45 years.

Mining Experience:-

Anaconda Copper Mining Co., Butte, Montana. Assistant Engineer, Sept. 1929 - Dec. 1930	1 yr., 3 mos.
North American Mines, Inc., Boston, Massachusetts. Engineer at copper property, Baja California, Mex. Jan. 1931 - Aug. 1931	8 mos.
Philadelphia & Reading Coal & Iron Co., Pottsville, Penn. Special Engineer, Sept. 1931 - Mar. 1934	2 yrs., 7 mos.

ITEM 6 b) (continued)

North American Mines, Inc. Boston, Massachusetts. Field Engineer in Charge of Explorations in western United States, Apr. 1934 - Feb. 1938	3 yrs., 11 mos.
Fremont Gover Co., Amador City, California Engineer and Engineer in Charge - Feb. 1938-May 1940	2 yrs., 4 mos.
Curley Luck Gold Corporation, Winnemucca, Nevada Superintendent of Ashdown Mine, - June 1940 - Oct. 1940	5 mos.
Cherokee Mine, Greenville, California Manager and Superintendent, - Feb. 1941 - July 1942	1 yr., 6 mos.
Metals Reserve Co., U. S. Government, Washington, D. C. Principal Engineer, Aug. 1942 - Jan. 1944	1 yr., 6 mos.
U. S. Navy, Feb. 1944 - Jan. 1946, Senior Lieutenant	2 yrs.
Brush Creek Mine, Goodyears Bar, California Manager and Superintendent, Mar. 1946 - Aug. 1949	3 yrs., 6 mos.
Colorado Raw Materials Office, Atomic Energy Commission Grand Junction, Colorado, Assistant Manager Oct. 1949 - Feb. 1951	1 yr., 5 mos.
Eureka Corporation, Ltd., Eureka, Nevada General Superintendent, March 1951 - present	3 mos.

ITEM 7. History.

a) Silver-lead ore was first discovered in the Eureka District in September 1864 by a group of prospectors from Austin who made the discovery in an outcrop in New York Canyon, about two miles south of the present townsite of Eureka. Production from the district was delayed until 1870 due to early difficulties in successfully smelting the ore. In 1870 San Francisco interests formed the Eureka Consolidated Mining Co., which controlled the ground on the northeast side of Ruby Hill and in 1871 an English Company, the Richmond Mining Co., bought the adjoining claims to the west. Both of these two companies commenced mining and built smelters in the town of Eureka. By 1872 mining and smelting operations had reached a maximum of about 160 tons per day. Ore from the companies properties and custom ore was treated in these two smelters until

ITEM 7.a)(continued)

1891, when the smelters were shut down. Mining continued, however, until 1905 under a leasing or "tributing" system and the ore was shipped to either Selby or Salt Lake City smelters for treatment.

In 1905 the Richmond-Eureka Mining Co., a subsidiary of the United States Smelting, Refining and Mining Co., acquired the combined holdings of the two companies and, after a short period of rehabilitation work, mining under a leasing system was resumed. Approximately 200 tons of ore per day were mined and shipped to the smelter in the Salt Lake City area until 1910 when the Eureka-Palisade R.R. was washed out and mining in the district ceased with the exception of minor small-scale leasing.

During the productive period of 1870 to 1910 approximately 1,250,000 tons of ore were mined having a gross value, variously estimated at from $60,000,000 to $90,000,000. This production was from ore bodies in the footwall of the Ruby Hill Fault and for the most part from above the Richmond 700' Level. These ore bodies were above the water table in the district and were almost completely oxidised. The ore values were for the most part in gold and silver with high lead values. It is estimated that the two properties produced approximately 200,000 tons of lead which accounted for nearly one-third the value of the ore.

In 1937 the Eureka Corporation Limited obtained a lease on the holdings of the Richmond-Eureka Company with the major objective that of exploring the hangingwall of the Ruby Hill Fault on the geologic theory that ore would be discovered in the Eldorado dolomite at a deeper horizon. During the period 1937 to 1941 the Company drilled three diamond drill holes in the hangingwall side of the Ruby Hill Fault. Drill hole A was located in the block northwest of the Bowman Fault and was drilled from the surface to a depth of 3240 ft. cutting through 2,012 feet of Eldorado dolomite at a depth of from 1,190 to 3,202 feet. No important ore showings were indicated by this hole. Drill hole B was started from

ITEM 7.a) (continued)

the 900 ft. level of the Locan Shaft to explore the block of ground southeast of the Bowman Fault and lying in the hangingwall of the Ruby Hill Fault. Drill Hole B encountered lead-zinc ore at a depth of from 1409 to 1449 feet below the Locan 900 ft. level. Drill Hole C was also drilled from the 900 ft. level of the Locan Shaft approximately 210 feet northeast of the location of the collar of Hole B. This hole encountered 40 feet of lead-zinc ore at a depth of from 1,350 to 1,390 feet.

On a basis of these favorable indications the Eureka Corporation Limited started sinking the Fad Shaft, located 1430 feet northeast of the Locan Shaft, in February of 1942. Due to the difficulty of obtaining suitable pumping and other equipment during the war, sinking was slow and the shaft was stopped at a depth of 540 feet. In early 1943 the company submitted a proposal to the U. S. War Production Board for developing the mine, milling 500 tons of ore per day in an attempt to obtain the necessary equipment, materials and supplies. This Agency concluded that further exploration was necessary and requested that the U. S. Bureau of Mines make a study and propose a suitable program. The Bureau of Mines recommended that further drilling be done and a diamond drilling program was started in October of 1943 under the direction of the U. S. Bureau of Mines.

The Bureau of Mines drilled three diamond drill holes from the 900 ft. level of the Locan Shaft in the area of the discoveries made by the Eureka Corporation, Ltd. and spaced approximately 200 feet from the holes previously drilled. These three holes encountered lead-zinc ore as follows:

Drill Hole D- Across 27½ ft. at a depth of from 1,469 to 1,496.5 ft.

Drill Hole E- Across 59½ ft. at a depth of from 1,502.5 to 1,562 ft.

Drill Hole F- Across 27.4 at a depth of from 1,375.6 to 1,403 ft.

In 1945 when materials and equipment were again available, the Company prepared to continue sinking of the Fad Shaft and sinking was started that year.

ITEM 7. a) (continued)

The Fad Shaft was sunk to a depth of 2,415 feet, connection was made to the Locan 900 foot level and stations cut at 1,234, 1,684, 2,034 and 2,250 feet. A crosscut was started on the 2,250 level. At a point approximately 175 feet from the shaft, on March 25, 1948, a heavy flow of water which was greater than pumping capacity was encountered and the shaft was flooded. An attempt was made to recover the shaft by increasing pumping capacity during the period May 16, 1948 to December 16, 1948 but the velocity of the water eroded the 2,250 level water course, depositing rock material in the bottom of the shaft to a depth of some 80 feet. Pumping was stopped again December 16, 1948, in order to prevent further difficulty.

Ira B. Joralemon and W. E. Romig made examinations of the property in the later part of 1949 and it was recommended that exploration be conducted in the fault block northwest of the Bowman Fault in an attempt to discover ore at a higher horizon. In August of 1950 an extensive drilling program was commenced to explore the ore possibilities in this upper fault block. A total of 6,929 feet of rotary drill hole was drilled cutting four sections in the Eldorado dolomite in the block. One diamond drill hole, collared underground on the Locan 900 foot level, was drilled to cut the upper section of the lower fault block and intersect the Ruby Hill Fault. Another diamond drill hole, collared underground on the Richmond 800 foot level, was drilled to explore the downward extensions of the ore zone in the footwall of the Ruby Hill Fault.

Drilling in the upper fault block on the hangingwall side of Ruby Hill Fault was not encouraging, with the exception of some oxidized ore indications in one of the rotary rig drill holes. A diamond drill hole is now being drilled from the Richmond 800 foot level to check this favorable indication. The possibilities of the area cannot be said to be exhausted because of the small number

ITEM 7 a) (continued

of holes drilled.

b) The following is a partial record of the production from adjoining and neighboring properties, some of which are now included in the properties under the control of Eureka Corporation Limited:

MF-103 16 (b) Property	Produc. Tons	Value	Metal	Present Status	Remarks
Dunderberg	51,268	$1,882,933	Au,Ag & Pb	Inactive	Greatest production was in 1870's & 80's.
Connolly	4,657	166,794	Au, Ag & Pb	"	Greatest production was in 1870's & 80's.
Eureka Croesus Mining Co.	8,300	332,000	Au, Ag & Pb	"	Consolidation of Dunderberg & Connolly, prod. in 1917 & 1931, recent prod. not known.
Silver Connor Mine	4,626	158,900	Au,Ag & As	"	Greatest production in 1880's, recent prod. of leasers not known.
Geddes & Bertrand Mine	32,081	1,000,000	Ag, Au	"	Greatest prod. during 1870's & 80's
Diamond Mine	32,705 30,000	1,060,875 650,000	Pb,Ag,Au & As	"	Greatest prod. dur. 1873-1896. Prod. dur.1937-38 period (est.)
Eureka Tunnel	4,275	192,476	Ag,Au & Pb	"	Greatest prod. during 1880's.
Windfall Mine	40,000	200,000	Au	"	Greatest prod. 1909-,1912
Jackson	24,245	834,230	Pb, Au Ag	"	Within Eureka Corp. claim bound.
Phoenix	4,630	134,078	Pb,Au, Ag	"	Within Eureka Corp. claim bound. Greatest production in 1870's.
Silver Lick	4,875	219,349	Au,Ag	"	Within Eureka Corp. claim bound.
Albion Consol Mining Co.	7,127	245,305	Pb,Au Ag	"	Within Eureka Corp. claim bound. Greatest prod. in 1880's.
Bullwacker	4,118	116,069	Pb,Ag	"	Within Eureka Corp. claim bound.
Holly	25,000	400,000	Pb,Ag	"	Includes prod. from Bullwhacker, Silver West & Holly dur 1920's. Within Eureka Corp. claim bound.

ITEM 7. (continued)

c) The following is a record of some of the recent available reports which furnish information pertinent to exploration of the Richmond-Eureka mine, copies of which have been included in our Application for Aid for an Exploration Project on Form MF-103, Docket N. DMA-74-X. Copies of these reports are available in your agency's office.

Published Reports:

American Institute of Mining and Metallurgical Engineers, Technical Publication No. 2196, "The Story of Eureka" by William Sharp, Chicago Meeting, February 1946; Published in Mining Technology, Class I, September 1946. (Exhibit E) Form MF-103.

United States Department of Interior, Bureau of Mines, Report of Investigation, R.I. 3949, December 1946, "EXPLORATION OF THE EUREKA CORPORATION GOLD, SILVER, LEAD AND ZINC PROPERTIES, EUREKA COUNTY, NEVADA", by E. O. Binyon. (Exhibit F), Form MF-103, (History, exploration and metallurgical testing).

Private Reports:

Synopsis of a Report on An Investigation of the Properties of Eureka Corporation Limited in Nevada by Ira B. Joralemon, September 1949. (Exhibit G), Form MF-103, (Exploration and recommendations).

Report on Eureka Property by Nepheline Products Limited, Lakefield, Ontario, work accomplished during the first six months of 1945. (Exhibit H), (Ore dressing and metallurgical testing), Form MF-103.

ITEM 8. Officers and Directors, and Five Largest Stockholders.

Following are the names and addresses of all officers and directors of Eureka Corporation Limited:

NAME	ADDRESS	
T. Lindsley	230 Park Ave., N. Y.	Director & President
G. W. Mitchell	Eureka, Nevada	Director, Gen'l. M'gr. & Vice President
J. M. Easson	217 Bay St. Toronto	Director
W. B. Malone	25 King St. W. Toronto	Director
Maurice R. Jennings	25 King St. W. Toronto	Director & Secty.
Paul W. Zeckhausen	230 Park Ave., N. Y.	Treasurer

ITEM 8. (continued)

The following are the names and addresses of the five largest stockholders in Eureka Corporation Limited:

NAME	ADDRESS	NO. OF SHARES
Gee & Co.	25 King St. W. Toronto, Ontario, Canada	1,664,589
C. A. England & Co.	25 King St. W. Toronto, Ontario, Canada	455,206
Dow & Co.	25 King St. W. Toronto, Ontario, Canada	164,865
Northfield Canada, Ltd.	25 King St. W. Toronto, Ontario, Canada	120,000
Dominick	25 King St. W. Toronto, Ontario, Canada	91,696

ITEM 9. Capital Stock Issues.

Capital shares - par value $1.00 Canadian

Authorized	5,000,000 shares	
Unissued	148,545 shares	
Issued and Outstanding	4,851,455 shares	$ 4,593,780.91
Paid-in surplus		2,085,150.69
TOTAL		$ 6,678,931.60

ITEM 10. Production

Richmond-Eureka mine has been in the exploration stage since 1937 and no production was made during the years 1948-50 inclusive.

ITEM 11. Changes in Monthly Rate of Production.

It is contemplated that there will be no production during the exploration period at the mine. Production will be dependent on favorable exploration of indicated ore.

ITEM 12. Ore Or Mineral Reserves.

a) The ore bodies occur as the typical replacement deposit in the Eldorado dolomite, a member of the Paleozoic sediments that are found widespread through the Great Basin area. Practically no inclusions of unreplaced dolomite are found in the ore bodies and replacement of the dolomite is essentially complete. The outlines of the ore bodies are definite and there is a sharp line of demarcation between the ore and barren dolomite. A complete description of the ore deposits will be found in the attached Report of Investigations, R.I. 3949, United States Department of the Interior, Bureau of Mines, December 1946, by E. O. Binyon, (Exhibit E) (Copy attached to Application Form MF-103).

Pertinent maps are attached to Form MF-103 and included in Exhibits E and F. (Form MF-103).

No positive ore is blocked out in the Richmond-Eureka Mine. Five diamond drill holes, in an area 300 feet long and 200 feet wide, intersected zinc-lead ore ranging in thickness of from 27.4 feet to 59.5 feet at a little more than 2000 feet below the surface. The U. S. Bureau of Mines made no estimates of tonnage but in their ore dressing experiments calculated the weighted average content of the ore to be as follows:

Lead	-	4.46 %
Zinc	-	9.84 %
Gold	-	0.241 ounces per ton
Silver	-	7.28 ounces per ton

Ira B. Joralemon in his investigation states that the drilling indicates a possible 800,000 tons of heavy sulphide ore that averages 3.74 % lead, 9 % zinc, 0.192 ounces of gold and 5.92 ounces of silver. He also states that this indicated ore occupies less than a tenth of the promising area northeast of the Ruby Hill Fault. The U. S. Bureau of Mines reported the best hole to average 6.9 % lead, 10.93 % zinc, 0.388 ounces gold and 11.52 ounces silver over a thickness of 65 feet.

ITEM 12. a) (continued)

Based on the indicated tonnage and grade of ore as estimated by Ira B. Joralemon, the metal content and the gross and per ton value of the ore at present market prices would be as follows:

GRADE & METAL CONTENT

	TONS OF ORE	GRADE	METAL CONTENT
Lead	800,000	3.74%	29,920 tons
Zinc	800,000	9.00%	72,000 "
Gold	800,000	0.192 oz/ton	153,600 ozs.
Silver	800,000	5.92 oz/ton	4,736,000 "

GROSS & PER TON VALUE

Lead	-	29,920 x 2,000 x $0.17	- $ 10,170,000
Zinc	-	72,000 x 2,000 x $0.175	- 25,200,000
Gold	-	153,600 x $35.00	- 5,400,000
Silver	-	4,736,000 x $0.9016	- 4,260,000
GROSS VALUE OF INDICATED ORE			$45,000,000
GROSS PER TON VALUE OF ORE			

Details of the diamond drilling results are contained in the above referenced Report of Investigations by the U. S. Bureau of Mines which is attached . (Copy attached to application Form 103, Exhibit F).

b) The ore body is a typical replacement deposit in dolomite and occurs in a flat-dipping zone, more than 2,000' below the surface.

1. Assay plans and sections showing the location and probable size of the indicated ore body, are included in the following reference reports which are attached to our application Form MF-103, Docket No. DMA-74-X, and marked as shown. The U. S. Department of Interior, Bureau of Mines Report of Investigation R. E. 3949, December 1946, "EXPLORATION OF THE EUREKA CORPORATION GOLD, SILVER, LEAD AND ZINC PROPERTIES, EUREKA COUNTY, NEVADA", by E. O. Binyon, (Exhibit F).

ITEM 12. b) (cont.) Synopsis of a Report of an Investigation of The Properties of Eureka Corporation Limited In Nevada, by Ira B. Joralemon, September 1949, (Exhibit G).

2. No positive ore is blocked out in the Richmond-Eureka mine but five diamond drill holes have indicated an ore body larger than 800,000 dry short tons, with an average grade per ton of 3.74% lead, 9% zinc, 0.192 oz. of gold and 5.92 oz. of silver.

c) The property is not a placer.

ITEM 13. Access Roads.

The main works of the Richmond-Eureka Mine are 2½ miles southwest of the town of Eureka, Eureka County, Nevada and is connected to the town by a two-lane surfaced highway maintained by the State of Nevada. The town of Eureka is on the main transcontinental highway, U.S. 50, and is 78 miles west of Ely, Nevada and 246 miles east of Reno, Nevada.

The nearest rail connections are at Palisade, Nevada which is on the main-lines of the Western Pacific R. R. and the Southern Pacific R. R. Palisade is 90 miles north of Eureka and the two towns are connected by Nevada State Highway, Route #20, which heads north from a junction with U. S. Highway 50, 5 miles west of Eureka. State Highway 20 is surfaced for the first 30 miles and the balance of the road is graveled and maintained by the State. An additional section of this road is to be surfaced this year, 1951, and it is contemplated that the total distance will be surfaced in a few years. This would then be the most direct and feasible route for shipment of large quantities of freight and supplies.

At the present time, freight and supplies for the Eureka District are brought in by truck freight lines from Salt Lake City and Ely to the East and Reno to the west.

ITEM 14. Water Supply.

Water is available from the mine works for operations at all seasons. The quantity is in excess of 1,000 gallons per month and would be adequate for any

ITEM 14. (continued)

contemplated operation. Water from the mine is solely owned by Eureka Corporation Limited, and water rights are recorded in Eureka County courthouse, Eureka, Nevada.

ITEM 15.

Power is generated in the Company's diesel electric power plant on the property. The present maximum capacity of this plant is 6,350 K.W. The following is a record of the cost of operating the power plant in 1948, during a period when power production would be comparable to the proposed power operation:

MONTH 1948	COST	K.W.H. CONSUMPTION	COST PER K.W.H.
July	$ 43,412.08	2,465,860	$ 0.0176
August	40,827.13	2,648,050	0.0154
September	63,879.91	3,346,300	0.0191
October	57,857.28	3,578,100	0.0162
November	74,053.62	4,241.093	0.0175
December	40,181.17	2,235,320	0.0180
Six months ending 12/31/48-	$320,211.19	18,514,723	$ 0.0173

The following is a record of other sources of power which are not considered available at this time.

The nearest hydro-electric power lines are at Pioche, Nevada, approximately 150 miles from Eureka and at Winnemucca, Nevada, which is also approximately 150 miles from Eureka. Neither of these sources have sufficient line capacity at the present time to make available at those locations the amount of power required.

Kennecott Copper Company supplies the Ely, Nevada district with steam generated power but no power is available from this source.

The cost of power at Pioche is approximately $ 0.006 per K.W.H. and in the Ely district is approximately $0.01 per K.W.H.

ITEM 15. (continued)

The estimated cost to rebuild and extend the existing power line from Pioche is in excess of $2,000,000.00. At the present time the power line from the Hoover Dam to Pioche does not have sufficient capacity to carry the additional load without increasing the voltage, necessitating installation of new insulators and new distribution equipment.

The proposed exploration program will require the installation of two additional 1,000 K.W. diesel generagors. Foundations are in and ready for installation. This will increase the rated capacity of the plant to 8,350 K.W.

When pumping 9,000 gal. per minute from an average depth of 1,500 feet below the shaft collar, approximately 144,000 kilowatt hours of power per day will be generated, equal to 4,320,000 kilowatt hours per month. All other power demands, such as the 600 H.P. hoist, are included in the above.

ITEM 16. Labor.

Men Employed:

Surface		
Office, Warehouse and Engineers	-	4
Supervision	-	2
General Labor	-	8
Mining		
Supervision	-	2
Miners and Repair Men	-	10
Diamond Drilling		
Drill Operators	-	4
TOTAL		30

If our application for an exploration loan is approved we contemplate employing

ITEM 16. (continued)

the following labor and supervisory personnel, at the mine:

Labor - By numbers and classes w/wages

Item (a)	Total Months	Hourly Rate	Total Wages	Payroll Taxes	
6 Pumpmen	18	155 ½	$ 46,575.36	$ 6,893.15	$ 53,468.51
3 "	12	"	15,525.12	2,297.72	17,822.84
4 Electricians	18	176	35,143.68	5,201.26	40,344.94
3 Hoistmen	18	188 ½	28,229.76	4,178.00	32,407.76
2 "	12	"	12,546.56	1,856.89	14,403.45
1 Skip tender	18	155 ½	7,762.56	1,148.86	8,911.42
5 Skip tenders	12	"	25,875.20	3,829.53	29,704.73
3 Top landers	18	145 ½	21,790.08	3,224.93	25,015.01
3 Working Shift Bosses	18	188 ½	28,229.76	4,178.00	32,407.76
* 2 Miners	18	165½	16,523.52	2,445.48	18,969.00
* 4 "	12	"	22,031.36	3,260.64	25,292.00
* 6 "	4	"	11,013.54	1,630.00	12,643.54
* 2 Muckers	18	155 ½	15,525.12	2,297.72	17,822.84
* 4 "	12	"	20,700.16	3,063.62	23,763.78
1 Motorman	18	"	7,762.56	1,148.86	8,911.42
2 "	12	"	10,350.08	1,531.81	11,881.89
3 Switchmen	12	"	15,525.12	2,297.72	17,822.84
5 Mechanics	18	176	43,929.60	6,501.58	50,431.18
4 "	4	"	7,808.20	1,155.61	8,963.81
2 Watchmen	18	143	14,277.12	799.52	15,076.64

ITEM 16. (continued)

Item (a)	Total Months	Hourly Rate	Total Wages	Payroll Taxes	
2 Carpenters Framers	18	176	$ 17,571.84	$ 1,194.89	$ 18,766.73
2 Carpenters Helpers	18	145 ½	14,526.72	987.82	15,514.54
1 Surface Laborer	18	145 ½	7,263.36	406.75	7,670.11
1 Truck Driver	18	155 ½	7,762.56	605.48	8,368.04
1 Cat Skinner	18	180 ½	9,010.56	702.82	9,713.38
2 Warehousemen	18	176	17,571.84	1,019.67	18,591.51
1 Bookkeeper	18	"	8,785.92	386.58	9,172.50
2 Typists	18	155 ½	15,525.12	683.11	16,208.23
6 Diesel Oper.	18	176	52,715.52	3,848.23	56,563.75
* Bonus Payments for Drifting Contracts			20,000.00	2,960.00	22,960.00
			$577,857.90	$71,736.25	$649,594.15

Item b) Supervision by numbers and positions w/salary.

1 Manager	18	2/3 Time	$15,000/yr	$22,500 yr	$ 3,330.00	$25,830.00
1 Gen'l. Sup't.	18	Full T.	12,000 "	18,000 "	2,664.00	20,664.00
1 Mine Sup't.	18	" "	600/mo	10,800 mo	1,598.40	12,398.40
1 Mine Foreman	18	" "	500/"	9,000 "	1,332.00	10,332.00
1 Engineer	18	" "	425/mo	7,650 "	1,132.20	8,782.20
1 Master Mechanic	18	" "	500/mo.	9,000 mo.	1,332.00	10,332.20
1 Surface Fore.	18	" "	450/"	8,100 "	1,198.80	9,298.80
1 Accountant	18	" "	525/"	9,450 "	1,398.60	10,848.60
				$94,500	$13,986.00	$108,486.00

ITEM 17. Equipment and Facilities.

BUILDING & STRUCTURES

Fire House Building	$ 403.05	
Hoist House Building	12,793.27	
Head Frame and Bin	15,826.81	
Machine Shop Building	23,175.07	
Power House Building	199,021.54	
Power House Building Addition (Quonset)	20,480.68	
Small Diesel Building and Addition	13,359.69	
Warehouse Building	12,807.33	
Oil House	2,544.87	
Powder Magazine	1,608.35	
Miscel. Sheds	2,695.01	
Water Treatment Building	1,725.33	
Power Plant Water Treatment Bldg.	2,841.41	
Landing Room and Tunnel	2,345.61	
Steel Storage Construction	3,097.23	
Hospital Building	2,694.24	
Dry Room	10,019.68	
Engineering Building	2,400.75	
Trailer Houses	3,825.50	
TOTAL BUILDINGS & STRUCTURES		$333,665.42

MINING EQUIPMENT

1	Ledgerwood Double Drum Electric Hoist complete w/2 - 300 H.P. Motors, Grids, Controls and accessories. Installed	$ 53,494.15
1	J. Geo. Leyner Engineering Works Single Drum Chippy Hoist powered by 50 H.P. Motor and with controls, Grids and Accessories.	1,698.99

ITEM 17. (continued)

MINING EQUIPMENT

1	American Hoist and Derrick Co. Single Drum Hoist powered by D-13000 Caterpillar Tractor Diesel Engine.	$ 5,571.00
7	Utility Air Hoists	3,045.87
2	Safety Cross Heads	741.62
3	Muck Skips complete w/safety & dumping devices	4,993.58
1	10"x6"x7" Sullivan Air Compressor powered by 75 H.P. G.E.Motor. Complete.	4,865.31
1	15 12x8x10 C.P. Compressor w/75 H.P. Motor and Accessories. Complete	6,283.90
1	17x10 -677 cuft. I.R. w/100 H.P. Motor and accessories. Complete	4,486.62
1	210 cu.ft. I.R. Portable Air Compressor direct connected to Waukesha Gasoline Engine	3,295.38
1	Imperial Type 10XB I.R. Compressor V Belt connected to 200 H.P. Electric Motor and complete w/Accessories, etc.	6,205.60
7	2" M.R.V. I.R. Motor Pumps less Motor	2,050.00
8	Pomona Sinking Pumps rated 725 GPM at 508' Lift less Motors	6,453.76
4	Byron Jackson #5KM-6 Stage Submersible Pumps rated 2000 GPM at 565' Lift less Motors	19,581.79
4	Pomona Low Life Pumps rated 875 GPM at 40' Lift less Motors	1,297.57
4	Byron Jackson #5KM Single Stage Low Lift Pumps rated at 2000 GPM at 45' Lift less motors.	3,588.00
1	Pomona 5 stage Deep Well Pump rated at 950 GPM at 171' Lift less Motor	2,208.33
23	Ingersoll Rand 4GT-2 Station Pumps rated 1000 GPM at 1000 ft. Head less Motors	32,389.22

ITEM 17. (continued)

2	Aldrich Type 4B4ST - 4 Stage Station Pumps rated 750 GPM at 575' Head less Motors	$ 450.00
3	15 H.P. Vertical Shaft Motors 1800 R.P.M.	987.00
2	20 H.P. Vertical Shaft Motors 1160 R.P.M.	1,024.00
3	25 H.P. Horizontal Splash Proof Motors 3450 R.P.M.	692.24
3	25 H.P. Vertical Shaft Motors	1,440.00
2	40 H.P. Horizontal Splash Proof Motors 3450 R.P.M.	861.80
2	50 H.P. Horizontal Splash Proof Motors 3450 R.P.M.	807.30
5	100 H.P. Vertical Shaft Motors 1800 R.P.M.	6,932.80
1	125 H.P. Vertical Shaft Motors 1800 R.P.M.	1,315.29
2	125 H.P. Horizontal Induction Motors 1750 R.P.M.	2,000.00
1	150 H.P. " " " " "	1,553.83
1	200 H.P. " " " " "	2,247.26
4	250 H.P. " " " " "	11,325.52
10	350 H.P. " " " " "	31,519.44
4	350 H.P. Submersible Motors 1750 R.P.M.	29,668.00
8	450 H.P. Horizontal Induction Motors 3600 R.P.M.	36,158.88
6	100 H.P. Starters	4,816.30
2	125 H.P. "	300.00
2	150 H.P. "	971.70
3	250 H.P. "	5,817.00
1	200 H.P. "	570.17
17	350 H.P. "	29,813.69
2	370 H.P. "	3,826.80

ITEM 17. (continued)

2	450 H.P. Starters	$ 2,860.20	
19	400 Amp. Disconnecting Switches	8,768.00	
6	Automatic Pump Control Panels	6,905.70	
1	Joy D.D.T. Dual Jumbo Drill	4,183.27	
1	Eimco 12B Mucking Machine	1,472.90	
1	Eimco Model 21-55 Rocker-shovel	4,149.73	
1	Joy Model H.L. 20 Mine Car Loader	2,620.80	
2	Shaft Mucking Machines	8,027.61	
1	15 H.P. Sullivan Type AAF-212 Slusher w/Pacific Slushing Scraper #H-12-H-8	1,243.53	
1	10 H.P. Sullivan Type FF-211 Slusher w/Pacific Slushing Scraper #H-36-H8	1,249.12	
1	50 H.P. 3 Drum Universal Scraper Hauler w/1 1/2 yd. H.D. Sauerman Scraper	5,341.27	
1	30 H.P. 2 Drum Sullivan Type D-212 Scraper Hauler w/48" Model "C"	2,913.68	
1	Stephen Adamson 1/2 ton Battery Locomotive	1,949.97	
2	Mancha Type "B" Little Trammer Locomotives	9,820.48	
7	"Card" 47 cuft. Rocker Dump Cars	4,142.97	
8	Mine Timber Cars w/Card Timken Brg. Trucks	739.50	
2	Small Air Blowers	517.80	
3	Coppus Fans	2,018.67	
80	Wheat Electric Mine Lamps	1,283.06	
	Impact Wrenches, Track Benders, Etc.	2,077.65	
	TOTAL MINING EQUIPMENT		$411,490.67

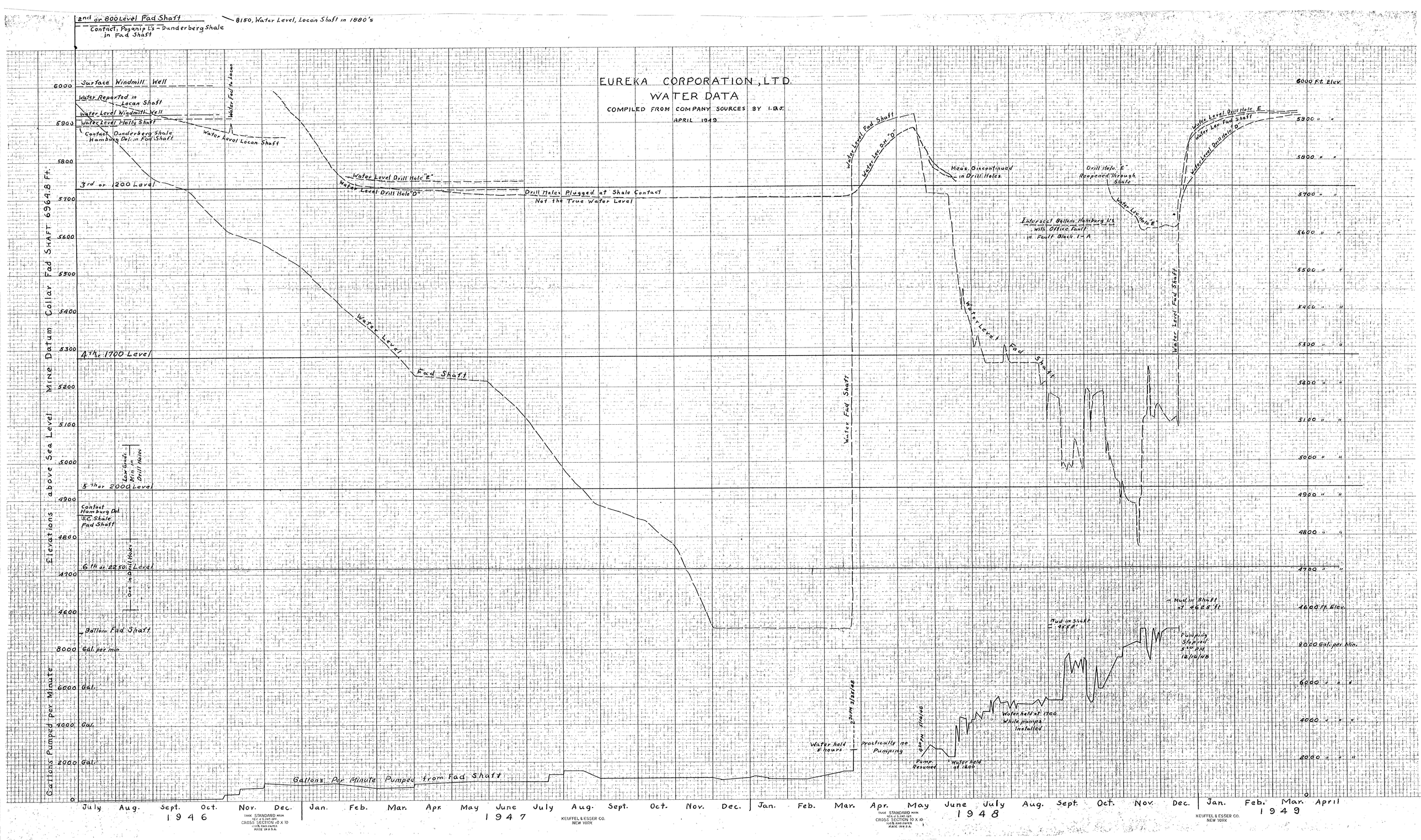
ITEM 17 (continued)

FACILITY EQUIPMENT

	Office Equipment	3,907.92	
	Engineering Equipment	1,926.77	
	Shop Equipment	38,300.38	
	Construction Equipment	5,683.06	
	Power Lines & Apparatus	71,003.56	
1	McIntosh-Seymour Diesel Engine	38,279.47	
3	1000 KW Worthington Diesel Generator	404,818.69	
	Foundations, etc. for 4th and 5th Worthington Installations	11,315.75	
4	800-1000 KW General Motor Diesel Generators	238,712.23	
3	UD-18 International 50 KW Diesel Electric Units	15,819.65	
	Small Light Plants	1,375.00	
	Electric Analyzers, etc.	947.92	
	Tractors, Trucks and Cars	19,087.98	
	Heating System	9,391.97	
	Diesel Storage Tanks (168,000 gals.)	14,010.63	
	Fire Hydrants, Water Lines & Fire Fighting Equip.	22,632.84	
	Hospital Equipment	697.63	
	Water Treatment Equipment	6,884.89	
	Water Tanks	12,098.18	
	Miscellaneous	2,049.68	
	TOTAL FACILITY EQUIPMENT		$918,944.20
	Milling Equipment-Miscellaneous	19,051.17	19,051.17
	TOTAL EQUIPMENT		$1,349,486.04

ITEM 18.

There are no other conditions nor circumstances that are not described above.


EUREKA CORPORATION, LTD.
WATER DATA
COMPILED FROM COMPANY SOURCES BY I.B.J.
APRIL 1949
2nd or 800 Level Fad Shaft
Contact, Paganip Ls - Dunderberg Shale in Fad Shaft
8150, Water Level, Locan Shaft in 1880's
Surface Windmill Well
Water Reported in Locan Shaft
Water Level Windmill Well
Water Level Holly Shaft
Contact Dunderberg Shale Hamburg Dol. in Fad Shaft
Water Fad to Locan
Water Level Locan Shaft
3rd or 1200 Level
Water Level Drill Hole "E"
Water Level Drill Hole "D"
Drill Holes Plugged at Shale Contact Not the True Water Level
Water Level Fad Shaft
Water Lev. Out "D"
Meas. Discontinued in Drill Holes.
Drill Hole "E" Reopened through Shale
Water Level Drill Hole "E"
Intersect Bottom Hamburg Ls with Office Fault in Fault Block 1-A
Water Level Drill Hole "E"
Water Lev. Fad Shaft
Water Level Drill Hole "D"
Water Level Fad Shaft
4th or 1700 Level
Water Level Fad Shaft
Water Fad Shaft
5th or 2000 Level
Low Grade Mtl. in Drill Holes
Contact Hamburg Dol. S.C. Shale Fad Shaft
6th or 2250 Level
Ore in Drill Holes
Bottom Fad Shaft
Mud in Shaft at 4625 ft.
Mud in Shaft at 4554'
Pumping Stopped at 2:00 P.M. 12/10/48
Water held at 1700 while pumps installed
Water held 8 hours
Practically no Pumping
Pump Resumed
Water held at 1800
Elevations above Sea Level
Mine Datum Collar Fad SHAFT 6964.8 Ft.
6000 Ft. Elev.
5900
5800
5700
5600
5500
5400
5300
5200
5100
5000
4900
4800
4700
4600 Ft. Elev.
Gallons Pumped per Minute
8000 Gal. per min.
6000 Gal.
4000 Gal.
2000 Gal.
0
Gallons Per Minute Pumped from Fad Shaft
July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. April
1946
1947
1948
1949
KEUFFEL & ESSER CO. NEW YORK