

**Technical Session Undertakings** 

# UNDERTAKING RESPONSE

EA No: 0809-001

Undertaking No: 12

# Date Received

Transcript: Day 5, pg. 217

# Undertaking:

The Giant Mine Project Team to provide documents identified in Alternatives North Information Request #4, question 4, to Kevin O'Reilly and to post to the registry.

# **Response:**

# Introduction

Technical sessions to discuss the Giant Mine Remediation Project Developers Assessment Report were held in Yellowknife in the week of October 17, 2011. This memorandum is to answer questions regarding Source information used to make the statements quoted in Question 4.4 of Alternatives North information request.

# Response

# Question 4, bullet 1: page 4-10, a May 1949 study on the effects of arsenic pollution

The source of this information is the May 1949 monthly operation report to Ventures Ltd. Board of Directors. The original May 1949 study report, mentioned on page 4-10 of the Developer's Assessment Report, was not found during the research for the history of the mine in 2002. A photocopy of the monthly report was not made, in 2002, as the original document could be located in the archives at the Prince of Wales Heritage Centre. As a result of this undertaking the Giant Mine Remediation Project Team has requested a copy however has not been able to acquire a copy of the May 1949 monthly operation report by November 14, 2011. A copy of the monthly report will be filed with the Mackenzie Valley Environmental Impact Review Board upon receipt.

Question 4, bullet 2: page 4-11, according to the records, surface disposal of arsenic trioxide dust occurred in July 1949 and February 1950, but the disposal location is not recorded in the any of the documents reviewed





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The source of this information is the July 1949 and February 1950 monthly operation report to Ventures Ltd. Board of Directors. Photocopies were not made as the original documents could be located in the archives at the Prince of Wales Heritage Centre. During the course of writing the site history in May 2002, subsequent searches for other documents and maps that may indicate where these surface disposals occurred but could not be located. The location of these disposals was not mentioned in the monthly reports.

As a result of this undertaking the Giant Mine Remediation Project Team has requested a copy however has not been able to acquire copies of the July 1949 and February 1950 monthly operation reports by November 14, 2011. Copies of the monthly reports will be filed with the Mackenzie Valley Environmental Impact Review Board upon receipt.

Question 4, bullet 3: page 4-11, the sand plain option was abandoned due to a high water table, and the Department of National Health and Welfare (the responsible regulatory authority) would not consider the Veronica Lake option until more information was available.

The source of this information is the February 24, 1951 letter to G.E.B. Sinclair of the Department of Resources and Development already submitted to the Mackenzie Valley Environmental Impact Review Board.

Question 4, bullet 4: page 4-11, in a letter dated July 21, 1950, the Department of National Health and Welfare stated that is regarded the use of concrete vats on surface as the safest method of storage.

The original letter from July 21, 1950, mentioned on page 4-11 of the Developer's Assessment Report, was not was copied during the research for the history of the mine in 2002.

As a result of this undertaking the Giant Mine Remediation Project Team has requested a copy from the Prince of Wales Heritage Centre and reviewed the files stored at site in the Giant Mine administration building however as of November 14, 2011 a copy of the letter has not been found.

The Giant Mine Remediation Project Team is continuing to search for the July 21, 1950 letter and previously mentioned reports and will these with the Mackenzie Valley Environmental Impact Review Board upon receipt.

Alternatives North information request #4 requested "any other relevant document held at the Giant Mine site related to understanding how the arsenic pollution and its effects on people and the environment were initially identified and managed." The attached five documents may be of interest. In response to the question of why so few documents, the bulk of information used in constructing the





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Giant Mine history was obtained from the monthly operation reports to Ventures Ltd. Board of Directors.

# Attachments:

Monthly Report - May 1949 Monthly Report - July 1949 Monthly Report - February 1950



Yellowkmife, M. M. M. M. June 11th, 1949.

The President and Mirotors Giant Yellowinits Sold Mines Limited

# Howchly Report - Ney, 1949.

toar dra:-

The following report covers operations at the property during the month of May, 1949. The end of the month marks the completion of the first year of production for purposes of mediatance payments under the Emergency Sold Mining Assistance Act. and for tex exception under the Income Tex Act.

Production for the month amounted to 10,855.8 owness of Gold and 4,477.4 owness of Silver, with a total gross value of 3383,158.00. The milling rate averaged 243.4 tons per day, with calculated mill heads of 0.81 cc./ton, for a total of 7,546 tone milled during the south. Gold recovery from current townage totaled 5,234.3 owness, representing 48.2% of the production for the month, of which 1,171.9 owness were obtained by Amalgamention and 4,062.4 owness from Reasting and Cyanidation of flotation concentrates. Treatment of concentrates real-simed from the stockpile produced 5,621.5 owness of Gold, representing 51.8% of the gross production for the month. At the end of the period, the balance in stockpile was estimated to be 2,615 tone with not recoverable gold content of 11,300 owness, with a gross value of \$395,500.00.

Tone treated in the Honster during the month emounted to 1,473 tons, consisting of 615.5 tone of current flatation concentrates and 857.5 tone of roclaimed stock concentrates. Honster feed rate everaged 47.5 tone per day at 7.54 one./ton, made up of 20 tone of current flatation concentrates and 27.5 tone of reclaimed stock concentrates. Calcine residues averaged 0.784 or./ton during the month, as compared with 0.84 or./ton and 1.24 one./ton in April and March, respectively. Thile dust surveys in the Honster stock indicate that dust losses have been high, overall extraction improved substantially and absorption was at a minimum during the period.

Total income during the month amounted to 3525,679.00, ande up of 3347,443.00 from Mint receipts, \$167,740.00 from Assistance Payments for part of 1948, and the first quarter of 1949, and \$1,605.00 in repayment by the Iominion Covernment on Transmission System interest. The Operating Bank Loss was reduced by \$310,163.00 during the month to a total of \$974,957.00 at the end of the fiscal year on May 31st. This represents a reduction of \$549,451.00 from the high of \$1,524,408.00 at February 20th of this year.

## Freatment Flont

# Production, May 1 - 31, 1949

Recoveries shown in the following table are based on the following

Fine Ounces allver 3016 April 21-30 Bars 59 to 66, Adjustment to Mint Boturns -9.57 -13.28 1-20 Bars 67 to 79, Mint Returns May 6,786.65 2,678.25 21-31 Bars 80 to 38,21me Assay Office Foturns May 4,078.70 812.46 20.855.78 4,477.43

data:-

- 2 -

Fry Tons Milled: Month Aver. per Day Aver. Mill Hasds, per ton	7.546 243-4 0.810 cz. \$25.96
Recover10a:	
(1) From Current Turnage (a) by Analgumetion Extraction	1,171.93 ozc. \$41,018. 19.22
(b) in Flotation Concentrates Fons Concentrates Froduced Aver. Grade per ton Contained Ounses Extraction Ratio of Concentration Flotation Tailings, Tons	615.48 7.368 ozs. \$257.88 4.535.16 74.22 12.26 : 1 6.930.5
Aver. Grude, per ton	0.099 \$2.05
(c) by Messting & Syanidetion Fone tracted Conteined Ounces Cunces Measversd	615.48 4.535.16 4.062.38 \$142,163.
(I) <u>From Stockpilod Concentrates</u> Toms reclaimed and treated Aver. Grade per tom Contained Cunces Ounces Recovered	857.5 7.319 ozs. \$256.16 6,276.35 5,621.47 \$196,751.
Granication Residues, per ton	0.784 \$27.45
mesery of Recoveries	
	Junces Gross Vilue
<ul> <li>(1) From Current Production</li> <li>(a) by Amalgametican</li> <li>(b) from Flotation Conc. <u>A.062.38</u></li> </ul>	5,234.31 \$1.63,201.
(2) From Clockpiled Concentrates Reclaimed	5.621.67 196.751.
Total Sold Recovered Total Silver Recovered Gross Value of Production	10,855.78 4,477-43 3,206. 383,158.
Operatione	
Crusting Plant Tone Crushed per sporating hour	58.2

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Tons Cru	shed pe	r ope	rating	hum	r i i i i i i i i i i i i i i i i i i i		58.2
Crushing	Time,	aver.	Lours	per	operating	dey	5.0
A more than							

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# Grinding, Amalgamation & Flotation

Mill operating time averaged 99.7% for the month. The primary Ball Mill grind improved and on May 19th the Classifier overflow was increased from 19% to 21% solids. Jig operation was satisfactory and Amalgamation results improved as compared with the previous month.

Flotation results varied considerably during the first half of the month when Flotation feed temperatures were low, ranging from  $56.2^{\circ}$ F. to  $64.2^{\circ}$ F. Results improved during the last half of the period with feed of increased density (30.7% solids) and higher average temperature ( $63.9^{\circ}$ F.)

#### Roasting & Cyanidation

Dust surveys indicated that gold losses in dust from the stack have been comparatively high, due, in larger part to unsatisfactory control of the draft with the dampers originally installed. New type dampers were installed, permitting reduction in the draft from 0.25 to 0.10. Immediate increase in the stack temperature from 360°F. to over 400°F. occurred, and a noticeable improvement was evident in general operation. Dust surveys are being continued and a program of heat conservation, recommended by Mr. W. G. Hubler, Consulting Metallurgist, has been instituted. Studies are being made in conjunction with the Con Mine, of the effect on the district generally of the arsenic fumes being discharged into the atmosphere from the two roasting plants in the area.

Replacement of sections and fittings of the Calcine return line from the Roasting plant to the Mill, due to corresion of the ordinary iron pipe by the acid Calcine, continues to be a serious problem. The possibility of using hard rubber or rubber-lined pipe and fittings is being investigated.

The following data indicate that absorption was at a minimum in both the Roasting and Cyanidation plants during the month as the difference of 221.94 ozs. between the calculated gold content of the Roaster feed and that of the Calcine, calculated from Cyanide plant products, probably represents dust losses in the Roasting plant.

#### Roaster Feed

Current Concentrate Stock "	<u>Tons</u> ss 615.48 <u>857.53</u> 1473.01	Grade ( <u>ozs./ton</u> ) 7.3685 <u>7.3191</u> 7.3397	Contained Ounces 4,535.16 6,276.35 10,811.51	<u>% 1</u> <u>Tons</u> 41.78 <u>58.22</u> 100.00	Dist. Ounces 41.95 58.05 100.00
Cyanidation Plant					
Solution Precipitated	36,090	0.2688(1)	9,701.14)		
Calcine, Residue	1,104.8	0.0006(2) 0.7845	21.65) 866.78	91.82 8.18	
Calcine	1,104.8	9•5850	10,589.57	100.00	
Calcine Residue Solid Soluti		0•77 <b>73</b> 0 <sub>*</sub> 00 <b>7</b> 2	858 <b>+8</b> 2 7.96 866,78		

Notes: (1) Pregnant (2) Barren

The comparison is of interest, as noted above, between the gold content of 10,811.51 ers. in the heaster Feed and the cunces from Cyanide Flant products amounting to 10,589.57, a difference of 221.94 ers. Fust surveys indicate that dust losses would account for most, if not all, of this difference.

#### Hofing

The following here were shipped to the Mint from production during the month:-

2.05	'roduction	Period	Bar Noa.	TP6	Tete Shipped
	Nay Lot 1		670 to 720	Cyaaldo	licy 13th
	101 1	ec 15th	734	Asselgen	19th
	lith i	to 20th	740 to 790	Cyaniós	204h
	Alet 1	to glet	800 to 860	Cyunido	June Lth
	16th t	to Am	87A, 83A	Amel gam	<b>Ath</b>

## Underground Operations

Tonnege transed to the Ore Passes during the south asounted to 7,285 tons everaging 0.84 oz./ton in ore pass asopling and 0.83 oz./ton from the weighted composite of transed grades. This compares with tommage milled of 7,546 tons and calculated mill hands of 0.81 oz./ton. Details of tommages transed from the various working places, with thip and car sampling averaging, are given in the appendix to this report.

Stope preparation and mining continued on the second and third Levels, and the rate of development was increased early in the month with the addition of two development creas.

Broken ore reserves were recelculated at the end of the fiscal year, maing the more conservative factor for cubic feet per ten of 12 instead of 11. This resulted in an apparent reduction in tempse during the month and gives a greater margin of enfety in the estimates. The revised broken are reserves now amount to 43.413 tens averaging 0.77 eg./ten.

Details of development, stope preparation and mining are described below, and summaries of development advances, sampling averages and temmages of ore and waste bolated during the month, are appended to this report. A composite plan of No. 2 shuft workings showing development to key just, is attached to this report.

#### Tavelopmont

On the second level, driving of 2108 fr. was resumed for the southward extension of draw points from 208 stope. 2198 Dr. was turned mortherly off 2198 Next in order to provide access to the los-angle ore morth of 221 stope. 2288 Next was driven into the hanging wall of No. 1 Gre theot from 2018 ir. on 5700 morth, to provide a position for diamond drilling in order to determine the stoping layout for the ore below 2018 Dr.

On the third level, 3127 Fr. was started by slashing the past well of 3087 Fr. on S100 Morth, and was continued with an advance of 43.5 feet at the end of the mosth. Slashing and drifting to the end of the period averaged 1.66 czs./top in face sampling, and 592 tons of development are transed from these operations averaged 1.52 czs./ton. This heading will be driven in ore at far as possible to the morth as an exploration opening. 3148 Dr. was turned off 3035 Neut in order to provide access to the ore below 2048 Dr.

On the fourth level, a total of 281 feet of drifting was accomplished in 4030 Fr. and 4040 Fr.

#### Stope Properation and Mining

Fining was suspended in 206 Stops on reaching the first level sill piller. Mining was requised in 207 Stope on completion of the necess raise from this stops to 110% Mr. 216 Stope was drawn heavily in order to install a slusher for removing the broken are in the latter partion of this are shoot.

Mining proceeded normally in 212 Stope; an access raise was driven from 213 Stope to 105N Dr.; and silling of 214 Stope was about completed at the and of the period.

In the N-AR Cone, along continued in 205 Stope with explasis on the coning of the south end, and finger relains was commenced above the two new draw points in 306 Stope.

#### Underground Dismond Brilling

Rowline diemond Grilling was continued throughout the month, the results being tabulated in the appendix to this report.

Irilling was carried out for the purpose of planning a stope layout in a high-grade quartz orebody at the morth and of 306 Stope.

In No. 1 Dro Shoot above the third level, two steep angle holes on S1000 North and 1050 North returned 1.38 one./ton for a core length of 69 feet and 1.53 one./ton for 48.5 feet, respectively. These results compare with the average of 1.38 one./ton in car sampling in 310 Raise, and 1.43 one./ton in car empling in 3088 hr., indicating unnamally consistent values for this ore about between the second and third levels.

## Burface Massend Brilling

Biamone Grilling was resumed in the southern portion of the property during the latter part of the month and four holes were drilled to test the extension of the East Zone orebody above the 200 Level. Three of the holes ontered the zone in the probable footsall of the orebody, indicating a relatively steep dip and returning sub-marginal assays, except for an intersection of 9 feet averaging 0.25 or./ton. A fourth hole intersected 35 feet of one averaging 0.45 or./ton. A tabulated summary of these results is appended to this report.

Further crilling will be done in the Bost Some area later in the season, and in the meantime, drilling was commenced in the Yest Some during the early part of June. Results to date of writing have been very encouraging and this drilling will be reported on in the report for the first half of June. - 6 -

#### Construction and General

Hydro power consusption from the Surthwest Torritories Power Consisten (Smaro Miver project) was as follows:-

> Primary Fower - 670,940 Kw. Hrs. - 919 Ew. - 1232 HP Theetric Boiler - <u>379,200</u> - <u>520</u> - <u>697 HP</u> 1,050,110 Kw. Hrs. - 1439 Kw. - 1929 NF

Frinary power consumption, therefore, was only 61.65 of the minimum contrast quantity of 2,000 HP for which the Company pays \$16,666.66 monthly, at the rate of 157 per Milowatt hour. Fotal consumption, including that supplied to the alectric boiler, amounted to 1929 HF. On the basis of the minimum contrast cost per month, east per ton milled was \$2.22 for the period.

At the site of Mo. 3 shaft, sinking to a depth of about 45 fest for instalistion of the concrete coller, was compared and rock encavation was well under way at the end of the month at the location of the holdt and compressor house for this shaft. The fir timber for the Mo. 3 shaft headframe is now at Hey liver and will be freighted across by barge as soon as nevigation opens.

As noted in the April monthly report, it has been extremely difficult to build up the construction cree to the point required for the essential buildings to be erected this season. Two contracting firms were consulted and it was decided to errange a contract with the Dalton Engineering and Construction Company of Toronte, for the erection of at least three of these commutal buildings. Inmediate results are evident as, at date of writing, the Dalton Company has advised that a full construction creavill arrive at the property on Fune 16th. It is hoped, by contracting this work, to minimize the effect on the established wage acale in the district. Under present conditions, it is impossible to hire asticfactory companiers at the existing rate in the district.

Concrete work and a substantial portion of the necessary framing was completed at the new Coffeteria, construction of which will be taken over by the contractor's personnel on their arrival here. Book excevation and foundation work are in progress at the mes Shop, located near No. 3 shaft, and foundation work is ender way at the Shaff House.

Fork was well advanced on the two duples Compate being erected under contract for the Company on the Yallowhuit: towneite. At date of writing, one of the duplex units is ready for occupancy.

As noted in the report for the last half of key, the Babock-Milcon compressor, obtained from Guysborough Mines Limited, is now in operation at 20. 2 shaft. Substantial expenditures were incurred in repairs to both the motor and the compressor, the cost of repair parts for the latter only asounting to approximately \$1,000.00.

Every effort has been made to reduce the oil consumption at the heating plant and substantial economies have been effected by outling off the steam in the line from MO. 1 camp to the Mill, and by shutting down the boiler at MO. 2 shaft. Further economies will be made as a result of a study of the besting layout made by Mr. H. D. Couper, Consulting Angineer, in charge of the Educaton City power plant. - 7 -

The weather during the month was windy and comparatively cold, temperatures ranging from below freezing during most of the evening to a maximum of about 50 F. The bay between the mine and the settlement of Tellewknife did not clear until June 4th and, at date of writing, the ice has not us yet cleared from Great Slave Lake. Aifficulties are being encountered by the transportation companies between Naterways and the Smith pertage, due to very los water conditions in the Athabases Siver. The completion of the road to Hay Niver from ralihoad at Peace Siver assures transportation to the former point should conditions become more serious on the Mackenzie fiver system. Arrangements are being made for regular beat service from Say liver to Yellowarife during the mavigation season at rates which compare favorably with those on the Materways route.

Nesers. E. V. Neelands, Consulting Engineer, and F. G. Hubler, Consulting Metallurgist, visited the property during the month. As noted earlier in this report, Mr. Hubler's recommendations for heat conservation in the Reasting plant are now being carried out. Juring Mr. Declands' visit, the underground development and production situation was closely studied.

The following is a comparison of the working force as at April 30th and May 31st:-

	April		财积了	-
Total on Payroll, and of Month		258		255
Total Rired: Cytaide	30 	37	42 10	52
Youal Laft: Outside Locally	25 _4	29(1)	37 8	45
Maximum on Payroll for 1 day Minimum on Payroll for 1 day		263(28th) 250( lst)		266 (30th) 255 (21st)
Frerage No. of Employees Employees on Vacation Leave (1) included in "Total Left"	<b>i</b> 9	254 6(1)		259 10

Yours very truly.

Mair.

General Manager

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GIANT YELLOWKNIFE GOLD MINES LIMITED

Yellowinife, W. S. P., July 19th, 1949.

Hr. T. Lindsley, President Giant Vellowknife Gold Mines Lisited 25 King Street Fost Terento, Ontario

Report for July Let - 15th, 1949.

Dear Er. Lindeloy:-

The following report summarizes the operating and development results of interest during the first half of July.

## Treatment Plant

Amalgametion and Flotetion Results, July 1 - 15, 1949

	Dry Tons	Oraĉe (oz./ton)	Contained <u>Conces</u>	g Mst.
Tons Hilled: Period Average per day	3,091 206	0.917	2,834.60	100.0
Hecoverice:				3
by mailgamation	12		619.41	21.9
in Flotation Concentrates R. C 13.1 : 1	236.4	8.583	2,028.85	<u>71.5</u> 93.4
Plotation Tailings	2,854.6	0.065	186.34	6.6

Tonnege milled was lower during the period due to renewal of the bowl and mentle of the Short Head Cone Grucher and installation of new head liners in the feed and discharge ends of the Ball Mill. While the work was being done on the Cone Grucher, mill feed was obtained directly from the Standard Cone and the grinding capacity of the Ball Mill was lower than normal due to the coarser feed. Re-lining the Ball Mill required a shut down of 32 hours, 20 minutes. During this time, relation feed was maintained at the established rate by drawing more heavily on the stockpile.

Cyanice Bars NOS. 108-0 to 113-C, with estimated gross value of \$103,625.00 from production of July 1st to 10th, were shipped to the Mint on July 14th. Amelgam Bar NO. 114-A, with estimated gross value of \$21,760.00 from amalgamation recovery for July 1st to 15th, was shipped on July 19th.

## Inderground Operations

Ore trammed during the period, amounting to 3,467 tons, averaged 0.87 on./ton in Ore Pass sampling and 0.85 or./ton from the weighted trammed grades.

Nevelopment was continued on all levels. On the first level, 110-M drift is being driven to the surface raise. On the second level, 215-N drift was driven to Section 250-N, where further dismond drilling will be done to define the Low-angle ore. No. 34 Boxhole KOut was completed from 218-M drift. On the third level, a limited encest of work was accomplished in 212 and 214 drifts. No. 44 Boxhole KOut was started for a southerly draw point at that end of 306 stope. Sriving of 403-M drift was resumed on a two-shift per day basis at the end of the period.

In No. 1 Ore Shoot, boxhole raising from the end of No. 34 Boxhole XOnt was advanced into ore below D.D.H. U-EL77. In No. 2 Dre Shoot, mining continued normally in all stopes. 212 Stope provided approximately helf the ownces tranmed to the Ore Passes during the period.

In the N-AST Zone, work continued on the preparation of additional draw points in the southern extension of 208 Stope. With respect to underground diagond drilling, one hole was drilled westerly from 403-M drift on Section 1300-M towards the projection on this level of No. 1 Ore Shoot. As this zone was not identified in this hole, which might lie to the south of the projected location, the drift will be carried to Section 1500-M before further diamond drilling is carried out.

#### Surface Diamond Drilling

One hole was completed on Section 5200-N near the West Bay fault and the drill was then moved to the East Zone between Section 6000-N and 6300-N. A significant intersection was obtained in hole S-376, in which a core length of 18 feet averaged 0.81 oz./ton (uncut).

## Construction and General

At No. 2 thaft, pump installation was completed at the main sump on the 725 level and this sump is now in service. Framing for the timber for raising the headframe was under way during the period and, as noted in the report for the last period, the surface piping has been changed to a new location.

At No. 3 Shaft, the additional excevation required for surface lines at the shaft collar, was completed and the bearing set is now being placed. Forms for the hoist are about 50% completed.

At the Cafeteria, exterior sheeting and the roof were completed and lower floor pertitions are now in place. Installation of electrical and plumbing equipment is being carried on simultaneously with the construction of the building. Nork on the Staff House is proceeding at a satisfactory rate. The Machine Map framing was arected and the building is now being sheebed and backfill is being placed. The Mo. 3 Dry location is ready for driving of piles in the permafrost.

Preighting operations from Materways, Norman Wells and the Rescelta sevenill, are proceeding vory satisfactorily.

Yours very truly. L. E. Muir, General Manager

cc: AJA, EVN, ASD, ACC-3, MO-2

Yellowknife, n. v. T., Angust 22nd, 1949.

The Prosticant and Miroctors Mant Yellosknife Gold Mines Linited

Deer (Frank-

## Monthly Report - July, 1949

The following report covers operations at the property during the month of July, 1949.

Production for the month assumed to 9,671.31 cunces of dold and 4,002.37 cunces of Bilver, with a total gross value of \$341,357.51. The current silling rate averaged 234.7 tons per day, with calculated mill beads of 0.792 ex./ ton, for a total of 6,966 tons milled during the month. Gold recovery from current tomage milled was 4,603.34 sumees, representing 49.75 of the production for the month, of which 1,201.65 ounces were abtained by analgometion and 3,601.69 current by reasting and examidation of surrent flocation concentrates. Treatment of componentrates reclaimed from the stockpile produced 4,867.97 ounces of Gold, representing 50.35 of the production during the period.

Reaster food rate averaged 45.9 tons per day, node up of 17.1 tons of current concentrates and 25.8 tons of reclaimed stock concentrates. The Batic of Concentration in flotation continued high at 13.05 to 1. Calcine realdess were again lower at 0.693 es./ton, as compared with 0.764 ez./ton in June and 0.784 ez/ ton in Ney. Indicated extraction by reasting and cyanidation averaged 91.65 for the month, on the basis of the estimated contained ounces in the Reaster feed, as compared with cyanidation plant products. Indicated overall extraction on current toomage milled, including analyzation, flotation and cyanidation, everaged 875.

Broken are reserves in No. 2 Shaft workings were increased by 6,730 tone to a total at July Shat of 57,668 tone averaging 0.77 ct./ton.

Total income during the month encounted to \$331,600.00, of which \$334,468.00 represents kint Acturns on Bars #91 to #113, inclusive. The to heavy payments during the month on involces for 1949-50 amplies, the Bank Loun was increased by a net encount of \$2,231.00. The net total of the loan at the end of the month of \$263,366.00, is after deducting cash on hand of \$7,773.00 at July SLot.

# • 2 •

	A 15 A A		
Dry Tons Milled; Nonth	6,966		
Actobe bet jel	224.7	The state of the state of	
Average Mill Heads, por ton	6.792 0	R. 🔮 27.72	
Hadoverses			
(1) Fras Corrent Connege			
(a) by Amalganauton	1,201.65 62	<b>A</b> .	\$ 42.057.
Sitradtion	21.78%		and strategy
(L) in Flotetion Conceptrates			
Tons Concentrates produced	533.55		
Average Grude, per ten	7.367 0	La. \$257.85	
Conterned Dances	3,930.54	anne an airean airean an a	
extraction	72.248		
Ratio of Concentration	13.06 : 1	8	
Flotation Failings, Tons	6.132.15		
Aver. Arben, jur to		. \$ 2.10	
Calined Sutration by Analgametic & in Flotation Concentrates			
後 月間 金TGCがの2.621 小白田 GELES 2018	93.024		
(a) by Bonsting & Granidation			
Tons trastad	533-55		. 20
Contained Chineen	3,930.54		
Curdes Recovered	3,601.69		\$ 125,274.
(2) From Stockelled Concentrates			
Tone Soclaimed & Treated	898.58		
Average Crade, por ten	5.950 0	4208.25	
Conteined Genees	5,297.20	an air an Allanda ann an Ann an	
Gancos Reportared	4.867.97		\$ 171,163.
en e	all from to the solution of th		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Cyanication Residuce, per ten of Caleine	0.693	\$ 24.25	
Summery of Recovering			
(Mint Asturns on Bars Hon. 108 to 113.	Kine Asneys	on Bars Mos. 114	to 126)
(1) From Current Tommeso			
(a) by Amalgamenton	1,201.65		-
(b) from Flotation Concentrates	3,601.69	4,803.34 026.	\$ 167,332.
(2) From Real stand Stank Cons.		4,667.97	172,163.
Total Ocls Recovered		9.671.31 ons.	3 338,495.
Total Stiver Recovered		4.002.37	2,861.
নির্বাচন বিষয়েরে ৫০০ জের্বের ব্যক্তির বিষয়েরে বি বিয়েরে বিয়েরে বিয়েরে বিয়েরে বিয়েরে,		and a marine of a	State (2) 1929-1938 (2)
Gross Vine of Production			\$ 341,357.

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- 3 -

Fill operating time averaged 93.45 for the month, the major lost time period being 27 hours, 20 minutes for renseal of the feed and discharge end ball mill liners and 14 hours, 40 minutes while relining the combination feeder. As a result of the lower operating rate, tons milled per day averaged only 224.7 and tonnege milled during the month was less them normal at 6,966 tons. Mort interruptions were also caused by power outages due to electrical storms. All plant southment resumed operation without difficulty following these outages.

The primary grind averaged 89.24 -200 meah. Flotation feed density averaged 30.46% solids, while the temperature of the flotation feed increased to an average of 85.5 F. for the sonth.

The fonsting and Cyanifiction plants operated satisfactorily throughout the south and calcine residues decreased to 0.693 (everage) GL./ton. The elemn-out door at the bottom of the Reaster stack was opened on July 30th and the bottom of the stack was found to be filled to a depth of approximately 3 feet with water and wet aludge and for an additional L2 feet with any dust. Analysis of the dry dust removed from the stack gave 0.55 or./ton in gold and 66.6% around. A suitable area has been cleared for disposed of this material.

## Haftmins

The following bare were shipped to the Min fram production during the month;-

Production Pariod	Ber Mas.	TYPE	Tale Chipped
July lst-10th	1083-1130	Oyans. Ao	July 13th
lst-15th	1144	Amalgam	19th
lith-20th	1150 <b>-125</b> 0	Cyan <b>i 60</b>	23rt
21.st-31.st	1210 <b>-125</b> 0	Cyan <b>i 60</b>	Aug. 3rt
16th-j1.st	1264	Analgen	Ird

#### Tadar pround Optications

kill feed for the month, amounting to 6966 tons, averaged 0.75 on./ton in Ore Pass sampling, and 0.77 on./ton from the weighted composite of transed grades.

Lateral development was carried out on all levels and stope preparation and mining were continued above the third level.

Broken ore reserves at No. 2 Chaft were increased by 6730 tons to a total at the and of the month of 57,468 tons, averaging 0.77 cz./ton. For the past asveral months, the tonnage broken in the mine has been approximately double the tonnage milled suring the same period.

Dotatic of development, stope propertion and atting, are described below and summarizes of development advances, sampling averages and tomages of ore and waste boisted during the month, are appended to this report. - 4 -

#### HoreLopacont

On the first level, 110-7 ir. was completed to 105-1 hout for access to the ventilation and escape refse. 112-7 kent is being driven from 110-7 br. to provide nocess to 212, 213 and 214 stopes as they break through to the first level.

On the second level, 215-M Mr. was extended to Section 250% in proparation for the development of the low-angle orebody.

On the third level, drifting was continued in 5120and 5140 drifts. During the month, 3125 drift averaged 1.40 one./ton in face sampling and 0.60 or./ton in our sampling. In order to provide the additional storage capacity required for the increased mill townage planned in the near future, 303 Dro Pear raise is being driven to connect with the upper and lower ore pass systems.

on the fourth level, 403-W hr. was advanced beyond Section 1400% and 404-W hr. was driven a short distance to the north.

#### Stope Preparetion and Mining-

Bork is under way on \$45 Box Bole Lout, from which 205 stope will be developed in No. 1 Crebody above the second level. This how was started from 209-2 Rout and reising was under way at date of writing.

In the N-AM Hose, sub-drifting and finger relains are in progress from 210-8 Dr. to propare two additional drew points for the southward extension of 208 Stope. No. 44 Hox Hole Lout was driven on the fourth level to provide an additional drew point at the pouch and of 306 Stope.

#### "macryround liesond rilling

noutine diamond drilling was continued on the third and fourth levels and this program was indroused on completion of the surface drilling owely in August. Very uncouraging results have been obtained in the drilling below the fourth level borison.

## surface Dissond Irilling

Cincome criling from curface was continued with one mechine on the East Zone and East Zone definition holes, and this program was completed early in august. Important results were obtained in ariling the West Zone and the indicated tempage was substantially increased during this program. The results are now being studied and a full report will be propared at the earliest possible date. - 5 -

## Construction and Contral

At the No. 3 that area, the loser section of the concrete shaft collar was poured and the upper section was completed early in lugast. The foundation for the holat was also completed and installation of the equipment is now in progress. Filing was driven for the change house and work continues on the mop.

N. N. 2 Meft now pipe boxes were built and retaing of the headframe was in progress during the month.

Satisfactory progress is being made on the construction of the Satisfactor is that Mouse.

Deliveries of lumbar from the Mesdelte sawaill and of general freight from Naterways and oil from Norman Wells, continued at a satisfactory rate. The tormage of freight morthbound from meterways for the Meckenzie River region is substantially loss than normal.

Tempenatures during the month waried from 39.9°7. to a maximum of 79.9°7. Noon maximum temperature for the month was 67.1°F. and more minimum temperature was 48.2°F.

The Covernor-General, Viscount Alexander, accompaniadby Viscount Alembroche, formerly Chief of the Imperial General Staff, paid a short visit to the property curing the month. Dr. A. B. Badson, Consulting Coologist for the Company, arrived at the property on July 19th.

Eydro power supplied by the ". ". T. Power Cassission (Ensre Siver project) during the month was as follows:-

TIMEY FOWER	-	632,945	Lu.	Ers.	-89	出50	La.	-testan	1,140	EL.P.
Electric Boller	-	312,800		-	100	in the second			563	啊?
		945.745	āta.	Hrs.	-	-,270	Ka.	whether	1,703	

Primery power consumption ascented to 57% of the minimum contract quantity of 2,000 E.F. on the basis of the minimum contract dest 316,666.66 per month, cost per ton milled for power was \$2.40 for the period.

The following is a comparison of the working force as at June 30th and July 31st :-

	1日	Contraction of the second s	3	uly
total on Payroll, and of month		290		305
Potel Hirsd: Ontride Locally	98 11	49	32 11	43
Total Loss: Outuide Locolly	18 <u>6</u>	24	19 _2	. 38
Average So. of Employees Suployees of Vecetion Lerve		275 3(1	:)	29 <b>9</b> 4(e)
2 Included in "Pote	l Left"			

Young very truly. tonaral Sanshor

OG: TL. AJA, HP, JHS, AER, DMA, EVJ. AGE, HVN, ASE, EO-2. Rombh Indian July 21.04, 1949

No. 2 Chart

CREENER OF Sevelopment Advances

Ferred To Lete		515 975	à ŝ			1120	100-100	
LAD A C O	£•9		5.7	6°53	6.5	7.0	6.9	5.1
	9		51	đ	16		38	<b>N</b>
UNUMUTITIEL AND KALELUO T 0 D 4	350.0		108.5	0-161	116-0	849.0	180.0	112.0
TLYO, ORGAN • 6 Adv./Rd.	¢.3	5-2	2.4	6.1	6.0	2.3	6.8	1
A T T	12	m	<u>t</u> -	<u>r</u> =	9		C)	
TVOL ALLE	175.0	1 1 1	10.0	4.2.45	2.0	10.5	19.5	112.0
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196841.00		B-112% X-0		事業が		B-4031 Dr.	B-404W Ite.	1-309 0.R. 140.

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To. 2 Clerk

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Month Ending July 21st, 1949

No. 2 Shaft

Summary of Artheon Manual Brillings

	on in readjuine gant by	00	LAR			ta;	F4 23	53 (3		TATA T		MAL 2 Date	
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	Turfaue			July 1940	0, 1949		1.21	3,131	×		17		
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							N FLA						

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Yellowknife, N. W. T., March 18, 1950

The President and Directors, Giant Yellowknife Gold Mines Limited

## Monthly Report - February, 1950

Dear Sirs:-

The following remort covers operations at the property during the month of February, 1950.

Production for the 28 day period amounted to 7,019.77 ounces of Cold and 2,767.91 ounces of Silver, with a total gross value of 0.272,491.42. The milling rate averaged 391.1 tons-per calendar day for a total tonnage treated of 10,951 for the month. Calculated mill heads averaged 0.713 oz/ton (0.27.44/ton) and indicated overall extraction in the Treatment Plant was 89.95% for the month.

Broken orc reserves at No. 2 Shaft were increased by 1,850 tons to a total of 88,750 tons averaging 0.72 oz/ton at the end of the month. This tonnage represents over seven months mill supply at the current rat: of 400 tons per day. A total of 328 feet of lateral development was carried out on the fourth level at this shaft, of which 180 feet was in ore of excellent grade.

No. 3 Shaft was sunk 118 feet to a depth of 464 feet below the collar and 9735 cu. ft. of station cutting was completed at the third (425) level Including equivalent footage of 41.5 feet for the latter, total advance for the month, including  $5\frac{1}{2}$  shifts lost while handling "loose" at the third level Station, amounted to 159.5 feet for the 28 day period. During the  $3\frac{1}{2}$  month period from the start of sinking on November 14th, total advance amounted to 539.5 feet, consisting of 427 feet of sinking and 112.5 feet of equivalent advance in stations cutting. This represents an average advance of 154 feet per calendar month, including all time lost for plant shutdowns and holidays.

Total income received during the month amounted to \$381,230., of which \$306,644. was obtained from Mint Returns on Bars Nos. 205 to 221, representing net returns on the entire production in January. In addition, a payment of \$68,567. was made by the Dominion Government on Emergency Assistance Claim No. 4,1949, and \$6,000. was received from the sale of Treasury Stock under By-law No. 19. Total disbursements amounted to \$136,640. resulting in a surplus of \$244,590. which reduced the Bank Loan to a net total of \$451,892. at the end of the month.

Operating costs at the mine during the month were 14.08 per ton and total costs, including 21% for Bank interest and 41% for Administrative charges were 14.70 per ton. Unit costs were slightly higher than in January, due to the 28 day month, as such charges as salaries, overhead, insurance and electric power are on a monthly basis. Operating profit before write-offs, amounted to 128.334., or 11.72per ton milled, included estimated Emergency Assistance for the month of  $19_0025.$ 

	Note: Based on Mint Neturns for production of F Mine estimates for production of February adjustment to Mint Neturns for January 16	- 16th to 28th, an	th; d
Ton	s <u>Filled</u> : Fonth Average per Calendar day Average per Operating day Calculated Fill Heads, per ton	10,951 391.1 408.2 0,713 oz.	27.44
lieco	overies		
(a)	by Amalgamation Ounces Gold Recovered Extraction	1,214.10 15.56 %	7
(b)	in Flotation Concentrates Tons Concentrates produced Average Grade, per ton Contained ounces Extraction Ratio of Concentration Flotation Tailings, Tons Average Grade, per Ton	1,005.4 6.003 6,035.95 77.34 % 10.9 to 1 9,945.6 0.056 oz.	\$231.13 \$2.14
	Combined Extraction by Amalgamation and in Flotation Concentrates	92°89 ž	
(c)	by Roasting and Cyanidation Tons treated Average per day Contained ounces Ounces Gold Recovered Extraction Cyanidation Residues, Tons	1,005,4 36 6,035,95 5,805,67 96,18 %	
	Average Crade, per ton Indicated Overall Extraction in Treatment Plant	0.575	\$22 <b>.1</b> 2
Summ	ary of Recoveries		54.
	Gold: by Amalgamation 1,214.097 by Cyanidation 5,805,674	7,019.771 ozs.	.270,261.19
	Silver: Total Recovered	2,767.91 ozs	2,230,23
	Gross Value of Production		.272,491.42

- Page 2 -

The following bars were shipped to the Mint from production during the month:-

- Care 3 -

Production Peri	od <u>Ear Nos</u> .	Type	Date Shipped
February 1st -	15th 2220-0270	Cyanide	February 20th
" lst	15th 228A	Amalgam	" 20th
" 16th -	28th 227A	imalgam	Larch (th
" 14th -	28th 2300-2350	Cyanide	" 6th

#### Operations

Will operating time averaged 95.8% for the month, lost time being caused by repairs to the fall Will feeder and the change-over when the 54" Classifier and the new Screw Conveyor were brought into the circuit. The Primary Ball Fill tonnage was then increased to approximately 425 tons per day and, with normal conditions, it is expected that an average rate of 400 toped. can be maintained. The Bowl and hantle of the Standard Symons Crusher were renewed on February 18th/19th; the former after crushing 93,421 tons and the latter after handling 73,984 tons of ore. Larger sheaves and motors were installed on the Unclarified and parren Solution pumps so that the solution tonnage could be increased with the higher milling rate.

Primary Frind averaged 79.4% -200 mesh and flotation feed density averaged 34.5% solids. Flotation feed temperature was maintained at an average of 67.6°F.

The base section of the Roaster Stack was cleaned out on February 17th/21st and the accumulated arsenic disposed of under overburden. The dust chambers of both hearths were cleaned on February 24th.

#### UNDERGROUND OPERATIONS

#### No. 2 Shaft

Ore trammed during the month, amounting to 11,055 tons, averaged 0.77 on/ton in car sampling.

Broken one reserves increased by 1,850 tons to a total of 88,750 tons averaging 0.72 oz/ton.

Summaries of underground diamond drilling and development results, broken ore reserves and tonnages of ore and waste trained and hoisted during the month, are appended to this report.

#### Development and Diamond Drilling

On the fourth (575) level, a total of 328 fect of drifting was accomplished in 403 North and 409 North Drift. The latter heading exposed 180 feet of ore averaging 0.75 oz/ton in face sampling and 0.60 oz/ton in car sampling, across drift width, with cross sectional diamond drilling to be carried out later to determine full widths. houtine diamond drilling was done from 308 and 312 brifts for the development of 312 and 408 Stopes. Down holes were drilled from the fourth level to trace the Lower orebody south from Section 1200 North. On Section 1150 North, a core length of 56.5 feet was intersected, but narrow marginal intersections only were obtained on meetion 1100 North.

#### No. 3 Shaft

Progress during the month amounted to 112 feet of sinking and 9735 cu. ft. of Station Lutting at the third (1.25) level; the latter being equivalent to 11.5 feet of sinking advance. Total equivalent advance for the month amounted to 159.5 feet. Time lost for lepitimate reasons, --shaft inspection, installing bearer set, and handling excessive loose at the third level station --amounted to 51 shifts. Donus earnings, after subtracting legitimate time lost and adjusting to a 31 day month, averaged 10.80 per miner shift.

Operating data are summarized below:-

#### Sinking

Advance for Lonth	125.01	Total to February 28th	464.01
No. of working days	21.3	Advance per day	5.5'
No. of Benches	54	Advance per Sench	2,21
Tons Mucked	2,589	Tons our ft-auvance	2 <b>1</b> .9
Explosives lbs.	7,765	Lbs. per ft. advance	(5.8
Detatchable Bits	8,600	Bits per ft. advance	53.9

## Station Cutting (425 level)

Cu. Ft. of Excavation No. of working days	9,735 6.0	Equivalent Advance- Advance per day	41.51
Tone Mached	811	Tons per ft. advance	19.5
Explosives Lbs.	1,560	Lbs. ner ft. advance	37.6

## GENERAL

Hydro power supplied by the N.W.T. Power Commission during February was as follows:-

Primary rower 874,360 %.Wohe-1,301 KoWe- 1,745 HP Electric Boilers <u>952,300</u> " - <u>1,418</u> " - <u>1,900</u> " 1,826,660 KoW.He- 2,719 KoWe- 3,645 HP

Primary power consumption amounted to 70% of the minimum contract quantity of 2,500 HP. The balance,together with an additional 1,900 HP, was used in the clectric boilers at the fill.

At the Treatment Plant, the 54" Duplex Classifier was brought into the primary grinding circuit with completion of the Screw Conveyor. A larger exhaust fan was installed above the agitators in the cyanidation section of the Fill. The mill testing Laboratory, adjoining the mill office, is really for operation. Interior work and electrical and heating installations were in progress in the new Assay Office which is located in the No. 3 Shaft-Treatment Flant area.

Collective bargeining negotiations were in progress at the end of the wonth. A suggrary of the situation on March 162h, when the Union requested the Services of a Conciliation Officer, was submitted to lead Office by letter of March 17th.

Average temperatures, while consistently well below zero, were milder than in February, 1949. Maximum and minimum temperatures during the month were  $-2.5^{\circ}$ F on February 13th and  $-49^{\circ}$ F on the 18th.

The following is a comparison of the working force in January and February, 1950:-

	Janu	ary	February			
Total on Payroll, End of Lonth Change during month		315 7 23		304 -11		
Total Hired: Outside Locally	17 <u>18</u>	35	4 8	12		
Total Loft: Outside Locally	6 <u>6</u>	12	12 13	े 25		
Average ko. of Employees Employees on Vacation Leave		308 1		311 1		

Yours very truly

1.111 General Manager

cc: TL, AJA, HP, JBS, AKH, MPJ, LVJ, ACC-5, HVN, ASD, MO-2 Derlod: Februery, 1950

Period To Date Ou. Ft. Ou. Ft.

2720

Summary of Development Advances

Sueft No. 2

		. 110			
	ن) شها	10 × 1		7.7	Tol.
RAISI	с; С	lide.	1.56	38	te
OFTING AND	T o	./id Footsee hde. Adv. /BA.	1104°5	291.5	252.5
G. CROSSC	T	<u>Adv. / 180</u>	the ?	7.5	7.2
VILLIN	L TO	500 °	12	4	29
[]	8 J	Footare lida. Adv.	68.5 12	30°0 4	209.5
11	110 7 CLINE		B=4,03% Dr.	3-408S Dr.	8-409N Dr.

Shaft No. 2

Period: February, 1950

Ore
uo
Development
of
SU MERY

5 A F L d T o rode Tons ton	1°279
vertion 0z/ton	°,60
<u>r</u> A.R. S.A. P. e.r. 1 o d Tons Av. Grede	1°279
Date AveCrade Uncut	°75
k I B S T o Av. Adth	<i>ы</i> °0
FACLORRIO Priod To 1th AveGrade Avenia	°75
P e r Aveiddth	6°0°
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A W C To La	180.0
<u>A U V A N C E</u> <u>Feriod To wate</u> ft. <u>ft</u> .	160,0
licading	<u> 3- о9к</u>

Bu mary of Stope Sampling

RECORTS ONE To Uate Tons Grade	1,34,3 57 3,036 1.20 3,036 83 18,578 48 33,104 99 33,104 99 33,104 99 1,751 558 1,751 555 1,70 1,191 70 1,671 555 1,70	
G D a t e Av.Crade d oz/ton	4 4 6 6 7 6 7 6 7 6 7 6 7 6 7 7 6 7 7 6 7	R A S T E Period To Date Tons Tons
C A KS A A P L I W GP e r i o dT o LTonsAv.GradeTaumedoz/tonTrammed	1.564 8.598 20,414 22,492 9,122 9,666 9,666 9,643 1,771	Period Tons
L S A H L o d Av.Grade oz/ton	1,20 ,52 ,52 ,52 ,52 ,52 ,19 ,19	
C A 1 P e r Tons Trawned	117 1,267 1,926 1,752 1,752 1,19 303	NINE Date Av.Crade
ii C <u>a t e</u> Av.Grade oz/ton	1.76 .76 1.03 .64 .44 .97 .97 .57 .28 .28	UKE FROM MILLE UKE FROM HINE Period Tous AveGrade Tons AveGrade
SAMPLINC To Uate de Tons Av.Grade n Broken oz/ton	2,469 9,941 23,450 67,407 17,564 25,860 11,394 25,311 2,311	UKE Peri
CHIPS Period Tons Ave Grade Broken oz/ton	1.67 1.67 2.38 1.53 1.53 1.53 1.53 1.53 1.53 1.53 1.53	
C II P e r Tons Broken	1,022 4,441 867 1,7443 741 1,796 646 269	
sitope	8-221 9-221 9-206 9-207 9-221 9-221 9-221 9-221 9-221	La contrata a contra

75,585

3,432

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SAMPLING

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U a t

<u>Av.Grade</u> Oz/ton

°60

	<u>Grede</u> Cut																					2.46			( ;	4.29	2°34										
RSECTION	Cale <sub>a</sub> Uncut	.33	đ -	140	9,60 9,60	69°	° 50	°20	.5 <u>1</u>	<i>9</i> 9	,16	- 24	5 M.B.	° 50	1.00	96°	°32	043	°39	:33	1.3h	3.73	°57	°27	, éó	8°40	5.67	61,	۰5 تل	6	.41	79°	J.B	°25	1.37	LE°	°43
SIGNIFICANT INTERSECTION	Core Length	29 °0	0 00		14.5	0°7	15°0	30.5	40. eri	9°5	್ಷ	14°0	42°0	4.5	42°0	34.5	7°0	8,5	18.5	7,0	20 ° 2	24 0	21.5	26,0	56°5	21,0	20°0	62 ° U	5°0	15.5	22,0	77.5	12,0	8° 19	1 <sup>1 -</sup> 0	9°0	1/1 °0
IGNIFIC	To	150,0		50°0	59.0	77.0	- 59.0	111,0	14°0	48.5	2202	16°0	76.0	150,0	58°5	35.5	57°0	8°5	38°0	57.0	28°5	31.°0	714 ° 5	27 °0	190.0	つ。とと	21,0	129°U	21,0	-4,0 ° 5	186°5	78.5	1.2.0	145°5	5°0	21 °0	21 °0
<b>1</b> 2	From	121.0	51. 5	5.	44.5	73.0	44.0	80°5	12,5	39°0	1°0	2,0	36°0	145.5	16°5	1 °0	50°0	1°0	19.5	50°0	8°0	7°0	53.0	1.0	133.5		л С Ч	0°/0	16.0	25°0	158°5	$1_{c}0$	0	0° T'/T	1.0	12°0	7 <sub>6</sub> 0
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COLLA	Section	1550N	15CON	150%	<b>11 50</b> N		11.75N		NOCTT		MOSOT	1050	1175N	N0071	1175N	1175N		1175W			TOSON	MOOTT			NOOLE		NOGTT		NUQ11			1150N	11.50N	NOOTT	TT 20N		NC) TT
C	<u>Headinn</u>	B=210S B=407B	B-4.07W	1-210S	6=4083		ii=313E	0 1 0 0 C		1-51JE	N/2014-01	N404-9	13-3130	<b>B-312N</b>	8-313E	B-31.3E		B-313E			13-308N	B=308N		N-4U4R	Race-R		NIQO 2-11		8-4U4N			B-308N	B-404N	B-404N	NZTE-9		aC16-11
	lole No.	u-8702 6-8703	1 2704	U-3705	0.8706		U=B707	11-12-04	1 - 1700	60/00		TT/s=		11-12/13	1-3714	U~3715	2 4000 VII 2.2	11-B/16				8T/At a		んていの一つ	11		TZ/Ren	1: 11000	72/9-11			1	1-3724		n-12/20	CCLU II	12/0-5

SUMIALY OF UNDERGIOO ) DIANOND DUILING

Shaft No. 2

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Shaft No. 2

Feriod: Februsry, 1950

Calc, Grade Uncut Cut	۲° کړ		55 24	22 23 25 25	。84 。23 。29 。11		
NT INTA Core Length	12.0 55.0	24.55 33.05	22.0	7.0 18.0 6.0	2,5 15,0 33,0 119,0		
To	14.0 89.0	11.5 23.0 23.0 24.0 25.0	· 14.5 99.0 153.0	167.0 25.0 181.0 210.0	224.0 79.0 34.0 127.0		
E TOR	2.0 34.0	17.0 17.0	9~5 77°0 116.0	162,0 18,0 163,0 204,0	221.5 64.0 8.0 8.0		
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ilear .	N60W	Weow	NO9N	N60W	Néow Picow	1950 y 31, 1	to dat
0 L L A R Section	1200N	NOOLT NOOLT	LZSON	NOOIT	1150N 1250N	February to Jenuary	t footere
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	C O L L A R BEALON BEAL DID FOOM TO DIALLE From TO CORE CALC. Length Uncut	C         0         L         A         III         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIIIII         IIIIIIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	C         0         L         A         K         0         T         G         T         G         T         G         T         G         T         G         T         G         T         G         C         L         A         K         G         T         G         C	C         O         L         A         R         O         T         G         Trom         TO         Trom         TO         TO	C O L L A II         F O O T A U Z         INTERTIGANT INTIGANT INTIGANT INTIGANT INTIGANT INTIGANT INTIGANT INTIGANT           Lisening Section         Jean Job         From         To         Diritied         From         Dot         Care         Calc           B-30th         Izooti         M60ti         -65         0         172         172         2.0         14.0         12.0         55.0         55.1           B-40th         1100ti         N60ti         -65         0         172         172         2.0         14.0         72.0         55.0	C         0. L. L. A. R.         F         0. 0. T. A. G. E.         GIONNPICART INTLANTION           ILARLING         Section         Ibear.         Diamatine         Section         Ibear.         Diamatication           B-30BH         Izcon         Ibear.         Diamatication         Ibear.         Diamatication         Ibear.         Diamatication           B-30BH         Izcon         M60M         -65         0         172         172         2.0         U	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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Yellowknife, N. W. T. February 22, 1950

Mr. T. Lindsley, President Giant Yellowknife Gold Mines Limited, 25 King Street West, Toronto, Ontario

## Report for February 1st to 15th, 1950

Dear Mr. Lindsley:-

The following report summarizes the operating and development results of interest during the first half of February.

# Treatment Plant

# Amalgamation and Flotation Results, February 1 - 15, 1950

	Bry Tons	Average Grade (Oz/ton)	Contained Ounces	£ <u>D1st</u> .
<u>Tons Milled</u> : Period Average per day	5,927 395.1	0.727	4.310.3	100.0
Recoveries by Amalgamation in Flotation Conc. R.C 9.8: 1	603.5	5 <b>.58</b>	669.0 3,367.8	15.5 <u>78.1</u> 93.6
Flotation Tailings	5,323.5	0.051	273.5	6.4

#### Refining and Shipment of Bullion

Cyanide Bars Noz. 222C/227C with estimated gross value of \$115,479. from production of February 1st. to 13th and Amalgam Bar No. 228A with estimated gross value of \$25,883. for the period Feb. 1st. to 15th. were shipped to the Mint on February 18th. Estimated gross value of this shipment, from Mine assays, was \$141,362.

#### Operations

Lost time in the grinding and flotation circuits amounted to 7 hrs. 05 mins. through a short hydro power outage on February 1st and repairs to the Ball Mill feeder on the 2nd.

- 2 -

#### Underground Operations

#### No. 2 Shaft

Ore transed during the period, amounting to 6,162 tons, averaged 0.74 or/ton in car sampling.

404 Stope Haise was broken through to the third level.

409 North Brift was driven at the rate of two rounds per day in the ore recently disclosed by underground diamond drilling between 407 North and 403 North drifts. The length of feet opened during the period averaged 0.92 og/ton in face sampling and 0.62 og/ton in car sampling.

Underground diamond drilling was concentrated in 308 North and 312 North Drifts and in 313 East XCut to provide information for the development of 310, 312 and 408 Stopes.

#### No. 3 Blaft

An advance of 79 feet, to a depth of 425 ft. below the collar, was obtained during the period.

#### GENERAL

At the Mill, a larger exhaust fan was installed near the agitators. Pipefitting was completed on the Screw Conveyor and this unit is scheduled to go into service during the current week. The housing for the Testing Laboratory, adjoining the Mill office, was completed and equipment is now being installed. Thawing of the wood stave flotation tailings line, which froze on January 1st, was resumed when the weather moderated during the first part of the month. These tailings are now being discharged through a 4" Victaulic line which was installed immediately after the freeze-up of the wood stave line in early January. Work continued on the insulation and interior sheeting of the new Assay Office.

Proposals for revisions in the existing Collective Bargaining Agreement, and additions thereto, were received from Local 802, I.U.M.M. & S.W. on February 15th and are now being studied.

The major demands are as follows: -

- 1. An across-the-board wage increase of 35 cents per hour.
- 2. Doubling the existing shift differential of 3¢, 4¢, and 5¢ per hour.
- 3. Double time for Sundays.
- 4. Double time for all Statutory Holidays if <u>not</u> worked; triple time if worked.

- 5. Seniority to be the <u>only</u> consideration in promotions, demotions, and lay-offs.
- 6. Elimination of the no-strike clause.
- 7. Two weeks vacation with pay after 10 months employment, three weeks with pay after 20 months, four weeks with pay after 30 months and five weeks with pay after 40 months. Vacation pay to be at the base rate for a 56 hour week, plus overtime and bonus earnings.
- 2. Fifteen days sick leave with pay for each year of employment, accumulative up to 90 days. Free board while on sick leave.
- 9. Two extra days off per month, in addition to regular time off.
- 10. All existing contracts of employment, between the individual employee and the Company, to become null and void.
- 11. Check-off of union dues, initiations and assessments.
- 12. "Union Shop" -- all employees to become and remain members of the Union as a condition of employment with the Company.

If the above demands are serious, and our information indicates that they are, it appears most unlikely that any reasonable agreement can be reached by collective bargaining, which will commence about March 1st, and that the concilliation procedure provided by Dominion law, will be employed in the early stages of bargaining.

Yours very truly

K. Muir

General Manager

cc: AJA, EVN, ASD, ACC-3, MO-2

Yellowknife, N. W. T., March 9, 1950 h. S

Mr. T. Lindsley, President Giant Yellowknife Gold Mines Limited, 25 King Street West, Toronto, Ontario

## Report for February 16th to 28th., 1950

Dear Mr. Lindsley:-

The following report summarizes the operating and development results of interest during the last half of February. Preliminary figures for production and recoveries during the month of February are given on the second page of this report.

#### Treatment Plant

## Amalgamation and Flotation Results, February 16 - 28, 1950

	Dry Tons	Average Grade (Oz/ton)	Contained Ounces	% <u>Dist</u> .
Tons Milled: Period Average per day	5,024 386.5	0.696	3.496.9	100.0
Recoveries by Amalgamation in Flotation Conc. R.C 12.5 to 1	402	6.638	547.7 2,66 <b>8,</b> 1	15.7 76.3 92.0
Flotation Tailings	4,622	0.061	281.1	8.0

#### Refining and Shipment of Bullion

Amalgam Bar No. 229A and Cyanide Bars Nos. 230C/235C, with estimated gross value of \$131,820. from production of February 16th to 28th, were shipped to the Mint on March 4th and 6th.

## Operations

ovinten A

The milling rate for the period was slightly less than the average for the first half of the month, as the Primary grinding circuit was shut down for several hours on February 20th, 22nd, and 24th in preparation for cutting in of the 54" Duplex Classifier. This unit went into operation on February 24th, and the daily tonnage to the Primary Ball Hill was gradually increased from 404 tons that day to 426 tons on February 28th. In general, operation with the new circuit, and of the remainder of the Treatment Plant was satisfactory.

70B

# - 2 -

Preliminary Production Data, Month of February, 1950

Tons <u>Killed</u> : Month Average per day Calculated <u>Kill Heads</u> , per ton	10,951 391.5	
our our for the tubles but the	0.713 oz. \$27	1.45
Recoverice		
(a) by Amalgamation		
Ounces Gold Recovered	1,214.10 028.	
Extraction	15.6 \$	
(b) in Flotation Concentrates		
Tons Concentrates produced	1,005.4	
Avorage Grade, per ton	6.003 \$231	.11
Contained Ounces	6,035.95	
Extraction	77.3 \$	
Natio of Concentration	10.9 to 1	
Flotation Tailings, Tons	9,945.6	
Average Grade, per to	n 0.056 oz. \$2	.14
Combined Extraction by Ama	Igametion	
and in Flotation Concentra		
(c) by Roasting and Cyanidation		
Tons treated	1,005.4	
Average per day	36	
Contained Ounces	6.035.95	
Ounces Gold Recovered	5,805.67	
Extraction	96.2 g	
Cyanidation Residues, Tons	755.7	
Average Grade, per to		.14
Indicated Overall Extraction	89.9 \$	
Summary of Recoveries		

(Mint Returns on production of February 1st. - 15th., Mins office Assay for February 16th.-28th., and adjustment to Mint Returns for January 16th.-31st.)

Goldby Amalgamationby Cyanidation5.805.67	7,019.77	028.	\$270,261.
<u>Silver</u> Total Recovered	2,767.91	QZ8,	2.230.
Gross Value of Production			\$272,491.

- 3 -

## Underground Operations

#### No. 2 Shaft

Ore trammed during the period, amounting to 4,893 tons, averaged 0.805 oz./ton in car sampling. Stopes in No. 1 Ore Shoot supplied more than half the ounces of gold in the tonnage trammed, and 600 tons or approximately 12% of the latter was obtained from development in 409 North Drift in the new ore to the north on the fourth level.

Lateral development was continued on the fourth (575) level: 403 North Drift being extended to Section 1700 North and 408 North Drift was completed at Section 1100 North. In addition, 409 North Drift was advanced to 1700 North in ore averaging 0.55 oz./ton in face sampling and 0.35 oz./ton in car sampling.

Emphasis was continued on stope preparation; a start being made in taking down backs in 204 Stope, Sub-drifting was continued, following grizzly installations, in 205, 215, and 314 Stopes and silling of 310 Stope was in progress.

In No. 2 Ore Shoot the final ore sections adjacent to the surface pillar are being removed in 212 and 213 Stopes.

In the North ASD Zone, the westerly draw points in the northern section of 306 Stope were coned up into high grade ore and coning is in progress in 404 Stope above the 575 level.

Underground Diamond Drilling was carried out in No. 1 Ore Shoot for the development of 312 and 408 Stopes, and with down holes from the fourth level, traced the lower Ore Body south from Section 1200 North. In the latter drilling, an intersection of 56.5 feet averaging .60 oz./ton was obtained on Section 1150 North, but only narrow marginal intersections were obtained on Section 1100 North.

#### No. 3 Shaft

During the period, the shaft was sunk 39 feet to a depth of 464 feet below the collar, and 9,735 cu. ft. of station cutting, equivalent to 41.5 feet of shaft advance, was completed on the third (425) level horizong. Total equivalent advance for the period was 80.5 feet, making a total of 159.5 feet for the month of February. This would be equivalent to 176 feet for a 31 daymonth.

#### Construction and General

At the Treatment Plant, pipe fitting and electrical work was completed in the Mill Laboratory, and equipment is now being installed. Installation of the Screw Conveyor was completed and, as noted in an earlier paragraph of this report, the 54" Duplex Classifier was placed in service during the period.

Installation and fire protective covering of the roof of the Mill Switch Room was commenced with the installation of Asbestoside. - 4 -

In the new Assay Office, which is located to the north of the Refinery and east of the F Conveyor Gallery, installation of the exterior walls was completed, partitions were installed, and a start was made on installation of equipment.

There was a marked increase in absenteeism during the period and nine employees were discharged for this reason.

Buring the period, the weather was considerably milder than in January, the maximum temperature being  $-0.6^{\circ}$  F on February 27th and the minimum  $-49^{\circ}$  F on the 18th.

Collective Bargaining Negotiations were in progress at the end of the period.

Yours very truly

Muir A.K.

General Manager

cc: AJA, EVN, ASD, ACC-3, MO-2