B.Y.G.
NATURAL RESOURCES INC.

MOUNT NANSEN TAILINGS FACILITY

Mount Nansen Tailings Facility Construction Report
May to October 1996

REPORT

PM 5314 504B

KLOHN-CRIPPEN

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December 12, 1996

BYG Natural Resources Inc.
110 Industrial Road
Whitehorse, Yukon
Y1A 2T1

Mr. John Eggert
Supervisor, Special Projects

Dear Mr. Eggert:

Mount Nansen Tailings Facility Construction Report May to October 1996

Enclosed are one unbound and nine bound copies of our report for the Tailings Facility Construction. Also enclosed is a mylar print of Drawing 5314-08-02 as requested in the Water Licence. We appreciate assisting you with this interesting project.

If you have any questions or comments, please contact our office at your convenience.

Yours truly,

KLOHN-CRIPPEN CONSULTANTS LTD.

Peter J. Wheeler, P.Eng.
Manager, Calgary Mining Group

JGM/PJW/ll

Encls.

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TABLE OF CONTENTS

PAGE

1. INTRODUCTION 1
2. PREVIOUS REPORTS AND DESIGN CRITERIA 3
3. MAY-OCTOBER 1996 CONSTRUCTION 4
3.1 Fill 4
3.2 Sand Fill 4
3.2.1 Shale (Weathered Bedrock Gravel) 5
3.2.2 Victoria Creek Gravel 6
3.2.3 Johnson Rock 6
3.3 Dam 1 7
3.3.1 Geometry 7
3.3.2 Geosynthetic Clay Liner 7
3.3.3 Shale 8
3.3.4 Compaction 8
3.3.5 Instrumentation 8
3.3.6 Schedule 8
3.3.7 Tailings Beach 10
3.4 Seepage Control Dam (Dam 2) 10
3.5 Emergency Spillway 11
3.6 Permanent Diversion Ditch 11
3.7 Temporary Diversion Ditch 12
3.8 Additional Items 13
3.8.1 Organics Waste Areas 13
3.8.2 Haul Roads 13
3.8.3 Temporary Upstream Dam ('Cofferdam') 14
3.8.4 Dewatering and Storm Events 14

TABLE OF CONTENTS
(continued)

3.8.5 Equipment 14
4. MONITORING, MAINTENANCE AND DESIGN REVIEW CRITERIA 15
4.1 Monitoring 15
4.2 Maintenance 15
4.3 Design Review Criteria 15
5. CLOSURE 17

APPENDICES

Appendix I — Tables
1 Design Criteria and As-Built Information
2 Laboratory Test Summary
3 Compaction Tests
4 Thermistor Readings
5 Dome Creek Weir Flows

Appendix II — Tailings Dam Facility Contract

Appendix III — Daily Reports

Appendix IV — Weekly Reports

Appendix V — Construction Memorandums

Appendix VI — Meeting Minutes

Appendix VII — Grain Size Analysis Results

Appendix VIII — Geotextile Manufacturers Specifications (Bentofix NS and Terrafix 600R)

TABLE OF CONTENTS
(continued)

DRAWINGS

5314-08-01 Location Plan

5314-08-02 Site Plan and Sections

1. INTRODUCTION

This report presents a summary of construction from May to October 1996 and a certification of compliance for the Mount Nansen tailings storage facility. The Yukon Territory Water Board Water Licence Number is QZ94-004, dated February 13, 1996.

BYG Natural Resources Inc.'s Mount Nansen gold mine is located 65 km west of Carmacks, Yukon. Drawing 5314-08-01 presents a site location plan. The mine includes a 700 tonnes per day capacity mill with cyanide and carbon recovery systems for both sulphide and oxide ore. Presently ore is being recovered from an open pit in the Brown McDade deposit, located less than 1 km downstream of the mill on the north slope of the Dome Creek Valley.

There were four natural materials used to construct the tailings facility:

- Sand
- Shale (Weathered Bedrock Gravel)
- Victoria Creek Gravel (75 mm minus)
- Johnson Rock (300 mm minus)

Drawing 5314-08-02 presents the as-built tailings facility which includes:

- Main Dam (Dam 1)
- Seepage Control Dam (Dam 2)
- Emergency Spillway
- Permanent Diversion
- Temporary Diversion
- Reservoir

There have been several coordinate systems used at Mount Nansen. The tailings facility used a coordinate system with north-south coincident with the axis of Dam 1.

In 1995, Kando Enterprises of Carmacks, Yukon stripped portions of the permanent and temporary diversions and north of Dome Creek downstream of Dam 1. Kando also completed the access road to Dam 1.

The main contractor for the tailings facility from May to October 1996 was Ketza Construction Corp. of Whitehorse, Yukon. Klohn-Crippen Consultants Ltd. designed the facility and provided on-site construction supervision. The construction contract dated July 27, 1995 is included in Appendix II. Klohn-Crippen Daily Reports, Weekly Reports, Construction Memorandums and Meeting Minutes are presented in Appendices III to VI.

2. PREVIOUS REPORTS AND DESIGN CRITERIA

Previous reports for the Mount Nansen tailings facility by Klohn-Crippen include:

- November 1985, Tailings Disposal and Leach Pad Sites.
- December 1988, Tailings Dam Preliminary Design.
- May 1990, Tailings Facility Preliminary Design.
- September 1994, Nansen Creek Road Upgrading.
- September 1994, Tailings Dam Storage Study.
- October 1994, Tailings Dam Cost Estimate.
- April 1995, Tailings Impoundment Feasibility Design Update.
- July 1995, Field Investigation Program Update.
- August 1995, Tailings Impoundment Final Design Report.

The tailings facility was based on Klohn-Crippen's August 1995 report. Design criteria and as-built information are summarized in Table 1. (Tables are in Appendix I.)

3. MAY-OCTOBER 1996 CONSTRUCTION

3.1 Fill

3.2 Sand Fill

Sand fill was borrowed from upstream borrow areas A, B and C; the permanent diversion ditch; downstream of Dam 1 centerline and north of the emergency spillway; the emergency spillway; and the north sand terrace between the north abutment of Dam 1 and the emergency spillway outlet.

The sand fill grain size was consistent. The sand is described as SP and SP-SM (poorly graded sand with between 5 to 12% grain sizes smaller than silt by weight) in the Unified Soil Classification System. Generally, all of the sand borrowed from the upstream reservoir borrow areas did not contain appreciable gravel. Some of the sand borrowed from the emergency spillway contained a trace to up to 30% gravel by weight. Approximately 2000 m^3 of 5% average gravel content sand was placed in Dam 1 in mid-August.

Sand borrow areas were frozen. Moss cover was stripped, then after the upper surface thawed, the unfrozen sand was pushed and piled to expose more frozen sand.

The compaction density specification for sand fill in Dams 1 and 2 was 95% of standard Proctor maximum dry density. The maximum lift thickness specified was 250 mm. Maximum dry density was 1721 kg/m^3 (Standard Proctor Test). Optimum moisture content was 14%. Standard Proctor values were based on three moisture-density tests. Five grain size analyses were also performed. Table 2 presents a summary of samples and laboratory test results and Appendix VII contains grain size test data.

The natural moisture content of the sand was generally about 6% which is 8% below optimum except for upstream borrows from July onward which became rain saturated to near optimum.

Sand excavated from the diversion ditch in May and early June was stockpiled just downstream of the north abutment of Dam 1. This stockpiled sand contained some boulder sized and smaller frozen pieces. This fill was predominantly pushed by dozer to Dam 1 in August and September. 'Pushing to place' made it difficult to control lift thickness and properly key in the fill with the north sand terrace (August 21st memorandum, Appendix V).

Ketza Construction removed an approximately 4 m thickness of native sand from the terrace downstream of the north abutment for placement in the Dam 1 embankment. Against the direction of Klohn-Crippen, and at the same location, several meters of frozen, loosely dumped spoil ripped and excavated from the emergency spillway was placed. This material should be removed and replaced with suitable fill for future raises, as it will probably be located within the raise footprint.

3.2.1 Shale (Weathered Bedrock Gravel)

Gravel fill derived from weathered bedrock was referred to as 'Shale'. This material was borrowed from just west of the main access road approximately 200 m north of the north abutment of Dam 1. This fill is described as GW (well graded gravel, gravel-sand mixtures, little or no fines) in the Unified Soil Classification System and is cobbley, with a trace to some sand and trace boulders. Individual particles are angular and strong. There were no compaction laboratory or field tests performed on the Shale. This fill was used for erosion protection on the surfaces of Dams 1 and 2, to reinforce the north abutment of

Dam 1, to line portions of the emergency spillway and the temporary spillway, and to construct haul roads.

3.2.2 Victoria Creek Gravel

75 mm minus gravel was screened and stockpiled at the Victoria Creek Crossing located approximately 6.5 km by road from Dam 1. This material was used to line the permanent diversion ditch from upstream of the reservoir to opposite the north abutment of Dam 1. This material is described as GW or GP (well or poorly graded gravel, gravel-sand mixtures, little or no fines) by the Unified Soil Classification System and contained a trace to some sand. Approximately 2500 m^3 of this fill was stockpiled at Victoria Creek for mine parking and road areas. Grain size tests were performed on three samples of Victoria Creek Gravel. Results are summarized in Table 2 and Appendix VII contains grain size test data.

3.2.3 Johnson Rock

This fill was produced during placer mining operations at the Johnson mine located 9 km from the tailings facility. This material is described as cobbles, with a trace of boulders. Johnson Rock particle sizes were approximately between 300 mm and 75 mm. The average particle diameter was estimated to be 150 mm. A trace of sand was mixed in with this rock during loading. 2600 m^3 of Johnson Rock was hauled from the Johnson mine and stockpiled just south of the emergency spillway approximately 100 m downstream of Dam 1 centerline from September 4th to September 22nd. Approximately 1700 m^3 was placed to line the emergency spillway and 900 m^3 remains stockpiled.

3.3 Dam 1

3.3.1 Geometry

The main dam or Dam 1 is comprised of approximately 95000 m^3 of sand and 8000 m^3 of Shale. The dam is approximately 265 m long and has a maximum height of 18.5 m. The centerline of the dam is at easting 20550 m. The crest width is 6 m. The upstream slope is approximately 2.5:1 and the downstream is 3.5:1. An upstream berm extends from elevation 1141.5 m and easting 20520 m at a gentle slope of approximately 20:1 to 20500 m east. The upstream slope of the berm is 2.5:1. Dam 1 was designed assuming a flat 50 m tailings beach on the upstream slope. Drawing 5314-08-02 presents a section through Dam 1 from upstream to downstream.

3.3.2 Geosynthetic Clay Liner

Dam 1 has an upstream geosynthetic clay liner extending from elevation 1150.7 m to the upstream edge of the berm. The GCL is intended as a secondary barrier to impede seepage. The tailings beach will be the primary seepage barrier. The GCL is Bentofix NS and is comprised of a woven layer (placed down), bentonite clay layer and a filter fabric non-woven layer (placed upwards). Each GCL roll was 4.72 m by 38.1 m and weighed 965 kg. GCL manufactures specifications are presented in Appendix VIII.

The GCL was placed in two lifts. The first lift of GCL was keyed in at elevation 1141 m. The GCL was spooled out from elevation 1141 m using a 245D Cat excavator. Handholds were cut and approximately 7 men unrolled the GCL down the slope. Side overlaps were a minimum of 230 mm and were powdered with standard Wyoming Bentonite. The final lift was keyed in at elevation 1150.7 m and overlapped the lower lift by at least 1 m. Drawing 5314-08-02 presents GCL layout information.

Six horizontal tears in the GCL were observed on September 19th at approximate elevation 1149.5 m from 18910 N to 18980 N. The tears were immediately patched.

3.3.3 Shale

The dam has a minimum of 300 mm of Shale covering the sand fill on the upstream and downstream slopes. The crest has 500 mm of Shale covering 300 mm of sand then the GCL at 1150.7 m (crest elevation 1151.5 m - 0.5 m -0.3 m). The north abutment and emergency spillway south sideslope have at least 600 mm of Shale covering the sand fill.

3.3.4 Compaction

Table 3 presents nuclear density compaction test results. For the sand fill placed in Dam 1, the 95% standard Proctor maximum dry density compaction specification was achieved with exceptions including the initial pad directly above the native subgrade, some upstream slope areas (prepared for clay liner) and lower portions of the north abutment.

3.3.5 Instrumentation

Drawing 5314-08-02 presents the locations of thermistors and pneumatic piezometers located in Dam 1. Table 4 presents thermistor readings. The pneumatic piezometer tips are located in frozen ground and are intended for use if thawing occurs.

On December 1, 1996 settlement pins were installed near the crest of Dam 1 as shown in Drawing 5314-08-02.

3.3.6 Schedule

Sand fill placement at Dam 1 began on June 11th and was paid hourly. Center and south portions of the footprint of Dam 1 were stripped of between 300 and 600 mm of organics

and immediately covered with approximately 500 mm of sand to reduce thaw. On July 1st the Dam 1 sand fill contract became mostly unit rate based. Fill placement was initially concentrated towards the upstream slope to allow early placement of the first lift of GCL and front berm to control dewatering. On August 27th, it was noted that the downstream slope was underbuilt by an average of 1.4 m. This was filled from the base up in horizontal lifts keyed-in to the existing fill. Excess fill was placed downstream of the crest to allow room for the 245D excavator during placement of the last lift of GCL. This material was pushed and used as fill on the downstream side. Occasional overnight freezing temperatures from about September 5th resulted in a morning frozen crust on the fill. Generally this was mitigated by Ketza. Sand fill operations were completed on September 25th.

An approximately 20 m diameter by 2.5 m deep volume of organics was removed from the north abutment. North abutment blacks removal began on July 11th and continued sporadically through the summer. On September 5th the inorganic subgrade of this area was scraped of unfrozen material and sand fill placement began.

The first GCL lift was installed on July 29th (not including cover). The second GCL lift was installed from September 9th to 11th.

Shale was placed for erosion protection on the sideslopes, crest and north abutment/emergency spillway sideslope. This material was first placed on the upstream berm on August 6th. Shale fill placement continued as necessary until October 18th, the last day of construction.

3.3.7 Tailings Beach

A minimum 50 m wide flat tailings beach on the upstream face of Dam 1 is necessary to improve static and dynamic stability, impede seepage, reduce foundation thaw, improve freeze-back, and reduce settlements and cracking. The Water Licence requires that the top of tailings be at least one meter below the invert of the emergency spillway (1149.7 m), therefore the tailings beach should begin on the upstream face at elevation 1148.7 m.

3.4 Seepage Control Dam (Dam 2)

Drawing 5314-08-02 presents Dam 2 details. Dam 2 is approximately 50 m long from north to south. The crest elevation is 1130 m. The crest width is 7 m. The upstream slope is 3.3:1 and the downstream slope 3.1:1. 300 mm of Shale was placed on the upstream slope and there is an average thickness of 1 m of Shale on the downstream slope.

Most of Dam 2 was stripped and padded with sand fill by July 5th, however large runoffs caused significant erosion. The area was left until after the first lift of GCL was placed in Dam 1. Dam 2 construction continued from August 7th to 12th. The GCL was installed and covered on August 11th. Additional Shale was placed on the downstream slope on August 18th to 19th.

The water impounded by Dam 2 should be kept below elevation 1129 m which is 1 m below the top of dam.

The thermistor string (95-10) in native soil beneath Dam 2 fill was damaged during Shale placement, however readings were recorded from June 28, 1995 to August 5, 1996.

3.5 Emergency Spillway

Drawing 5314-08-02 presents a plan and sections through the emergency spillway. The emergency spillway is a total of 395 m long. The grade is 0.1% from 55 m upstream of centerline (intake) to 50 m downstream of centerline. The grade is approximately 10% from 50 m to 340 m downstream of centerline (exit). The intake elevation or maximum reservoir elevation is 1149.7 m and the exit invert elevation is 1119 m. The maximum cut was 9 m near the exit. Sideslopes were cut back to flatter than 2:1. The intake portion was moved south from the original design location to accommodate the reclaim pump. The channel invert is 5 m wide and has 300 mm of gravel liner over the 0.1% sections and up to 750 mm of Johnson Rock and Shale over the 10% grade. Terrafix 600R filter fabric (see Appendix VIII for manufacturers specifications) separates the Johnson Rock and Shale from the native sand. The downstream exit area of the emergency spillway at Dome Creek is also protected with Johnson Rock and Shale. The permanent diversion joins the emergency spillway at 30 m downstream of centerline.

The downstream area of the emergency spillway was designated as a borrow area in the contract. Material was to be removed in a thawed condition and used as fill. Sand fill was first excavated from the emergency spillway on June 20th. Excavation continued at a limited pace to September 3rd. On September 30th, excavation continued by ripping the frozen subgrade and wasting the material (frozen ripped soil not thawed is unsuitable for fill and all sand fill operations were completed on September 25th). The contractor stopped excavating the emergency spillway on October 8th. Placement of liner fill in the channel ended on October 18th, the last day of construction.

3.6 Permanent Diversion Ditch

Plan and profile of the permanent diversion ditch are presented in Drawing 5314-08-02. Excavation for the permanent diversion ditch from the intersection with Dome Creek to

opposite Dam 1 centerline was carried out from May 15th to June 2nd. The grade is 0.1% from elevation 1151.5 m across a distance of 360 m. The maximum cut was about 3 m just west of Dam 1. A minimum of 300 mm of 75 mm minus screened Victoria Creek Gravel lines the 3 m wide invert and maximum 2:1 sideslopes a vertical distance of 1.4 m.

During construction, a culvert was installed beneath the access road near the Dam 1 centerline. As soon as practical, an additional or larger culvert should be installed or some other measure such as a low level crossing or small bridge should be constructed to allow passage of at least 6.4 m^3/sec of water, the maximum design flow of the permanent diversion ditch.

A culvert was installed in the Dome Creek channel at the upstream end of the permanent diversion ditch. A removable styrofoam board was used to allow selective water flow to the reservoir or to the diversion around the reservoir.

3.7 Temporary Diversion Ditch

The purpose of the temporary diversion ditch was to divert water from the emergency spillway while it was worked for thaw without ripping as a borrow area.

The temporary diversion ditch was initially constructed during late May and extends approximately 370 m from the east end of the permanent diversion ditch near Easting 20550 m to the far east edge of the site as shown in Drawing 5314-08-02. The temporary diversion ditch has an approximately 3 m wide invert and less than 10% grade. 'Cocomat' or North American Green C125 erosion mat was pinned along the invert and sideslopes to a depth of approximately 1 m. Several large runoffs caused damage to the temporary diversion. On July 20th and 23rd, DIAND representatives requested repairs which included

reshaping, organics removal, Shale placement and a temporary silt fence. The repairs were completed on July 26th.

On October 16th and 17th, the temporary diversion was blocked off when the permanent diversion was connected to the emergency spillway. The temporary diversion channel remains and improves local site drainage.

3.8 Additional Items

3.8.1 Organics Waste Areas

Organics stripped from Dam 1 and further downstream were stockpiled north and south of the temporary diversion ditch as shown in Drawing 5314-08-02.

3.8.2 Haul Roads

Drawing 5314-08-02 shows the road system used during the construction of the tailings facility. The main access road and haul roads were constructed of Shale. The main access road to the dam was constructed in 1995. To assess upstream borrow areas and allow one-way truck traffic, an access road was constructed from just upstream of the north abutment to Borrow C, along the base of Borrows C, B and A, and to the south abutment of Dam 1. An additional road was constructed parallel to the permanent diversion ditch for access to the tailings and water lines.

A Shale access road was used to access Dam 2 during its construction. This road was located south of the native sand terrace across the downstream portion of Dam 1.

A permanent Shale causeway was constructed for the mill reclaim pump near the northeast corner of the reservoir.

4. MONITORING, MAINTENANCE AND DESIGN REVIEW CRITERIA

4.1 Monitoring

The Water Licence contains a monitoring schedule which includes monthly readings of the thermistors and settlement pins. In addition, a designated employee of the mine should make and record observations at the tailings facility at least once per week. This information should be reviewed monthly by Klohn-Crippen.

A Klohn-Crippen representative should also conduct an annual inspection at the site and prepare an annual summary report.

4.2 Maintenance

The tailings facility will require maintenance during mine operations. This will include snow and ice removal as necessary in the permanent diversion and emergency spillway.

A near horizontal 50 m wide tailings beach should be spigotted along the upstream face of Dam 1 as soon as practical.

4.3 Design Review Criteria

In the Water Licence, a design review of Dam 1 is recommended if there is greater than 450 m of crest settlement, significant seepage, greater than 2 m thawing below the prepared subgrade or signs of distress. A design review is also required for temporary or permanent closures. Design review should be preceded by a site visit.

As noted below there has been 2 m of thaw recorded and downstream seepage. A design review is not recommended for these cases at this time.

5. CLOSURE

It is Klohn-Crippen's opinion, based on observations made during construction from May to October 1996, that the Mount Nansen tailings facility fulfills design objectives as described in the August 1995 Final Design Report. As noted in the report, modifications to the design may occur after observation of performance and instrument monitoring.

KLOHN-CRIPPEN CONSULTANTS LTD.

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APPENDIX I

Tables

1 Design Criteria
2 Laboratory Test Summary
3 Compaction Tests
4 Thermistor Readings
5 Dome Creek Weir Flows

Table 1: Mount Nansen Tailings Facility Design Criteria and As-Built Information

Component	General	Structural
Main Dam (Dam 1)	Seismic review at closure, 1 l/sec seepage after freezeback, can accommodate: 0.6 m crest settlement, complete thawing of foundation.	Sand fill, 2.5:1 US, 3.5:1 DS; 6 m crest width, crest 1151.5 m, 20 m US berm at 1141 m, US GCL, 18.5 m max height, centerline at 20550 m East, minimum 300 mm of gravel (Shale) surfacing on US and DS slopes and 500 mm on crest, 50 m tailings beach.
Seepage Control Dam (Dam 2)	Designed to intercept seepage from Dam 1 with anchored GCL in permanently frozen ground.	Sand fill, design: 3.5:1 US/DS, 5 m crest width, 1130 m crest, US GCL; 300 mm gravel (Shale) surfacing; Actual: 3.3:1 US, 3:1 DS, 7 m crest width, 300 mm gravel (Shale) US, 1 m average gravel DS.
Permanent Diversion	20 year peak flow at 6.4 m^3/sec (flow depth 1.4 m).	3 m wide invert, 1.4 m depth, 0.1% grade, 300 mm gravel liner, upstream elevation 1151.5 m, horizontal distance 360 m, crosses Dam 1 centerline at 1151.0 m, existing culvert limits capacity.
Temporary Diversion	Used during construction only to divert water from the emergency spillway borrow area.	Min 1 m wide invert, coconut mat, Shale lining placed over some sections, 370 m long, 1151 m upstream elevation, 1130 m downstream elevation, grade approximately 6%.
Emergency Spillway	200 year peak flow, 3.7 m^3/sec for 0.1% (flow depth 0.8 m) and 6.4 m^3/sec for 10% (flow depth 0.4 m).	1149.7 m intake, 5 m invert, 1.1 m depth at 0.1% -55 m to +50 m DS of CL, 0.8 m at 10% +50 to +340 m DS of CL, 300 mm gravel at 0.1%, filter cloth and 750 mm Shale or Johnson Rock liner at 10%.
Reservoir	240 000 m^3 original design capacity at 1149.7 m prior to reservoir enlargement by excavation for borrow, actual maximum tailings elevation 1148.7 m	Trees and shrubs mostly removed, haul roads left, access road on north side and causeway to reclaim pump, upstream borrow areas increased capacity.

References

Water Licence QZ94-004, Indian and Northern Affairs Canada
August 1995, Tailings Impoundment Final Design Report, Klohn-Crippen Consultants Ltd.

Caution: This table is based on information available on Dec 1996. Actual details may vary.

Geosynthetics

GCL	Bentofix NS distributed by Terrafix Geosynthetics
filter fabric (ES)	Terrafix 600R
coconut mat	C125 erosion control matting, manufactured by North American Green, distributed by Nilex

PM5314.08.02

Table 2: Mt. Nansen Tailings Facility Construction Laboratory Test Summary

Sample Number	Date	Location	USC	Gravel	Sand	Silt and Clay	Cu $\frac{D60}{D10}$	Cc $\frac{(D30)^2}{D10 \times D60}$	Natural w	Standard Proctor Maximum Dry Density	Standard Proctor Optimum w
				%	%	%			%	kg/m³	%
1	12 May 96	Victoria Creek Gravel 75 mm minus	GP	58	42	0	72	0.6			
3	26 May 96	Victoria Creek Gravel 75 mm minus	GW	66	33	1	95	1.6			
6	02 Jun 96	Victoria Creek Gravel at PDD 160 m DS	GW	61	37	2	75	1.1			
2	23 May 96	Sand Diversion Borrow	SP-SM	2	92	6	5	0.7	6	1715	13
4	26 May 96	Sand Borrow C	SP-SM	0	90	10	5	0.7	4	1690	14
5	31 May 96	Sand Borrow B	SP-SM	0	92	8	5	0.7	4	1721	14
7	14 Jun 96	Sand Dam Pad CL Elevation 1133.5 m	SP	6	90	4	3	0.8	4		
8	29 Jun 96	Sand Dam Pad from Borrow C	SP	16	81	3	3	0.8	7		

Notes:
USC- Unified Soil Classification System
GW- well graded gravels, gravel-sand mixtures, little or no fines
GP- poorly graded gravels, gravel-sand mixtures, little or no fines
SP-SM- poorly graded sands, 5 to 12% fines by weight
w- moisture content, weight of water by weight of solids
Cu- uniformity coefficient, D60/D10
Cc- coefficient of curvature, $D30^2/(D10 \times D60)$
D10- 10% by weight of sample is smaller than this diameter
well graded gravel- Cu > 4, Cc between 1 and 3
well graded sand- Cu > 6, Cc between 1 and 3

Table 3: Mount Nansen Tailings Facility Compaction Tests

Date	Probe Depth (mm)	Dry Density (kg/m³)	100% Standard Proctor Dry Density (kg/m³)	% Standard Proctor Dry Density (%)	Elevation (m)	Northing (m)	Easting (m)
17 Jun 96	300	1719	1721	100	1131	18932	20596
17 Jun 96	200	1674	1721	97	1131	18932	20596
17 Jun 96	300	1694	1721	98	1130.5	18946	20610
17 Jun 96	200	1687	1721	98	1130.5	18946	20610
21 Jun 96	300	1741	1721	101	1135	18927	20532
21 Jun 96	200	1720	1721	100	1135	18927	20532
21 Jun 96	300	1731	1721	101	1135.5	18942	20586
21 Jun 96	200	1746	1721	101	1135.5	18942	20586
21 Jun 96	300	1678	1721	98	1131.5	18939	20591
21 Jun 96	200	1689	1721	98	1131.5	18939	20591
22 Jun 96	300	1706	1721	99	1131.5	18940	20620
22 Jun 96	200	1685	1721	98	1131.5	18940	20620
22 Jun 96	300	1742	1721	101	1136	18935	20578
22 Jun 96	200	1717	1721	100	1136	18935	20578
02 Jul 96	300	1764	1721	102	1134.5	18955	20565
02 Jul 96	200	1718	1721	100	1134.5	18955	20565
03 Jul 96	300	1768	1721	103	1134.5	18850	20565
03 Jul 96	200	1776	1721	103	1134.5	18850	20565
10 Jul 96	300	1748	1721	102	1135	18950	20565
10 Jul 96	200	1729	1721	100	1135	18950	20565
05 Sep 96	300	1728	1721	100	1149.5	18980	20546
05 Sep 96	200	1699	1721	99	1149.5	18980	20546
06 Sep 96	300	1585	1721	92	1148	19055	20551
06 Sep 96	300	1583	1721	92	1146	19015	20537
06 Sep 96	300	1769	1721	103	1148	18870	20540
07 Sep 96	300	1739	1721	101	1150	19010	20560

TABLE 4: THERMISTOR READINGS (°C)

Drill hole	Point	Depth Below Original Ground (m)	North (m)	East (m)	Elevation (m)	21 Jun 95	22 Jun 95	23 Jun 95	25 Jun 95	26 Jun 95	28 Jun 95	29 Jun 95	30 Jun 95	01 Jul 95	02 Jul 95	18 Jul 95	29 Jul 95	09 Aug 95	03 Sep 95	10 Sep 95	18 Sep 95	25 Oct 95	05 Jan 96	14 May 96	25 May 96	01 Jun 96
DH95-04	1	1.0	19040	20555	1148.2										10.7	3.9	5.0	4.9	4.1	3.9	3.5	0.2	-5.5	-1.4	-0.5	0.0
DH95-04	2	2.0	19040	20555	1147.2										7.2	-0.2	0.1	0.3	0.7	0.7	0.8	0.2	-1.2	-2.4	-1.8	-1.4
DH95-04	3	3.0	19040	20555	1146.2										4.2	-0.6	-0.5	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-2.5	-2.1	-1.9
DH95-04	4	5.0	19040	20555	1144.2										0.8	-0.8	-0.7	-0.6	-0.5	-0.5	-0.5	-0.4	-0.5	-1.9	-1.8	-1.8
DH95-04	5	7.5	19040	20555	1141.7										1.0	-0.7	-0.7	-0.6	-0.6	-0.6	-0.5	-0.5	-0.4	-1.1	-1.2	-1.2
DH95-04	6	10.0	19040	20555	1139.2										0.0	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-0.7	-0.7
DH95-04	10	10.5	19040	20555	1138.7										0.0	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4	-0.6	-0.6	-0.6
DH95-04	7	15.0	19040	20555	1134.2										0.0	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4
DH95-04	9	15.5	19040	20555	1133.7										-0.1	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5
DH95-04	8	20.0	19040	20555	1129.2										0.0	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	10	0.5	18998	20540	1142.9							3.6	3.9	4.3	4.6	6.7	5.6	6.0	4.8	4.7	3.9	0.2	-3.6	0.0	1.4	
DH95-05	1	1.0	18998	20540	1142.4							0.7	0.7	0.8	0.9	2.3	2.5	2.6	2.5	2.5	2.3	0.1	-1.3	-0.5	-0.3	
DH95-05	2	2.0	18998	20540	1141.4							0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.6	-0.4	
DH95-05	3	3.0	18998	20540	1140.4							0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.8	-0.6	
DH95-05	4	5.0	18998	20540	1138.4							0.0	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.6	-0.6	
DH95-05	9	5.5	18998	20540	1137.9							0.0	0.0	0.0	0.3	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.5	-0.5	
DH95-05	5	7.5	18998	20540	1135.9							-0.1	-0.1	-0.1	0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	
DH95-05	6	10.0	18998	20540	1133.4							-0.1	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	
DH95-05	8	10.5	18998	20540	1132.9							0.0	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	
DH95-05	7	15.0	18998	20540	1128.4							-0.2	-0.2	-0.2	0.0	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	
DH95-06	7	0.5	18917	20542	1133.4	4.1	7.4	0.3	0.1	0.2	0.3		0.5		0.5	1.6	1.3	2.2	1.8	2.3	1.2	0.0				
DH95-06	1	1.0	18917	20542	1132.9	4.2	5.3	0.1	0.0	0.0	0.0		0.0		0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.8	-1.5	-1.1	-0.8
DH95-06	2	2.0	18917	20542	1131.9	3.4	2.9	0.0	-0.1	0.0	-0.1		0.0		0.0	-0.1	-0.3	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4	-2.3	-1.9	-1.6
DH95-06	3	3.0	18917	20542	1130.9	3.7	0.0	0.0	-0.1	0.0	0.0		0.0		0.0	0.0	0.0	0.0	-0.2	-0.3	-0.5	-0.7	-0.6	-2.4	-2.1	-1.9
DH95-06	4	5.0	18917	20542	1128.9	2.5	-0.1	0.0	-0.1	-0.1	0.0		-0.1		0.0	-0.9	-1.0	-0.1	-1.0	-0.9	-0.9	-0.9	-0.9	-1.8	-1.8	-1.7
DH95-06	6	5.5	18917	20542	1128.4	2.6	0.0	0.0	0.0	0.0	0.0		0.0		0.1	-0.7	-1.0	-0.1	-1.0	-0.9	-1.0	-0.9	-0.8	-1.6	-1.6	-1.6
DH95-06	5	7.5	18917	20542	1126.4	3.6	0.3	0.0	-0.1	0.0	-0.1		0.0		0.0	-0.1	-0.2	-0.5	-0.8	-0.9	-0.9	-1.0	-0.9	-1.2	-1.2	-1.2
DH95-08B	7	0.3	18927	20586	1131.3					4.9	4.5		7.1		7.2	7.8	6.0	6.4	4.0	5.5	3.1	-0.7				
DH95-08B	1	0.8	18927	20586	1130.8					0.0	0.0		0.0		0.1	1.0	1.3	1.7	1.9	1.9	1.6	0.0	-0.7	-0.9	-0.6	-0.5
DH95-08B	2	1.8	18927	20586	1129.8					0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-1.4	-1.2	-1.0
DH95-08B	3	2.8	18927	20586	1128.8					0.0	0.0		0.0		0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-1.4	-1.2	-1.1

TABLE 4: THERMISTOR READINGS (°C)

Drill hole	Point	Depth Below Original Ground (m)	North (m)	East (m)	Elevation (m)	21 Jun 95	22 Jun 95	23 Jun 95	25 Jun 95	26 Jun 95	28 Jun 95	29 Jun 95	30 Jun 95	01 Jul 95	02 Jul 95	18 Jul 95	29 Jul 95	09 Aug 95	03 Sep 95	10 Sep 95	18 Sep 95	25 Oct 95	05 Jan 96	14 May 96	25 May 96	01 Jun 96
DH95-08B	4	4.8	18927	20586	1126.8					-0.1	-0.1		-0.1		-0.1	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-1.2	-1.1	-1.1
DH95-08B	6	5.3	18927	20586	1126.3					0.0	0.0		0.0		0.2	-0.1	-0.3	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6	-1.0	-1.0	-1.0
DH95-08B	5	7.3	18927	20586	1124.3																					
DH95-09	7	0.4	18914	20497	1134.7					2.7		3.7	4.4	4.7	4.8	6.5	5.0	5.6	4.3	4.3	2.8	0.0	-1.9			
DH95-09	1	0.9	18914	20497	1134.2					-0.1		-0.1	0.0	0.0	0.1	0.7	1.0	1.4	1.5	1.5	1.3	-0.1	-0.2	-0.7	-0.5	-0.5
DH95-09	2	1.9	18914	20497	1133.2					-0.1		-0.1	-0.1	-0.1	0.0	-0.2	-0.2	0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.9	-0.8	-0.7
DH95-09	3	2.9	18914	20497	1132.2					0.0		0.0	0.0	0.0	0.0	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.8	-0.8	-0.7
DH95-09	4	4.9	18914	20497	1130.2					-0.1		-0.1	-0.1	-0.1	-0.1	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.7	-0.7	-0.7
DH95-09	6	5.4	18914	20497	1129.7					-0.2		-0.2	-0.2	-0.2	-0.1	-0.6	-0.6	-0.6	-0.6	-0.6	-0.4	-0.6	-0.6	-0.8	-0.8	-0.8
DH95-09	5	7.4	18914	20497	1127.7					-0.2		-0.2	-0.2	-0.2	-0.2	-0.7	-0.7	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
DH95-10	8	-0.1	18936	20676	1128.5						17.0		9.9		8.5	11.6	13.7	16.0	11.6	9.6	14.0	-0.5	-11.5	0.3	0.3	0.3
DH95-10	1	1.3	18936	20676	1127.1						2.5		-0.3		0.1	-0.7	-0.6	-0.6	-0.5	-0.4	-0.4	-0.3	-1.1	-1.9	-1.5	-1.3
DH95-10	2	2.3	18936	20676	1126.1						2.7		-0.9		-1.2	-1.1	-1.0	-0.9	-0.8	-0.7	-0.7	-0.6	-0.7	-2.6	-2.2	-2.0
DH95-10	3	3.3	18936	20676	1125.1						2.3		-0.9		-1.3	-1.3	-1.2	-1.2	-1.0	-1.0	-0.9	-0.8	-0.7	-2.7	-2.3	-2.2
DH95-10	7	4.7	18936	20676	1123.7						6.3		-0.3		-1.4	-1.5	-1.5	-1.4	-1.3	-1.2	-1.2	-1.1	-0.9	-2.3	-2.2	-2.2
DH95-10	9	4.9	18936	20676	1123.5						9.0		-0.1		-1.1	-1.5	-1.4	-1.4	-1.2	-1.2	-1.2	-1.0	-0.8	-2.4	-2.2	-2.2
DH95-10	4	5.2	18936	20676	1123.2						3.2		-1.1		-1.2	-1.4	-1.3	-1.2	-1.1	-1.1	-1.0	-0.9	-0.8	-2.0	-2.0	-1.9
DH95-10	5	7.7	18936	20676	1120.7						1.9		-1.3		-1.2	-1.4	-1.4	-1.3	-1.3	-1.3	-1.2	-1.2	-1.0	-1.5	-1.6	-1.6
DH95-10	10	9.6	18936	20676	1118.8						5.7		-0.1		-0.7	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.0	-1.2	-1.2	-1.3
DH95-10	6	9.9	18936	20676	1118.5						4.3		0.1		-0.6	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-0.9	-1.0	-1.0	-1.1
96-H	1	-2.8	18940	20611	1133.1																					
96-H	2	-2.5	18935	20598	1133.5																					
96-H	3	-1.6	18932	20584	1133.1																					
96-H	4	-1.5	18930	20571	1133.5																					
96-H	5	-1.3	18929	20557	1133.9																					
96-H	6	-0.7	18927	20543	1134.1																					
96-H	7	-0.3	18925	20530	1134.3																					
DH96-1	1	-0.3	18888	20553	1140.4																					
DH96-1	2	3.7	18888	20553	1136.4																					

TABLE 4: THERMISTOR READINGS (°C)

Drill hole	Point	Depth Below Original Ground (m)	North (m)	East (m)	Elevation (m)	07 Jun 96	08 Jun 96	09 Jun 96	10 Jun 96	11 Jun 96	16 Jun 96	19 Jun 96	26 Jun 96	30 Jun 96	07 Jul 96	15 Jul 96	20 Jul 96	28 Jul 96	05 Aug 96	23 Aug 96	31 Aug 96	13 Sep 96	26 Sep 96	26 Oct 96
																			recalibrated					
DH95-04	1	1.0	19040	20555	1148.2		2.0				3.1	4.0	6.5	6.8	6.5	7.5	7.0	8.3	7.7	6.0	5.4	3.3	2.6	0.8
DH95-04	2	2.0	19040	20555	1147.2		-1.1					-0.6	-0.2	0.0	1.0	1.7	1.7	2.1	2.5	2.3	2.2	1.6	1.3	0.5
DH95-04	3	3.0	19040	20555	1146.2		-1.7					-1.4	-1.1	-1.0	-0.7	-0.5	-0.4	-0.3	-0.3	-0.2	-0.2	-0.1	-0.1	-0.1
DH95-04	4	5.0	19040	20555	1144.2		-1.7				-1.6	-1.6	-1.4	-1.4	-1.2	-1.1	-1.0	-0.9	-0.8	-0.6	-0.6	-0.5	-0.5	-0.4
DH95-04	5	7.5	19040	20555	1141.7		-1.2				-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.1	-1.0	-1.0	-0.8	-0.8	-0.7	-0.7	-0.6
DH95-04	6	10.0	19040	20555	1139.2		-0.7				-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7	-0.7	-0.7	-0.6
DH95-04	10	10.5	19040	20555	1138.7		-0.7				-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6
DH95-04	7	15.0	19040	20555	1134.2		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	9	15.5	19040	20555	1133.7		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	8	20.0	19040	20555	1129.2		-0.4				-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	10	0.5	18998	20540	1142.9	3.4					3.7	4.6	7.1	6.3	6.2	6.9	6.7	8.5	7.3	5.8	5.1	4.3		
DH95-05	1	1.0	18998	20540	1142.4	-0.1					0.5	0.9	2.2	2.4	2.3	3.2	3.1	4.2	4.3	3.6	3.1	2.5		
DH95-05	2	2.0	18998	20540	1141.4	-0.3					-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0		
DH95-05	3	3.0	18998	20540	1140.4	-0.5					-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2		
DH95-05	4	5.0	18998	20540	1138.4	-0.5					-0.5	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3		
DH95-05	9	5.5	18998	20540	1137.9	-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3	-0.2	-0.2		
DH95-05	5	7.5	18998	20540	1135.9	-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3		
DH95-05	6	10.0	18998	20540	1133.4	-0.4					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3	not functioning	
DH95-05	8	10.5	18998	20540	1132.9	-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
DH95-05	7	15.0	18998	20540	1128.4	-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
DH95-06	7	0.5	18917	20542	1133.4								1.9						1.3		1.6	1.4	1.1	1.2
DH95-06	1	1.0	18917	20542	1132.9				-0.8		-0.7	-0.6	-0.5	-0.5	-0.5	-0.4	-0.4	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1
DH95-06	2	2.0	18917	20542	1131.9				-1.5		-1.4	-1.3	-1.2	-1.2	-1.1	-1.0	-1.0	-0.9	-0.8	-0.7	-0.7	-0.6	-0.6	-0.6
DH95-06	3	3.0	18917	20542	1130.9				-1.8		-1.7	-1.7	-1.6	-1.6	-1.5	-1.4	-1.3	-1.2	-1.2	-1.0	-1.0	-0.9	-0.9	-0.8
DH95-06	4	5.0	18917	20542	1128.9				-1.8		-1.7	-1.7	-1.7	-1.6	-1.6	-1.5	-1.5	-1.5	-1.4	-1.3	-1.3	-1.2		-1.1
DH95-06	6	5.5	18917	20542	1128.4				-1.6		-1.6	-1.6	-1.6	-1.5	-1.5	-1.5	-1.5	-1.4	-1.4	-1.3	-1.2	-1.2	-1.2	-1.1
DH95-06	5	7.5	18917	20542	1126.4				-1.3		-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.2	-1.2	-1.2	-1.1	-1.1
DH95-08B	7	0.3	18927	20586	1131.3																			
DH95-08B	1	0.8	18927	20586	1130.8				-0.5		-0.4	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	0.0	0.0
DH95-08B	2	1.8	18927	20586	1129.8				-1.0		-0.9	-0.9	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6	-0.5	-0.4	-0.4	-0.4	-0.4	-0.3
DH95-08B	3	2.8	18927	20586	1128.8				-1.1		-1.0	-1.0	-1.0	-0.9	-0.9	-0.8	-0.8	-0.8	-0.7	-0.6	-0.6	-0.6	-0.5	-0.5

TABLE 4: THERMISTOR READINGS (°C)

Drill hole	Point	Depth Below Original Ground (m)	North (m)	East (m)	Elevation (m)	07 Jun 96	08 Jun 96	09 Jun 96	10 Jun 96	11 Jun 96	16 Jun 96	19 Jun 96	26 Jun 96	30 Jun 96	07 Jul 96	15 Jul 96	20 Jul 96	28 Jul 96	recalibrated 05 Aug 96	23 Aug 96	31 Aug 96	13 Sep 96	26 Sep 96	26 Oct 96
DH95-08B	4	4.8	18927	20586	1126.8				-1.2		-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-0.8	-0.8	-0.8	-0.8	-0.7
DH95-08B	6	5.3	18927	20586	1126.3				-1.1		-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-0.9	-0.8	-0.8	-0.8	-0.8	-0.7
DH95-08B	5	7.3	18927	20586	1124.3																			
DH95-09	7	0.4	18914	20497	1134.7								2.5	2.3	1.8	2.1	1.7	2.1						
DH95-09	1	0.9	18914	20497	1134.2					-0.5	-0.5	-0.5	-0.4	-0.4	-0.3	-0.2	-0.1	0.1	0.0	0.1	0.2	0.3	0.2	0.1
DH95-09	2	1.9	18914	20497	1133.2					-0.8	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.6	-0.6	-0.4
DH95-09	3	2.9	18914	20497	1132.2					-0.8	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.3	-0.5
DH95-09	4	4.9	18914	20497	1130.2					-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	-0.6	-0.7	-0.7
DH95-09	6	5.4	18914	20497	1129.7					-0.9	-0.9	-0.9	-0.9	-0.9	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7	-0.8	-0.9
DH95-09	5	7.4	18914	20497	1127.7					-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.8	-0.8	-0.8	-0.6	-0.9
DH95-10	8	-0.1	18936	20676	1128.5			10.3			19.5	12.7	16.7	4.9	10.1	5.9	7.3	11.9	6.2					
DH95-10	1	1.3	18936	20676	1127.1			-1.2			-1.1	-1.0	-0.9	-0.9	-0.8	-0.7	-0.7	-0.6	-0.6					
DH95-10	2	2.3	18936	20676	1126.1			-1.8			-1.7	-1.6	-1.5	-1.4	-1.3	-1.2	-1.2	-1.1	-1.0					
DH95-10	3	3.3	18936	20676	1125.1			-2.0			-1.9	-1.9	-1.8	-1.7	-1.6	-1.5	-1.5	-1.4	-1.3					
DH95-10	7	4.7	18936	20676	1123.7			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.8	-1.7	-1.7	-1.6					
DH95-10	9	4.9	18936	20676	1123.5			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.7	-1.7	-1.6	-1.6					
DH95-10	4	5.2	18936	20676	1123.2			-1.9			-1.8	-1.8	-1.8	-1.7	-1.7	-1.6	-1.6	-1.5	-1.5					
DH95-10	5	7.7	18936	20676	1120.7			-1.6			-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.5					
DH95-10	10	9.6	18936	20676	1118.8			-1.3			-1.3	-1.3	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4					
DH95-10	6	9.9	18936	20676	1118.5			-1.1			-1.1	-1.1	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2					
96-H	1	-2.8	18940	20611	1133.1									9.3	11	11	11	10	11	8.9	8.2	6.9	5.4	2.8
96-H	2	-2.5	18935	20598	1133.5									10	9.4	9.5	9.0	8.6	8.5	7.8	7.3	6.5	6.0	4.6
96-H	3	-1.6	18932	20584	1133.1									9.6	8.7	8.8	8.4	8.1	8.1	7.4	6.9	6.2	5.7	4.8
96-H	4	-1.5	18930	20571	1133.5									9.9	8.6	8	7.6	7	6.6	6.0	5.7	5.3	5.0	4.4
96-H	5	-1.3	18929	20557	1133.9									9.3	8.1	7.8	7.5	6.9	6.6	6.0	5.7	5.3	5.0	4.3
96-H	6	-0.7	18927	20543	1134.1									8.6	7.5	7.1	6.9	6.5	6.3	5.9	5.6	5.3	4.9	4.2
96-H	7	-0.3	18925	20530	1134.3									7.6	5.7	5.2	5.0	4.6	4.4	4.0	3.8	3.6	3.4	2.9
DH96-1	1	-0.3	18888	20553	1140.4													5.3	4.1	2.2	2.0	1.8	1.6	1.3
DH96-1	2	3.7	18888	20553	1136.4													-1.8	-1.8	-1.7	-1.6	-1.6	-1.5	-1.5

not functioning

Table 5: Mount Nansen Tailings Facility
Dome Creek Weir Flows

Date	Flow l/sec	Date	Flow l/sec	Date	Flow l/sec	Date	Flow l/sec
11 Sep 94	7	01 Jun 96	177	12 Jul 96	7	22 Aug 96	20
12 Sep 94	15	02 Jun 96	44	13 Jul 96	8	23 Aug 96	25
21 Jun 95	1	03 Jun 96	27	14 Jul 96	39	26 Aug 96	20
09 Jul 95	7	04 Jun 96	8	15 Jul 96	960	27 Aug 96	20
11 Jul 95	17	05 Jun 96	5	16 Jul 96	960	28 Aug 96	22
12 Jul 95	12	06 Jun 96	5	17 Jul 96	66	29 Aug 96	27
16 Jul 95	7	07 Jun 96	3	18 Jul 96	41	30 Aug 96	20
19 Jul 95	2	08 Jun 96	4	19 Jul 96	44	31 Aug 96	21
20 Jul 95	7	09 Jun 96	3	20 Jul 96	33	01 Sep 96	20
21 Jul 95	2	10 Jun 96	5	21 Jul 96	19	02 Sep 96	41
22 Jul 95	8	11 Jun 96	12	22 Jul 96	15	03 Sep 96	29
23 Jul 95	33	12 Jun 96	5	23 Jul 96	23	04 Sep 96	29
24 Jul 95	55	13 Jun 96	10	24 Jul 96	15	05 Sep 96	20
25 Jul 95	37	14 Jun 96	6	25 Jul 96	9	06 Sep 96	21
26 Jul 95	31	15 Jun 96	3	26 Jul 96	17	07 Sep 96	27
27 Jul 95	109	16 Jun 96	5	27 Jul 96	8	08 Sep 96	17
28 Jul 95	41	17 Jun 96	5	28 Jul 96	5	09 Sep 96	23
30 Jul 95	16	18 Jun 96	3	29 Jul 96	5	10 Sep 96	22
01 Aug 95	12	19 Jun 96	4	30 Jul 96	8	11 Sep 96	19
04 Aug 95	55	20 Jun 96	7	31 Jul 96	35	12 Sep 96	15
07 Aug 95	19	21 Jun 96	5	01 Aug 96	199	13 Sep 96	16
08 Aug 95	11	22 Jun 96	3	02 Aug 96	44	14 Sep 96	16
12 May 96	31	25 Jun 96	5	03 Aug 96	960	15 Sep 96	20
13 May 96	55	26 Jun 96	2	04 Aug 96	86	19 Sep 96	20
14 May 96	55	27 Jun 96	3	05 Aug 96	33	20 Sep 96	26
15 May 96	31	28 Jun 96	3	06 Aug 96	33	21 Sep 96	16
16 May 96	20	29 Jun 96	2	07 Aug 96	66	22 Sep 96	35
17 May 96	20	30 Jun 96	2	10 Aug 96	44	23 Sep 96	14
21 May 96	17	01 Jul 96	4	11 Aug 96	27	24 Sep 96	16
22 May 96	17	02 Jul 96	49	12 Aug 96	41	25 Sep 96	20
23 May 96	17	03 Jul 96	60	13 Aug 96	15	26 Sep 96	11
24 May 96	15	04 Jul 96	35	14 Aug 96	17	27 Sep 96	11
25 May 96	7	05 Jul 96	23	15 Aug 96	16	30 Sep 96	2
26 May 96	8	06 Jul 96	10	16 Aug 96	16	01 Oct 96	1
27 May 96	7	07 Jul 96	14	17 Aug 96	15	02 Oct 96	1
28 May 96	7	08 Jul 96	9	18 Aug 96	25		
29 May 96	3	09 Jul 96	4	19 Aug 96	22		
30 May 96	2	10 Jul 96	5	20 Aug 96	22		
31 May 96	2	11 Jul 96	8	21 Aug 96	19		

Data from V-notch weir located 2 km downstream of Dam 1 at the junction of the Mount Nansen Road and Dome Creek. The actual capacity of this weir is 50 l/sec. Larger flows are estimated. Recorded flows should not be used by unqualified persons to predict future flows. Future flows may be very different from previously recorded values.

B.Y.G. Natural Resources Inc.

Mt. Nansen Project

Construction of Tailings Dam Facility

Introduction

BYG are currently preparing their Mt. Nansen gold project for production, and are planning to construct the tailings dam and associated works beginning in early August. Final Detailed engineering is being prepared by our consultants, Klohn-Crippen of Calgary. Mr. Bill Chin is the geo-technical Project Manager for the project.

The project is located 60 km west of Carmacks via the Nansen Creek Road. This gravel road is maintained through the summer months by the Yukon Government.

BYG currently have crews on site preparing camp and other facilities. We expect to have an operational camp for 26 men available by August 7. BYG activities are under the direction of Mr. Bob Hinkkuri, who is Site Manager.

BYG are seeking a Contractor with the necessary crews and equipment immediately available to undertake to build the dam.

Form of Contract

Time constraints prevent the preparation of a formal ten process, with a fully documented design. Therefore, BYG are se to find an approach that provides protection for the cont bidder, as well as incentive for them to perform quickly and economically.

We are therefore proposing that the work be undertaken on a combination of equipment time rentals for the miscellaneous type of work, and a firm unit cost price to recover borrow and place fill on the dam.

Part A of the Tender Form has been selected as that part of the work that can be fairly priced on a firm cost basis. The units shown are current estimates, and will be more firmly documented on conclusion of detailed engineering, about August 4.

Part B of the Tender Form covers the work such as grub and strip, excavation below the dams, installation of membranes, etc. which could be done on a equipment chargeout rate. Each Contractor will detail his equipment selection, estimated number of hours of work for the project, and "all in" chargeout rates.

Part C of the Tender Form will cover misc. not applicable to the Part A unit price portion.

Description of work

The dam will be built in Dome Creek, approximately 1 km south-east of the mill. Dome Creek is a low flow creek through much of the summer and fall. Flows have ranged this year from 5 usgpm to 250 usgpm after recent rainfalls. Total precipitation averages 270 mm, with about 50% of this in the form of winter snowfall.

An 0.8 km access road to the site has been developed from the Nansen Creek Road. It is expected that the construction area will be cleared of trees prior to the arrival of the successful bidder on this work.

The dam will be constructed on essentially a terrace sand foundation, which is in a permafrost condition. Very little stripping or foundation preparation is required on the north (left) abutment, excavation up to 2-3 metres will be required in the lower creek section, plus some 1-2 metres excavation on the south (right) abutment.

The dam will be a about 18 metres high on dam centre-line at Dome Creek, with an approximate crest length of 250 metres, and with slopes of 2:5 to 1 upstream, and 3.5 to 1 downstream. It is currently estimated that total dam volume will be 100,000 cu. metres.

A geo-synthetic clay liner will be placed in the upstream face of the dam.

The dam will be constructed of terrace sand, from borrow areas located within 300 metres of the dam centre-line. The crest and down-stream face of the dam will be protected against erosion by rip-rap.

A seepage collection dam will be built down-stream of the main dam. This will be a relatively shallow dam, about 2 metres high, with a crest length of 50 to 60 metres. The base will be excavated and a impervious membrane installed in the face of the dam, under the pond, and keyed into the floor of the valley.

A diversion ditch will be prepared to divert water around the construction area. Work on this ditch is currently underway, and <u>may not</u> form part of this contract.

Company will Provide

1. Approved engineering drawings and specifications for the work.

2. Geo-technical engineer on site to provide direction and approval from both an operating and technical approach.

3. Camp facility with room and board charge out rates at $30.00 per man per day.

4. Office space in renovated mine office, with access to company telephone lines. (Business and personal emergency phone access only.)

5. Supply of necessary rip-rap within 300 metres of dam.

6. Daily approval of necessary time sheet or requisition approval by Site Manager.

7. Provide liners for both main dam and seepage pond.

8. Provide culverts for any permanent installations.

9. Prompt Payment of approved invoices.

Contractor will Supply

1. All necessary equipment to complete the work, costs including all operating and maintenance costs, equipment write-offs and profits.

2. Pay for all necessary men and supervision for the work, with proof of WCB coverage, plus coverage of legislated fringe costs for labour.

3. Pay for mobilization of all men, material and equipment to the project site and demobilization at end of contract.

4. Preparation of daily reporting sheets available to company reps within 24 hours.

Standard of Care

The Contractor shall ensure that all work managed by the Contractor will conform with all laws, regulations, rules and licenses, and in particular the terms and provisions of the Owner's permits and operating licenses and the safety laws and regulations of the Yukon.

The Contractor will agree to indemnify and save the Owner harmless from and against any and all claims, suits, demands, damages and costs arising from or occurring as a result of the negligence of the Contractor.

The Owner will agree to indemnify and save the Contractor harmless from and against any and all claims, suits, demands, damages and costs arising from or occurring as a result of the negligence of the Owner.

Tender Form

Part A - Unit Price

	Units	Unit Price	Cost
1. Mobilization	1	_____	_____
2. Demobilization	1	_____	_____
3. Main dam, Load, Haul, Compact fill	100,000 cm	_____	_____
4. Main Dam rip-rap	2,000 cm	_____	_____
5. Seepage dam, Load, Haul, Compact fill	3,000 cm	_____	_____

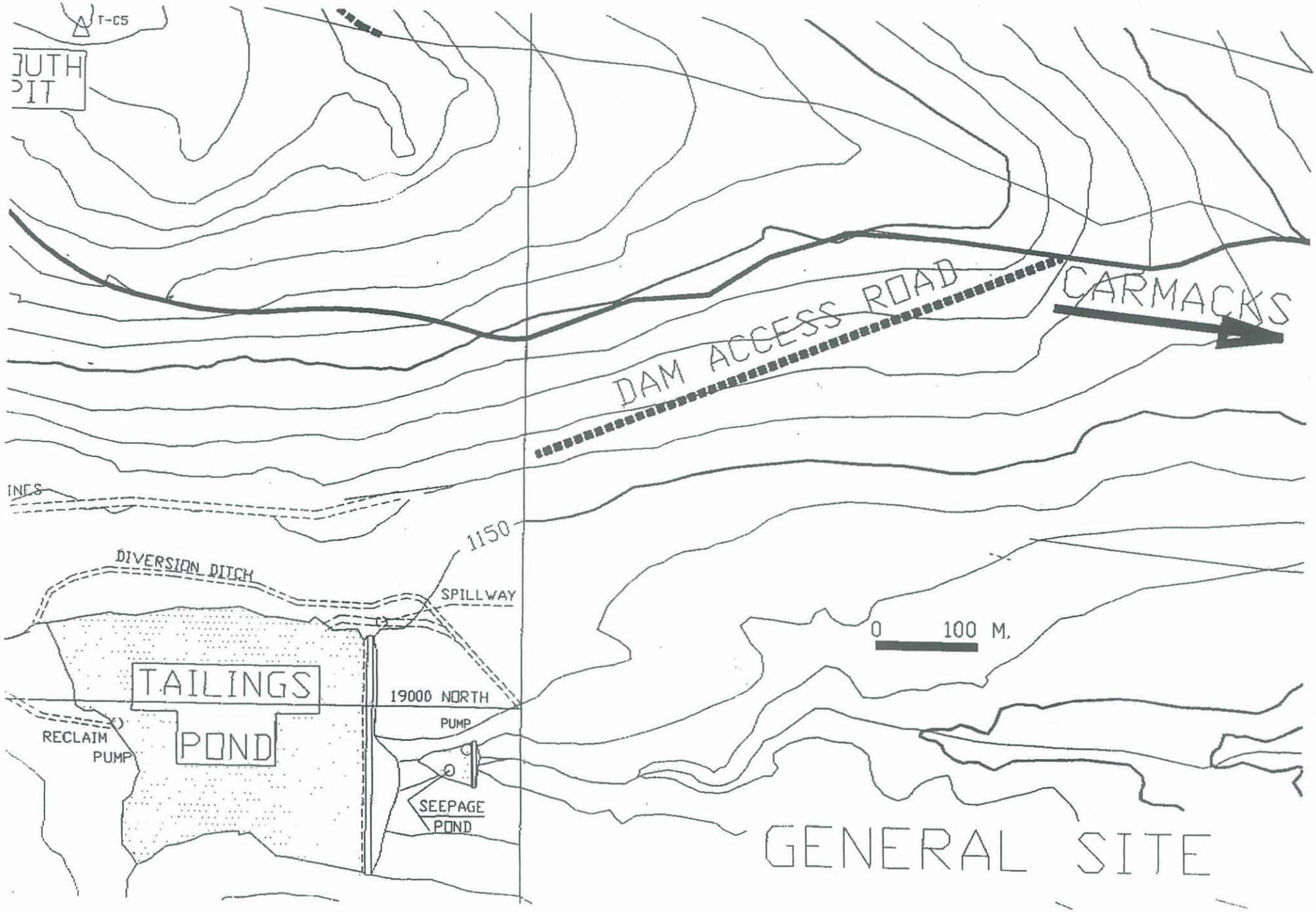
Part B - Equip. Time Chargeout

	EQUIPMENT TYPE	Hours	Unit Price	Cost
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____

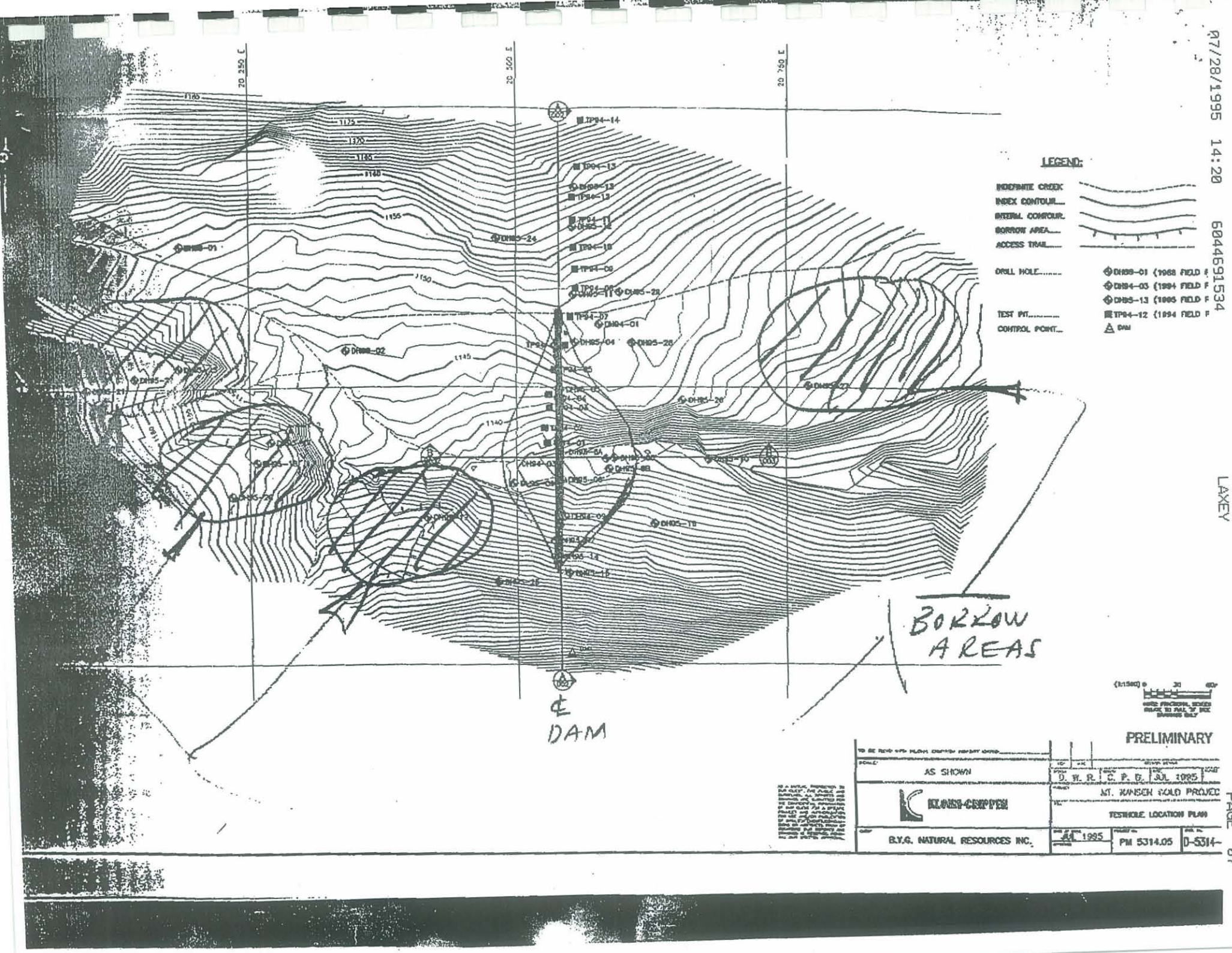
Part C - Labour Chargeout

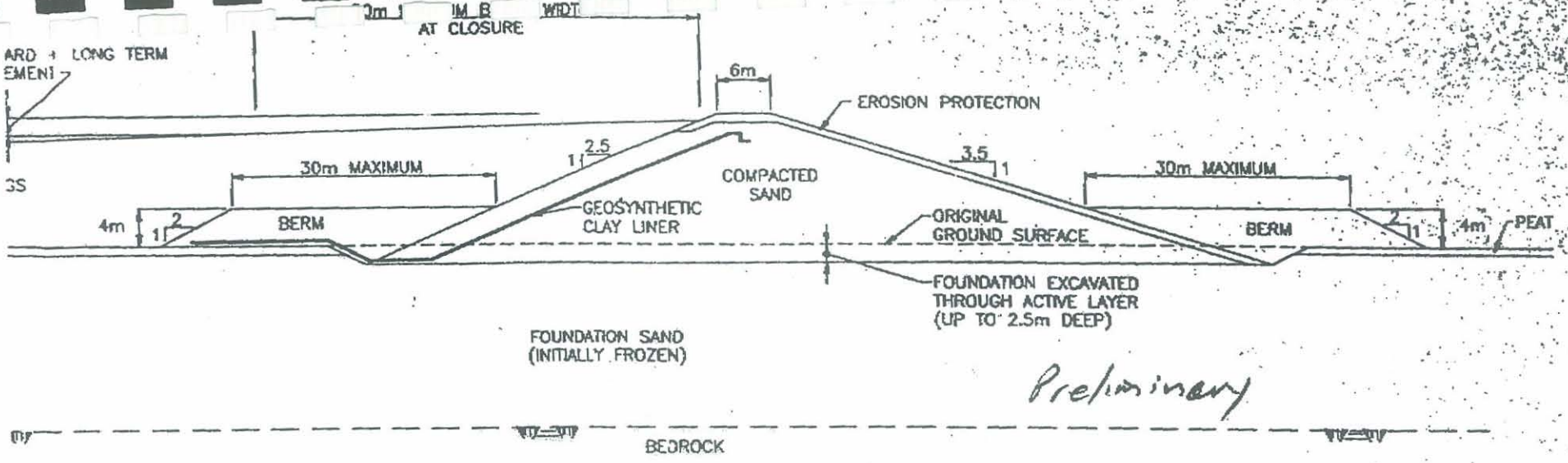
1.	_____	_____	_____	_____

*Note:
Contractor will supply a detailed Schedule of work and Costs with Tender Form



07/28/1995 14:20 6044691534 LAXEY PAGE 06


LEGEND:
INDEFINITE CREEK
INDEX CONTOUR
INTERM. CONTOUR
BORROW AREA
ACCESS TRAIL
DRILL HOLE
TEST PIT
CONTROL POINT
DH89-01 (1989 FIELD
DH94-03 (1994 FIELD
DH95-13 (1995 FIELD
TP94-12 (1994 FIELD
DAM
BORROW AREAS
℄ DAM
PRELIMINARY
AS SHOWN
D. W. R.
C. P. G.
JUL 1995
KLOHN-CRIPPEN
MT. KANSEN GOLD PROJECT
TESTHOLE LOCATION PLAN
B.Y.G. NATURAL RESOURCES INC.
AUG 1995
PM 5314.05
D-5314-

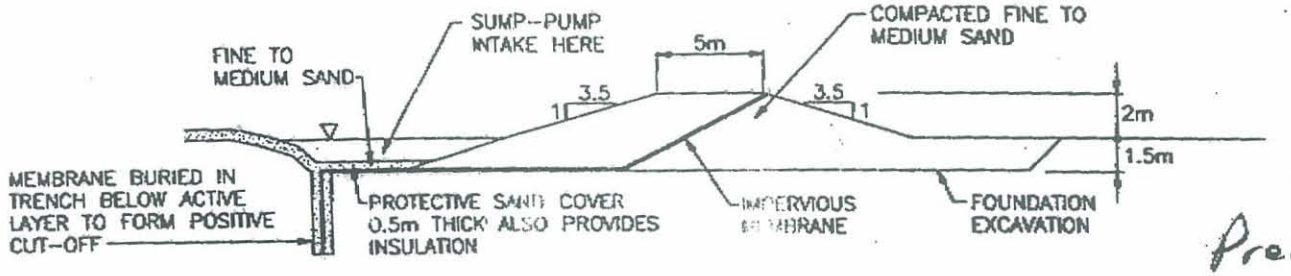


Preliminary

SECTION B

SCHEMATIC DAM CROSS SECTION AT MID-VALLEY

SCALE D

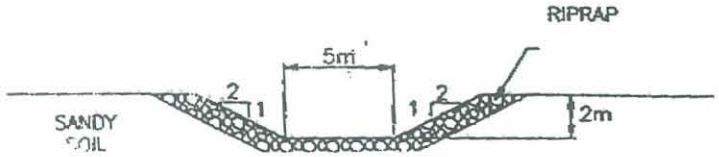


Preliminary

SECTION C

SCALE C

SEEPAGE COLLECTION DAM



APPENDIX III

Daily Reports

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 1

Date: 11-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☑ Site Road Work	Prepare road material borrow
☐ Diversion / Spillway	
☑ Zone 2 Armouring	Develop borrow for Zone 2 material at Victoria Cr.
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☑ Site Cleanup	Leveling bone yard for armour stockpiles

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☐ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☐ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☐ Cat D9H Dozer	☐ Pump	1 Tandem Trucks

Lowbed truck

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

- Road material borrow developed along access road to the dam.
- Zone 2 gravel hauled to bone yard 300 m³/day.

Weather

Temperature Min
-1 Deg.C

Temperature Max
8 Deg.C

Cloud Conditions
Cloudy

Precipitation
light Frost

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 2
Date: 12-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☑ Site Road Work	Excavate and haul surfacing for access road
☐ Diversion / Spillway	
☑ Zone 2 Armouring	Level screening pad area
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☐ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☑ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Grain size test for zone 2 borrow
See attached data.

Decision by Ketza to set up screening plant @ creek borrow to minimize cost. I agreed as long as precautions taken for the creek.

Weather

Temperature Min
-1 Deg.C

Temperature Max
7 Deg.C

Cloud Conditions
Scattered Cloud

Precipitation
light Frost

Norm Eenkooren
Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 3

Date: 13-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Stripping for spillway, dam north abutment
☑ Site Road Work	Haul and place road pad across basin
☐ Diversion / Spillway	
☑ Zone 2 Armouring	Unload screening plant
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup	

Inspections/Testing

- ☑ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☑ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Loader & labour off loaded screening plant @ Victoria Cr. borrow.

Thermister readings attached.

Weather

Temperature Min
-1 Deg.C

Temperature Max
10 Deg.C

Cloud Conditions
Clear

Precipitation
light Frost

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 4
Date: 14-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑	Stripping	Load and haul stripping to upper waste area
☑	Site Road Work	Construct site access roads and culvert in Dome Cr
☐	Diversion / Spillway	
☑	Zone 2 Armouring	Assembling screening plant
☐	Zone 4 Armouring	
☐	Temporary Diversion	
☐	Geotextiles (600R)	
☐	Liner Placement	
☐	Dam Embankment	
☐	Instrumentation	
☐	Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑	Cat 245 Excavator	☑	Cat D6D Dozer	☑ Screening Plant
☑	Cat 966 Loader	☐	Packer	2 6 Wheel Trucks
☑	Cat D9H Dozer	☐	Pump	0 Tandem Trucks

Service Truck

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Excavator & Labour install 900 mm culvert in Dome Cr.

Loader & Labour setting up screening plant.

Weather

Temperature Min
-4 Deg.C

Temperature Max
1 Deg.C

Cloud Conditions
Overcast

Precipitation
heavy Frost

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 5
Date: 15-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Load and haul stripping to upper waste area
☑ Site Road Work	Construct access to upper waste area
☐ Diversion / Spillway	
☑ Zone 2 Armouring	Assembling screening plant
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	0 Tandem Trucks
Service Truck		

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Loader, service truck, & labour setting up screening plant.

Weather

Temperature Min
2 Deg.C

Temperature Max
-4 Deg.C

Cloud Conditions
Overcast

Precipitation
heavy Frost

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 6
Date: 16-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑	Stripping	Load/haul stripping from spillway to waste area.
☐	Site Road Work	
☑	Diversion / Spillway	D9H dozer ripping diversion channel
☑	Zone 2 Armouring	Test screen plant/ build containment for generator
☐	Zone 4 Armouring	
☐	Temporary Diversion	
☐	Geotextiles (600R)	
☐	Liner Placement	
☐	Dam Embankment	
☐	Instrumentation	
☐	Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑	Cat 245 Excavator	☑ Cat D6D Dozer	☑	Screening Plant
☑	Cat 966 Loader	☐ Packer	2	6 Wheel Trucks
☑	Cat D9H Dozer	☐ Pump	0	Tandem Trucks
Service Truck				

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Loader, service truck, and laborer setting up screening plant.

Weather

Temperature Min
-4 Deg.C

Temperature Max
6 Deg.C

Cloud Conditions
Scattered Cloud

Precipitation
heavy Frost

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 7

Date: 17-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Stripping Borrow A with D9G dozer
☐ Site Road Work	
☑ Diversion / Spillway	Load, haul diversion permafrost to waste area.
☑ Zone 2 Armouring	Screening Zone 2 materials from creek borrow
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	0 Tandem Trucks
Service Truck		

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Loader, service truck, and labour setting up screening plant. Tested and running in PM.

Weather

Temperature Min
-4 Deg.C

Temperature Max
7 Deg.C

Cloud Conditions
Clear

Precipitation
heavy Frost

Norm Eenkooren
Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 8

Date: 21-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Stripping borrow A and north abutment with D6
☐ Site Road Work	
☑ Diversion / Spillway	Rip permafrost in diversion
☑ Zone 2 Armouring	Produce materials at creek borrow
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	0 Tandem Trucks
Service Truck		

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Work proceeded on weekend to screen Zone 2 (See attached sheets)

No trucks today while excavator digging diversion.

Weather

Temperature Min
-4 Deg.C

Temperature Max
8 Deg.C

Cloud Conditions
Scattered Cloud

Precipitation
heavy Frost

Norm Eenkooren
Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 9
Date: 22-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☐ Site Road Work	
☑ Diversion / Spillway	Excavate/Rip and haul waste to waste area
☐ Zone 2 Armouring	
☐ Zone 4 Armouring	
☑ Temporary Diversion	Off load culverts for crossing
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	0 Tandem Trucks
Service Truck	950 Loader	

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

- Culverts arrive for diversion crossing to dam.
- Diversion all permafrost. Frozen peat and topsoil hauled to waste area north of temporary diversion
- Instruments arrive on site

Weather

Temperature Min
-2 Deg.C

Temperature Max
8 Deg.C

Cloud Conditions
Cloudy

Precipitation
light Rain

Norm Eenkooren
Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 10
Date: 23-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☐ Site Road Work	
☑ Diversion / Spillway	Rip, excavate, load/haul diversion material
☐ Zone 2 Armouring	
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	0 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

John McKay on site today (start).
Set up soils lab
Diversion labour on grade control
Tough ripping on diversion

Weather

Temperature Min
-2 Deg.C

Temperature Max
10 Deg.C

Cloud Conditions
Scattered Cloud

Precipitation
light Frost

Norm Eenkooren
Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 11

Date: 24-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☐ Site Road Work	
☑ Diversion / Spillway	Rip, excavate, load/haul diversion material
☐ Zone 2 Armouring	
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☑ Site Cleanup	Pumping water from diversion melt

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☑ Proctor Density Test
- ☐ Troxler Density Test
- ☑ Moisture Content
- ☑ Grain Size attached

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☑ Pump	0 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

- Still fighting permafrost in excavation sand cut also frozen @ depth.
- Sand (quality) stockpiled d/s of dam on north abutment.
- Pumping water in diversion from melting permafrost.
- Reviewed zone 4 haul with Ted of Ketza

Weather

Temperature Min
-2 *Deg.C*

Temperature Max
9 *Deg.C*

Cloud Conditions
Scattered Cloud

Precipitation
light Frost

Norm Eenkooren

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 12
Date: 25-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☐ Site Road Work	
☑ Diversion / Spillway	Ripping, digging, load/haul waste and sand fill
☐ Zone 2 Armouring	
☐ Zone 4 Armouring	
☑ Temporary Diversion	Daylight diversion to temporary channel, ripping
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☑ Site Cleanup	Pumping water from diversion melt

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☑ Themister Readings
- ☑ Weir Readings
- ☑ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☑ Pump	0 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Schedule falling behind with large cut in diversion
Thermister readings attached

Weather

Temperature Min
-3 Deg.C

Temperature Max
8 Deg.C

Cloud Conditions
Cloudy

Precipitation
light Rain

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 13

Date: 26-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑	Stripping	Stripping Diversion at centerline
☐	Site Road Work	
☑	Diversion / Spillway	Ripping, Load/haul sand to stock pile
☐	Zone 2 Armouring	
☐	Zone 4 Armouring	
☑	Temporary Diversion	Daylighting diversion into temporary channel
☐	Geotextiles (600R)	
☐	Liner Placement	
☐	Dam Embankment	
☐	Instrumentation	
☐	Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☑ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☑ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	0 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Review Thermister extension procedure
Need to phone M&L to confirm.
Grain size curve attached.
Extremely cold and windy conditions

Weather

Temperature Min
-2 Deg.C

Temperature Max
5 Deg.C

Cloud Conditions
Cloudy

Precipitation
heavy Frost

Norm Eenkooren
Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 14
Date: 27-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑	Stripping	Borrow C (night shift)
☐	Site Road Work	
☑	Diversion / Spillway	Rip, excavate, load/haul to fill stockpile
☐	Zone 2 Armouring	
☐	Zone 4 Armouring	
☐	Temporary Diversion	
☐	Geotextiles (600R)	
☑	Liner Placement	
☐	Dam Embankment	Off-load 1st load of bentofix to stockpile area
☐	Instrumentation	
☐	Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☑ Grain Size

Equipment List

☑	Cat 245 Excavator	☑	Cat D6D Dozer	☐	Screening Plant
☑	Cat 966 Loader	☐	Packer	2	6 Wheel Trucks
☑	Cat D9H Dozer	☐	Pump	1	Tandem Trucks
Winch Truck					

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

1st load of GCL → truck ran in ditch @ 31 Km. Was pulled out. Design lifting gear for GCL built strong size. Improvised to unload truck. Truck unloaded and on return by 11:00 pm.

23 rolls GCL
5 rolls 600R.

Weather

Temperature Min
-2 Deg.C

Temperature Max
9 Deg.C

Cloud Conditions
Cloudy

Precipitation

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 15

Date: 28-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☐ Site Road Work	
☑ Diversion / Spillway	Rip,excavate, load/haul - diversion to stockpile
☐ Zone 2 Armouring	
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☑ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	0 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

- More of the same diversion excavation.
A lot of good material stockpiled on abutment for later construction.
- Bob reviewed changes for the Victoria Creek borrow with me
- D9 on night shift with swamper.

Weather

Temperature Min
-2 *Deg.C*

Temperature Max
8 *Deg.C*

Cloud Conditions
Cloudy

Precipitation

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 16

Date: 29-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Borrow B on night shift
☐ Site Road Work	
☑ Diversion / Spillway	Begin final survey/exc on diversion
☐ Zone 2 Armouring	
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☑ Site Cleanup/Misc.	Expedite misc. C125 supplies for temp diversion

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☑ Pump	0 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

- St.4 excavating main cut for diversion
- Phone Lamberton Surveyors for control data in A.M.
- D9 down for 2 Hrs in P.M.
- ~~Some excess~~ Night shift with D9 stripping behind B.

Weather

Temperature Min
-2 Deg.C

Temperature Max
12 Deg.C

Cloud Conditions
Scattered Cloud

Precipitation

Norm Eenkooren

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 17

Date: 30-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Borrow A, B and C on night shift.
☑ Site Road Work	ramp to diversion near dam cl
☑ Diversion / Spillway	Grade control survey/exc for zone 2
☑ Zone 2 Armouring	temporary diversion .1% grade from cl towards west
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☑ Site Cleanup/Misc.	Haul 3"+ from Victoria Cr. to bone yard in a.m.

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☑ Pump	3 Tandem Trucks
950 Loader		

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

- Main effort to survey grade for diversion and begin Zone 2 armour. Hauled rock in A.M. for Bob to bone yard. Zone 2 started in P.M. Two trucks broke down during shift. Chris will try to get 3 more.
- Tony Pollock of DIAND (water board) on site in P.M.

Weather

Temperature Min
-2 Deg.C

Temperature Max
15 Deg.C

Cloud Conditions
Scattered Cloud

Precipitation

Ken Eenkooren

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 18

Date: 31-May-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Borrow A and B on night shift
☐ Site Road Work	
☑ Diversion / Spillway	grade control survey/excavate for zone 2
☑ Zone 2 Armouring	placement in diversion channel
☐ Zone 4 Armouring	
☑ Temporary Diversion	Excavate near dam &
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup/Misc.	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☑ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	1 6 Wheel Trucks
☑ Cat D9H Dozer	☑ Pump	2 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

- Heavy rain in p.m.
- Only 2 trucks on zone 2 haul. Hired 3 additional from Carmacks, but didn't show up.
- ~~Geo~~

Weather

Temperature Min
-2 *Deg.C*

Temperature Max
15 *Deg.C*

Cloud Conditions
Overcast

Precipitation
heavy Rain

Norm Eenkooren

Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 19

Date: 01-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Night shift stripping borrows
☐ Site Road Work	
☑ Diversion / Spillway	Diversion excavation, shaping
☑ Zone 2 Armouring	placement in diversion
☐ Zone 4 Armouring	
☑ Temporary Diversion	Excavation at centerline of dam
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup/Misc.	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☑ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☑ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☐ Screening Plant
☑ Cat 966 Loader	☐ Packer	1 6 Wheel Trucks
☑ Cat D9H Dozer	☑ Pump	4 Tandem Trucks
950 loader		

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Ketza hauling 3"- (Zone 2) to Diversion ditch with D6, 245 and 4 tandem trucks. D9 down for most of day then put on n/s. Weir capacity exceeded due to last night and early morning rain.

Weather

Temperature Min
-1 Deg.C

Temperature Max
15 Deg.C

Cloud Conditions
Cloudy

Precipitation
heavy Rain

J L McKay
Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 20

Date: 02-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Pacific Construction Ltd.

Contractor's Rep: Chris Verrico

Construction Works

☑	Stripping	Stripping potential borrow along temp diversion
☐	Site Road Work	
☑	Diversion / Spillway	Side slope shaping
☑	Zone 2 Armouring	Placement in diversion channel
☐	Zone 4 Armouring	
☑	Temporary Diversion	Shaping up for C125 erosion mat.
☐	Geotextiles (600R)	
☐	Liner Placement	
☐	Dam Embankment	
☐	Instrumentation	
☐	Site Cleanup/Misc.	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☑ Grain Size

Equipment List

☑	Cat 245 Excavator	☑	Cat D6D Dozer	☑ Screening Plant
☑	Cat 966 Loader	☐	Packer	0 6 Wheel Trucks
☑	Cat D9H Dozer	☑	Pump	4 Tandem Trucks
950 loader				

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

Screening plant operating.
Hauling zone 2 to diversion from Victoria Creek.
D9 clearing area D/S of dam ℄.
245 Hoe shaping @ E end of temporary diversion d/s of dam and at west end of dam for gravel placement.

Weather

Temperature Min
-2 Deg.C

Temperature Max
15 Deg.C

Cloud Conditions
Scattered Cloud

Precipitation

J. McKay
Engineer

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 21

Date: 03-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Construction Inc.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☑ Site Road Work	Place culvert for diversion crossing
☑ Diversion / Spillway	Excavate at culvert location
☑ Zone 2 Armouring	Produce materials in stockpile
☐ Zone 4 Armouring	
☑ Temporary Diversion	Begin placement of c125 erosion mat
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☑ Site Cleanup/Misc.	Off load 2nd truck with GCL and 600R

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☑ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	1 6 Wheel Trucks
☑ Cat D9H Dozer	☑ Pump	2 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

See page 2

Weather

Temperature Min
-1 *Deg.C*

Temperature Max
10 *Deg.C*

Cloud Conditions
Scattered Cloud

Precipitation

Engineer

KLOHN CRIPPEN

DAILY FIELD REPORT

PROJECT NO.	PROJECT NAME	REPORT NO.
PM 5314 0802	Mt. Nansen Gold Project	DFR96 - 21
PROJECT LOCATION	**WORK SITE**	**KO FIELD REPRESENTATIVE**
Mt Nansen - Carmacks, Yukon	Mt. Nansen Tailings Dam	Norm Eenkooren

DID YOU OBSERVE ANYTHING UNEXPECTED OR UNEXPLAINED?

DAILY DIARY (ATTACH ADDITIONAL SHEETS AS REQUIRED)

Screening operation struggling for material.
Search for additional reserves in same pit failed.
Decision between Chris Bob, and ~~me~~ Ian, and myself to move screening plant to upper pit on North side and screen local material. Estimate requirement for additional 2000 cu m. since about 500 taken by mill requirements.
Night shift will provide final quantities with DB for present location of screen.

C125 mat placement started in a.m. Staples can either be pushed in by hand or cannot be pounded with sledge.

2nd load of GCC arrived @ 5:00 p.m. Crew worked late to offload.

Culvert placed in diversion @ ℄ 36" x ~12 m.

FIELD REPRESENTATIVE SIGNATURE	DAY OF WEEK AND DATE	PAGE 2 OF 2
Norm Eenkooren	Monday June 3, 96	

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 22

Date: 04-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Construction Inc.

Contractor's Rep: Chris Verrico

Construction Works

☑ *Stripping*	Borrow A (D6) and Borrow B (245,night)
☐ *Site Road Work*	
☐ *Diversion / Spillway*	
☑ *Zone 2 Armouring*	Diversion shaping of armour, screening
☐ *Zone 4 Armouring*	
☑ *Temporary Diversion*	Placement of C125 erosion mat
☐ *Geotextiles (600R)*	
☐ *Liner Placement*	
☐ *Dam Embankment*	
☐ *Instrumentation*	
☐ *Site Cleanup/Misc.*	

Inspections/Testing

- ☐ *Foundation Inspection*
- ☐ *Fill Inspection*
- ☐ *Piezometer Readings*
- ☐ *Themister Readings*
- ☑ *Weir Readings*
- ☐ *Proctor Density Test*
- ☐ *Troxler Density Test*
- ☐ *Moisture Content*
- ☐ *Grain Size*

Equipment List

☑ *Cat 245 Excavator*	☑ *Cat D6D Dozer*	☑ *Screening Plant*
☑ *Cat 966 Loader*	☐ *Packer*	0 *6 Wheel Trucks*
☑ *Cat D9H Dozer*	☑ *Pump*	2 *Tandem Trucks*

Borrow Sources

- ☐ *Borrow A*
- ☐ *Borrow B*
- ☐ *Borrow C*
- ☐ *Borrow D*

Comments

See page 2

Weather

Temperature Min
-2 *Deg.C*

Temperature Max
8 *Deg.C*

Cloud Conditions
Scattered Cloud

Precipitation
light Snow

Norm Eenkooren
Engineer

KLOHN CRIPPEN

DAILY FIELD REPORT

PROJECT NO.	PROJECT NAME	REPORT NO.
PM 5314 0802	Mt. Nansen Gold Project	DFR96 - 22
PROJECT LOCATION	**WORK SITE**	**KC FIELD REPRESENTATIVE**
Mt Nansen - Carmacks, Yukon	Mt. Nansen Tailings Dam	Norm Eenkooren

DID YOU OBSERVE ANYTHING UNEXPECTED OR UNEXPLAINED?

No Creek level dropping steadily after weekend rain.

DAILY DIARY (ATTACH ADDITIONAL SHEETS AS REQUIRED)

Screening zone 2 amount still scrounging material in same pit. Ripping frozen gravel in floor.

Placing C125 erosion mat in temporary diversion

D6 stripping thawed silt from Borrow B.

245 Excavator shaping zone 2 Armour in Diversion channel.

Night shift D9 ~~moved~~ on developing gravel source for screen plant.

Start 245 on nights to strip face of borrows not reachable with dozer (too steep)

John → Survey level control for diversion shaping.

FIELD REPRESENTATIVE SIGNATURE	DAY OF WEEK AND DATE	PAGE 2 OF 2
Norm Eenkooren.	Tuesday June 4, 96	

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 23

Date: 05-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Construction Inc.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Stripping borrows A & B
☐ Site Road Work	
☐ Diversion / Spillway	
☑ Zone 2 Armouring	Screening, shaping armour in diversion
☐ Zone 4 Armouring	
☑ Temporary Diversion	Place c125 erosion mat.
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup/Misc.	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	2 6 Wheel Trucks
☑ Cat D9H Dozer	☑ Pump	2 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

See page 2

Weather

Temperature Min
-1 *Deg.C*

Temperature Max
12 *Deg.C*

Cloud Conditions
Scattered Cloud

Precipitation

Norm Eenkooren

Engineer

KLOHN CRIPPEN

DAILY FIELD REPORT

PROJECT NO.	PROJECT NAME	REPORT NO.
PM 5314 0802	Mt. Nansen Gold Project	DFR96 - 23
PROJECT LOCATION	**WORK SITE**	**KC FIELD REPRESENTATIVE**
Mt Nansen - Carmacks, Yukon	Mt. Nansen Tailings Dam	Norm Eenkooren

DID YOU OBSERVE ANYTHING UNEXPECTED OR UNEXPLAINED?

DAILY DIARY (ATTACH ADDITIONAL SHEETS AS REQUIRED)

Screening Zone 2 D9 required to develop borrow. Ripping gravel at bottom of borrow.

245 Excavator shaping diversion at mouth.

2 laborers placing C125 erosion mat in temporary diversion.

Some organics hauled to topsoil pile from u/s end of diversion

Night shift 245 stripping stray face of Borrow B.
D9 Ripping gravel for screening.

John → survey all day with Ryan (geol GPS unit) to locate ~~sand~~ spillway. Limited success going from local grid to Nad 27.

FIELD REPRESENTATIVE SIGNATURE	DAY OF WEEK AND DATE	PAGE
Norm Eenkooren	Wednesday June 5, 96	2 OF 2

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 24

Date: 06-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Construction Inc.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☐ Site Road Work	
☑ Diversion / Spillway	Shaping near creek in diversion, survey spillway
☑ Zone 2 Armouring	Screening, shaping in diversion
☐ Zone 4 Armouring	
☑ Temporary Diversion	Stapling C125 erosion mat to channel
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☑ Site Cleanup/Misc.	Reclamation at creek borrow

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☐ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☑ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	1 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	1 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

See page 2.

Weather

Temperature Min
-1 *Deg.C*

Temperature Max
15 *Deg.C*

Cloud Conditions
Scattered Cloud

Precipitation

Engineer

KLOHN CRIPPEN

DAILY FIELD REPORT

PROJECT NO.	PROJECT NAME	REPORT NO.
PM 5314 0802	Mt. Nansen Gold Project	DFR96 - 24
PROJECT LOCATION	**WORK SITE**	**KC FIELD REPRESENTATIVE**
Mt Nansen - Carmacks, Yukon	Mt. Nansen Tailings Dam	Norm Eenkooren

DID YOU OBSERVE ANYTHING UNEXPECTED OR UNEXPLAINED?

No - The 3rd load of Geosynthetics from Terrafix arrived @ 7:00 p.m. so crew working late to unload plus some night shift diverted to this effort!

DAILY DIARY (ATTACH ADDITIONAL SHEETS AS REQUIRED)

Main effort to screening zone 2 and preparing diversion for water (will divert creek tomorrow)

Survey level control carried out by John & helper to give grades at upstream end of diversion

Labourer touching up staple work on CLS and cleanup packaging from CLS

Night shift - 245 Excavator stripping steep face of borrows.
- D9 developing borrow materials for screening zone 2.

John → Survey & Site Supervision
Norm → Supervision, paper work.

FIELD REPRESENTATIVE SIGNATURE	DAY OF WEEK AND DATE	PAGE 2 OF 2
Norm Eenkooren	Thursday June 6, 96	

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 25

Date: 07-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Construction Inc.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☑ Site Road Work	Connect Diversion berm road to borrow C
☑ Diversion / Spillway	Divert Dome Creek to diversion channel
☑ Zone 2 Armouring	Shaping in diversion, screening
☐ Zone 4 Armouring	
☐ Temporary Diversion	Observations after diverting creek
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup/Misc.	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☑ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☑ Cat 245 Excavator	☐ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	0 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	2 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

See page 2

Weather

Temperature Min
-1 Deg.C

Temperature Max
16 Deg.C

Cloud Conditions
Scattered Cloud

Precipitation

Norm Eenkooren

Engineer

KLOHN CRIPPEN

DAILY FIELD REPORT

PROJECT NO.	PROJECT NAME	REPORT NO.
PM 5314 0802	Mt. Nansen Gold Project	DFR96 - 25
PROJECT LOCATION	WORK SITE	KC FIELD REPRESENTATIVE
Mt Nansen - Carmacks, Yukon	Mt. Nansen Tailings Dam	Norm Eenkooren

DID YOU OBSERVE ANYTHING UNEXPECTED OR UNEXPLAINED?

No. Running half crew as remainder taking 4 day weekend. Fri - Mon. Also John off this weekend

DAILY DIARY (ATTACH ADDITIONAL SHEETS AS REQUIRED)

Primary effort to complete screening of zone 2 ~~a~~ tailings and divert Boorne Cr. to diversion channel.

Creek diverted @ 1:00 p.m. completed @ 3:00 pm. Additional work to tie diversion berm road to Bottom C. This was last shift for 245 as it will be taken down for major repair on circle drive this weekend.

This was last full day of screening. ~~Target~~

Target quantity is 3000 cu m. 2500 for d/s face of dam and 300 for spillway. Extra 200 because mill has been taking some periodically for concrete aggregate and for stockpile losses.

Naresh Prasad, P.Eng Chief Mine Engineering ~~visited site~~ YUKON WORKERS COMPENSATION HEALTH AND SAFETY BOARD visited site ~ 10:00 am to 2:00 p.m. Toured with Ian Patterson.

* Very difficult to shape diversion @ upstream end because of thawing. Will revisit once channel has been flowing for a while.

KC - Extended thermister 96-5 tested ok

FIELD REPRESENTATIVE SIGNATURE	DAY OF WEEK AND DATE	PAGE 2 OF 2
Norm Eenkooren	Friday June 7, 96	

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 26

Date: 08-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Construction Inc.

Contractor's Rep: Chris Verrico

Construction Works

☐ Stripping	
☐ Site Road Work	
☐ Diversion / Spillway	
☑ Zone 2 Armouring	Screening
☐ Zone 4 Armouring	
☑ Temporary Diversion	Monitoring
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☐ Site Cleanup/Misc.	Reclamation of zone 2 borrow pit.

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☑ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☐ Cat 245 Excavator	☐ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	0 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	0 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

See page 2

Weather

Temperature Min
0 *Deg.C*

Temperature Max
10 *Deg.C*

Cloud Conditions
Cloudy

Precipitation

Engineer

KLOHN CRIPPEN

DAILY FIELD REPORT

PROJECT NO.	PROJECT NAME	REPORT NO.
PM 5314 0802	Mt. Nansen Gold Project	DFR96 - 26
PROJECT LOCATION	**WORK SITE**	**KC FIELD REPRESENTATIVE**
Mt Nansen - Carmacks, Yukon	Mt. Nansen Tailings Dam	Norm Eenkooren

DID YOU OBSERVE ANYTHING UNEXPECTED OR UNEXPLAINED?

No - Completed screening zone 2 aimed at 11:30 A.M. and started breaking down screen plant.

DAILY DIARY (ATTACH ADDITIONAL SHEETS AS REQUIRED)

Main effort to complete screening today. Estimate 3000 - 3500 m³ in stockpile. Est require 2800 to complete spillway and dam facing.

Extended thermister D95-04

Reclamation of road at borrow.

FIELD REPRESENTATIVE SIGNATURE	DAY OF WEEK AND DATE	PAGE 2 OF 2
Norm Eenkooren	SATURDAY JUNE 8, 96	

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 27

Date: 09-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Construction Inc.

Contractor's Rep: Chris Verrico

Construction Works

☑ Stripping	Organics from spillway with D9H
☑ Site Road Work	Widen waste road along temp diversion
☐ Diversion / Spillway	
☑ Zone 2 Armouring	Dismantle screen plant
☐ Zone 4 Armouring	
☐ Temporary Diversion	
☐ Geotextiles (600R)	
☐ Liner Placement	
☐ Dam Embankment	
☐ Instrumentation	
☑ Site Cleanup/Misc.	Reclaim zone 2 borrow with D9H

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☑ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☐ Cat 245 Excavator	☑ Cat D6D Dozer	☑ Screening Plant
☑ Cat 966 Loader	☐ Packer	1 6 Wheel Trucks
☑ Cat D9H Dozer	☐ Pump	0 Tandem Trucks

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

See page 2

Weather

Temperature Min
-1 *Deg.C*

Temperature Max
12 *Deg.C*

Cloud Conditions
Cloudy

Precipitation

Norm Eenkooren

Engineer

KLOHN CRIPPEN DAILY FIELD REPORT

PROJECT NO.	PROJECT NAME	REPORT NO.
PM 5314 0802	Mt. Nansen Gold Project	DFR96 - 27
PROJECT LOCATION	**WORK SITE**	**KC FIELD REPRESENTATIVE**
Mt Nansen - Carmacks, Yukon	Mt. Nansen Tailings Dam	Norm Eenkooren

YES, Problems arose at temporary diversion. Some downcutting. Work require excavator which is not available today. Arranged for Kando excavator for tommorrow A.M.

DAILY DIARY (ATTACH ADDITIONAL SHEETS AS REQUIRED)

Complete dismantling of screen plant.

Prepared area along temporary diversion for excavator tommorrow. 245 still under repair will use Kando 225

Some time spent stripping the spillway with D9.

Extended thermister 95-10.

FIELD REPRESENTATIVE SIGNATURE	DAY OF WEEK AND DATE	PAGE 2 OF 2
Norm Eenkooren	Sunday June 9, 96	

Mt. Nansen Gold Project
Tailings Dam Construction
Daily Field Report

DFR96 - 28

Date: 10-Jun-96

Klohn-Crippen Consultants
Engineer: Norm Eenkooren
File: PM5314.504

Contractor: Ketza Construction Inc.

Contractor's Rep: Chris Verrico

Construction Works

☑	Stripping	Borrows B&C
☑	Site Road Work	Access connecting borrows
☐	Diversion / Spillway	
☐	Zone 2 Armouring	
☐	Zone 4 Armouring	
☑	Temporary Diversion	Repairs to lower section
☐	Geotextiles (600R)	
☐	Liner Placement	
☐	Dam Embankment	
☐	Instrumentation	
☐	Site Cleanup/Misc.	

Inspections/Testing

- ☐ Foundation Inspection
- ☐ Fill Inspection
- ☐ Piezometer Readings
- ☑ Themister Readings
- ☑ Weir Readings
- ☐ Proctor Density Test
- ☐ Troxler Density Test
- ☐ Moisture Content
- ☐ Grain Size

Equipment List

☐	Cat 245 Excavator	☑	Cat D6D Dozer	☐ Screening Plant
☑	Cat 966 Loader	☐	Packer	1 6 Wheel Trucks
☑	Cat D9H Dozer	☐	Pump	0 Tandem Trucks

Kando 225 Excavator

Borrow Sources

- ☐ Borrow A
- ☐ Borrow B
- ☐ Borrow C
- ☐ Borrow D

Comments

See page 2

Weather

Temperature Min
0 Deg.C

Temperature Max
12 Deg.C

Cloud Conditions
Cloudy

Precipitation
heavy Showers

Norm Eenkooren
Engineer

KLOHN CRIPPEN

DAILY FIELD REPORT

PROJECT NO.	PROJECT NAME	REPORT NO.
PM 5314 0802	Mt. Nansen Gold Project	DFR96 - 28
PROJECT LOCATION	**WORK SITE**	**KC FIELD REPRESENTATIVE**
Mt Nansen - Carmacks, Yukon	Mt. Nansen Tailings Dam	Norm Eenkooren

DID YOU OBSERVE ANYTHING UNEXPECTED OR UNEXPLAINED?

No. Began repairs to temporary diversion stream temporarily corrected. Repairs to one side within reach. Will complete when 245

DAILY DIARY (ATTACH ADDITIONAL SHEETS AS REQUIRED)

Main effort to repair temporary diversion.
Also dozers pushing up zone 1 fill in barrels 13 & C for thawing.

Extend thermisters D95-06 & D95-08B.

RAIN today most of the day.

Laborer making manual repairs to temporary spillway.

Pete Wheeler arrived in evening.

FIELD REPRESENTATIVE SIGNATURE	DAY OF WEEK AND DATE	PAGE 2 OF 2
Norm Eenkooren	Monday	

KLOHN-CRIPPEN

Daily Field Report Tuesday June 11, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Consultant and Contractor
Klohn-Crippen Representative: John G. McKay
Ketza Construction Inc.'s Representative: Chris Verrico

Construction Works
- **Stripping-** Area south of temporary diversion ditch by D9
- **Temporary Diversion Ditch-** David and Mike Tom repairing damaged section near east end.
- **Dam Foundation-** Start of stripping of organics (approximately 0.3 to 0.6 m) and immediate placement of approximately 1 m of SM-SP sand from stockpile east of dam centerline. 245 hoe stripping and placing fill transported by 2 rock trucks being loaded by 950 loader.

Quality Assurance
Observations of dam foundation and pad fill placement.

Instrumentation
Dome Creek weir at 9.9 l/sec (130 gallons per minute).

Contractor's Equipment List
See Daily Equipment Form on next page.

General
On night shift, mechanics repairing equipment and a portion of screening plant being hauled off site.

Pete Wheeler, Norm Eenkooren and John G. McKay of Klohn-Crippen on site.

Weather
Sunny, light wind to calm, +4°C low overnight to +15°C high.

John McKay

KLOHN-CRIPPEN

Daily Field Report Wednesday June 12, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Consultant and Contractor
Klohn-Crippen Representative: John G. McKay
Ketza Pacific Construction Inc.'s Representative: Chris Verrico

Construction Works
- **Stripping-** Area south of temporary diversion ditch by D9 (Ted Crabtree).
- **Temporary Diversion Ditch-** David and Mike Tom upgrading east end for six hours. Isolated rock truck load of weathered bedrock gravel hauled for hand placement over edges of coconut erosion mat.
- **Dam Foundation-** Continue with stripping of organics (approximately 0.3 to 0.6 m) and immediate placement of approximately 1 m of SM-SP sand from stockpile east of dam centerline. 245 hoe stripping and placing fill transported by 2 rock trucks being loaded by 950 loader. Much of this borrow is still frozen and frozen material is not to be used as dam fill. D6 spreading organics removed from dam to north side of temporary diversion ditch.

Quality Assurance
- Observations of dam foundation and pad fill placement.
- Approximately 3000 m^3 of 3" minus screened gravel and sand (GW and SP) estimated to be stockpiled at Victoria Creek

Instrumentation
Dome Creek weir at 4.3 l/sec (56 gallons per minute).

General
On night shift, mechanic (Sean McDougal) maintaining equipment. Remainder of screening plant hauled off site. 245 hoe damaged again (was repaired over last weekend) while at mill this evening, as before, hoe will continue working.

Pete Wheeler and Norm Eenkooren of Klohn-Crippen left site at 7:30 am.

Weather
Sunny, cool, clouding over by noon, light wind to calm, +2°C low overnight to +15°C high. Light occasional rain in afternoon and cooler to about +6°C.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Pacific Construction Inc.

J. G. McKay

KLOHN-CRIPPEN

Daily Field Report Thursday June 13, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** Area south of temporary diversion ditch by D9 (Ted Crabtree).
- **Temporary Diversion Ditch-** 2 hours labour for David and Mike Tom. Several loads of weathered bedrock gravel brought by 950 loader.
- **Dam Foundation-** Continue with stripping of organics (approximately 0.3 to 0.6 m) and immediate placement of approximately 1 m of SM-SP sand from stockpile east of dam centerline. 245 hoe stripping and placing fill transported by 2 rock trucks being loaded by 966 loader. D6 spreading organics removed from dam to north side of temporary diversion ditch. No packer or water being added to pad sand fill, some compaction by machine traffic. 245 hoe also stripped first portion of steep slope immediately north of Dome Creek at dam centerline.

Quality Assurance

Observations of dam foundation and pad fill placement.

Instrumentation

Dome Creek weir at 8 l/sec (108 gallons per minute).

General

D6 down in afternoon.

Weather

-2°C low overnight, partly cloudy, light off and on rain even sleet in pm. About +15°C high with temperature dropping to +10°C with about 10 kph west wind in late afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Pacific Construction Inc.

John McKay

KLOHN-CRIPPEN

Daily Field Report Friday June 14, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** Area south of temporary diversion ditch by D9 (Ted Crabtree).
- **Temporary Diversion Ditch-** 10 hours labour for Mike Tom.
- **Dam Foundation-** Continue with stripping of organics (approximately 0.3 to 0.6 m) and immediate placement of approximately 1 m of SM-SP sand from stockpile east of dam centerline. 245 hoe stripping and placing fill transported by 2 rock trucks being loaded by 966 loader (no operator except truck drivers). D6 spreading organics removed from dam to north side of temporary diversion ditch. No packer or water being added to pad sand fill, some compaction by machine traffic. 245 hoe also stripped steep slope immediately north of Dome Creek. D9 also stripped some of this steep slope and leveled out the dam foundation pad.

Quality Assurance

- Observations of dam foundation and pad fill placement.
- Took Sample 7 (SP sand) from dam pad at centerline at elevation 1133.5 m. Lab tests to include grain size.

Instrumentation

Dome Creek weir at 5 l/sec (65 gallons per minute).

General

Two Indian and Northern Affairs Canada Inspectors visited site at 17:00. They were Mr. Hugh Copeland and Mr. Kevin MacDonnell.

Weather

-5°C record low overnight, cloudy and calm in morning, about +18°C high, sunny and calm in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Pacific Construction Inc.

John McKay

KLOHN-CRIPPEN

Daily Field Report Saturday June 15, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** Area south of temporary diversion ditch and working Borrow B (for thaw) by D9 (Ted Crabtree).
- **Temporary Diversion Ditch-** Manual labour touching up coconut mat.
- **Dam Foundation-** Continue with stripping of organics (approximately 0.3 to 0.6 m) and immediate placement of SM-SP sand from stockpile east of dam centerline. 245 hoe stripping and placing fill transported by 2 rock trucks being loaded by 966 loader D6 spreading organics removed from dam to north side of temporary diversion ditch. **No packer or water being added to pad sand fill.**

Quality Assurance

- Observations of dam foundation and pad fill placement.
- Perform grain size on Sample 7 (SP sand) from dam pad at centerline at elevation 1133.5 m.

Instrumentation

Dome Creek weir at 2 l/sec (32 gallons per minute).

General

- 13:00 After discussions with John McKay regarding the lack of compaction, Mr. Ian Patterson of BYG strongly told Mr. Verrico that compaction specifications must be followed. Then a memo was issued to Mr. Chris Verrico by John McKay.
- 245 hoe broke down in morning, parts (hydraulic hoses) required from Whitehorse.

Weather

-2°C low overnight (ice on creek Friday night), +18°C high, clouding over in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Pacific Construction Inc.

J. L. McKay

KLOHN-CRIPPEN

Daily Field Report Sunday June 16, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** Working Borrow A (for thaw) by D9 (Ted Crabtree). Strip road between Borrow A and dam. After hoe down, two rock trucks were hauling organics from south to north side of diversion ditch.
- **Diversion Ditch-** Dome Creek diverted back to original channel to supply water for dam fill.
- **Dam Foundation-** Continue with stripping of organics (approximately 0.3 to 0.6 m) and immediate placement of SM-SP sand from stockpile east of dam centerline. 245 hoe stripping and placing fill transported by 2 rock trucks being loaded by 966 loader D6 spreading organics removed from dam to north side of temporary diversion ditch. No packer, but limited water being added to pad sand fill from 13:00. Hoe down down 13:30. 15:00 sand fill no longer being hauled to dam pad. Berm made at upstream end of dam footprint to store water (creek diverted back to original channel from diversion ditch) for conditioning fill. Later this evening, this berm failed and water saturated southwest edge of pad at base of slope.

Quality Assurance

- Observations of dam foundation and pad fill placement.
- Thermistor readings.

Instrumentation

Dome Creek weir at 4 l/sec (50 gallons per minute).

General

- Bud McAlpine (Indian and Northern Affairs Canada) and Milos Stepanek (Geo-engineering) made site visit, particularly concerned with thawing of foundation.
- 245 hoe broke down again.

Weather

+4°C low last night, +22°C high, clouding over in afternoon, short rain in late afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

JGM

KLOHN-CRIPPEN

Daily Field Report Monday June 17, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** Working Borrow B (for thaw) by D9 (Fred Blanchard). Two rock trucks hauling stockpiled organics from south to north side of diversion ditch. 966 loader loading rock trucks.
- **Diversion Ditch-** Dome Creek remains diverted back to original channel to supply water for dam fill.
- **Dam Foundation-** After clean up of overtopped berm area, new small berm was made. In the morning, the D6 worked the top part of the pad area. Water was sprayed over the pad and the Ingersoll Rand SP54 smooth drum vibratory packer began making passes. The original ramp/road into the pad from the north is well packed but dry. After all day of adding water and packing, pad is meeting specifications. Generally, 97% of SPMDD and -3% of optimum moisture content.

Quality Assurance

- Observations of dam foundation and pad fill placement.

Instrumentation

Dome Creek weir at 4 l/sec (50 gallons per minute).

General

- I have been told that Ketza has 3 additional pumps on the way and an irrigation system.
- 245 hoe remains down all day.
- Culvert put in to regulate water flows from diversion ditch to original channel at dam.
- Ted Crabtree doing good job directing fill conditioning of pad.

Weather

+5°C low last night, +17°C high, thundershower from 11:15 to about 14:00.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

JGM

KLOHN-CRIPPEN

Daily Field Report Tuesday June 18, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** Working Borrows A, B and C and Emergency Spillway area (for thaw) by D9 (Fred Blanchard). Two rock trucks hauling stockpiled organics from south to north side of diversion ditch. 966 loader loading rock trucks.
- **Diversion Ditch-** Dome Creek is part time diverted back to original channel to supply water for dam fill. A culvert with styrofoam plug has been built in near start of diversion ditch. Some angular gravel derived from weathered bedrock is hauled to temporary area and hand placed to reinforce coconut mat.
- **Dam Foundation-** Hoe, 2 rock trucks, D6, packer (flat tire from 13:30), are stripping and placing sand fill. Water sprayed onto fill from small sand dam just upstream of pad.

Quality Assurance

- Observations of dam foundation and pad fill placement.
- Assist surveyor, checking existing layout.

Instrumentation

Dome Creek weir at 2 l/sec (32 gallons per minute).

General

Fire visible just south east of site.

Weather

+2°C low last night, +22°C high, very light isolated thundershower in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Friday June 21, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** D9H Dozer continuing stripping and working borrow east of dam centerline. In morning 245 Hoe removed blacks from just south of north abutment near dam centerline. These blacks were hauled away by the rock trucks to north of the temporary diversion ditch.
- **Temporary Diversion Ditch-** Ian Patterson (BYG) noticed area to be repaired where water has turned away from the ditch into the side.
- **Dam Foundation-** Area watered and packed all morning (and yesterday after six), then tested. Result: good density but still only barely passing on the moisture criteria at -3% of optimum (likely a combination of not enough water and drainage between application and testing). Filling continued with good thin lifts and two four inch pumps pushing water. Density test in afternoon indicated 100% of SPDD at optimum moisture content. Sand is being hauled from the emergency spillway area and enddumped, then spread by the D6, watered and packed. Pad lifts are placed in four quadrants, one at a time.

Quality Assurance

- Observations and nuclear density testing of dam foundation and pad fill placement.

Instrumentation

Dome Creek weir at 4 l/sec.

General

Ketza has given some workers a four day weekend. In morning 245 hoe and D6 down for 1 hour. Fill of dam pad area is going extremely well. Milos Stepanek (Geo-engineering) and Bud McAlpine (Indian and Northern Affairs Canada) toured site for about two hours and also felt things were going very well. Milos noted however that the thermistor readings appeared colder than 'normal'. After weekend we must work on the south side pad fill area where water is presently diverted around the pad. This area must be compacted and tied into the pad. Excess water may have to be pumped around the dam area.

Weather

+5°C low last night, +23°C high, sunny and calm in morning and light clouds and calm in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax) ✓

JGM

KLOHN-CRIPPEN

Daily Field Report Saturday June 22, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** D9H Dozer continuing working reservoir Borrows A, B and C. Later D9 pushing blacks and working borrow east of dam centerline.
- **Temporary Diversion Ditch-** no activity
- **Dam Foundation-** Continued filling of SM-SP and SP sand. Going well. East end is being brought up to level off pad more. From 16:30, end dumping sand to reinforce water berm on south side.

Dome Creek Flow

Dome Creek weir at 2 l/sec

General

Ketza to take June 23, and 24 off.

Weather

+8°C low last night, +24°C high, cloudy, calm and cool in morning and light clouds, calm and almost hot in afternoon. Very light and short rain in early afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

John McKy

KLOHN-CRIPPEN

Daily Field Report Tuesday June 25, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** D9H Dozer continuing working borrow east of dam centerline.
- **Temporary Diversion Ditch-** no activity.
- **Dam Foundation-** Continued filling of SM-SP and SP sand. East end is being brought up to level off pad more. Six truckloads of bedrock derived angular gravel (shale) has been added across the downstream toe to provide a 0.4 m cap over about 3 m thick (vertical) of placed sand fill. In evening, temporary water reservoir berm (for fill moisture conditioning) is moved further upstream out of dam footprint.

Dome Creek Flow

Dome Creek weir at 4 l/sec.

General

There are some inconsistencies with the survey data. I (JGM) have recommended that BYG return their surveyor to the site to clarify this information quickly.

Weather

+8°C low last night, +22°C high, light clouds, sunny, light breeze.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

JGM

KLOHN-CRIPPEN

Daily Field Report Thursday June 27, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Stripping-** D9H Dozer continuing working borrow east of dam centerline. D6 stripped for haul road above dam on south abutment.
- **Dam Foundation-** Continued filling of SM-SP and SP sand. East end is being brought up to level off pad more. Hoe is stripping and placing sand cover up south abutment and near north abutment on upstream edge.
- Culvert replaced on road to Borrow C at Dome Creek.
- Third Rock Truck (2) has arrived at noon, however Rock Truck 5 is down for repairs immediately.

Dome Creek Flow

Dome Creek weir at 2 l/sec.

General

- Midnight Sun can mobilize their CME auger rig for July 8. Dam fill can go on volume rate as soon as survey of pad is complete. We will have to drill in the instrumentation on July 8, and likely will plan Ketza to be on days off at that time.
- Logan Hind (Surveyor) on site again.

Weather

+5°C low last night, +14°C high, light breeze, smokey.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

JGM

KLOHN-CRIPPEN

Daily Field Report Friday June 28, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Stripping-** D9H Dozer continuing working borrow east of dam centerline
- **Dam Foundation-** Continued filling of SM-SP and SP sand. Hoe is stripping north abutment near dam centerline, D9 also ripped this area.

Dome Creek Flow

Dome Creek weir at 2 l/sec. (Being used for dam fill moisture conditioning as needed.)

General

- Ketza getting ready to go to volume rate for dam fill on July 1 as previously planned.
- Surveying continuing.

Weather

+4°C low last night, +15°C high, light breeze, smokey, cloudy.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Saturday June 29, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Stripping-** D9H Dozer continuing working borrow east of dam centerline
- **Dam Foundation-** Thermistor's installed in DH95-09, 95-06 and 95-8B were extended to downstream slope of dam. A seven point horizontal thermistor was installed from upstream to downstream approximately along old creek bed. The new horizontal thermistor was shot in by surveyor. Approximately every 15 m a plug of bentonite powder was placed around thermistor wires. After trenches were carefully backfilled, pad fill continued with SM-SP and SP sand.
- **Borrow A,B,C-** Hoe and labourer installed two 300 mm diameter sets of culverts between Borrows A and B and between B and C.

Dome Creek Flow

Dome Creek weir at 1 l/sec

General

- Ketza getting ready for volume rate on July 1 as previously planned.
- Surveying continuing.
- 245D hoe is down from 16:00 with major engine problem.

Weather

-2°C low last night (ice observed), +14°C high, light breeze, smokey, cloudy, almost dark in middle of day.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Sunday June 30, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Stripping-** D9H Dozer continuing working borrow east of dam centerline.
- **Dam Foundation-** Dog dumping pad area with sand from Borrow C until later in afternoon, then spread out and watered and packed. Packer and water were running over previous lift earlier.
- **Seepage Control Dam-** D6 (TC) stripped area around seepage control dam. Sand pad placed after 18:00.

Dome Creek Flow

Dome Creek weir at 1 l/sec.

General

- Ketza getting ready for volume rate on July 1.
- Surveying continuing, dam centerline is good.
- 245D hoe is down all day, Chris Verrico went to Whitehorse for parts.

Weather

3°C low last night, light rain in morning, +15°C high, cloudy, cool, smoke abated. Generally cool day.

Distribution

Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Monday July 1, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Dam Foundation-** Dog dumping pad area with sand from Borrow C until later in afternoon, then sand was bladed with the D6, watered and packed.
- **Seepage Control Dam (Dam 2)-** D6 (TC) stripped area around seepage control dam. Sand pad placed after 18:00.
- **West-East Road from Borrow C to Dam 1-** about 300 mm of angular gravel (shale) added to road to prevent punching of rock trucks.

Dome Creek Flow

Dome Creek weir at 9 l/sec.

General

- 245D hoe is down all day.
- Some of Ketza crew took Canada Day off.
- New Mine Superintendent Mr. Vince Hunter on site to replace Mr. Ian Patterson.

Weather

3°C low last night, light rain in morning, +10°C high, rain in afternoon and heavily on Monday night.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Tuesday July 2, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Cofferdam (temporary water storage US Dam 1)-** Nearly overtopped, then reinforced with additional sand and two pumps total moving water around dam pad.
- **Dam 1 Foundation-** Uncompacted lift on north half of pad undamaged. South side compacted lift was significantly damaged from water runoff particularly towards downstream end. D9H Dozer working Borrow C to feed 966 loader for cofferdam and Dam 1 fill. Rain and runoff continued throughout day creating difficulties.

Dome Creek Flow

Dome Creek weir at 24 l/sec, a large increase due to recent heavy rains.

General

- 245D hoe is down.

Weather

3°C low last night, 10°C high, cold wet day with light rain most of morning and heavier rain at about 16:00.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Wednesday July 3, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Cofferdam (temporary water storage US Dam 1)-** Ditches dug by D6 to drain US of south abutment on slope and north side flat also. A culvert was installed near cofferdam on access road from Borrow A.
- **Access Road from Borrow C-** After less than two days of traffic this road is in poor condition.
- **Dam 1 Foundation-** Still repair of eroded sand by D6 along the south edge of pad. Ketza counted 31 loads of sand to repair washout. Dog dumping of sand from DS to US along more than the northern half of the pad (105 loads).
- **Dam 2 Foundation-** No work, waiting for hoe to be fixed.

Dome Creek Flow

Dome Creek weir at 46 l/sec.

General

- 245D hoe is down.

•DH95-09 Thermistor Readings		Resistances from Multimeter	
1	-0.3 °C	7.42	T1 (20K ohm scale)
2	-0.6 °C	7.53	T2
3	-0.6 °C	7.54	T3
4	-0.7 °C	7.58	T4
5	-0.9 °C	7.58	T5
6	-0.8 °C	7.61	T6
7	1.9 °C	6.64	T7

Laboratory Testing

Grain size on Sample 8 from Borrow C to Dam Pad on June 29, SP, 12% gravel, 85% sand, 3% silt and clay; natural moisture content 7%. The sand fill has been very consistent as SP or SP-SM, Sand, trace silt, trace gravel, moist.

Weather

-3°C low last night, 10°C high, some rain last night, cloudy during day and clearing in evening.

Distribution

Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Thursday July 4, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Dam 1 Foundation-** D9 leveled yesterday's dog dumps (across 80% of north side of pad), IR packer worked lift to specifications, dog dumping continued from south 20% then over remainder of pad. SP fill (all day from Borrow A), approximately at least 8% moisture content with a bit of surficial drying later in the day when the sun came out. No watering overnight.
- **Survey-** Ketza requested survey for Dam 2 and for upstream toe stakes (which were lost in emergency of upstream cofferdam near overtopping several days earlier).
- **Dam 2 Foundation-** No work, waiting for hoe to be fixed.
- **Access Road From Borrow A-** Rock truck stuck when road punched out at culvert immediately across from cofferdam causing loss of 0.5 hours of fill hauling.

Dome Creek Flow

Dome Creek weir at 27 l/sec.

General

- 245D hoe is down.

Weather

+3°C low last night, 15°C high, calm, clear sunny in morning ,clouding over with light rain just after lunch, then sunny, calm and warm with light cloud in late afternoon. Very light rain in evening.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Friday July 5, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Dam 1 Foundation-** In morning, D9 leveled out truck dumps from yesterday. Then both IR packers worked lift. Some moisture conditioning, although fill was close on moisture specification to start. Late in afternoon some stripping and padding of south abutment.
- **Dam 2 Foundation-** Most of today's effort was focused here with hoe excavating blacks and placing sand fill from east of dam centerline.
- **Stripping-** D9 continuing stripping Borrow B area. D6 cut runoff collection ditch along south abutment above DS edge of dam on steep moss covered slope.
- **Borrow A Access Road-** road presently unusable due to punchout at culvert near cofferdam.

Dome Creek Flow

Dome Creek weir at 19 l/sec.

General

- BYG has directed that stockpiled sand from diversion ditch located immediately downstream of north abutment not be used for dam fill.
- Speed of work is limited by number of rock trucks and haul distance.

Weather

+3°C low last night, 16°C high, sunny in morning, clouding over in afternoon with isolated thundershower.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Saturday July 6, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Dam 1 Foundation-** Stripping and placing of sand on south abutment. D6 and D9 pushing blacks to hoe to rock trucks. Sand borrow from far east of centerline. This stripping has become a priority because it is important to control water runoff to the dam.
- **Dam 2 Foundation-** No work today.
- **Stripping-** D9 continuing stripping both south abutment and Borrow A. Some repair on access road from Borrow A.

Dome Creek Flow

Dome Creek weir at 8 l/sec.

General

- No rain last night but still cofferdam was near to overflowing in morning. Some water damage from US to DS end of dam.
- Logan Hind (Surveyor) on site from noon.
- Hoe down in morning.

Weather

+4°C low last night, 18°C high, calm and sunny in morning, clouding over in afternoon with isolated thundershower.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Sunday July 7, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Dam 1 Foundation-** Stripping and placing of sand on south abutment. Sand borrow from stockpile at north abutment (from 11:00 only). Significant water erosion along dam near south side due to mishap with pump.
- **Dam 2 Foundation-** No work today. Some erosion damage.

Dome Creek Flow

Dome Creek weir at 11 l/sec.

General

- Logan Hind (Surveyor) on site from noon with new partner, Margaret Jones.

Weather

+5°C low last night, 18°C high, calm and sunny in morning, clouding over in afternoon.

Distribution

Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Monday July 8, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Dam 1 Foundation-** Stripping and placing of sand on south abutment. Sand borrow from stockpile at north abutment (from 10:00 only) after approval by Mr. Hinkkuri, earlier borrow from far northeast of site.

Dome Creek Flow

Dome Creek weir at 7 l/sec.

General

- Two trucks hauling sand, but one rock truck repeatedly broke down from at least 11:00, hurting efficiency of entire operation including hoe, D6 and so on. Near lunchtime, hoe fixed road at east side of Borrow B because of only one truck running.

Weather

+5°C low last night with light rain, 18°C high, sunny with some clouds in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Tuesday July 9, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Dam 1 Foundation-** Volume work with SP and SP-SM sand being dog dumped from Borrows A and B. Sand piles left overnight.
- Fill description of sand from far east borrow (observed in random sampling of dog dump on pad)

  SAND, trace (<8%) silt, trace gravel (>5%), moist (9%), brown.

Dome Creek Flow

Dome Creek weir at 10 l/sec.

General

- Meeting with Bob Hinkkuri, Vince Hunter, Chris Verrico, Ted Crabtree and John McKay. Regarding Ketza efficiency with only two or less rock trucks working. Hoe can keep over three rock trucks running.
- Mr. Tony Polyck and Wayne ? of Indian and Northern Affairs Canada, Water Resources Division, were toured around site by Vince Hunter and John McKay. They took water samples.

Weather

+6°C low last night, clear, calm with light clouds in morning, 18°C high, cloudy and cooling off in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Wednesday July 10, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

Dam 1 Foundation- One dog dump of sand hauled yesterday rejected due to presence of organics. All volumes with sand haul from Borrow B. Hoe loaded trucks in morning, then loader. Earlier loader was tied up working for mine. Rock truck went down about 10:30 and although back up at 13:00 was less productive than Truck 5. IR100 packer working base and some of slope along south abutment, D9 spreading dog dumps, heavy rain last night and occasional rain during day moisture conditioned fill to about -3% of optimum. Good density on fill and lift thicknesses remain thin and in specification. Upstream side of base being filled more to speed up start of liner installation.

Dome Creek Flow

Dome Creek weir at 13 l/sec.

General

- Some debate whether stripping the base face of the slopes around Borrows A, B and C is chargeable.
- Pipeline road rough cut above diversion ditch north of dam north abutment dead ends at access road to dam. All runoff collected here has damaged steep and high slope of diversion ditch. This should be remediated soon as the erosion will continue.

Weather

+5°C low and heavy rain Tuesday night, light rain, cloudy and foggy in morning, midday 12°C, then clearing up in late afternoon with high of about 15°C.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Friday July 12, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

Dam 1 Foundation- Volume haul for entire day, dog dumping SP or SP-SM sand from Borrow B. Piles placed across north half of pad from downstream to upstream. South side hand watered and packed with IR100. Loader filling two rock trucks. D9 pushing sand. At end of day, piles remained across pad.

Dome Creek Flow

Dome Creek weir at 7 l/sec.

General

- Welder and mechanic to work on equipment particularly the hoe.
- Chris Verrico on-site.
- Chris called for site meeting with Vince Hunter-BYG, JGM-KC. He is unhappy with approved hours.
- At approximately 12 midnight on Friday, as Mr. Crabtree was about to level the sand piles at Dam 1, the D9 was shut down with apparently serious engine trouble. With the D6 being repaired off-site, work can not continue until another dozer is available.

Weather

+6°C low, clear, sunny in morning; 23°C high, light clouds, calm in afternoon, by late afternoon, clouding over, but only a short drizzle of rain.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Saturday July 13, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

Dam 1 Foundation- Due to D9 breakdown, piles remained across base of dam all morning. In the afternoon, the 966 loader was used to level some of the piles. Rainboy sprinkling underway in afternoon.

Dome Creek Flow

Dome Creek weir at 8 l/sec.

General

- Welder and two mechanics on site to work on equipment in addition to regular staff.
- D9 down with engine problems, D6 off-site being fixed.
- Only leveling of sand piles being carried out at tailings facility.
- Mr. Ted Crabtree and Mr. Chris Verrico off-site today. Mr. Paul Smarch site foreman.

Weather

+4°C low, light clouds, sunny in morning; 15°C high, cloudy, occasional showers in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Sunday July 14, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Dam 1 Foundation- Some leveling of sand piles in morning. Heavy rain all night. From about 11:00 am, much work was carried out to avoid washout. Upstream berm was reinforced with additional sand and 4" volume pump brought to site with 4" hose. Crew worked into evening to contról this runoff.

Dome Creek Flow- weir at 39 l/sec.

Nodwell Drilling- Solid stem auger at downstream pad, hole caving, abandon. Start hole on south abutment. Some equipment problems.

General

- D9 down with engine problems, D6 off-site being fixed.
- Mr. Ted Crabtree and Mr. Chris Verrico return to site in late afternoon.

Weather

Heavy rain over Saturday night and Sunday morning, +6°C low, 12°C high, stiff breeze, cloudy, occasional shower in evening.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Monday July 15, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Dam 1 Foundation- Dewatering only.

Dome Creek Flow- weir overflowing estimated 1000 l/sec.

Nodwell Drilling- Solid stem auger second hole on south abutment, lose 5 feet of auger down hole, retrieve, abandon hole. Some equipment problems. Drilling terminated.

General

- D9 down with engine problems, D6 off-site being fixed.

Weather

Off and on rain in morning, more steady in afternoon and increasing in evening. Estimated +2°C low, 9°C high, snow observed on mountains.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Tuesday July 16, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Dam 1 Foundation- Dewatering only..

Borrow Access Roads- Hoe sculpting upstream of dam on south side near borrow A for runoff control and haul road. Several steel pipe casings installed to direct runoff beneath access roads.

Temporary Diversion Ditch- In poor condition.

Dome Creek Flow- Weir still overflowing estimated 1000 l/sec.

General

- D9 down with engine problems, D6 off-site being fixed.

Weather

Rain stopped overnight, isolated showers in afternoon, slightly warmer, but cloudy. Estimated +4°C low, 14°C high.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Wednesday July 17, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Dam 1 Foundation- Dewatering only, remaining sand piles leveled by 966 loader in morning.

Borrow Access Roads- Hoe, 966, one Moxy and IR100 Packer working access road from upstream borrows (particularly A and B) to midslope upstream side of south abutment. After 6 pm a dewatering hose protected by pipe was buried beneath the road near the south abutment.

Dome Creek Flow- Weir 66 l/sec.

General

- D9 being fixed on site, D6 being fixed off-site.
- 245 hoe down in morning for maintenance.

Weather

Cool, cloudy, estimated +5°C low, 14°C high.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Thursday July 18, 1996
Mt. Nansen Gold Tailings Dam Construction - PM5314.300(B)

Dam 1 Foundation- Volume haul from 11:00 am.

Borrow Access Roads- 'Ring' road completed; this road extends from north side of dam parallel to diversion ditch and passes Borrows A, B and C and crosses south abutment at midheight. This road has 'shale' (angular gravel derived from weathered bedrock) placed over softer areas including west side of approach to south abutment.

Dome Creek Flow- Weir 41 l/sec.

General

- D9 being fixed on site, D6 being fixed off-site.
- Secondary berm of emergency cofferdam leveled.

Weather

Cloudy calm in morning, estimated +6°C low, cloudy, some rain in afternoon including short hail shower, 15°C high.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Friday July 19, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Dam 1 Foundation- Volume haul all day. Two rock trucks hauling sand loaded by 245 hoe at Borrow C.

Dome Creek Flow- Weir 44 l/sec.

General

- D9 running by 16:00, D6 being fixed off-site.
- Two mechanics (Tim and Dennie) working on D9 and one Moxie.
- Most of Carmacks personnel took bereavement leave today.

Weather

Sunny, calm in morning, estimated +6°C low, clouding over in afternoon, 22°C high.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Saturday July 20, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Dam 1- For morning and first part of afternoon hoe and pumps cleaned up old 'pond' area just in front of 2.5:1 upstream toe area. First cofferdam remains and this berm was extended further north. Some volume haul from Borrow C. This sand has some silt, SM.

Temporary Diversion Ditch- As directed by Mr. McAlpine, repairs began with hoe, 2 rock trucks and loader.

Borrows- The D9 pushed sand at Borrows A and B.

Dome Creek Flow- Weir 33 l/sec.

General

- D6 being fixed off-site.
- Most of Carmacks personnel took bereavement leave again today.
- Mr. Milos Stepanek, Geo-Engineering and Mr. Bud McAlpine, IANAC, on site in afternoon. They requested a repair to the temporary diversion ditch. Equipment immediately began to carry out this action.

Weather

Low clouds and calm in morning, estimated +6°C low, 22°C high, light clouds and light breeze in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Sunday July 21, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Dam 1- In morning, volume haul to dam with loader and 2 rock trucks. Previous lift was repacked and watered before next lift of sand (SP, SP-SM) dog dumped.

Temporary Diversion Ditch- As directed by Mr. McAlpine: hoe prepping western half in morning. In afternoon, shale gravel hauled from ½ way up the access road to TDD. Equipment includes hoe, 966 loader, 2 rock trucks and D9 (ripping).

Borrows- The D9 pushed sand at Borrow B.

Dome Creek Flow- Weir 19 l/sec.

Drilling Instrumentation- Midnight Sun on site drilling first hole 30 m downstream of dam centerline. Driller: Mr. Warren Beaupre, Helper: Mr. Trevor Pilsworth, Drill: CME auger rig mounted on 240 Nodwell. Some difficulty, first hole not completed.

Equipment- D6 being fixed off-site. Rock truck 5 still down.

Weather- Cloudy and calm in morning, +6°C low, 15°C high, cloudy with frequent light showers in afternoon until 16:00- then clearing, sunny and warm to about 22 °C.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Monday July 22, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Dam 1- Approximately ½ day volume haul with borrows from upstream areas.

Temporary Diversion Ditch- Approximately ½ day spent on placing gravel. Channel length repaired totals 175 m from east of access road.

Dome Creek Flow- Weir 15 l/sec.

Drilling Instrumentation- (Midnight Sun) Abandon first hole located 30 m downstream of dam centerline and omit two holes along dam at the centerline and 30 m upstream of centerline. Drill holes on south abutment and north abutment and install pneumatic piezometers and one thermistor string. Of note, silt till encountered at approximately 4 m below native soil and apparently, approximately 300 mm of placed sand fill is frozen.

Equipment- D6 being fixed off-site. Rock truck 5 still down.

Weather- +4°C low, 13°C high, cloudy, cold and light rain in morning. Rain in afternoon and cool.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Tuesday July 23, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul of SP and SP-SM sand from upstream borrow areas until approximately 14:00 when 966 loader ruptured a hose. 245 hoe was at mill on loan to Orocon. Hoe returned to load trucks at approximately 16:00. Equipment used besides 245 hoe and 966 loader includes two rock trucks, IR100 packer, IR SP54 packer and D9 dozer.

Temporary Diversion Ditch- Additional repairs requested by IANAC including gravel placement downstream of previous repairs and a silt fence.

Indian and Northern Affairs Canada- Site visit by Mr. Kevin Rumsey, Water Management Officer and Mr. Dave Sherstone, Regional Manager to observe repairs to temporary diversion requested by Mr. Bud McAlpine, on July 20. Besides above-noted temporary diversion ditch repairs, control of suspended solids was requested for water pumped around dam.

Dome Creek Flow- Weir at 23 l/sec.

Drilling Instrumentation- Midnight Sun crew left site in ½ ton in early morning, flatbed tractor trailer on site at approximately noon but had to wait to 16:00 to be loaded by hoe to remove drill rig and remaining equipment.

Equipment- D6 being fixed off-site. Rock truck 5 still down. 966 loader down from 14:00. 245 hoe on loan at mill to Orocon from morning to 16:00.

Weather- +4°C low, 18°C high, cloudy, cold in morning. Clearing and warmer in afternoon. Rain over July 22/23 (Monday) night.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Wednesday July 24, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul of SP and SP-SM sand from upstream borrow areas. Equipment used: 245 hoe, 966 loader, two rock trucks, IR100 packer, IR SP54 packer and D9 dozer.

Temporary Diversion Ditch- No activity.

Dome Creek Flow- Weir at 15 l/sec.

Equipment- D6 being fixed off-site. Rock truck 5 still down. 966 loader fixed and running. 245 hoe down for 1 hour in afternoon. D9 dozer down for 1.5 hours. Large 6" volume pump brought in by Guaranteed Rentals. Guaranteed Rental mechanic on site working on rock trucks.

Weather- +6°C low, calm, light clouds in morning. Sunny with light clouds and high 23°C in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Thursday July 25, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul of wet SP and SP-SM sand from upstream borrow areas. The natural moisture condition is near optimum; the sand is taken from the toe areas which are wet due to last weeks rain seeping from higher and recently thawed permafrost. Fill placed towards upstream side to speed first lift of liner (elevation 1141 m). Equipment used: 245 hoe, 966 loader, **three** rock trucks (to 13:30 then two), IR100 packer and D9 dozer.

Temporary Diversion Ditch- No activity.

Dome Creek Flow- Weir at 9 l/sec.

Equipment- D6 being fixed off-site. Three rock trucks running, to 13:30. 245 hoe and all rock trucks having some minor problems but still operating.

Weather- +7°C low, calm, sunny, light clouds in morning. Sunny with light clouds, light south breeze and 24°C high in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Friday July 26, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- 245 hoe sculpting 2.5:1 GCL slope face. Some volume haul, although only one rock truck working in afternoon. Fill concentrated towards GCL area. SP and SP-SM fill from Borrows B and A with good natural moisture content.

Temporary Diversion Ditch- As directed by IANAC, angular gravel added to approximately 15 m of channel length, 'silt' fence constructed at east end.

ADDITIONAL IANAC REPAIRS- The approximately 3.5 m deep erosion trench (pumping effluent) across from the seepage control dam was backfilled using the 245 hoe. The 100 mm hose was extended beyond Dam 2 and the effluent directed on to a good length of polyethylene.

ACCESS ROAD- Additional angular gravel was hauled and placed near Borrow B.

Dome Creek Flow- Weir at 17 l/sec.

Equipment- D6 being fixed off-site. Two rock trucks running, to 13:30 then one.

Weather- +6°C low, calm, sunny, light clouds in morning. Sunny with light clouds, calm and 25°C high in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Saturday July 27, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Entire day volume haul, first two rock trucks, then only one rock truck working in afternoon. 245 hoe loading from Borrow B. D9 dozer pushing sand at Borrow B and also leveling dog dumps at Dam 1. IR100 packer working lifts. Fill concentrated towards GCL area. SP and SP-SM fill from Borrow B with good natural moisture content. GCL liner and berm elevation of 1141 m has been reached on the south side and approximately 0.6 m of fill remains on the north end. The south side and lesser on the north side still require stripping, and the toe area upstream of the 2.5:1 slope needs to be further excavated to remove unfrozen material. GCL liner is being stockpiled (966 loader and SM and BG on hourly) towards the south side. Liner installation should begin by July 29. Logan and Lindsay (BYG surveyors) laid out portions of berm and liner.

Temporary Diversion Ditch- No work carried out.

Permanent Diversion Ditch- Approximately 125 m upstream of main access road there is a 0.5 m deep erosion gulley and accompanying 2 m wide sand fan across the north side of the permanent diversion ditch. This erosion gulley is caused by the pipeline road above the permanent diversion ditch.

Dome Creek Flow- Weir at 8 l/sec.

Equipment- D6 being fixed off-site. Two rock trucks running, to about 14:30 then one. Guaranteed Rentals mechanic on-site fixing rock trucks.

Weather- +6°C low, calm, sunny in morning. Clouding over, calm and 23°C high in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Sunday July 28, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul to upstream Dam 1 area. 966 loader from US borrow areas. From 3 pm three rock trucks ran. (245 hoe loaded from Borrow A in late afternoon.) D9 pushed sand at upstream borrow areas and leveled dog dumps across dam. 245 hoe stripped remaining muskeg from south and north side of berm. About 18 rolls of GCL stockpiled at south side. 1141 m elevation reached and subgrade prepared for GCL deployment.

Temporary Diversion Ditch- No work carried out.

Dome Creek Flow- Weir at 5 l/sec.

Equipment- D6 being fixed off-site.

Weather- +7°C low, light breeze from SW, clear in morning. Sunny, calm and 28°C high in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Monday July 29, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Deploy Geosynthetic Clay Liner (GCL) from elevation 1141 m to base of berm. Key in top. Powdered bentonite across side overlaps. Remove small pile of blacks stockpiled just north of berm to north side of temporary diversion ditch. Entire first lift of liner completed. Some seepage from dam fill near south side, at this location, liner was rolled back enough to allow drainage. (When sand was placed over this area the liner was overlapped.)

Temporary Diversion Ditch- No work carried out.

Dome Creek Flow- Weir at 5 l/sec.

Equipment- D6 being fixed off-site. Guaranteed Rentals Mechanic on-site.

Weather- +7°C low, clear in morning. Sunny, clear, calm and 28°C high in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

- Hauling organics from E5 to N side of TDD

KLOHN-CRIPPEN

Daily Field Report Tuesday July 30, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- 245 hoe (hourly), three rock trucks (volumes) and 966 loader hauling sand from Borrow C to pad approximately 1 m thick across GCL. Top 1.5 m along 2.5:1 slope covered with polyethylene for later overlap with next GCL lift. Entire GCL area covered with sand (except for polyethylene area). The liner was installed in good sunny weather. A light rain began only for the last two hours of installation. The liner was keyed in at elevation 1141 m down a 2.5:1 slope (4.5 m horizontal distance in from the outer 2.5:1 slope face) and then horizontally across base of berm.

Temporary Diversion Ditch- No work carried out.

Hauling Organics- from emergency spillway area to north side of temporary diversion ditch.

Dome Creek Flow- Weir at 8 l/sec.

Equipment- D6 being fixed off-site. D9 down at 4:15 pm. 966 loader down for one hour (three rock trucks and hoe used to remove organics from recent north berm area stripping to north side of temporary diversion ditch).

Weather- +7°C low, clear and warm in morning. Cloudy, calm and 22°C high in afternoon. Rain from 5:00 pm.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Wednesday July 31, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Last night, Mr. Crabtree packed (IR100) sand lift placed over GCL. Only minor erosion damage to upstream area above GCL due to cofferdam breach and runoff.

Dewatering- In morning, 245 hoe worked near Borrow A and Ring Road to control runoff. Then equipment and crew on standby. Steady rain to 6 pm. At about 7:00 pm upstream sand berm (cofferdam) breached across approximately 4 m. Water flowed into low area in front of Dam 1. Breach backfilled (before breach further enlarged or pond drained), pumps fired up (four inch Honda and 6 inch volume pump) and pond pumped down. Equipment involved included 966 loader and rock trucks.

Temporary Diversion Ditch- No work carried out.

Dome Creek Flow- Weir at 35 l/sec.

Equipment- D6 being fixed off-site. All equipment except for 245 hoe down due to rain.

Personnel- Most of crew on standby.

Weather- Rain all last night and through day, cloudy. Rain stopped at about 6 pm. +7°C low, 12°C high.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Thurday August 1, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul mainly from reservoir borrows to upstream berm area and central and downstream portions. GCL condition should be good, but not visible due to sand cover except at polyethylene covered area near 1141 m (for overlap).

Haul Road Maintenance- 'shale' placed on ring road near cofferdam pond.

Dewatering- 4 inch Honda pump ran during day, 6 inch Gruman Rupp diesel pump used overnight. Some intermittent pumping from berm toe area of Dam 1 to cofferdam pond. Filter fabric used to construct silt fence downstream of Dam 2.

Temporary Diversion Ditch- No work carried out, condition good.

Thermistors- Two point thermistor newly installed on south abutment is buried under 1 m of saturated sand during rain. Thermistor at DH95-05 undamaged but about 2 m thick of native sand was removed during yesterdays cofferdam emergency from 3 m north. This may increase temperatures.

Dome Creek Flow- Weir at 177 l/sec.

Equipment- D6 being fixed off-site. D9 down at 2 pm. Three rock trucks ran for most of day.

Weather- +7°C low, 18°C high, cloudy but sunny, calm.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Friday August 2, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul mainly from reservoir borrows to upstream berm. Dog dumps across center and downstream portions of dam leveled by 966 loader. 245 hoe loading trucks mainly from Borrow C, 966 loader spreading and packing lifts. For a short time, some sand hauled from north abutment stockpile in an attempt to obtain drier sand. Moisture content of sand and compaction is good.

Dewatering- As necessary.

Temporary Diversion Ditch- No work carried out, condition good.

Thermistors- Two point thermistor newly installed on south was recovered from washed out sand.

Dome Creek Flow- Weir at 44 l/sec.

Equipment- D6 being fixed off-site. D9 down. Two rock trucks ran for most of day, then only one in late afternoon.

Weather- +7°C low, 16°C high, cloudy, very light rain over Thursday, August 1 night.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Saturday August 3, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- No work carried out.

Dewatering- Both 6" and 4" pumps pumping water out of cofferdam.

Haul Roads- Poor condition from sand washouts.

Temporary Diversion Ditch- No work carried out.

Dome Creek Flow- Weir at 960 l/sec (estimated).

Equipment- D6 being fixed off-site. D9 down.

Crew- Most of crew off due to wet conditions, skeleton crew on dewatering.

Accident- Rick, Guaranteed Rentals Mechanic injured at about 1 pm and taken by BYG ambulance to Carmacks.

Weather- +7°C low, 16°C high, cool, windy, cloudy, short light rain at 4 pm. **Heavy rain** from 7:30 pm Friday August 2 night to 5 am Saturday August 3 morning- 10 mm!

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Sunday August 4, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- SP, SP-SM sand fill hauled from Borrow C by 245 hoe and from the far east side of site just south of the temporary diversion ditch (afternoon) loaded by the 966.

Dewatering- Both 6" and 4" pumps pumping water out of cofferdam as necessary but water levels kept low. Mud hen pump pushed water from upstream of Dam 1 berm area, upstream of the cofferdam.

Haul Roads- 245 hoe cleaned up washout sand from ring road.

Temporary Diversion Ditch- No work carried out.

Dome Creek Flow- Weir at 97 l/sec.

Equipment- D6 being fixed off-site. D9 down for most of day. One rock truck down all day, other two down for 2 and 6 hours each.

Weather- +4°C low, cold, clear and calm in morning; 16°C high, cool, windy, cloudy in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Monday August 5, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1-

- Morning- SP, SP-SM sand fill hauled from east side of site, south of the temporary diversion ditch loaded by the 245 hoe.
- From 1 pm- SP, SP-SM sand fill hauled from downstream emergency spillway excavation (just started).
- Fill placed in berm and in main portion of dam.

Dewatering- 4" pump at cofferdam running from 1 pm.

Haul Roads- Ring road not used because of borrow locations.

Temporary Diversion Ditch- No work carried out.

Dome Creek Flow- Weir at 37 l/sec.

Equipment- D6 being fixed off-site. D9 down at 7:30 am. One rock truck still down, two rock trucks running, 245 hoe loading sand, 966 leveling dog dumps (no dozer) and moving hoses and pumps.

Weather- +4°C low, 17°C cool, calm, cloudy in morning. Rain from 3:30 pm.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Tuesday August 6, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1-

- 'Shale' hauled to berm area of Dam 1. 245 hoe spread out shale on upstream slope face of berm.
- Sand hauled from Emergency spillway to Dam 1 downstream of berm.

Borrows- Shale derived from weathered bedrock north of mechanics area on main access road to dam. Emergency spillway, downstream half used as sand borrow.

Meeting- Mr. Bob Hinkkuri, BYG Resources Ltd., Mr. Vince Hunter, BYG Resources Ltd., Mr. Chris Verrico, Ketza Construction, Mr. Rolland Girouard, Ketza Construction, Ms. Karen Densmore, Ketza Construction.

Dome Creek Flow- Weir at 37 l/sec.

Equipment- D6 being fixed off-site. D9 down. Truck 5 down. Trucks 9 and 2 down two and four hours. **D9N dozer and D300 Cat truck arrive** on site and begin work.

Weather- +6°C low, 15 °C high, cool, calm, cloudy in morning. Light rain in morning and light rain over Aug 5-6 night.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Wednesday August 7, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Shale hauled to berm area.

Dam 2- 256 hoe excavated front area to frozen ground.

Borrows- Shale derived from weathered bedrock north of mechanics area on main access road to dam.

Dome Creek Flow- Weir at 75 l/sec.

Shutdown- All work except dewatering shutdown at 11:00 am due to wet conditions.

Equipment- D6 being fixed off-site. D9 down. Truck 5 down.

Weather- +1°C low, snow on mountain tops in morning. High of 10 °C, cool, cloudy. Rain overnight of Aug 6-7, rain through morning until about 3 pm.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Saturday August 10, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Sand stockpiled during day, then spread by D9N in evening.

Dam 2- 256 hoe placing stockpiled fill with IR100 packing south side (could not access north side). Hoe also prepared upstream slope. JGM was not on site on August 8 and 9 and during this time, the upstream cutoff was excavated and sand was stockpiled on the dam top to be spread by the hoe and packed from the top. I have been told (but did not observe) that the upstream cutoff is 1.5 m below frozen soil.

Borrows- All sand fill taken from near far northeast side of site with D9N pushing sand in pile for 966 loader.

Dome Creek Flow- Weir at 50 l/sec.

Equipment- Cat D300 truck running all day. Komatsu rock truck 5 down all day and other two down part of day. Generally, only two trucks running.

Weather: -3°C low, ice in low areas, cold, clear and calm in morning. High of 17°C, light clouds, sunny in afternoon. No rain.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Sunday August 11, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Shale dog dumps across upstream horizontal berm area have been leveled and packed by D9N. Some packing of main portion of Dam 1.

Dam 2- Small 'cofferdam' built just upstream of dam on the north side. Also pump place on south side for runoff. Upstream slope approximately 3.5:1. Downstream slope quite steep, estimated 2:1. All sand fill. Crest width, 5 to 6 m. Hoe finished placing fill, then moved to upstream side in front of dam. A key trench for the liner hand dug along the crest. The GCL was installed from the key trench down the 3.5:1 upstream slope and across approximately 3 to 5 m horizontally at base. Overlaps powdered with bentonite. Key trench with liner backfilled by hand. Hoe placed approximately 450 mm of sand over liner. Work completed in good weather.

Borrows- All sand fill taken from near far northeast side of site with 966 loader.

Dome Creek Flow- Weir at 31 l/sec.

Equipment- Cat D300 truck down. Generally, only two trucks running. D9N on standby and used to haul 769 Cat truck out of ditch enroute from Carmacks.

Weather: -3°C low, cloudy and calm in morning. High of 14 °C, clouding over in afternoon. No rain.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Monday August 12, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Packer working area downstream of berm. From 1:30 pm, D9N pushing sand to 966 at Borrow C, fill transported by two rock trucks and dog dumped on Dam 1.

Dam 2- Hoe placing 300 mm of shale (angular gravel derived from weathered bedrock) over the 450 mm of sand placed yesterday on the GCL and crest and downstream portions of Dam 2. (JGM told hoe operator yesterday that downstream side of Dam 2 is too steep and should be 3.5:1.)

Borrows

- 'Shale' borrow is located approximately 75 m north of mechanics area on main access road. D9N pushing shale to 966 loader. Shale transported to Dam 2 by two rock trucks.
- Dam 1 fill (SP and SP-SM) from Borrow C.

Dome Creek Flow- Weir at 47 l/sec.

Equipment- D300 Cat truck #4 down. Two Komatsu rock trucks running. 245 hoe down at 2 pm. D769 truck running but not used because hoe down (only machine on site which can load this truck) and trafficability (couldn't access Dam 2 when hoe was running).

Weather: 0°C low, sunny and calm in morning. High of 17°C, sunny with some clouds and calm in afternoon. No rain.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Tuesday August 13, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul from Borrow B dog dumped across Dam 1. In evening dog dumps leveled by D9N. 966 loader at Borrow B with D9N pushing sand to loader. Sand is consistent and SP and SP-SM with 7 to 9% moisture content.

Dam 2- No work. JGM measured four sections across dam. Upstream slope at approximately 3.5:1 and crest width >5 m. Downstream slope approximately at 2:1. JGM informed Mr. Crabtree that downstream slope needed additional shale to bring to 3.5:1.

Dome Creek Flow- Weir at 15 l/sec.

Equipment- 245 hoe down all day. Three rock trucks running by afternoon including two Komatsu and Cat D300. Two rock trucks only later in afternoon. Dennie, licensed mechanic from Guaranteed Rentals on site.

Weather: 3°C low, cloudy, light breeze in morning. High of 12 °C and cloudy in afternoon. After 6 pm, clearing and warming to about 16 °C. No rain.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Wednesday August 14, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- From 7:30 am to 9:30 volume haul from Borrow B loaded by 966. D9N pushing sand at Borrow A. Then 966 and three rock trucks had to get backup alarms fixed. Then 245 hoe loaded variable number of rock trucks (up to four) from Borrow A, with D9N pushing sand to hoe. IR100 packer working Dam 1 all day. Sand material is consistent as SP and SP-SM, mostly brown with small amounts of grey. Wetter sand (moisture content 12%+) from Borrow B placed just upstream of berm next to GCL area (because previous lift is dry). Most of fill placed across rest of dam. Water content approximately 9 to 12%. Sand left in dog dumps until after 6 pm then spread out by D9N.

Dam 2- No work, downstream slope still needs additional shale to flatten to 3.5:1.

Dome Creek Flow- Weir at 17 l/sec.

Equipment- 245 hoe back running, for good portion of day, four rock trucks running part of day including the three Komatsu and Cat D300. Dennie, licensed mechanic from Guaranteed Rentals on site.

Site Visits- WCB on site and Kevin Rumsey and Tony Polyck of DIANA. DIANA appear happy with Tailings Facility and work that was carried out at their request earlier.

Site Meeting: Ketza- Peter Densmore, Chris Verrico, Rolland Girouard, Ted Crabtree; BYG- Vince Hunter, Bob Hinkkuri; Klohn-Crippen- John McKay.

Weather: -2°C low trace frost, sunny and calm in morning. High of 12 °C, cloudy and calm in afternoon. Rain from 5 pm to 6 pm.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Thursday August 15, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul of SP and SP-SM sand across dam downstream of liner berm. D9N leveled dog dumps and IR100 packer worked surface. Base of dam slopes down from the south abutment to north approximately 4 m. Best production day yet.

Borrows- 966 loading trucks from Borrow B. 245 hoe loading from Emergency Spillway, D9N stripped some of ES and pushed some sand to the hoe at the ES.

Emergency Spillway- Excavation.

Dam 2- No work, downstream slope still needs additional shale to flatten to 3.5:1.

Dome Creek Flow- Weir at 16 l/sec.

Equipment- Four rock trucks running almost all day including the three Komatsu and Cat D300. Dennie, licensed mechanic from Guaranteed Rentals on site. D769 truck made one trip to Dam 1 and became stuck and rutted up fill.

Site Visits- WCB on site.

Weather: +1°C low sunny and calm in morning. High of 12 °C, very cloudy and calm in afternoon. Light, isolated rain showers in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Friday August 16, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Dog dumping of SP and SP-SM sand across dam. D9N leveled intermittently and IR100 packed area throughout day. Fill elevation slopes down about 3 m from south to north. There still is a 7 m wide berm at the upstream edge of the dam that the trucks use to access the dam as part of their circle within the dam. (Generally trucks from the ES drive across this berm to the south side of the dam, dump, then exit from the north side). This berm is a remnant of the GCL installation and with all the truck traffic is exceptionally packed. Wires from the pneumatics and thermistor string at the south abutment (original elevation 1141 m) are hand-held as surrounding fill is packed by IR100 on the south abutment.

Borrows- Emergency Spillway and Borrow B. Ketza had two trucks loading with 245 hoe from the ES and two trucks loading with the 966 from Borrow B for part of the day.

Emergency Spillway- Excavation and some stripping (stripping near downstream end).

Dam 2- No work, downstream slope still needs additional shale to flatten to 3.5:1.

Permanent Diversion Ditch- Kandu hoe excavated upper portion approximately 3 m wide from pipeline right-of-way south to top of permanent diversion ditch approximately 75 m west of access road.

Dewatering- Six inch blue diesel pump moved from upstream sand berm (cofferdam) to Dam 1 berm. Remainder of hoses, accessories and four inch blue pump moved from cofferdam area.

Dome Creek Flow- Weir at 16 l/sec.

Equipment- Four rock trucks running almost all day including the three Komatsu and Cat D300. Dennie, licensed mechanic from Guaranteed Rentals left site yesterday.

Site Visits- WCB still on site.

Weather: 0°C low, clear and calm in morning. High of 12 °C, very cloudy and calm in afternoon. Light, isolated rain showers in afternoon.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.

KLOHN-CRIPPEN

Daily Field Report Saturday August 17, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Fill placement of sand, more along north side to level surface. IR100 packing, two to four rock trucks dog dumping. D6 leveling dog dumps. D6 cut fill down/made access road to Dam 2 for rock trucks to haul shale.

Dam 2- Shale placement with 245 hoe to flatten downstream slope. 966 loader loading two rock trucks and D6 pushing shale.

Borrows- Shale to Dam 2 from north of mechanics area. Sand to Dam 1 from Emergency Spillway. Some loads of fill from downstream portion of ES have up to 30% gravel sizes but generally less than 5%.

Emergency Spillway- Excavation and use of material as fill for Dam 1. Some organics removal at downstream end. 245 hoe loading two to four rock trucks and D9N occasionally pushing sand.

Dome Creek Flow- Weir at 15 l/sec.

Equipment- Four rock trucks running almost all day including the three Komatsu and Cat D300. One Komatsu rock truck had a flat in the morning. D6 operating again. D9N was down for morning. 988B Cat loader just arrived on site but needs transmission oil changed before usable. 966 loader went down before shale placement was finished at Dam 2.

Site Visits- Milos Stepanek (Geo-Engineering) and Bud McAlpine (DIANA) on site. Generally appear contented with construction but verbally requested two holes be drilled and pneumatic piezometers be installed in fill above water table. The holes are to be drilled on centerline and downstream of centerline. These holes are to replace the three locations where pneumatic piezometers below native soil were to be installed earlier.

Weather: -1°C low, cloudy and calm in morning. High of 13 °C, cloudy. Rain from 2:45 pm to 4:00 pm and again in evening.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)

KLOHN-CRIPPEN

Daily Field Report Sunday August 18, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Two 75 mm erosion pipes observed in gravelly sand at north abutment due to shallow infiltration in steep slope. SP and SP-SM sand placed, good moisture content and packed well. More blacks removed from north abutment.

Dam 2- Access road from Dam 1 to Dam 2 'shaled' for better traction and to protect newly installed pneumatic piezometers. Continuing with shale placement to flatten downstream slope.

Borrows- Sand to Dam 1 from Emergency Spillway. Sand to Dam 1 from north abutment stockpile until frozen sand encountered. Shale to Dam 2 from north of mechanics area opposite main access road.

Emergency Spillway- Excavation and use of material as fill for Dam 1 for one hour.

Dome Creek Flow- Weir at 25 l/sec.

Dewatering- Portion of upstream cofferdam removed last evening, 6" pump moved to Dam 1 berm.

Equipment- One rock truck was parked (short operator) until 11 am. Generally three of four rock trucks running rest of day. New mechanic (Tom) on site with service truck.

Instrumentation- Three pnuematic piezometers installed in response to August 17th visit by Milos Stepanek (Geo-Engineering) and Bud McAlpine (DIANA). Tips placed in sand fill and leads extended from upstream to downstream near the south low area in Dam 1, bentonite powder placed along wires.

Pnuematic Piezometer Installation Dam 1 Aug 18, 1996				
Tip #	Lead (m)	Northing (m)	Easting (m)	Elevation (m)
20372	110	~~18966.5~~	20548.7	~~1141.0~~
20373	85	18959.2	~~20571.6~~	1139.5
20379	50	~~18956.3~~	20591.6	~~1138.4~~

Bad survey.

Weather: 1°C low, cloudy and calm in morning. High of 14 °C, light clouds and light breeze, becoming sunny by 4:30 pm. 5 mm of rain measured overnight , light occasional drizzle in morning through to noon.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Monday August 19, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul of sand dog dumped across Dam 1 and leveled by D6D. Some loose native soil has been pushed off north abutment from 10 m upsteam to 20 m downstream of centerline. Sand is SP and SP-SM at 10-12% natural water content.

Dam 2- 245 hoe continued placing some shale on downstream slope in morning. D6 finished off.

Borrows- Sand to Dam 1 from Borrow C loaded by 988B. D9N pushing sand at Borrow B then A. Old D9 pushing sand at north abutment stockpile.

Emergency Spillway- No excavation.

Dome Creek Flow- Weir at 22 l/sec.

Equipment- 245 hoe moved to mechanics area for maintenance at 11:15 am. One rock truck down near 3 pm with hole in radiator. Next rock truck down with flat tire at 5 pm.

Weather: 1°C low, cloudy in morning. High of 10 °C, cloudy and stiff wind from the west. 1 mm of rain measured from occasional afternoon and evening showers.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Tuesday August 20, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- Volume haul of sand dog dumped across dam. Leveled by D6D and packed by IR100. Some sand pushed over from the north abutment, mainly loose native material. At least 1 to 1.5 m of dry (5%) loose sand placed along low area 10 m wide from upstream to downstream on the north side. JGM requested Contractor blade this material out and place back in 300 mm compacted and moisture conditioned lifts.
- Contractor desires to push with dozer large stockpile of sand on north abutment just downstream of centerline. This sand is from the diversion ditch excavation and has frozen lumps. Main problem with pushing this material across to Dam 1 is lift thickness will be impossible to control and will be much greater than 250 mm specification.

Borrows- Sand to Dam 1 from Borrow C, then from Emergency Spillway. D9N pushing sand a t Borrow B from about 2:30 pm. Old D9 flattening and broadening stockpile at north abutment.

Emergency Spillway- Excavation and use of material as fill for Dam 1 in afternoon. 245 hoe excavating from about 20 m and further downstream of dam centerline.

Dome Creek Flow- Weir at 22 l/sec.

Equipment- One rock truck down with flat tire all day. 988B Cat loader down at 2 pm. 245D Cat hoe was being repaired (new hydraulic pump and filters) to 2 pm.

Weather: 0°C low, cloudy and calm in morning. High of 12 °C, cloudy and calm. No rain.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Wednesday August 21, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Sand fill placed across dam. The north abutment slope was keyed in. Two packers on dam.

Borrows

- **North Abutment Stockpile-** Sand pushed to Dam 1 . This material is SP and SP-SM a bit dry, but water was added, however, there are some frozen lumps and care is required to ensure thaw of this material when used as fill.
- **Emergency Spillway-** Most of excavation from downstream 50 m. Material is predominantly sand, with 10 to 35% gravel, and <10% fines. At least 1000 m^3 of this excellent fill material placed in dam.
- Shale from north of mechanics area off main access road to dam- loaded by 966 and hauled by one gravel truck (and one operator for both) to build road just north of ES.

Emergency Spillway- Excavation by 245 hoe and hauling to Dam 1 by rock trucks. North of ES alignment and adjacent to, shale was hauled to improve trafficability for later use of D769 rock trucks.

Dome Creek Flow- Weir at 19 l/sec.

Equipment- Generally, one to two rock trucks (all Komatsu) down with various ailments including flat tire, transmission problem and scheduled maintenance . 988B Cat loader down. Rick of Guaranteed Rentals on site.

Weather: 0°C low, clear and calm in morning. High of 12 °C, cloudy and calm. Drizzle all afternoon.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Thursday August 22, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- In the morning, the north abutment pushed fill was being keyed in reasonably well. Nevertheless, in the evening it is still apparent that there are difficulties moving the north abutment stockpile down the steep native slope and onto a flat fill surface. The fill contains frozen lumps, and it is difficult to work out the frozen material completely. The fill is not continuously being keyed in to the native slope. At the downstream end, there appears to be a thick wedge of uncompacted fill and the key is completely absent along the downstream face.
- Borrow A and B fill being dog dumped across dam also. Two packers working lifts.
- Some blacks removed from north abutment, just south of diversion ditch.
- Downstream slope shaped by D9N in evening following earlier survey (slope staking).

Borrows

- North abutment stockpile- Sand pushed to Dam 1 by D6D. This material is SP and SP-SM. This material has good moisture content but in the morning, was mixed with drier material from Borrow A; overall moisture content was good.
- Borrow A- 245 hoe loading four rock trucks and hauling sand from Borrow A to Dam 1. SP and SP-SM. D9N assisting with some pushing of sand.
- Borrow B- 245 hoe loading 3 rock trucks in afternoon, also SP and SP-SM.
- Shale from north of mechanics area off main access road to dam- loaded by 988B and hauled by D769 and one rock truck to build road just north of ES.

Emergency Spillway- In morning, D9N pushing up thin unfrozen upper 'skiff' of sand to facilitate thaw and create small borrow stockpiles.

Dome Creek Flow- Weir at 20 l/sec.

Equipment- 988B Cat loader down for part of morning. Four rock trucks running with some minor problems. Big Cat 769 truck running in afternoon, hauling sand from the ES and shale for ES road. Komatsu Rock Truck #9 down in late afternoon.

Weather: 0°C low, cloudy and calm in morning. High of 13°C, cloudy, calm, but afternoon and evening showers.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Friday August 23, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- SP and SP-SM sand fill dog dumped and leveled by D9. Two packers working area. North abutment slope work is keyed in well.

Borrows

- Emergency Spillway- In morning, 245 hoe excavating material to three rock trucks.
- North Abutment
- Borrow B

Dome Creek Flow- Weir at 25 l/sec.

Instrumentation- Thermistor 95-10 located at Dam 2 is no longer working. Pneumatic piezometer originally installed 1 m below native ground at the north abutment in drillhole 96-2 has been pulled out of the ground by dozer.

Equipment- Komatsu Rock Truck #9 still down in morning (later repaired).

Weather: 1°C low, cloudy and calm in morning. High of 11°C, light (<10 kph) west wind, occasional afternoon showers.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Saturday August 24, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- Volume haul, 328 loads.

Borrows

- Emergency Spillway- downstream excavation.
- North Abutment- D9H pushing to Dam 1.
- Borrow A

General

JGM on days off, no Klohn-Crippen representative on site.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Sunday August 25, 1996
Mt. Nansen Tailings Facility Construction - PM5314.300(B)

Dam 1- Volume haul, 360 loads.

Borrows

- Emergency Spillway
- North Abutment (?)
- Upstream Borrows (?)

Equipment- D9H down since yesterday afternoon seals and hydraulic pump.

General

JGM on days off, no Klohn-Crippen representative on site.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Monday August 26, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- Volume haul of SP and SP-SM, grey sand from Borrow B. Moisture content at 12 to greater than 15% (-2 to just above optimum). This mixed well with lower drier lift and compacted very well. IR100 packer. Champion 740H grader and D6D spreading and packing.
- 245 hoe shaping downstream slope.
- Observations indicate that the GCL has been placed from elevation 1141 m along the outside 2.5:1 slope (below elevation 1141 m this is covered by the berm). From 1141 m. the slope is nearly horizontal across 4.5 m then rises 4 m in elevation at 2.5:1. This is to be confirmed by survey. A corrective measure would be to tie in the liner to the 2.5:1 slope which is 4.5 m horizontal distance in from outer 2.5:1 yet ensure positive drainage of the liner.

Borrows

- Borrow B
- South of Emergency Spillway

Dome Creek Flow- Weir at 20 l/sec

Equipment- D9H down. Two to three rock trucks running

Weather: -4°C low, light clouds and light breeze from the south in morning. High of 12°C, cloudy, light breeze in afternoon. No rain

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Tuesday August 27, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- Sand fill (SP and SP-SM), IR100 packer, grader and D6 and sometimes D9N working lifts. Drier ES sand is mixed with wetter upstream borrow sand and compaction is very good.
- Survey indicates downstream slope is approximately 1.75 m low.

Borrows

- North of ES opposite 250 m downstream of dam centerline
- Natural terrace on north side between Dam 1 and Dam 2. This was to be dug out for a snake pit (organics pit) but I (JGM) have directed contractor to haul organics to designated waste areas on the north or south of the temporary diversion ditch and to leave area with positive drainage.
- Borrow A and B (upstream reservoir)

Emergency Spillway- Excavation for Dam 1 fill and dozer pushing to facilitate thaw.

Dome Creek Flow- Weir at 20 l/sec.

Equipment- D9H down. Two to three rock trucks running.

Weather: -3°C low, light clouds, calm in morning. High of 8°C, cloudy and calm in afternoon. Rain from 5:30 pm.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd .*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Wednesday August 28, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- Volume haul of SP and SP-SM, brown sand from east of Emergency Spillway, from the Emergency Spillway and from west of the Emergency Spillway. IR100 packer and D6D spreading and packing. Fill stopped shortly after IR100 packer went down.

Organics Removal- From 4 pm, organics were hauled from just north of the north abutment to north of the temporary diversion ditch. Organics loaded by 245 Cat hoe to three rock trucks with D6D pushing.

Borrows

- Emergency Spillway and either side, loaded by 245 hoe at the ES and by the 988B east of the ES.

Emergency Spillway- Excavation with 245 hoe for fill and D9N pushed sand to facilitate thaw.

Dome Creek Flow- Weir at 22 l/sec.

Equipment- D9H down. Three rock trucks running. IR100 packer down at 2:30 pm. Since the IR SP-54 is already down, further fill on Dam 1 is halted.

Weather: 2°C low, cloudy, calm in morning. High of 10°C, cloudy, calm in afternoon. Drizzling all day. 8 mm of rain accumulated from yesterday afternoon to morning.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Thursday August 29, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- No fill placement, IR100 and IRSP-54 packers down.
- 245 hoe and hand raking and hand shoveling to prepare upstream slope for GCL.
- Some dozer work on northern 50 m of upstream slope.

Organics Removal- Organics hauled from approximately 19000 N and 20600 E (south of ES) to north of temporary diversion ditch. Organics loaded by 245 Cat hoe or 988B to two rock trucks with D6D pushing to hoe. D6D also occasionally leveled out organics after dumped at north side of temporary diversion ditch.

Emergency Spillway- D9N pushed sand to facilitate thaw.

Dome Creek Flow- Weir at 27 l/sec.

Equipment- IR100 and IR SP-54 packers down. Two rock trucks running until third one up in afternoon. Komatsu rock truck #9 down all day and hauled off site for repairs. D9H down.

Weather: 2°C low, cloudy, calm in morning. High of 13°C, cloudy, light breeze from southwest in afternoon. No rain, but 1 mm of rain accumulated from yesterday afternoon to morning.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Friday August 30, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- No fill placement, IR100 and IRSP-54 packers down.

Organics Removal- Organics hauled from approximately 19000 N and 20600 E (south of ES) to north of temporary diversion ditch. Organics loaded by 245 Cat hoe to two rock trucks D9N and D6D also occasionally leveled out organics after dumped at north side of temporary diversion ditch.

Emergency Spillway- No work.

Emergency Spillway 10% Grade Zone 4 Riprap- D9N dozer and 740 A Champion Grader working 9 km road from Johnson Placer mine to Emergency Spillway.

Dome Creek Flow- Weir at 20 l/sec.

Equipment- IR100 and IR SP-54 packers down. Two rock trucks running, two rock trucks down. D9H down.

Weather: 6°C low, cloudy, calm in morning. High of 13°C. No rain.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Saturday August 31, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- No fill placement, IR100 and IRSP-54 packers down.

Organics Removal

- Organics hauled from approximately 18980 N and 20700 E (south of ES) to north of temporary diversion ditch. Organics loaded by 245 Cat hoe to two rock trucks D6D leveled out organics for one hour at end of day at north side of temporary diversion ditch.
- Rock truck haul and hoe loading times of six afternoon return trips: 9 minute/truck round trip and 45 seconds hoe loading time /truck.

Emergency Spillway- No work.

Emergency Spillway 10% Grade Zone 4 Riprap- D9N dozer and 740 A Champion Grader working 9 km road from Johnson Placer mine to Emergency Spillway. D9N stuck on ridge, D6D mobilized to pull out.

Dome Creek Flow- Weir at 21 l/sec.

Equipment- IR100 and IR SP-54 packers down. Two rock trucks running. D9H down.

Weather: °C low, cloudy in morning. High of 14°C. Short rain showers, 1 hour in morning and later in evening.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Sunday September 1, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: No fill placement, IR100 and IRSP-54 packers down.

Organics Removal: No work. Approximately 75 m^3 of organics remain on the south side of the Emergency Spillway near the far downstream end.

Emergency Spillway: No work.

Emergency Spillway 10% Grade Zone 4 Riprap: No work.

Dewatering: Ponds in front of both Dam 1 and Dam 2 pumped down in evening.

Dome Creek Flow: Weir at 20 l/sec.

Equipment: IR100 and IR SP-54 packers down. Two rock trucks running. D9H down.

Weather: 2°C low, cloudy in morning. High of 13°C. Light rain in morning and heavier rain from 5 pm to 4 mm by 9 pm.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Monday September 2, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

KETZA CONSTRUCTION TOOK DAY OFF.

Dam 1: No fill placement, IR100 and IRSP-54 packers down.

Organics Removal: No work. Approximately 75 m^3 of organics remain on the south side of the Emergency Spillway near the far downstream end.

Emergency Spillway: No work.

Emergency Spillway 10% Grade Zone 4 Riprap: No work.

Dewatering: No work.

Dome Creek Flow: Weir at 41 l/sec.

Equipment: IR100 and IR SP-54 packers down. Two rock trucks in operating condition. D9H down. IR100 packer from Skookum arrived at 4:30 pm.

Weather: 3°C low, cloudy, stiff west wind in morning. High of 8°C, cloudy in afternoon. No rain.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Tuesday September 3, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Sand fill placement, 988B moving load by load from pushed up sand downstream of north abutment. This material has trace of frozen and is abit dry. 245 hoe loading two rock trucks from downstream areas of Emergency Spillway. SP and SP-SM sand with good moisture content. IR100 Packer #2 working lifts. D9N and D6 spreading out dog dumps across dam.

Organics Removal: No work. Approximately 75 m^3 of organics remain on the south side of the Emergency Spillway near the far downstream end.

Emergency Spillway: D9N scraped unfrozen surface material in afternoon and morning. 245 hoe loaded 2 rock trucks from 200 m + downstream of centerline, hauled to Dam 1.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Road work. 966 loader and one IHC Tandem Truck. 966 loads truck at stockpile repeatedly. Truck hauls to dumping area along road. After several loads, 966 moves from stockpile and spreads dog dumps. Cycle repeats. Pond near stockpile is drained by coarser drain rock placed in the embankment.

Dewatering: Pump down Dam 1. Dam 2 water accumulating, but pump was damaged when partially submerged.

Dome Creek Flow: Weir at 29 l/sec.

Equipment: IR100 (with cab) and IR SP-54 packers down. Two rock trucks in operating condition. D9H down. IR100 packer (without cab) operating.

Weather: -2°C low, clear but low area of dam was foggy in morning. High of 14°C, light clouds, calm in afternoon. No rain.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Wednesday September 4, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: SP and SP-SM sand (very little gravel) fill placement, 988B moving load by load from pushed up sand downstream of north abutment. 245 hoe loading two rock trucks from downstream areas of Emergency Spillway until 2 pm then hoe loading from northeast of ES area. Ketza no longer borrowing from ES. IR100 Packer #2 working lifts. D9N spreading out dog dumps across dam. Compaction density good, material dry at about 6-4% of optimum, control of lift thickness difficult for contractor. Lifts frequently too thick in places, up to approximately 500 mm instead of specified 250 mm. Contractor is notified repeatedly.

Organics Removal: No work.

Emergency Spillway: D9N worked upper approximately 0.3 m of unfrozen surface sand in morning. Survey stakes placed August 21st indicate at 250 m from centerline, 0.6 m excavated and at 150 m, 1 m excavated in last two weeks. Remaining cuts:

- 50 m from centerline cut 0 m
- 100 m from centerline cut 0.7 m
- 150 m from centerline cut 3.4 m
- 200 m from centerline cut 4.1 m
- 250 m from centerline cut 5.3 m
- 300 m from centerline cut 3.3 m
- 337 m from centerline (intersection with Dome Creek Valley) cut 0 m

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Road work completed by 10 am. 966 loader and one IHC Tandem Truck. Truck hauling from Johnson's to dam, same operator on loader and truck. Zone 4 rock stockpiled on south edge of ES about 75 m downstream of dam centerline.

Dewatering: During day, Dam 2 pumped down.

Dome Creek Flow: Weir at 20 l/sec.

Equipment: IR100 (with cab) and IR SP-54 packers down. Two rock trucks in operating condition. D9H down. IR100 packer (without cab) operating.

Weather: +3°C low, cloudy, isolated light drizzle early in morning. High of 10°C, cloudy, variable light to stiff west wind and isolated light drizzle in afternoon.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Thursday September 5, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1:

- Heavy frost last night, froze upper 25 mm of last lift. Contractor intends to mitigate this as necessary by traffic or other means.
- Hoe loading two rock trucks and a 769 Cat truck from east of ES. 988B loading sand from east side of sand terrace downstream of centerline. IR100 #2 packer and D6D working lifts.
- Old north abutment hole (several meters of organics were removed) unfrozen material dozed away, and the subgrade covered with sand. Sand fill extending across entire 265 m of dam from north to south. Fill slopes down towards north.
- Lift thickness greater than specification of 250 mm, as much as 500 mm in places. Contractor informed of excess lift thickness. Compaction test result: 100% standard Proctor dry density and -6% moisture content.

Organics Removal: No work.

Emergency Spillway: No work. Surface frozen in morning.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: 966 loader and one IHC Tandem Truck. .Truck hauling from Johnson's to dam, same operator on loader and truck. Zone 4 rock stockpiled on south edge of ES about 75 m downstream of dam centerline.

Dewatering: None.

Dome Creek Flow: Weir at 20 l/sec.

Equipment: IR100 (with cab) and IR SP-54 packers down. Two rock trucks in operating condition. D9H down. IR100 packer (without cab) operating. This packer was hauled off site in the evening.

Weather: -4°C low, clear cool, north wind in morning. High of 9°C, clear in afternoon.

Distribution:

- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*
- *Ketza Construction, Mount Nansen*

KLOHN-CRIPPEN

Daily Field Report Friday September 6, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1:

- Heavy frost last night, froze upper 25 mm of last lift.
- Hoe loading two rock trucks and a D250 Cat truck from east of ES (to 3 pm).
- Hoe sculpting fill, packing as necessary on upstream slope.

Compaction Tests Dam 1: Three tests, all failed. Moisture contents -7 to -10% below optimum and densities as low as 92%. These tests were located on the on the north and south flat fill surface and on the upstream slope. All sand fill placed to 3:30 pm today was too dry.

- **North Location:** The D9N was used (with the exception of one lift packed by IRSP54 #2) to spread and pack approximately 1.5 m of very dry fill since this morning. This area was excavated to remove organics and rapid fill placement was underway to bring up to same grade as rest of dam. The IRSP54 packer was not observed working in this area before 3:30 pm.
- **South Location:** Too dry, barely made density specification previous tests results have much higher densities. The next lift was being placed as this test was taken. This location was 1.5 m from the upstream edge. Slopes can be packed to specifications but it requires skill and effort.
- **Upstream Slope Face:** Poor survey control and lift placement next to the upstream slope have resulted in poor construction technique for portions of the upstream slope. Dozer and hoe have been used to fill in areas as necessary. Proper construction technique includes slight overbuild of thin horizontal lifts then trimming excess packed fill leaving only well packed material.
- **Contractor Informed of Failures at 2 pm.** The dry fill and north area were discussed as problems in the morning. Construction procedures underway from the morning to when density tests were taken at 1 pm and after until 2 pm remained poor.
- **Remedial Measures by Contractor:** Responding to the documented failures, Ketza has removed up approximately 1 m of fill from both north and south locations, watered the north area and packed both areas. A retest on the south area indicated very good density. The borrow source was moved from the dry far east area of the site to Borrow C where the moisture content is much better.
- **Construction Supervision:** Klohn-Crippen does not provide 100% supervision on this project. The contractor is expected to perform with good construction procedures at all times. Obvious failures such as being 9% below optimum moisture content should not occur. There have been problems with obtaining a working packer. The packer on site today has no drum drive and has difficulty moving around on the fill surface. This packer could not access the north area of

the fill. The work is being rushed due to seasonal and economic pressures and quality is suffering.

Emergency Spillway: No work. Surface frozen in morning.

North Temporary Diversion Organics Wastepile: D9N grading stockpile.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap

- 966 loader and one IHC Tandem Truck. Truck hauling from Johnson's to dam, same operator on loader and truck. Zone 4 rock stockpiled on south edge of ES about 75 m downstream of dam centerline.
- IHC truck directed to use pit road with load due to unsafe conditions (steep and winding road, poor visibility, high traffic) approaching dam access road.

Dome Creek Flow: Weir at 21 l/sec.

Equipment: Three rock trucks in operating condition, Cat D250 hauling. IRSP54 #2 packer operating. D9L operating in afternoon pushing sand at Borrow C.

Weather: -4°C low, clear, cool, calm in morning. High of 10°C, clear, calm in afternoon.

Distribution:

- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*
- *Mr. Peter Densmore, Ketza Construction, Mount Nansen*

Jock McKay

KLOHN-CRIPPEN

Daily Field Report Saturday September 7, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: SP and SP-SM sand, good moisture content (Borrow C) and compaction. Fill surface in morning was frozen and uneven. Subgrade was not prepared for first lift of day. IRSP54 could not use vibration of uneven surface for first part of morning. Hoe sculpting and laborers raking US slope face for GCL. South half of dam was 1.4 m low to GCL key elevation of 1150.7 m (top of dam 1151.5 m).

Haul Road: Shale hauled to extend haul road to top of dam at south abutment. Extension about 50 m.

Borrows: Borrow C until last hour of day then sand from far east of site. D9L pushing sand at Borrow C. 988B short-hauling sand from DS of north abutment to dam (drier sand).

Emergency Spillway: No work. Surface frozen in morning.

North Temporary Diversion Organics Wastepile: D9N grading stockpile.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap

- 966 loader and Three Tandem Trucks. Trucks hauling from Johnson's to dam, same operator on loader and truck. Zone 4 rock stockpiled on south edge of ES about 75 m downstream of dam centerline. A full day is seven trips per truck.

Dome Creek Flow: Weir at 27 l/sec.

Equipment: Three rock trucks in operating condition. IRSP54 #2 packer operating.

Weather: -5°C low, clear, cool, calm in morning. High of 8°C, sunny, clear, light west wind in afternoon. Ice in morning and in some places remains all day. Pond in front of Dam 1 well frozen in morning.

Distribution:

- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*
- *Mr. Peter Densmore, Ketza Construction, Mount Nansen*

KLOHN-CRIPPEN

Daily Field Report Sunday September 8, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Placement of sand fill.

Haul Road: Additional shale placed.

Borrows: Sand fill from Borrow C loaded by 245 hoe to 3:45 pm. Then 988B loading from far east of site.

Emergency Spillway: Scraped by D9L.

North Temporary Diversion Organics Wastepile: D9L grading and sinking in stockpile.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: 966 loader and Three Tandem Trucks. Trucks hauling from Johnson's to dam, same operator on loader and truck. Zone 4 rock stockpiled on south edge of ES about 75 m downstream of dam centerline.

Dome Creek Flow: Weir at 17 l/sec.

Equipment: Three rock trucks in operating condition for most of day. IRSP54 #2 packer operating, but poor trafficability and minimal use of vibration. Tom Anderson, mechanic, left site at 10:45 am.

Weather: -4°C low, clear in morning. High of 9°C, sunny, light west wind in afternoon.

Distribution:
- *BYG Resources Ltd, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*
- *Ketza Construction, Mount Nansen*

KLOHN-CRIPPEN

Daily Field Report Monday September 9, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Begin GCL installation. 966 loader brings one roll from north of temporary diversion ditch to top of dam. Hoe spools out liner as laborers pull down hill. Side and end overlaps powdered with bentonite. Good top key. Nineteen rolls laid out to 6 pm.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: 966 loader and four tandem trucks. Trucks hauling from Johnson's to dam, same operator on loader and truck. Occasional loading directly from Johnson trommel. Zone 4 rock stockpiled on south edge of ES about 75 m downstream of dam centerline. Dozer pushes pile at dam regularly.

Dewatering: Dam 2 pumped down.

Equipment: 245 hoe down from 11:30 to 12:30 through lunch. IRSP54#2 left site in morning.

Dome Creek Flow: Weir at 23 l/sec.

Weather: -1°C low, stiff west wind, clear in morning. High of 12°C, light west wind, clear and light clouds in afternoon. No rain.

Distribution:
- *BYG Resources Ltd, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*
- *Ketza Construction, Mount Nansen*

KLOHN-CRIPPEN

Daily Field Report Tuesday September 10, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: GCL installation continuing. From 4 pm, hoe placing sand from south to north, top to midpoint over GCL. 966 and laborers still spooling out GCL. Some swelling of the liner due to rain at 4 pm. Liner does not appear to be saturated.

Haul Road: Haul road previously extended to top of dam at south abutment removed to allow liner placement.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: 966 loader and four tandem trucks. Trucks hauling from Johnson's to dam, same operator on loader and truck. Occasional loading directly from Johnson trommel. Zone 4 rock stockpiled on south edge of ES about 75 m downstream of dam centerline. Dozer pushes pile at dam regularly.

Dome Creek Flow: Weir at 22 l/sec.

Weather: -3°C low, calm, cloudy in morning. High of 8°C, cloudy, stiff east wind in afternoon. 1 mm of rain 4 pm to 7:30 pm.

Distribution:
- *BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*
- *Ketza Construction, Mount Nansen*

KLOHN-CRIPPEN

Daily Field Report Wednesday September 11, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Last portions (3 rolls) of GCL laid out along north. Two rock trucks hauling sand from hoe at far east of site to base of GCL. D6D pushing sand up slope and placing about 300 mm cover over GCL.

Borrows: Far east of site.

Emergency Spillway: Some scraping.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: 966 loader and three tandem trucks. Trucks hauling from Johnson's to dam, same operator on loader and truck. IHC occasional loads directly from Johnson trommel. Zone 4 rock stockpiled on south edge of ES about 75 m downstream of dam centerline. Dozer pushes pile at dam regularly.

Dome Creek Flow: Weir at 19 l/sec.

Equipment: Two rock trucks in operating condition. IR100 (#1) on site in morning.

Weather: 3°C low, cloudy morning. High of 8°C, light clouds, sunny in afternoon. No rain.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Thursday September 12, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: GCL 300 mm sand cover carried out at the same time as volume haul to upstream slope. Liner completely covered by early afternoon. Two rock trucks hauling sand from hoe at emergency spillway. D6D pushing sand up slope and IR100 packing up slope. This material from 300 mm above liner is to be cut as horizontal lifts are made across the dam from bottom.

Borrows: Emergency Spillway.

Emergency Spillway: Unfrozen sand pushed up several times throughout day. Material used as borrow source.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: 966 loader and four tandem trucks.

Dome Creek Flow: Weir at 15 l/sec.

Equipment: Two rock trucks in operating condition. IR100 (#1) operating.

Weather: -2°C low, clear, calm in morning. High of 11°C, clear, calm in afternoon. No rain.

Distribution:
- *BYG Resources Ltd, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Friday September 13, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Upstream slope fill. Two rock trucks hauling sand from hoe at Borrows A, B and C. D6D pushing horizontal lifts and IR100 packing without vibration. At 3 pm, lift elevation is approximately 1144.75 m. (Top of Dam 1151.5 m and 1st GCL lift key is 1141 m.)

Borrows: Borrows A, B and C. D9N pushing sand.

Emergency Spillway: No work

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: 966 loader and six tandem trucks. 46.5 hours, 51 loads.

Dome Creek Flow: Weir at 16 l/sec.

Equipment: Two rock trucks in operating condition. IR100 (#1) operating.

Weather: -2°C low. High of 8°C, cloudy, very light drizzle in afternoon.

Distribution:
- *BYG Resources Ltd, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Saturday September 14, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Upstream slope fill. Two rock trucks hauling sand from hoe at Borrow B. Sand is SP and SP-SM, grey with good moisture content. D6D pushing horizontal lifts and IR100 packing. At 3 pm, lift elevation is approximately 1146.0 m (yesterday 1144.75 m or 1.26 m fill added, Top of Dam 1151.5 m and 1st GCL lift key is 1141 m).

Borrows: Borrow B. D9N pushing sand.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: 966 loader and six tandem trucks. 47 truck hours, 49 loads. D6D leveling pile at Emergency Spillway.

Dome Creek Flow: Weir at 16 l/sec.

Equipment: Two rock trucks in operating condition.

Weather: 2°C low, cloudy light rain overnight and into morning. High of 7°C, with afternoon showers from 3 pm.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Sunday September 15, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Upstream slope fill. Two rock trucks hauling sand from hoe at Borrow C. Sand is SP and SP-SM with good moisture content. D6D pushing horizontal lifts and IR100 packing. Before noon, IR100 packer down. One lift placed after, uncompacted. Approximately 200 to 300 mm of shale being placed across upstream slope (Ketza count of 27 rock truck loads). At 2 pm, lift elevation is approximately 1147.5 m (yesterday 1146.0 m or 1.5 m fill added, Top of Dam 1151.5 m and 1st GCL lift key is 1141 m).

Borrows

- Borrow C- D9N pushing sand to hoe.
- Shale borrow- D9N stripping and pushing to hoe.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Kando loader and four tandem trucks (30 loads). D6D leveling pile at Emergency Spillway.

Dome Creek Flow: Weir at 20 l/sec.

Equipment: IR100 packer down in late morning. Two rock trucks in operating condition for most of day.

Weather: 2°C low, foggy, cloudy in morning. High of 8°C, cloudy, calm. 3 mm of rain accumulated by 9 am from yesterday.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Monday September 16, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Packer down, no sand fill placed on Dam. Gravel derived from bedrock (shale) hauled to upstream slope.

Borrows: Shale borrow- Approximately 200 m north of Dam 1 north abutment. D9N stripping and pushing to hoe.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Kando loader and four tandem trucks (29 loads). D6D leveling pile at Emergency Spillway.

Equipment: IR100 packer down. Two rock trucks operating in morning.

Weather: 2°C low, foggy in morning.

Klohn-Crippen Consultants Ltd. Representative: Not on site.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Tuesday September 17, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Packer down, no sand fill was to be placed on Dam, however 3.5 hours sand hauled. Gravel derived from bedrock (shale) hauled to upstream slope.

Borrows Shale borrow approximately 200 m north of Dam 1 north abutment. D9N stripping and pushing to hoe.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Kando loader and four tandem trucks (30 loads). D6D leveling pile at Emergency Spillway.

Equipment: IR100 packer down. Two rock trucks operating in morning.

Klohn-Crippen Consultants Ltd. Representative: Not on site.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Wednesday September 18, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Upstream slope fill. Three rock trucks hauling sand. Sand is SP and SP-SM with good moisture content. D6D pushing horizontal lifts and IR100 packing. Borrow locations alternated to provide overall good moisture content of fill.

Borrows:

- Borrow A
- Borrow C
- Emergency Spillway
- Loaded by 245 hoe or 966 loader with D9N pushing.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Kando loader and four tandem trucks (37 loads). Stockpile of Zone 4 rock hauled to ES estimated to be 2070 m^3.

Equipment: 245 hoe down at 9:40 am. Three rock trucks operating.

Weather: -2°C low, calm, light clouds in morning. High of +8°C, cloudy, stiff west wind in afternoon.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Thursday September 19, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- **Upstream slope fill-** Three rock trucks hauling sand from 966 east of ES. Sand is SP and SP-SM with good moisture content. D6D pushing horizontal lifts and IR100 packing. At 9 a.m., lift elevation is approximately 1148.90 m (Top of Dam 1151.5 m and 1st GCL lift key is 1141 m). Ketza had difficulty placing fill to specifications until 2:30 pm. Lifts were too thick and not packed properly. Slope stakes were not being followed, JGM showed TC and CV where upstream slope required cuts or fills.
- **Clay Liner-** Torn in approximately six places at elevation 1149.5 from 18910 N to 18980 N. Liner exposed and covered with GCL patches, 300 mm minimum overlap. The tears appear to have been caused by traffic or perhaps the D6 blade. There is much less than 300 mm of cover (0 to 100 mm) on the liner at this elevation and above.

Borrows:

- Borrow B
- Northeast of ES towards downstream end.

Emergency Spillway

- Some scraping by D9N.
- Causeway of pumphouse is being constructed directly in front of ES intake. VH notified.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Kando loader and four tandem trucks (32 loads).

Dome Creek Flow: Weir at 20 l/sec.

Equipment: Three rock trucks operating most of day.

Weather: -4°C low, cloudy, 25 mm snow overnight and light snow continuing to fall in morning. High of +3°C, sunny, calm, light clouds.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Friday September 20, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Upstream slope fill. Three rock trucks hauling sand from 966 east of ES. Sand is SP and SP-SM with good moisture content. D6D pushing horizontal lifts and IR100 packing. At 11 a.m., lift elevation is approximately 1149.72 m (yesterday 1148.90 m or 0.82 m fill added, Top of Dam 1151.5 m and 1st GCL lift key is 1141 m).

Borrows: East of ES at approximately 300 m downstream of Dam 1 centerline.

Emergency Spillway: Some scraping by D9N.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Loader and four tandem trucks for afternoon only due to bad weather (18 loads).

Dome Creek Flow: Weir at 26 l/sec.

Equipment: Three rock trucks operating.

Weather: -4°C low, cloudy, 25 mm snow overnight and snow continuing to fall until 3:00 pm. High of 2°C, cloudy, calm. Stiff northwest wind all day.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Saturday September 21, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1: Upstream slope fill concentrated towards south half of dam. Three rock trucks hauling sand from 966 east of ES. Sand is SP and SP-SM with good moisture content. D6D pushing horizontal lifts and IR100 packing. In morning Ketza directed to remove top 75 mm of frozen material before placing fill. At 11:30 am, Ketza directed to blade down lift from over 500 mm compacted to specified 250 mm maximum. After poor morning start, compaction was very good.

Borrows: East of ES at approximately 250 m downstream of Dam 1 centerline.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Loader and four tandem trucks (35 loads) essentially completed.

Dome Creek Flow: Weir at 16 l/sec.

Equipment: Three rock trucks operating.

Weather: -6°C low, cloudy, cold and calm in morning. High of 8°C, cloudy, calm. 3 mm of rain accumulated by 9 am from yesterday.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Sunday September 22, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- **Upstream slope fill-** concentrated towards south half of dam. Top of sand elevation of 1151.0 m has been reached from 18950N and further north from yesterday. Top of sand elevation reached in early afternoon for rest of GCL cover. Less than 0.5 m of fill remains on downstream side of centerline at the top of dam. On this east half, sand has been dog dumped across most of the dam. There are at least two piles of sand that have significant organics. Ketza has said they will remove these piles. At 11:45 a.m. a dirty load of sand was dumped near the south upstream side. Ketza was reluctant to remove this material, so it was spread out and mixed with cleaner fill.
- **Downstream slope fill-** An average of 1.4 m of fill remains to be placed on the downstream slope face. This was started in mid-afternoon. The D9N was used to build a trail down from the north side between the natural sand terrace and the north slope of the dam.

Borrows

- East of site, becoming closer to south of temporary diversion ditch waste pile.
- East of site south of above waste pile after above borrow became too dirty.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: Loader and one tandem truck (three loads). This haul was apparently stopped yesterday, but Ketza kept one truck running.

Dome Creek Flow: Weir at 35 l/sec.

Equipment: Three rock trucks operating.

Weather: -5°C low, cloudy, east wind in morning. High of 7°C, cloudy, light breeze in afternoon. No precipitation.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Monday September 23, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- **Upstream slope fill-** completed. Additional shale erosion protection to come.
- **Downstream slope fill-** Fill continuing from approximate elevation of 1139 m. Weather is cold, approximately 50 mm of frozen surface material from yesterday. Light snow cover. Generally, compaction is good.

Borrows- Sand terrace directly north of Dam 2. Sand is SP and SP-SM with about 10% moisture content. As day progressed, borrow moved towards dam and edge of terrace. Material became slightly drier to 9% or -5% of optimum, however compacted densities were satisfactory. The hoe excavated a 5 m deep by 12 m diameter hole directly at the edge of the terrace. This area had been previously graded for positive drainage. Ketza disobeyed my direction in using this borrow. There maybe slope problems with this steep terrace and future dam raises will have to replace some of the material which has been removed.

Emergency Spillway: No work.

Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap: No work, completed.

Dome Creek Flow: Weir at 14 l/sec. Freezing conditions affecting flows. This is a large reduction from yesterday's 35 l/sec.

Equipment: One to two rock trucks operating.

Weather: -8°C low, cloudy in morning. High of 6°C, cloudy, stiff east wind in afternoon. 30 mm of snow last night.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Tuesday September 24, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- **Downstream slope fill-** Fill continuing. Weather is cold, approximately 10 mm of snow and 50 mm of frozen surface material from yesterday. First lift of day was placed on the snow and frozen subgrade. Ketza has been told to scrape of the frozen skin many times before. The frozen subgrade includes the downstream. Two steps of lifts worked simultaneously. This appears to work, although densities are lower where the lifts meet.
- **Upstream Slope Shale-** D9N spread shale in evening.

Borrows

- **Sand terrace between Dam 1 and Dam 2-** Sand is SP and SP-SM with about 9% moisture content. D9N is pushing material from this terrace edge to hoe. The terrace is being further destabilized. Yesterday's hole was backfilled with loose sand pushed in by D9N. Some sand is being pushed over the terrace slope in among the trees. Future dam raises will have to replace some of this material being used for borrow and loose sand backfilled in hole should be removed and replaced to specification. Any future terrace slope problems are the responsibility of Ketza as Klohn-Crippen direction was ignored.
- **Far East of Site-** From late morning, this material (SP and SP-SM) has a moisture content of about 11% and is packing up very well.

Emergency Spillway: No work.

Dome Creek Flow: Weir at 16 l/sec.

Equipment: Two rock trucks operating. 245 hoe was loading in morning, but from noon was moved to near BYG office to pull out two dozers. 966 loader replaced hoe. Hoe remained near BYG office as it became stuck also.

Weather: -9°C low, clear, stiff west wind in morning. High of 4°C, clearing in late in afternoon. 10 mm of snow last night.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Wednesday September 25, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- **Downstream slope fill-** Excess sand fill placed for GCL installation on downstream side being cut into 3.5:1 slope by the D6 and packed by the IR100. No additional sand moved to dam.
- **Upstream Slope Shale-** Placement of gravel shale to upstream slope.

Borrows

- **Shale Borrow-** 200 m north of north abutment.

Emergency Spillway: No work.

Dome Creek Flow: Weir at 20 l/sec.

Equipment: Two rock trucks operating for most of morning, one truck from before 2 pm. 245 hoe remains stuck in front of BYG office.

Weather: -2°C low, cloudy, stiff east wind in morning. High of 8°C, cloudy, east wind continuing in afternoon. No precipitation.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Thursday September 26, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- **Downstream Slope Shale Fill-** Placement of gravel shale beginning with shale road.
- **Upstream Slope Shale-** D9N pushing.

Borrows

- **Shale Borrow-** 200 m north of north abutment.

Emergency Spillway: No work.

Dome Creek Flow: Weir at 11 l/sec.

Equipment: One to two rock trucks operating.

Weather: -8°C low, clear, stiff west wind in morning. +7 °C high, stiff west wind in afternoon. No precipitation.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Friday September 27, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1

- **Downstream slope fill-** Placement of gravel shale continuing.

Borrows

- **Shale Borrow-** 200 m north of north abutment.

Emergency Spillway: No work.

Dome Creek Flow: Weir at 11 l/sec. Dome Creek diversion blocked off with creek water being directed to reservoir.

Equipment: One to two rock trucks operating.

Weather: -8°C low, clear, light clouds in morning. No precipitation.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Monday September 30, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- No work. On the native slope, upstream south abutment, an area from elevation 1151.5 to about 1141 m has been stripped of the moss cover. This area should be covered to prevent excessive thawing.

Emergency Spillway

- D9L ripping and pushing downstream portion to 245 hoe loading mainly one rock truck running short haul ,dumping spoil across dug out portion of top of sand terrace against Klohn-Crippen direction.
- Approximately 75 m^3 of organics remain south of the downstream end of the spillway and organics remain to be stripped at the intersection of Dome Creek with the spillway.

Dome Creek Flow: Weir at 2. l/sec.

Equipment: One rock truck operating for majority of day.

Weather: -10°C low, calm, cloudy in morning. High of -1°C, calm, sunny, light clouds in afternoon. No precipitation.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Tuesday October 1, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- No work.

Emergency Spillway

- Dozer(s) ripping and pushing downstream portion to 245 hoe loading rock truck(s) running short haul ,dumping spoil across dug out portion of top of sand terrace.

Dome Creek Flow: Weir at 1 l/sec.

Equipment: One rock truck, 245 hoe, D9L for first part of morning. Two rock trucks and two dozers, D9L and D9N pushing to hoe in later morning. Two trucks have resulted in 180% increase in volume/time moved over one truck.

Weather: -10°C low, calm, cloudy in morning. No precipitation.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Wednesday October 2, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- No work. Logan and Chris surveying volumes.

Emergency Spillway

- Dozer(s) ripping and pushing downstream portion to 245 hoe loading rock truck(s) running short haul ,dumping spoil across dug out portion of top of sand terrace.
- Surveyed and cuts shown at 50 m stations from 50 m downstream of 20550 m E.

Dome Creek Flow: Weir at 1 l/sec.

Equipment: Two rock trucks: D250 and D300, 245 hoe, D9L with ripper and D9N with damaged nonfunctional ripper.

Weather: -10°C low, cloudy, light north wind in morning. High of -4°C cloudy and calm in early afternoon cooling off later. Snow from 11:30 am and increasing as day progresses with north wind picking up, storming by 6 p.m. Weather advisory in affect, 100 mm of snow forecast.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Wednesday October 09, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Dam 1- No work.

Emergency Spillway

- No work completed. Discussions with Ted Crabtree re. clean-up required in E.S. prior to liner placement. Options for inlet approach also discussed.

Dome Creek Flow: Creek frozen, no measurement.

Equipment: The 245 hoe was down for the day with repairs to one track. Remainder of equipment was inactive.

Weather: -12°C low, calm, cloudy in morning. High of -3°C, in afternoon. Light flurries by late afternoon.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

Daily Field Report Thursday October 10, 1996
Mt. Nansen Tailings Facility ConstructionPM5314.300(B)

Dam 1- No work.

Emergency Spillway

- Worked at narrowing E.S. channel from 50m to 75m downstream of centreline; intent is to shore this section (south face) with 'shale' armour.
- Slopes cleared of unsuitable materials (e.g. large pieces), and raked to prep. for filter cloth.
- Completed riprap placement at confluence of E.S. outfall and Dome Creek. Shoring of opposite bank completed using 'shale' riprap.

Dome Creek Flow: Creek frozen, no measurement.

Equipment: The 245 hoe was down for the day with repairs required for one track. D6D Cat dozer worked at clearing snow from, and shaping base of, E.S. 966 loader cleared snow, moved sand onto final causeway, and loading riprap for E.S. D250 Cat truck hauled sand for causeway and riprap for E.S.

Weather: -8°C low, calm, cloudy in morning changing to partly cloudy by midday. High of -1°C, in afternoon. No precipitation.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Friday October 11, 1996
Mt. Nansen Tailings Facility ConstructionPM5314.300(B)

Dam 1- No work.

Emergency Spillway

- Completed filling bottom of E.S. with 'Johnson's' riprap fill by placing approximately 400mm onto the existing 'shale' material placed the previous day. Total thickness of material in this area is approximately 1.0m (max.).
- Began placement of filter fabric (Terrafix 600R) onto the native sand sub-grade, with about 0.5 to 0.6m overlap.
- Riprap was end-dumped onto the filter fabric and spread by the D6D Cat dozer. The haul truck occasionally backed onto the filter fabric while dumping, but there was no sign of any damage to the fabric.
- By mid-afternoon the riprap placement reached a point along the spillway which had not been cleared of snow and unsuitable materials, so this was attended to by the D6D Cat. Side slopes were raked.
- International truck hauled 'shale' to south slope near 50m stake to raise and armour slope.
- By day's end, approximately 75m to 100m of filter fabric/riprap placed.

Dome Creek Flow: Creek frozen, no measurement.

Permanent Causeway: Two to three loads placed in early morning by D250 truck.

Temporary Causeway: D250 truck hauled 'shale' to end of causeway and D6D spread the material.

Equipment: D6D Cat dozer worked at spreading riprap on filter fabric (Terrafix 600R) in the E.S. 966 loader moved sand onto final causeway at beginning of day, but spent most of the day loading riprap for E.S. D250 Cat truck hauled sand for causeway and riprap for E.S. The 245 hoe was down for the day with repairs required for one track.

Weather: Very light flurries in the early morning, -6°C low, calm. High of -3°C in the afternoon, cloudy most of the day with late afternoon clearing.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Saturday October 12, 1996
Mt. Nansen Tailings Facility ConstructionPM5314.300(B)

Dam 1- No work.

Emergency Spillway

- Continued placement of filter fabric (Terrafix 600R) onto the native sand sub-grade, with about 0.5 to 0.6m overlap between adjacent filter fabric pieces.
- Riprap was end-dumped onto the filter fabric and spread by the D6D Cat dozer, and hauled by the D250 rock truck all day, and by the D300 rock truck part of the day.
- By day's end, filter fabric/riprap had been placed up to stake, 50m downstream of dam centreline.

Dome Creek Flow: Creek frozen, no measurement.

Permanent Causeway: D250, International dump (morning only), and D300 hauled 'shale' to end of causeway during latter half of the morning and last half hour of the day.

Temporary Causeway: Some sand moved in the early morning.

Equipment: D6D Cat dozer worked at spreading riprap on filter fabric (Terrafix 600R) in the E.S., and armouring south slope of E.S. near 50m stake. 966 Cat loaded 'shale' for permanent causeway and loaded riprap for E.S. D250 Cat truck hauled 'shale' for causeway and riprap for E.S. International dump hauled 'shale' in morning. D300 Cat truck hauled 'shale in the morning and afternoon, and riprap in the afternoon. The 245 hoe utilized in the afternoon, loading riprap. 988 Cat was down for the day with repairs.

Weather: Mostly cloudy in the morning, calm, low of -6°C. High of 0°C in the afternoon, cloudy, breezy, with late afternoon clearing.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Monday October 14, 1996
Mt. Nansen Tailings Facility ConstructionPM5314.300(B)

Emergency Spillway

- D9N dozer and 245 hoe worked at ripping and removing native sand from the spillway near the north abutment.
- Survey required to achieve final grade for spillway invert, and proper centreline.

Dome Creek Flow: Creek frozen, no measurement.

Permanent Causeway: D250 and D300 hauled 'shale' to end of causeway during the morning, and afternoon, and D9N leveled the material. 245 hoe installed the power pole by driving it into the fill, and placing and packing more 'shale' around it.

Equipment: Cat 966 loaded 'shale' for permanent causeway (P.C.) and loaded sand from the E.S. area. Cat D250 and D300 trucks hauled 'shale' for causeway. The 245 excavated sand from E.S. D9N ripped and moved sand to excavate E.S. mouth area, also leveled material on P.C., and ripped 'shale' to increase stockpile.

Weather: Light flurries overnight, low of -8°C. Mostly cloudy in the morning, calm. High of 0°C in the afternoon, partly cloudy, breezy.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Tuesday October 15, 1996
Mt. Nansen Tailings Facility ConstructionPM5314.300(B)

Emergency Spillway

- D9N dozer worked at ripping 'shale' material and preparing a stockpile for haulage and placement on Oct 16, 1996, to E.S. and north abutment area.
- Surveyed E.S. mouth/throat area to determine final cut/fill measurements, position of centreline, and slope grade.
- Drawings of dam and spillway revised and reviewed.

Dome Creek Flow: Creek frozen, no measurement.

Permanent Causeway: Surveyed as-built causeway.

Equipment: D9N ripped 'shale' to increase stockpile.

Weather: Snow overnight, low of -12°C. Mostly cloudy in the morning, calm. Clear in the afternoon, high of -9°C.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Wednesday October 16, 1996
Mt. Nansen Tailings Facility ConstructionPM5314.300(B)

Emergency Spillway

- Native sand ripped and removed from abutment/mouth area.
- Began excavation to tie E.S. in with diversion channel.

Dome Creek Flow: Creek frozen, no measurement.

Reclaim Causeway: No work done.

Equipment: D9N and Cat 245 hoe worked at excavating native sand.

Weather: Very light flurries overnight, low of -13°C. Mostly cloudy in the morning, calm. Clear in the afternoon, high of -9°C.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Thursday October 17, 1996
Mt. Nansen Tailings Facility ConstructionPM5314.300(B)

Emergency Spillway

- Native sand removal from abutment/mouth area completed.
- Continued excavation to tie E.S. in with diversion channel. Most native sand had been removed by days end. Approximately two hours of ripping and excavation work remains.
- Placed final 10m of filter fabric and riprap in spillway.
- Placed approximately 110 loads of 'shale' to armour spillway mouth and north abutment.

Dome Creek Flow: Creek frozen, no measurement.

Reclaim Causeway: No work done.

Equipment: D9N and worked at excavating native sand from spillway, and spreading material. 245 hoe loaded 'shale' hauled by D250 and D300 rock trucks. 966 loader placed riprap on spillway and transported remaining filter fabric rolls to a designated storage area.

Weather: Clear overnight, low of -13°C. Clear during the day, high of -6°C.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Daily Field Report Friday October 18, 1996
Mt. Nansen Tailings Facility ConstructionPM5314.300(B)

Emergency Spillway

- Completed excavation to tie E.S. in with diversion channel and placed shale armour.
- Placed approximately 30 loads of 'shale' to complete armour in spillway mouth and north abutment.
- Carried out survey in morning and early afternoon to help Ketza achieve its final grade.
- Final grade within 150 mm of design grade.

Dome Creek Flow: Creek frozen, no measurement.

Reclaim Causeway: No work done.

Equipment: D9N and worked at excavating native sand from spillway, and spreading material. 245 hoe loaded and spread 'shale' hauled by D250 and D300 rock trucks.

Weather: Snow and blowing snow overnight, low of -10°C. Cloudy during the day, high of -6°C.

Distribution:

- *BYG Resources Ltd, Mount Nansen*
- *Ketza Construction, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

APPENDIX IV

Weekly Reports

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KLOHN-CRIPPEN

Weekly Construction Report #1
(week ending May 17, 1996)
Mt. Nansen Gold Project - Tailings Dam Construction

Introduction
Klohn-Crippen began supervision of the tailings dam work on Saturday May 11, 1996. To date the work completed included; diversion and access work carried out in the previous year, some borrow development for the access road, stripping at the creek borrow and borrow stripping for the dam at Borrows B & C. The contractor was 90 % mobilized and work was underway for geosynthetic material supply and the mobilization of the screening plant.

Access Development
From May 11 - 14 site access was constructed from the access road to borrows B & C and to the waste area north of the temporary diversion. On May 14th, 12 meters of 900mm culvert were placed in Dome Creek at the borrow crossing. These culverts will be removed later in the project when they are no longer required.

Screening Operations
On May 11th material was hauled from Victoria Creek to the old bone yard. Some work was carried out with the small dozer to level the bone yard for stockpile and screening operations. However, after 1 day of hauling material to the bone yard, it became evident that this would be both costly and difficult for the project schedule. It was decided that the screening plant should be set up at the borrow site to optimize operations. The contractor was instructed to take precautions from contaminating the creek with oils and silts. A plastic line and berm were used by the contractor under the generating plant with the contingency of oil spill swab materials available on site. The gravel operations were restricted to elevation above creek level and a berm is maintained between the creek and the borrow area. The screening plant arrived on site on May 13th. From May 14th to 17th, the screening plant was set up. On May 17th screening of Zone 2 materials began.

Stripping
Stripping was carried out for borrows A and D and for the diversion. Materials were hauled to the waste area north of the temporary diversion. This work was carried out from May 14th to 16th.

Diversion Excavation
Diversion excavation began on May 15th. The diversion is located primarily in permafrost. Excavation required ripping the permafrost with the D9H dozer. The ripping was carried out from May 15th to 17th. On the 17th the trucks were used to haul permafrost from the diversion to the waste area.

STRIPING

KLOHN-CRIPPEN

Weekly Construction Report #2
(week ending May 24, 1996)
Mt. Nansen Gold Project - Tailings Dam Construction

Introduction
For the week of May 18th to 24th work focused on the diversion excavation. The 18th to 20th were taken off by the crew for the Victoria Day long weekend. A 3 man crew remained to screen zone 2 armour materials for the diversion. Work proceeded with a full crew on Tuesday May 21st. Weather was favorable for construction with night-time temperatures down to -2 to -4 degrees centigrade and daytime temperatures up to 10 degrees centigrade.

John McKay of Klohn-Crippen arrived on site to begin materials testing on Wednesday night. The lab trailer was set up on Thursday by BYG. BYG directors were on site during the later part of the week during which they visited the dam site.

Access Development
No improvements were made to access this week. Weather was generally favorable and road conditions seemed to improve with time.

Screening Operations
From Saturday May 18th to Monday May 21st screening operations were carried out in the Victoria Cr. Borrow to produce zone 2 armour. This material was stockpiled on site with the intention of hauling it to place when the diversion is ready. The stockpile was designated for diversion armouring. Additional material will be screened once the diversion material is removed and more room for stockpile becomes available. Some material was removed from the stockpile on the 22nd for use as concrete aggregate at the mill site.

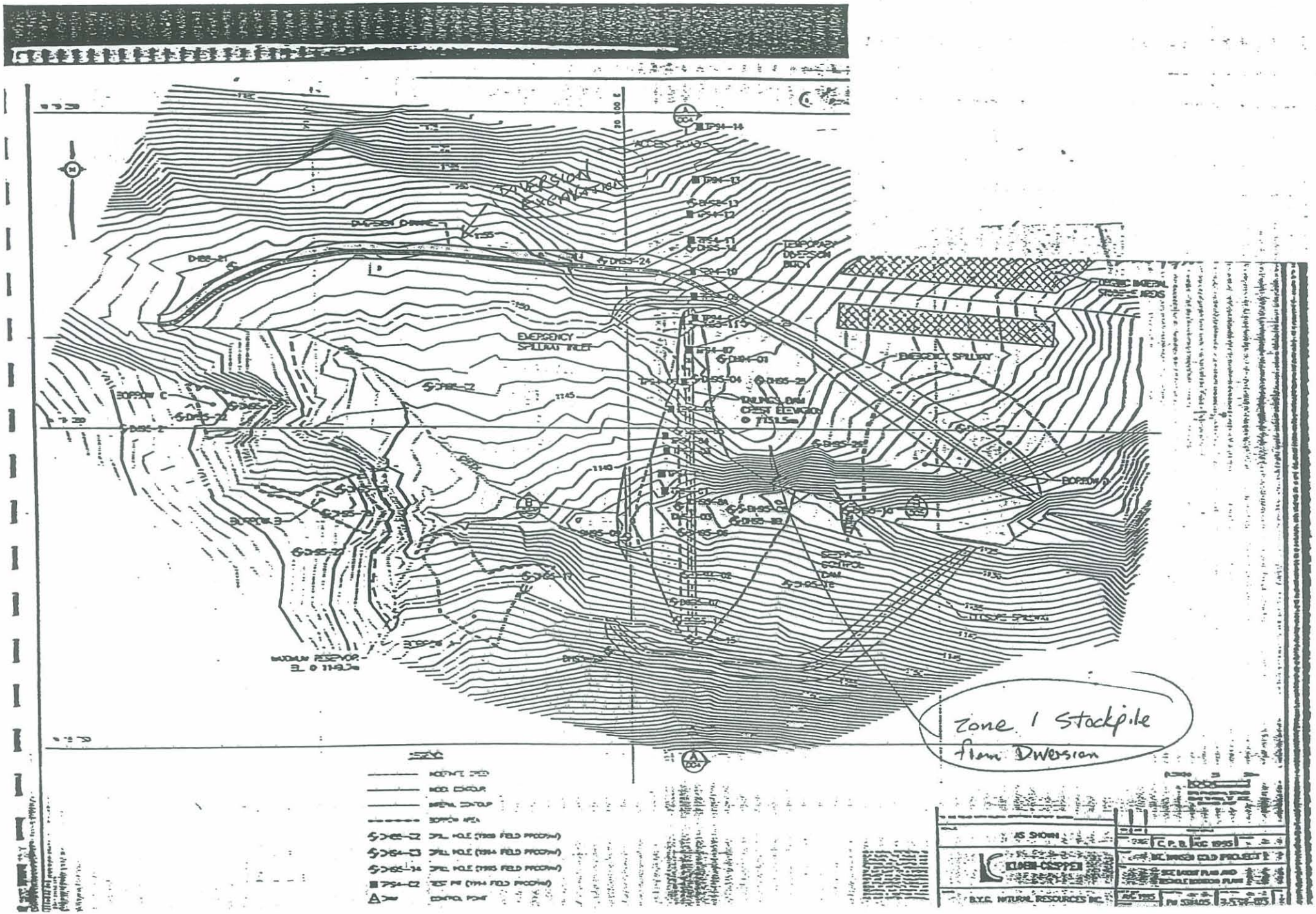
Stripping
No stripping was carried out this week

Diversion Excavation
Diversion excavation work proceeded throughout the week. Work began with ripping organics and silts which were then loaded and hauled to the waste area. As construction proceeded toward centerline the excavation was founded in clean sand which was approved for dam construction Zone 1. This material was hauled to stockpile on the north abutment downstream of the dam location. Ripping has been required continuously for diversion excavation since the schedule will not allow thawing sufficient time.

Instrumentation
Weir readings were taken in Dome Creek on a daily basis by Klohn-Crippen. Dome Creek flows were calculated at about 14 l/s for the week.

Soil Testing
Soil testing began on Thursday May 23rd. A proctor test was carried out for the sand in the diversion excavation. One additional grain size test was carried out for the zone 2 stockpile.

Attachments:
Area Plan
Daily Equipment hour sheets for May 18th to May 24th.
Daily Equipment hour sheet revisions for May 15th to 17th for labour hours missed in week 1.


Zone 1 Stockpile
from Diversion

KLOHN-CRIPPEN

Weekly Construction Report #3
(week ending May 31, 1996)
Mt. Nansen Gold Project - Tailings Dam Construction

Introduction
During the week of May 25th to 31st the excavation diversion was completed and Zone 2 armouring of the channel was begun. The first of three loads of bentofix arrived on Monday May 27th. A night shift for the D9H was begun on the 27th to get ahead on the borrow development. To date this work had been falling behind because of the extensive ripping required on day shift for the diversion excavation. Weather was favorable for construction with night-time temperatures down to about -2 degrees centigrade and daytime temperatures up to about 15 degrees centigrade.

Tony Pollock of DIAND was on site on Thursday May 30th.

Access Development
Access was developed along the diversion canal berm during excavation. This was done with silt and sand not suitable for dam construction. This road facilitates construction haul along the diversion.

Screening Operations
No screening was done this week since sufficient quantities of zone 2 armour are available to complete the channel. The screening plant remained in place for additional screening of zone 2 material required later for the spillway and downstream face of the dam. Some screened material was removed from the stockpile this week for use at the mill site.

Stripping
Stripping silt overburden and organics from borrows A, B, and C was carried out on night shift with the D9H. This task was required to develop thawing of the borrows and is required periodically to maximize thawing prior to dam construction.

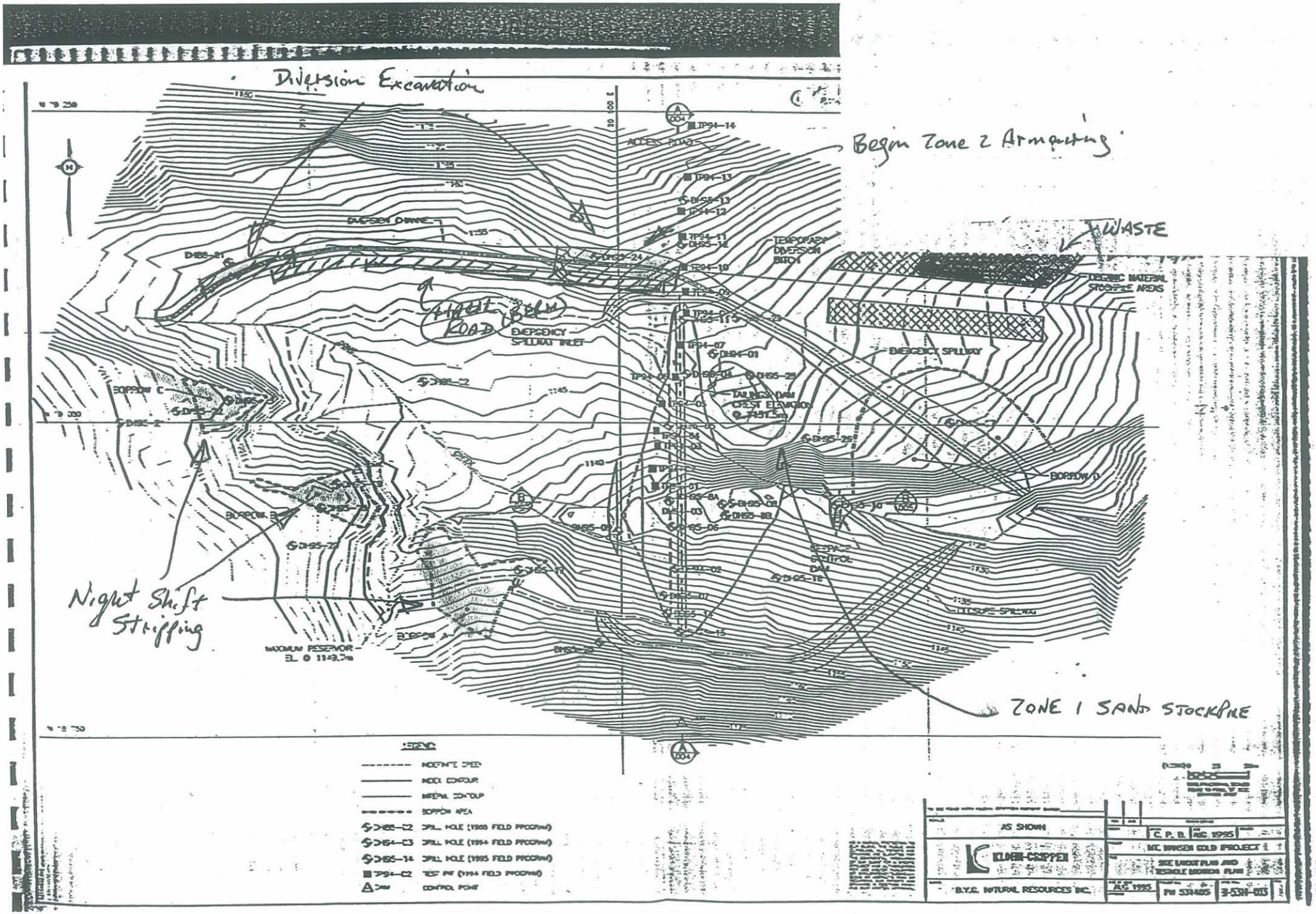
Diversion Excavation
Diversion excavation work proceeded throughout the week primarily in the large sand cut near the dam centerline. Clean sand material was hauled to stockpile on the north abutment of the dam. Ripping was required continuously during excavation of the diversion. Work became especially difficult ripping the narrow bottom of the diversion.

Instrumentation
Weir readings were taken in Dome Creek on a daily basis by Klohn-Crippen. Dome Creek flows dropped from about 7 l/s to about 1 l/s during the week. Thermister readings

were taken on Saturday May 25th. Readings indicate that temperatures are continuing to rise near surface.

Soil Testing
Materials testing for armour and zone 1 construction material. Testing included proctor tests, grain size, and moisture tests.

Attachments:
Area Plan
Daily Equipment hour sheets for May 25th to May 31st.
Daily Equipment hour sheet revisions for May 22nd for labour hours missed in week 2.


Diversion Excavation
Begin Zone 2 Armouring
WASTE
Night Shift Stripping
ZONE 1 SAND STOCKPILE
DIVERSION DIKE
ACCESS ROAD
EMERGENCY SPILLWAY INLET
EMERGENCY SPILLWAY
TEMPORARY DIVERSION DIKE 1
TAILINGS DAM CREST ELEVATION
BORROW C
BORROW D
BORROW A
BORROW B
MAXIMUM RESERVOIR EL. 0
SECONDARY SPILLWAY DAM
TAILINGS SPILLWAY
ORGANIC MATERIAL STOCKPILE AREAS
AS SHOWN
KLONDEX-CASSIAR
B.Y.G. NATURAL RESOURCES INC.
MT. SKINSKIN GOLD PROJECT

KLOHN-CRIPPEN

Weekly Construction Report #4
(week ending June 7, 1996)
Mt. Nansen Gold Project - Tailings Dam Construction

Introduction

During the week of June 1st to 7th the diversion was completed including Zone 2 armouring of the permanent channel and C125 Erosion Mat placement in the temporary channel. Dome Creek was diverted into the channel on Friday June 7th. The 2nd and 3rd loads of bentofix arrived on Monday June 3rd and Friday June 7th. Screening operations began on Sunday June 2nd and continued through the week. Night shift continued this week with the D9H stripping borrows early in the week and ripping frozen gravel for screening later in the week. The 245 excavator was also put on night shift on Tuesday June 4th for the rest of the week to strip the steep face of the borrows where the dozer could not work. Heavy rains fell on site on Saturday June 1st however work continued with only minor difficulties. Weather was favorable for the remainder of the week with night-time temperatures down to about -2 degrees centigrade and daytime temperatures up to about 15 degrees centigrade.

Ketza Construction began a 4 day weekend for part of the crew on Friday June 7th. A crew remained behind to complete screening operations, divert the creek, and repair equipment including a major repair on the 245 excavator.

Narish Prasad, mines inspector for the Yukon Workers Compensation Board was on site Friday June 7th.

Access Development

Access development continued along the diversion canal berm during excavation. Some work was done during stripping operations to develop access between borrows A, B, and C.

Screening Operations

Screening began on Sunday June 2nd and continued all week. Some difficulty was experienced in finding additional source material required. Although we anticipated having to move the screening plant, additional sources were found along the uphill slope of the pit and in the floor. Material in the floor was frozen and had to be ripped with the D9H on day and night shift. Reclamation began with the D9H on day shift in the areas of the pit which were completed. Some screened material was removed from the stockpile this week for use at the mill site.

Stripping

Stripping of silt overburden and organics from borrows A, B, and C continued this week on night shift with the D9H at the beginning of the week and the 245 excavator later in

the week. The excavator was able to strip the steep faces of the borrow near the creek not accessible by the D9H.

Diversion Excavation

Diversion excavation work proceeded throughout the week finishing the large sand cut near the dam centerline and then shaping the channel prior to armour placement. Armour placement continued through the week. Survey control was improvised on site with equipment and personnel available since not site surveyor was available on site to date. On Friday June 7th at 1 p.m. Dome Creek was diverted using the 245 excavator.

Instrumentation

Weir readings were taken in Dome Creek on a daily basis by Klohn-Crippen. Dome Creek flows rose to over 140 l/s on Saturday during the heavy rain. Flows actually exceeded the capacity of the weir at that time. Flows dropped during the week to a low of about 3 l/s on Friday June 7th. Thermister readings were taken on Saturday June 7th. Readings indicate that temperatures are continuing to rise near surface.

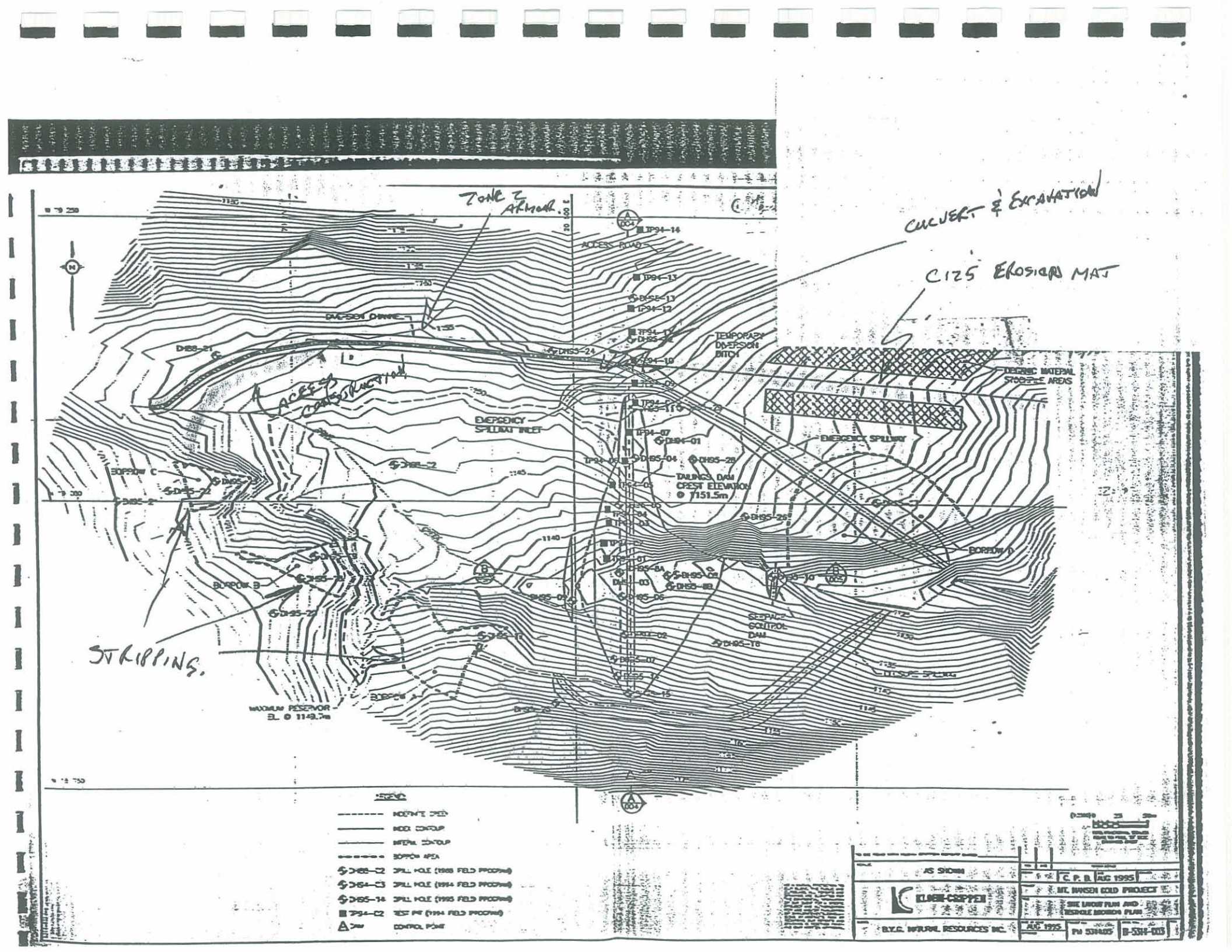
Soil Testing

Two grain size tests were carried out this week. John Mckay spent much of his time with channel survey and contractor supervision during the week.

Attachments:

Area Plan

Daily Equipment hour sheets for June 1st to June 7th.


ZONE 2 ARMOR.
CULVERT & EXCAVATION
C125 EROSION MAT
ACCESS ROAD
ACCESS CONSTRUCTION
STRIPPING.
DIVERSION DITCH
ACCESS ROAD
TEMPORARY DIVERSION DITCH
EMERGENCY SPILLWAY INLET
EMERGENCY SPILLWAY
TAILINGS DAM CREST ELEVATION @ 1151.5m
BORROW C
BORROW B
BORROW A
SEEPAGE COLLECTOR DAM
MAXIMUM RESERVOIR EL. @ 1149.7m
DEGRADE SPILLWAY
DEGRADE MATERIAL STOCKPILE AREAS
AS SHOWN
KLOHN-CROPPER
B.C. MINERAL RESOURCES INC.
C. P. B.
AUG 1995
MT. MANSON GOLD PROJECT
SITE LAYOUT PLAN AND BOREHOLE LOCATION PLAN
AUG 1995
PM 5304.05
B-SSH-003

KLOHN-CRIPPEN

Summary Field Report June 8 to 15, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.504

Construction Works

- **Stripping-** Area south of temporary diversion ditch and upstream reservoir borrow areas (for thaw) by D9.
- **Temporary Diversion Ditch-** Dome creek diversion flows required repair of coconut mat and subgrade.
- **Dam Foundation-** June 11 began stripping of organics (approximately 0.3 to 0.6 m) and immediate placement of SM-SP sand from stockpile east of dam centerline, the organics are stockpiled on the north side of temporary diversion ditch. Since June 11, Ketza has been asked to apply water and compaction to meet specifications, however, this was not done. A memo was issued on June 15, 1996 and work stoppage was threatened unless compaction specifications were achieved.
- **Screening at Victoria Creek-** Screening 3"minus gravel took place to accumulate approximately 3000 m^3. From June 9, the screening plant was dismantled and shipped off site.

Quality Assurance

- Observations of dam foundation and pad fill placement.
- Perform grain size on Sample 7 (SP sand) from dam pad at centerline at elevation 1133.5 m.

Instrumentation

Dome Creek weir readings in l/sec:

8-Jun-96	3
9-Jun-96	2
10-Jun-96	4
11-Jun-96	10
12-Jun-96	4
13-Jun-96	8
14-Jun-96	5
15-Jun-96	2

Norm Eenkooren extended thermistors.

THERMISTOR READINGS in degrees Celcius

Drill hole	Thermistor #	Depth (m)	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96
DH95-04	1	1.0	2.0	-	-	-	3.1
DH95-04	2	2.0	-1.1	-	-	-	-
DH95-04	3	3.0	-1.7	-	-	-	-

DH95-04	4	5.0	-1.7	-	-	-	-1.6
DH95-04	5	7.5	-1.2	-	-	-	-1.2
DH95-04	6	10.0	-0.7	-	-	-	-0.8
DH95-04	10	10.5	-0.7	-	-	-	-0.7
DH95-04	7	15.0	-0.5	-	-	-	-0.5
DH95-04	9	15.5	-0.5	-	-	-	-0.5
DH95-04	8	20.0	-0.4	-	-	-	-0.4
DH95-05	10	0.5	-	-	-	-	3.7
DH95-05	1	1.0	-	-	-	-	0.5
DH95-05	2	2.0	-	-	-	-	-0.2
DH95-05	3	3.0	-	-	-	-	-0.5
DH95-05	4	5.0	-	-	-	-	-0.5
DH95-05	9	5.5	-	-	-	-	-0.4
DH95-05	5	7.5	-	-	-	-	-0.4
DH95-05	6	10.0	-	-	-	-	-0.4
DH95-05	8	10.5	-	-	-	-	-0.3
DH95-05	7	15.0	-	-	-	-	-0.3
DH95-06	7	0.5	-	-	-	-	-
DH95-06	1	1.0	-	-	-0.8	-	-0.7
DH95-06	2	2.0	-	-	-1.5	-	-1.4
DH95-06	3	3.0	-	-	-1.8	-	-1.7
DH95-06	4	5.0	-	-	-1.8	-	-1.7
DH95-06	6	5.5	-	-	-1.6	-	-1.6
DH95-06	5	7.5	-	-	-1.3	-	-1.3
DH95-08B	7	0.3	-	-	-	-	-
DH95-08B	1	0.8	-	-	-0.5	-	-0.4
DH95-08B	2	1.8	-	-	-1.0	-	-0.9
DH95-08B	3	2.8	-	-	-1.1	-	-1.0
DH95-08B	4	4.8	-	-	-1.2	-	-1.1
DH95-08B	6	5.3	-	-	-1.1	-	-1.1
DH95-08B	5	7.3	-	-	-	-	-
DH95-09	7	0.4	-	-	-	-	-
DH95-09	1	0.9	-	-	-	-0.5	-0.5
DH95-09	2	1.9	-	-	-	-0.8	-0.7
DH95-09	3	2.9	-	-	-	-0.8	-0.8
DH95-09	4	4.9	-	-	-	-0.8	-0.8
DH95-09	6	5.4	-	-	-	-0.9	-0.9
DH95-09	5	7.4	-	-	-	-0.9	-0.9
DH95-10	8	-0.1	-	10.3	-	-	19.5
DH95-10	1	1.3	-	-1.2	-	-	-1.1
DH95-10	2	2.3	-	-1.8	-	-	-1.7
DH95-10	3	3.3	-	-2.0	-	-	-1.9
DH95-10	7	4.7	-	-2.1	-	-	-2.0
DH95-10	9	4.9	-	-2.1	-	-	-2.0

DH95-10	4	5.2	-	-1.9	-	-	-1.8
DH95-10	5	7.7	-	-1.6	-	-	-1.6
DH95-10	10	9.6	-	-1.3	-	-	-1.3
DH95-10	6	9.9	-	-1.1	-	-	-1.1

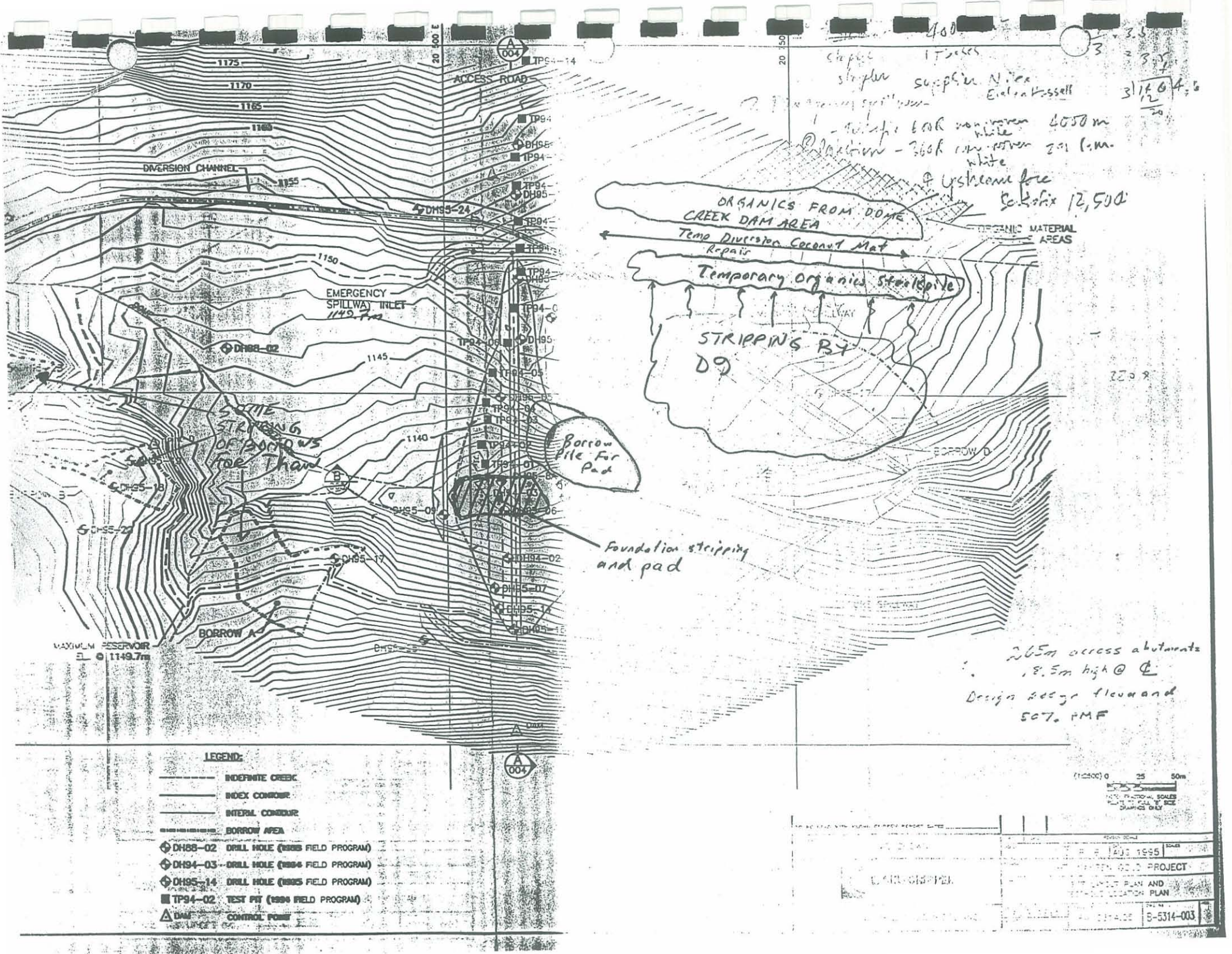
General

From June 8 to June 10 only screening operations were underway. Most of Ketza crew had days off, and major 245 hoe repair was underway.

Weather

Generally overnight lows below freezing and warm dry days except for heavy rain on June 10, 1996 and isolated light rains on June 12 and 13.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.


ACCESS ROAD
DIVERSION CHANNEL
EMERGENCY SPILLWAY INLET
1149.7m
MAXIMUM RESERVOIR EL. 1149.7m
BORROW A
Some stripping of Borrows for Dam
Borrow Pile For Pad
Foundation stripping and pad
ORGANICS FROM DOME CREEK DAM AREA
Temp Diversion Coconut Mat Repair
Temporary Organics Stockpile
STRIPPING BY D9
ORGANIC MATERIAL AREAS
BORROW D
LEGEND:
INDEFINITE CREEK
INDEX CONTOUR
INTERM. CONTOUR
BORROW AREA
DH88-02 DRILL HOLE (1988 FIELD PROGRAM)
DH94-03 DRILL HOLE (1994 FIELD PROGRAM)
DH95-14 DRILL HOLE (1995 FIELD PROGRAM)
TP94-02 TEST PIT (1994 FIELD PROGRAM)
CONTROL POINT
AUG 1995
PROJECT
PLAN AND
PLAN
5-5314-003

KLOHN-CRIPPEN

Summary Field Report June 16 to 23, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Stripping-** Area south of temporary diversion ditch and upstream reservoir borrow areas (for thaw) by D9. Occasional removal of blacks from North Abutment as exposed blacks thaw. Blacks are hauled to the north side of the temporary diversion ditch.
- **Temporary Diversion Ditch-** Dome creek diversion was rerouted back to Dam area near start of diversion ditch. After the temporary berm overflowed several times, a culvert, which could be blocked off, was installed. This area with the culvert at the beginning of the diversion ditch was realigned and armoured with 3"+ riprap. Temporary diversion ditch (east of dam centerline) still required some hand placed angular gravel.
- **Dam Foundation-** Continue stripping as needed and placing fill in dam pad area. Fill of pad stopped from 15:00 on June 16 and all day on June 17, 1996 until existing fill was watered and packed (approximately 0.75 m not directly packed but this was necessary as cover to reduce thaw of subgrade. This lower fill is moisture conditioned by infiltrating water and compaction vibrations from upper lifts). Compaction specifications being met. A temporary berm was made at upstream end of dam footprint to store water for dam fill. Some initial problems with this berm. Berm has an overflow where water is directed upslope and south of the pad.

Equipment for dam fill includes: Ingersoll-Rand vibratory smooth drum packer, water pump and hose to spray water on pad, 2 rock trucks hauling sand and removing blacks on their return trip, hoe stripping base and immediately filling with about 0.75 m of dry sand.

Instrumentation

Dome Creek weir readings in l/sec:

17-Jun-96	3.7
18-Jun-96	2.4
19-Jun-96	3.3
20-Jun-96	5.4
21-Jun-96	3.7
22-Jun-96	2.4

Thermistor Readings

See attached table.

General

- Milos Stepanek (Geo-Engineering) and Bud McAlpine (Indian and Northern Affairs Canada) on site June 16 and again on June 21. First trip coincided with pad being placed with no water or compaction. Second trip was better with compaction specifications being met as situation was corrected.
- Days off from June 23 to 24, 1996 for Ketza Crew.

Weather

Generally overnight lows above freezing and highs above 20 °C, generally dry with isolated light short rains if any.

Distribution
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.

PM 5314

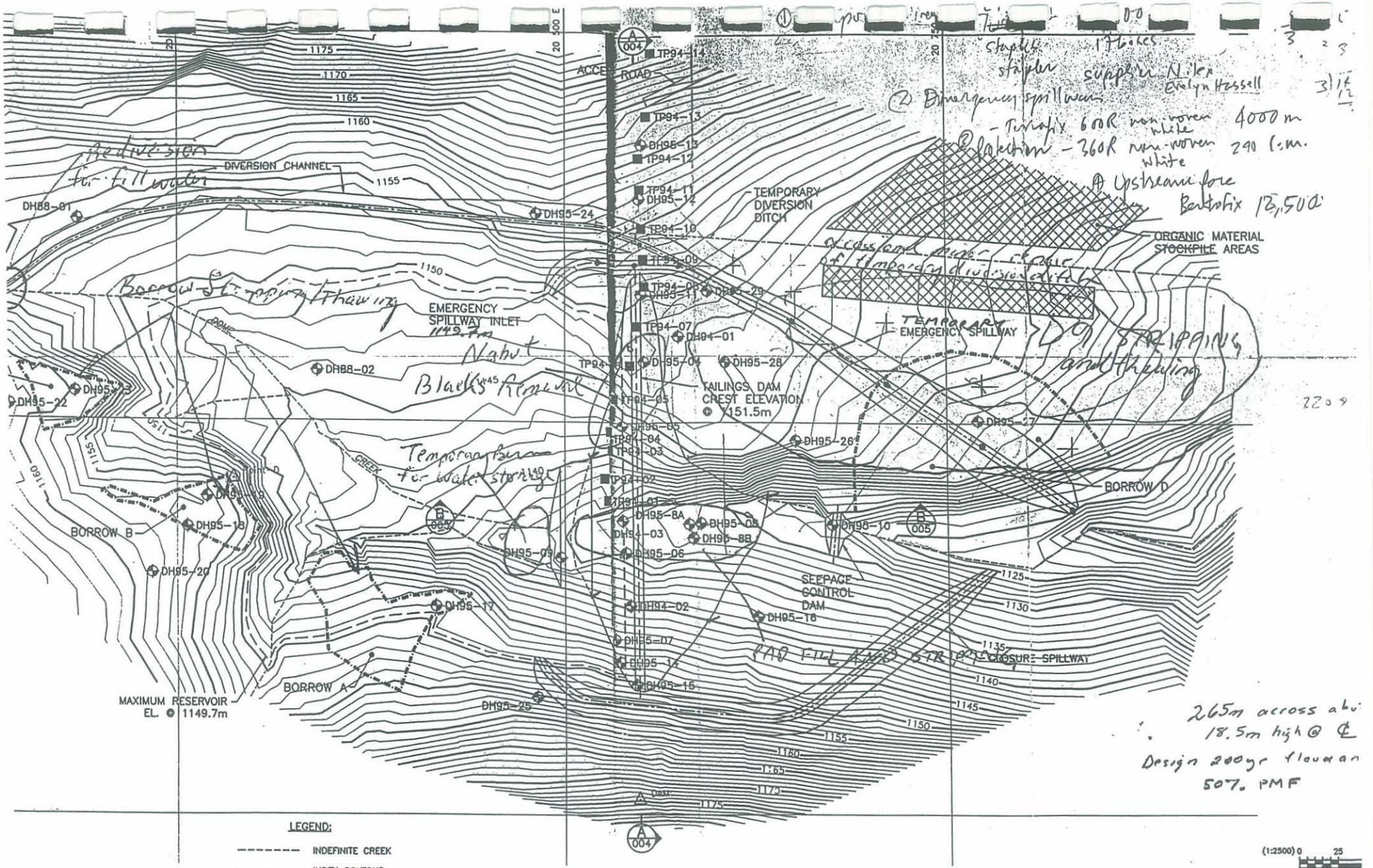
THERMISTOR READINGS (°C)

MT. NANSEN GOLD MINE

Drill hole	Point	Depth (m)	21-Jun-95	22-Jun-95	23-Jun-95	25-Jun-95	26-Jun-95	28-Jun-95	29-Jun-95	30-Jun-95	1-Jul-95	2-Jul-95	18-Jul-95	29-Jul-95	9-Aug-95	3-Sep-95	10-Sep-95	18-Sep-95	25-Oct-95	5-Jan-96
DH95-04	1	1.0										10.7	3.9	5.0	4.9	4.1	3.9	3.5	0.2	-5.5
DH95-04	2	2.0										7.2	-0.2	0.1	0.3	0.7	0.7	0.8	0.2	-1.2
DH95-04	3	3.0										4.2	-0.6	-0.5	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1
DH95-04	4	5.0										0.8	-0.8	-0.7	-0.6	-0.5	-0.5	-0.5	-0.4	-0.5
DH95-04	5	7.5										1.0	-0.7	-0.7	-0.6	-0.6	-0.6	-0.5	-0.5	-0.4
DH95-04	6	10.0										0.0	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	10	10.5										0.0	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4
DH95-04	7	15.0										0.0	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5
DH95-04	9	15.5										-0.1	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5
DH95-04	8	20.0										0.0	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	10	0.5							3.6	3.9	4.3	4.6	6.7	5.6	6.0	4.8	4.7	3.9	0.2	-3.6
DH95-05	1	1.0							0.7	0.7	0.8	0.9	2.3	2.5	2.6	2.5	2.5	2.3	0.1	-1.3
DH95-05	2	2.0							0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
DH95-05	3	3.0							0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
DH95-05	4	5.0							0.0	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
DH95-05	9	5.5							0.0	0.0	0.0	0.3	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1
DH95-05	5	7.5							-0.1	-0.1	-0.1	0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	6	10.0							-0.1	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	8	10.5							0.0	0.0	0.0	0.0	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
DH95-05	7	15.0							-0.2	-0.2	-0.2	0.0	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-06	7	0.5	4.1	7.4	0.3	0.1	0.2	0.3		0.5		0.5	1.6	1.3	2.2	1.8	2.3	1.2	0.0	
DH95-06	1	1.0	4.2	5.3	0.1	0.0	0.0	0.0		0.0		0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.8
DH95-06	2	2.0	3.4	2.9	0.0	-0.1	0.0	-0.1		0.0		0.0	-0.1	-0.3	-0.4	-0.4	-0.4	-0.4	-0.5	-0.4
DH95-06	3	3.0	3.7	0.0	0.0	-0.1	0.0	0.0		0.0		0.0	0.0	0.0	0.0	-0.2	-0.3	-0.5	-0.7	-0.6
DH95-06	4	5.0	2.5	-0.1	0.0	-0.1	-0.1	0.0		-0.1		0.0	-0.9	-1.0	-0.1	-1.0	-0.9	-0.9	-0.9	-0.9
DH95-06	6	5.5	2.6	0.0	0.0	0.0	0.0	0.0		0.0		0.1	-0.7	-1.0	-0.1	-1.0	-0.9	-1.0	-0.9	-0.8
DH95-06	5	7.5	3.6	0.3	0.0	-0.1	0.0	-0.1		0.0		0.0	-0.1	-0.2	-0.5	-0.8	-0.9	-0.9	-1.0	-0.9
DH95-08B	7	0.3					4.9	4.5		7.1		7.2	7.8	6.0	6.4	4.0	5.5	3.1	-0.7	
DH95-08B	1	0.8					0.0	0.0		0.0		0.1	1.0	1.3	1.7	1.9	1.9	1.6	0.0	-0.7
DH95-08B	2	1.8					0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
DH95-08B	3	2.8					0.0	0.0		0.0		0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
DH95-08B	4	4.8					-0.1	-0.1		-0.1		-0.1	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-08B	6	5.3					0.0	0.0		0.0		0.2	-0.1	-0.3	-0.5	-0.5	-0.5	-0.5	-0.5	-0.6
DH95-08B	5	7.3																		
DH95-09	7	0.4					2.7		3.7	4.4	4.7	4.8	6.5	5.0	5.6	4.3	4.3	2.8	0.0	-1.9
DH95-09	1	0.9					-0.1		-0.1	0.0	0.0	0.1	0.7	1.0	1.4	1.5	1.5	1.3	-0.1	-0.2
DH95-09	2	1.9					-0.1		-0.1	-0.1	-0.1	0.0	-0.2	-0.2	0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-09	3	2.9					0.0		0.0	0.0	0.0	0.0	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-09	4	4.9					-0.1		-0.1	-0.1	-0.1	-0.1	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-09	6	5.4					-0.2		-0.2	-0.2	-0.2	-0.1	-0.6	-0.6	-0.6	-0.6	-0.6	-0.4	-0.6	-0.6
DH95-09	5	7.4					-0.2		-0.2	-0.2	-0.2	-0.2	-0.7	-0.7	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8
DH95-10	8	-0.1						17.0		9.9		8.5	11.6	13.7	16.0	11.6	9.6	14.0	-0.5	-11.5
DH95-10	1	1.3						2.5		-0.3		0.1	-0.7	-0.6	-0.6	-0.5	-0.4	-0.4	-0.3	-1.1
DH95-10	2	2.3						2.7		-0.9		-1.2	-1.1	-1.0	-0.9	-0.8	-0.7	-0.7	-0.6	-0.7
DH95-10	3	3.3						2.3		-0.9		-1.3	-1.3	-1.2	-1.2	-1.0	-1.0	-0.9	-0.8	-0.7
DH95-10	7	4.7						6.3		-0.3		-1.4	-1.5	-1.5	-1.4	-1.3	-1.2	-1.2	-1.1	-0.9
DH95-10	9	4.9						9.0		-0.1		-1.1	-1.5	-1.4	-1.4	-1.2	-1.2	-1.2	-1.0	-0.8
DH95-10	4	5.2						3.2		-1.1		-1.2	-1.4	-1.3	-1.2	-1.1	-1.1	-1.0	-0.9	-0.8
DH95-10	5	7.7						1.9		-1.3		-1.2	-1.4	-1.4	-1.3	-1.3	-1.3	-1.2	-1.2	-1.0
DH95-10	10	9.6						5.7		-0.1		-0.7	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.0
DH95-10	6	9.9						4.3		0.1		-0.6	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-0.9

PM 5314 THE]

Drill hole	Point	Depth (m)	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96
DH95-04	1	1.0	-1.4	-0.5	0.0		2.0				3.1	4.0	6.5
DH95-04	2	2.0	-2.4	-1.8	-1.4		-1.1					-0.6	-0.2
DH95-04	3	3.0	-2.5	-2.1	-1.9		-1.7					-1.4	-1.1
DH95-04	4	5.0	-1.9	-1.8	-1.8		-1.7				-1.6	-1.6	-1.4
DH95-04	5	7.5	-1.1	-1.2	-1.2		-1.2				-1.2	-1.2	-1.2
DH95-04	6	10.0	-0.6	-0.7	-0.7		-0.7				-0.8	-0.8	-0.8
DH95-04	10	10.5	-0.6	-0.6	-0.6		-0.7				-0.7	-0.7	-0.7
DH95-04	7	15.0	-0.4	-0.4	-0.4		-0.5				-0.5	-0.5	-0.5
DH95-04	9	15.5	-0.5	-0.5	-0.5		-0.5				-0.5	-0.5	-0.5
DH95-04	8	20.0	-0.4	-0.4	-0.4		-0.4				-0.4	-0.4	-0.4
DH95-05	10	0.5	0.0	1.4		3.4					3.7	4.6	7.1
DH95-05	1	1.0	-0.5	-0.3		-0.1					0.5	0.9	2.2
DH95-05	2	2.0	-0.6	-0.4		-0.3					-0.2	-0.2	-0.2
DH95-05	3	3.0	-0.8	-0.6		-0.5					-0.5	-0.4	-0.4
DH95-05	4	5.0	-0.6	-0.6		-0.5					-0.5	-0.5	-0.5
DH95-05	9	5.5	-0.5	-0.5		-0.5					-0.4	-0.4	-0.4
DH95-05	5	7.5	-0.4	-0.4		-0.5					-0.4	-0.4	-0.4
DH95-05	6	10.0	-0.3	-0.3		-0.4					-0.4	-0.4	-0.4
DH95-05	8	10.5	-0.2	-0.2		-0.3					-0.3	-0.3	-0.3
DH95-05	7	15.0	-0.3	-0.3		-0.3					-0.3	-0.3	-0.3
DH95-06	7	0.5											1.9
DH95-06	1	1.0	-1.5	-1.1	-0.8				-0.8		-0.7	-0.6	-0.5
DH95-06	2	2.0	-2.3	-1.9	-1.6				-1.5		-1.4	-1.3	-1.2
DH95-06	3	3.0	-2.4	-2.1	-1.9				-1.8		-1.7	-1.7	-1.6
DH95-06	4	5.0	-1.8	-1.8	-1.7				-1.8		-1.7	-1.7	-1.7
DH95-06	6	5.5	-1.6	-1.6	-1.6				-1.6		-1.6	-1.6	-1.6
DH95-06	5	7.5	-1.2	-1.2	-1.2				-1.3		-1.3	-1.3	-1.3
DH95-08B	7	0.3											
DH95-08B	1	0.8	-0.9	-0.6	-0.5				-0.5		-0.4	-0.3	-0.3
DH95-08B	2	1.8	-1.4	-1.2	-1.0				-1.0		-0.9	-0.9	-0.8
DH95-08B	3	2.8	-1.4	-1.2	-1.1				-1.1		-1.0	-1.0	-1.0
DH95-08B	4	4.8	-1.2	-1.1	-1.1				-1.2		-1.1	-1.1	-1.1
DH95-08B	6	5.3	-1.0	-1.0	-1.0				-1.1		-1.1	-1.0	-1.0
DH95-08B	5	7.3											
DH95-09	7	0.4											2.5
DH95-09	1	0.9	-0.7	-0.5	-0.5					-0.5	-0.5	-0.5	-0.4
DH95-09	2	1.9	-0.9	-0.8	-0.7					-0.8	-0.7	-0.7	-0.7
DH95-09	3	2.9	-0.8	-0.8	-0.7					-0.8	-0.8	-0.8	-0.7
DH95-09	4	4.9	-0.7	-0.7	-0.7					-0.8	-0.8	-0.8	-0.8
DH95-09	6	5.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9
DH95-09	5	7.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9
DH95-10	8	-0.1	0.3	8.0	12.5			10.3			19.5	12.7	16.7
DH95-10	1	1.3	-1.9	-1.5	-1.3			-1.2			-1.1	-1.0	-0.9
DH95-10	2	2.3	-2.6	-2.2	-2.0			-1.8			-1.7	-1.6	-1.5
DH95-10	3	3.3	-2.7	-2.3	-2.2			-2.0			-1.9	-1.9	-1.8
DH95-10	7	4.7	-2.3	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9
DH95-10	9	4.9	-2.4	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9
DH95-10	4	5.2	-2.0	-2.0	-1.9			-1.9			-1.8	-1.8	-1.8
DH95-10	5	7.7	-1.5	-1.6	-1.6			-1.6			-1.6	-1.6	-1.6
DH95-10	10	9.6	-1.2	-1.2	-1.3			-1.3			-1.3	-1.3	-1.4
DH95-10	6	9.9	-1.0	-1.0	-1.1			-1.1			-1.1	-1.1	-1.2



LEGEND:

- INDEFINITE CREEK
- INDEX CONTOUR
- INTERM. CONTOUR
- BORROW AREA
- DH88-02 DRILL HOLE (1988 FIELD PROGRAM)
- DH94-03 DRILL HOLE (1994 FIELD PROGRAM)
- DH95-14 DRILL HOLE (1995 FIELD PROGRAM)
- TP94-02 TEST PIT (1994 FIELD PROGRAM)
- DAM CONTROL POINT

Mt. Nansen Tailings Dam
June 16 to 23, 1996
Site works

(1:2500) 0 25

TO BE READ WITH KLOHN-CRIPPEN REPORT DATED

SCALE: AS SHOWN

KLOHN-CRIPPEN

CLIENT: B.Y.G. NATURAL RESOURCES INC.

DESIGN | DRAWN: C. P. B. | DATE: AUG 1995

PROJECT: MT. NANSEN GOLD PRO

TITLE: SITE LAYOUT PLAN AND TESTHOLE LOCATION PLA

DATE OF ISSUE: AUG 1995 | APPROVED

PROJECT No.: PM 5314.05 | DWG. No.: B-5

AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL

KLOHN-CRIPPEN

Summary Field Report June 24 to 30, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Stripping-** Area south of temporary diversion ditch and upstream reservoir borrow areas (for thaw) by D9. Occasional removal of blacks from North abutment. Blacks are hauled to the north side of the temporary diversion ditch. Haul road area above south dam abutment stripped by D6. Pipeline road stripped north of diversion ditch by Kando.
- **Seepage Dam (Dam 2)-** partially stripped and covered by cat on June 30 (hoe down).
- **Borrows A, B, C-** Occasional working of borrow areas A,B,C. Two sets of culverts installed across borrow areas to allow truck traffic flow.
- **Temporary Diversion Ditch-** no activity
- **Dam Foundation (Dam 1)-** Some minor stripping along south abutment. Some cleanup along upstream edge along access road. First temporary berm moved further upstream and temporary overflow which ran along south side of entire pad had been removed and pad extended. On June 25, six truckloads of angular gravel added to top 400 mm of downstream toe (later survey indicated this toe needs extending by about 8 m). Pad fill continued with pad elevations on June 29 ranging from 1135.8 (US), 1134.5 (CL), to 1133 (DS). Pad fill meets specifications which requires generous application of water. The water infiltrates the sand and has saturated the lower 0.6 m. Pad fill has remained very consistent with SP-SM and SP sand with a trace of angular gravel.

Instrumentation

Dome Creek weir readings in l/sec:

25-Jun-96	3.7
26-Jun-96	1.4
27-Jun-96	2.4
28-Jun-96	2.4
29-Jun-96	1.4
30-Jun-96	1.4

Thermistor Readings

See attached table. Also note horizontal thermistor installed across dam US to DS and thermistors in DHs 95-09, 06 and 8B are extended to downstream slope of dam for readout on June 29.

General

- Days off from June 23 to 24, 1996 for Ketza Crew.
- 245 hoe went down on June 29 with engine problems.

- Volume contract payments on pad fill to begin for Ketza tomorrow. Surveyor on site and shot pad area on June 30 for volume calculations.

Weather

Generally overnight lows above freezing and highs near 20 °C, generally dry except for light rain on June 30. Cooler from June 27 and nearby forest fire caused smoky conditions until June 30.

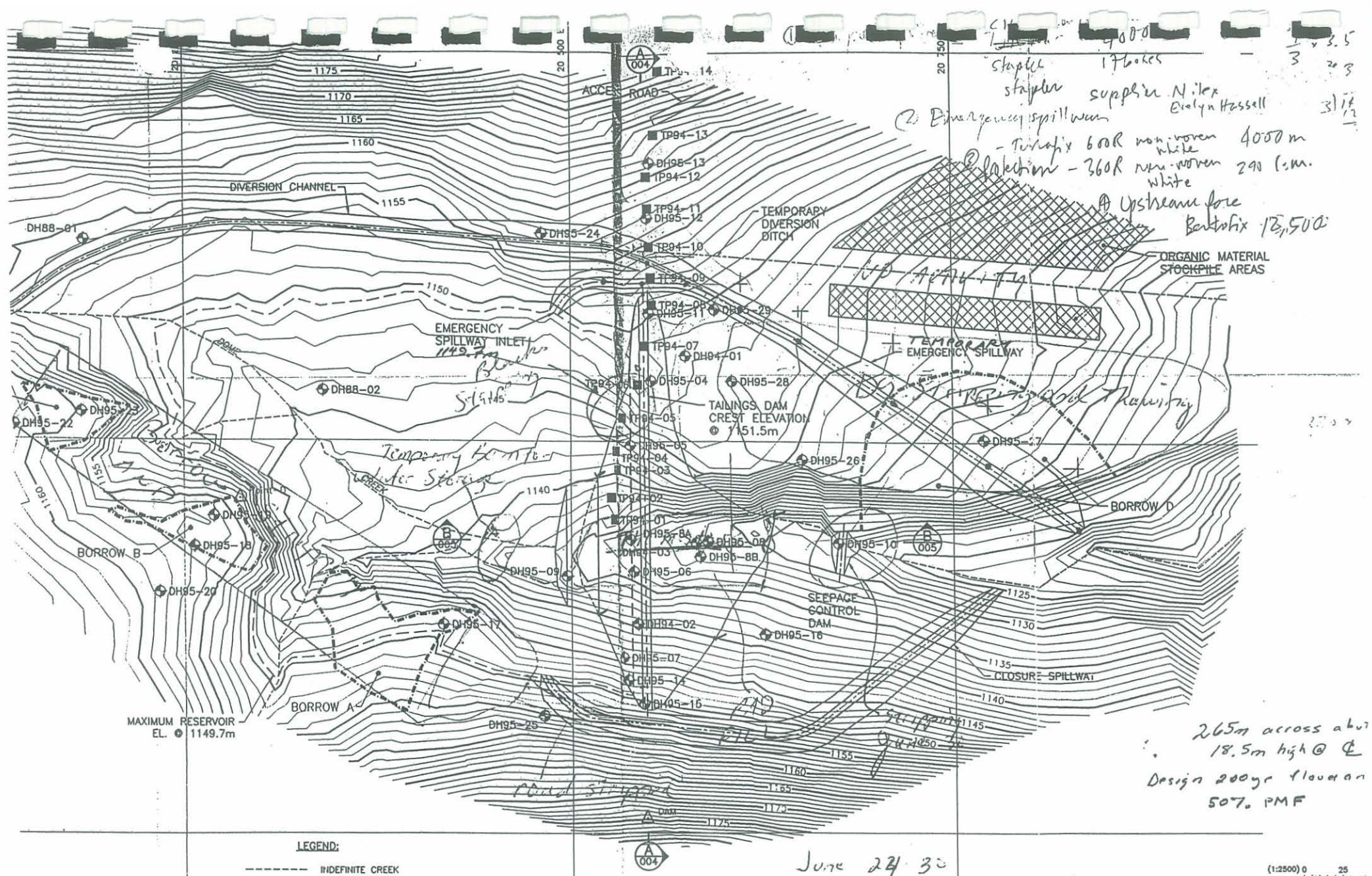
Distribution: *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.*

PM 5314 THERMISTOR 5

Drill hole	Point	Depth (m)	5-Jan-96	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96
DH95-04	1	1.0	-5.5	-1.4	-0.5	0.0		2.0				3.1	4.0	6.5	6.8
DH95-04	2	2.0	-1.2	-2.4	-1.8	-1.4		-1.1					-0.6	-0.2	0.0
DH95-04	3	3.0	-0.1	-2.5	-2.1	-1.9		-1.7					-1.4	-1.1	-1.0
DH95-04	4	5.0	-0.5	-1.9	-1.8	-1.8		-1.7				-1.6	-1.6	-1.4	-1.4
DH95-04	5	7.5	-0.4	-1.1	-1.2	-1.2		-1.2				-1.2	-1.2	-1.2	-1.2
DH95-04	6	10.0	-0.5	-0.6	-0.7	-0.7		-0.7				-0.8	-0.8	-0.8	-0.8
DH95-04	10	10.5	-0.4	-0.6	-0.6	-0.6		-0.7				-0.7	-0.7	-0.7	-0.7
DH95-04	7	15.0	-0.5	-0.4	-0.4	-0.4		-0.5				-0.5	-0.5	-0.5	-0.5
DH95-04	9	15.5	-0.5	-0.5	-0.5	-0.5		-0.5				-0.5	-0.5	-0.5	-0.5
DH95-04	8	20.0	-0.4	-0.4	-0.4	-0.4		-0.4				-0.4	-0.4	-0.4	-0.4
DH95-05	10	0.5	-3.6	0.0	1.4		3.4					3.7	4.6	7.1	6.3
DH95-05	1	1.0	-1.3	-0.5	-0.3		-0.1					0.5	0.9	2.2	2.4
DH95-05	2	2.0	0.0	-0.6	-0.4		-0.3					-0.2	-0.2	-0.2	-0.2
DH95-05	3	3.0	-0.1	-0.8	-0.6		-0.5					-0.5	-0.4	-0.4	-0.4
DH95-05	4	5.0	-0.2	-0.6	-0.6		-0.5					-0.5	-0.5	-0.5	-0.5
DH95-05	9	5.5	-0.1	-0.5	-0.5		-0.5					-0.4	-0.4	-0.4	-0.4
DH95-05	5	7.5	-0.3	-0.4	-0.4		-0.5					-0.4	-0.4	-0.4	-0.4
DH95-05	6	10.0	-0.3	-0.3	-0.3		-0.4					-0.4	-0.4	-0.4	-0.4
DH95-05	8	10.5	-0.2	-0.2	-0.2		-0.3					-0.3	-0.3	-0.3	-0.3
DH95-05	7	15.0	-0.3	-0.3	-0.3		-0.3					-0.3	-0.3	-0.3	-0.3
DH95-06	7	0.5												1.9	
DH95-06	1	1.0	-0.8	-1.5	-1.1	-0.8				-0.8		-0.7	-0.6	-0.5	-0.5
DH95-06	2	2.0	-0.4	-2.3	-1.9	-1.6				-1.5		-1.4	-1.3	-1.2	-1.2
DH95-06	3	3.0	-0.6	-2.4	-2.1	-1.9				-1.8		-1.7	-1.7	-1.6	-1.6
DH95-06	4	5.0	-0.9	-1.8	-1.8	-1.7				-1.8		-1.7	-1.7	-1.7	-1.6
DH95-06	6	5.5	-0.8	-1.6	-1.6	-1.6				-1.6		-1.6	-1.6	-1.6	-1.5
DH95-06	5	7.5	-0.9	-1.2	-1.2	-1.2				-1.3		-1.3	-1.3	-1.3	-1.3
DH95-08B	7	0.3													
DH95-08B	1	0.8	-0.7	-0.9	-0.6	-0.5				-0.5		-0.4	-0.3	-0.3	-0.3
DH95-08B	2	1.8	-0.1	-1.4	-1.2	-1.0				-1.0		-0.9	-0.9	-0.8	-0.8
DH95-08B	3	2.8	-0.2	-1.4	-1.2	-1.1				-1.1		-1.0	-1.0	-1.0	-0.9
DH95-08B	4	4.8	-0.5	-1.2	-1.1	-1.1				-1.2		-1.1	-1.1	-1.1	-1.1
DH95-08B	6	5.3	-0.6	-1.0	-1.0	-1.0				-1.1		-1.1	-1.0	-1.0	-1.0
DH95-08B	5	7.3													
DH95-09	7	0.4	-1.9											2.5	2.3
DH95-09	1	0.9	-0.2	-0.7	-0.5	-0.5					-0.5	-0.5	-0.5	-0.4	-0.4
DH95-09	2	1.9	-0.3	-0.9	-0.8	-0.7					-0.8	-0.7	-0.7	-0.7	-0.7
DH95-09	3	2.9	-0.4	-0.8	-0.8	-0.7					-0.8	-0.8	-0.8	-0.7	-0.7
DH95-09	4	4.9	-0.5	-0.7	-0.7	-0.7					-0.8	-0.8	-0.8	-0.8	-0.8
DH95-09	6	5.4	-0.6	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9
DH95-09	5	7.4	-0.8	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9
DH95-10	8	-0.1	-11.5	0.3	8.0	12.5			10.3			19.5	12.7	16.7	4.9
DH95-10	1	1.3	-1.1	-1.9	-1.5	-1.3			-1.2			-1.1	-1.0	-0.9	-0.9
DH95-10	2	2.3	-0.7	-2.6	-2.2	-2.0			-1.8			-1.7	-1.6	-1.5	-1.4
DH95-10	3	3.3	-0.7	-2.7	-2.3	-2.2			-2.0			-1.9	-1.9	-1.8	-1.7
DH95-10	7	4.7	-0.9	-2.3	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9
DH95-10	9	4.9	-0.8	-2.4	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9
DH95-10	4	5.2	-0.8	-2.0	-2.0	-1.9			-1.9			-1.8	-1.8	-1.8	-1.7
DH95-10	5	7.7	-1.0	-1.5	-1.6	-1.6			-1.6			-1.6	-1.6	-1.6	-1.6
DH95-10	10	9.6	-1.0	-1.2	-1.2	-1.3			-1.3			-1.3	-1.3	-1.4	-1.4
DH95-10	6	9.9	-0.9	-1.0	-1.0	-1.1			-1.1			-1.1	-1.1	-1.2	-1.2

PM 5314 THERMISTORS

Drill hole	Point	Depth (m)	5-Jan-96	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96
DH96-H	1	east													9.3
DH96-H	2	(ds)													10.2
DH96-H	3	↓													9.6
DH96-H	4														9.9
DH96-H	5														9.3
DH96-H	6	(us)													8.6
DH96-H	7	west													7.6



LEGEND:

- INDEFINITE CREEK
- INDEX CONTOUR
- INTERM. CONTOUR
- BORROW AREA
- DH88-02 DRILL HOLE (1988 FIELD PROGRAM)
- DH94-03 DRILL HOLE (1994 FIELD PROGRAM)
- DH95-14 DRILL HOLE (1995 FIELD PROGRAM)
- TP94-02 TEST PIT (1994 FIELD PROGRAM)
- DAM CONTROL POINT

(1:2500) 0 25

NOTE: FRACTIONAL SC RELATE TO FULL "B" DRAWINGS ONLY

AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

TO BE READ WITH KLOHN-CRIPPEN REPORT DATED

SCALE: AS SHOWN	REV.	DATE	REVISION DETAILS
KLOHN-CRIPPEN	DESIGN	DRAWN C. P. B.	DATE AUG 1995
	PROJECT	MT. NANSEN GOLD PRC	
	TITLE	SITE LAYOUT PLAN AND TESTHOLE LOCATION PLA	
CLIENT: B.Y.G. NATURAL RESOURCES INC.	DATE OF ISSUE AUG 1995	PROJECT No. PM 5314.05	DWG. No. B-5
	APPROVED		

KLOHN-CRIPPEN

Summary Field Report July 1 to 7, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Stripping-** D6 cut runoff collection ditch along downstream south edge of dam.
- **Seepage Dam (Dam 2)-** Stripping and covering with sand continuing with D6 on July 1. After initial lift of sand, not much work undertaken until hoe up on July 5.
- **Borrows**
  - On July 1, about 300 mm of angular gravel ('shale') was added to road from Borrow C to mine centerline.
  - Stockpiled sand just downstream of the north abutment not to be used for dam fill as per BYG instructions on July 5.
  - Borrows from A,B,C, and east of dam centerline.
- **Temporary Diversion Ditch-** no activity, condition is mediocre due to runoff.
- **Dam Foundation (Dam 1)**
  - Contract changed from hourly to volumes on July 1. Dam 1 pad was surveyed at the end of June 30.
  - Generally dog dumping base with moisture conditioning as needed. Next morning, the fill is spread thin by the D9 and packed (IR100 smooth drum). New dog dumps only placed on well compacted lift. Fill within specifications, north abutment keyed-in to native gravelly sand.
  - On July 2 both Dam 1 and 2 had extensive washing of compacted sand fill due to runoff from heavy rains overnight. Temporary cofferdam at upstream side almost overtopped. Runoff eroded sand along the south edge of the dam base. The affected areas were completely repaired at Dam 1. Dam 2 was partially repaired. On July 7, Ketza pump caused about half a days fill to wash out.
  - To better control runoff, the south abutment stripping and covering became a priority and was undertaken with late on July 5.

Instrumentation

Dome Creek weir readings in l/sec:

01-Jul-96	6
02-Jul-96	79
03-Jul-96	97
04-Jul-96	57
05-Jul-96	39
06-Jul-96	17
07-Jul-96	23

Thermistor Readings

See attached table.

General

- Mechanical problems with hoe, down from June 29 (16:00) to July 5 and again for part of July 6.
- New IR100 drum drive, smooth drum roller on site July 1.
- New rock truck brought in July 1, but another hauled away on same low bed. Of remaining two trucks, one is experiencing ongoing mechanical problems.
- New Mine Superintendent starting on July 1, Mr. Vince Hunter. Ian Patterson no longer on site.
- Surveyor came on July 6.
- Work progress is related to number of rock trucks (2) and haul distance.

Weather

About 5°C lows. Cooler in early part of week from July 1 up to and including the 3rd with highs below 14°C. July 4th to 7th warmer with highs near 18°C. Heavy rains on Monday July 1 night, some rain over July 2 night-3 morning with cool July 3 day. Isolated thundershower on July 5.

Distribution: *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.*
Mr. Pete Wheeler, Klohn-Crippen Consultants (by fax)

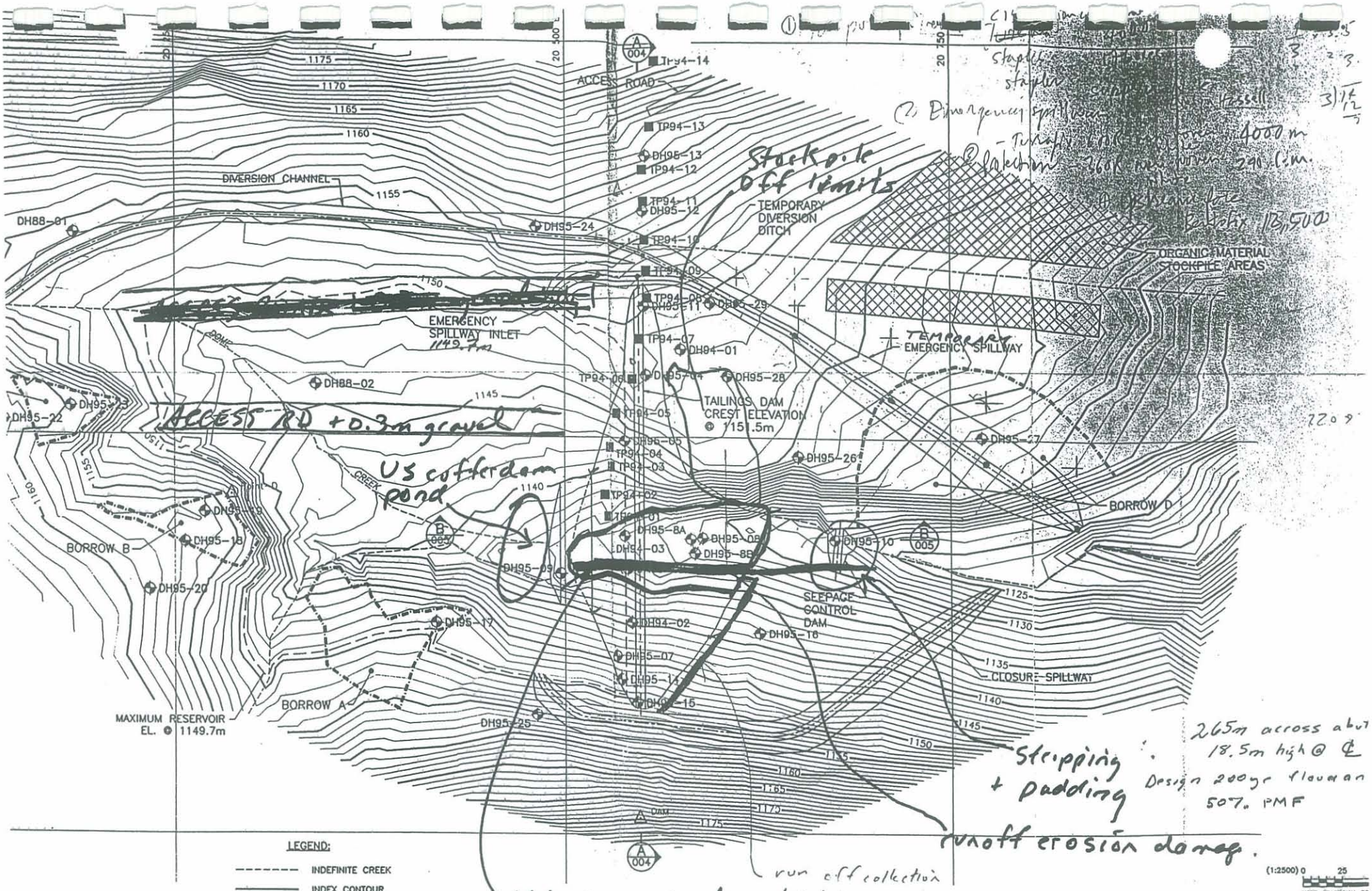
PM 5314

THERMISTOR READINGS

Drill hole	Point	Depth (m)	5-Jan-96	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96
DH95-04	1	1.0	-5.5	-1.4	-0.5	0.0		2.0				3.1	4.0	6.5	6.8	6.5
DH95-04	2	2.0	-1.2	-2.4	-1.8	-1.4		-1.1					-0.6	-0.2	0.0	1.0
DH95-04	3	3.0	-0.1	-2.5	-2.1	-1.9		-1.7					-1.4	-1.1	-1.0	-0.7
DH95-04	4	5.0	-0.5	-1.9	-1.8	-1.8		-1.7				-1.6	-1.6	-1.4	-1.4	-1.2
DH95-04	5	7.5	-0.4	-1.1	-1.2	-1.2		-1.2				-1.2	-1.2	-1.2	-1.2	-1.1
DH95-04	6	10.0	-0.5	-0.6	-0.7	-0.7		-0.7				-0.8	-0.8	-0.8	-0.8	-0.8
DH95-04	7	15.0	-0.5	-0.4	-0.4	-0.4		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	8	20.0	-0.4	-0.4	-0.4	-0.4		-0.4				-0.4	-0.4	-0.4	-0.4	-0.4
DH95-04	9	15.5	-0.5	-0.5	-0.5	-0.5		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	10	10.5	-0.4	-0.6	-0.6	-0.6		-0.7				-0.7	-0.7	-0.7	-0.7	-0.7
DH95-05	1	1.0	-1.3	-0.5	-0.3		-0.1					0.5	0.9	2.2	2.4	2.3
DH95-05	2	2.0	0.0	-0.6	-0.4		-0.3					-0.2	-0.2	-0.2	-0.2	-0.1
DH95-05	3	3.0	-0.1	-0.8	-0.6		-0.5					-0.5	-0.4	-0.4	-0.4	-0.4
DH95-05	4	5.0	-0.2	-0.6	-0.6		-0.5					-0.5	-0.5	-0.5	-0.5	-0.4
DH95-05	5	7.5	-0.3	-0.4	-0.4		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	6	10.0	-0.3	-0.3	-0.3		-0.4					-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	7	15.0	-0.3	-0.3	-0.3		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	8	10.5	-0.2	-0.2	-0.2		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	9	5.5	-0.1	-0.5	-0.5		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	10	0.5	-3.6	0.0	1.4		3.4					3.7	4.6	7.1	6.3	6.2
DH95-06	1	1.0	-0.8	-1.5	-1.1	-0.8				-0.8		-0.7	-0.6	-0.5	-0.5	-0.5
DH95-06	2	2.0	-0.4	-2.3	-1.9	-1.6				-1.5		-1.4	-1.3	-1.2	-1.2	-1.1
DH95-06	3	3.0	-0.6	-2.4	-2.1	-1.9				-1.8		-1.7	-1.7	-1.6	-1.6	-1.5
DH95-06	4	5.0	-0.9	-1.8	-1.8	-1.7				-1.8		-1.7	-1.7	-1.7	-1.6	-1.6
DH95-06	5	7.5	-0.9	-1.2	-1.2	-1.2				-1.3		-1.3	-1.3	-1.3	-1.3	-1.3
DH95-06	6	5.5	-0.8	-1.6	-1.6	-1.6				-1.6		-1.6	-1.6	-1.6	-1.5	-1.5
DH95-06	7	0.5												1.9		
DH95-08B	1	0.8	-0.7	-0.9	-0.6	-0.5				-0.5		-0.4	-0.3	-0.3	-0.3	-0.2
DH95-08B	2	1.8	-0.1	-1.4	-1.2	-1.0				-1.0		-0.9	-0.9	-0.8	-0.8	-0.7
DH95-08B	3	2.8	-0.2	-1.4	-1.2	-1.1				-1.1		-1.0	-1.0	-1.0	-0.9	-0.9
DH95-08B	4	4.8	-0.5	-1.2	-1.1	-1.1				-1.2		-1.1	-1.1	-1.1	-1.1	-1.1
DH95-08B	5	7.3														
DH95-08B	6	5.3	-0.6	-1.0	-1.0	-1.0				-1.1		-1.1	-1.0	-1.0	-1.0	-1.0
DH95-08B	7	0.3														
DH95-09	1	0.9	-0.2	-0.7	-0.5	-0.5					-0.5	-0.5	-0.5	-0.4	-0.4	-0.3
DH95-09	2	1.9	-0.3	-0.9	-0.8	-0.7					-0.8	-0.7	-0.7	-0.7	-0.7	-0.6
DH95-09	3	2.9	-0.4	-0.8	-0.8	-0.7					-0.8	-0.8	-0.8	-0.7	-0.7	-0.6
DH95-09	4	4.9	-0.5	-0.7	-0.7	-0.7					-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
DH95-09	5	7.4	-0.8	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
DH95-09	6	5.4	-0.6	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.8
DH95-09	7	0.4	-1.9											2.5	2.3	1.8
DH95-10	1	1.3	-1.1	-1.9	-1.5	-1.3			-1.2			-1.1	-1.0	-0.9	-0.9	-0.8
DH95-10	2	2.3	-0.7	-2.6	-2.2	-2.0			-1.8			-1.7	-1.6	-1.5	-1.4	-1.3
DH95-10	3	3.3	-0.7	-2.7	-2.3	-2.2			-2.0			-1.9	-1.9	-1.8	-1.7	-1.6
DH95-10	4	5.2	-0.8	-2.0	-2.0	-1.9			-1.9			-1.8	-1.8	-1.8	-1.7	-1.7
DH95-10	5	7.7	-1.0	-1.5	-1.6	-1.6			-1.6			-1.6	-1.6	-1.6	-1.6	-1.6
DH95-10	6	9.9	-0.9	-1.0	-1.0	-1.1			-1.1			-1.1	-1.1	-1.2	-1.2	-1.2
DH95-10	7	4.7	-0.9	-2.3	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8
DH95-10	8	-0.1	-11.5	0.3	8.0	12.5			10.3			19.5	12.7	16.7	4.9	10.1
DH95-10	9	4.9	-0.8	-2.4	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8
DH95-10	10	9.6	-1.0	-1.2	-1.2	-1.3			-1.3			-1.3	-1.3	-1.4	-1.4	-1.4

PM 5314 THERMISTOR READINGS

Drill hole	Point	Depth (m)	5-Jan-96	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96
DH96-H	1	east													9.3	11.3
DH96-H	2	(ds)													10.2	9.4
DH96-H	3	↓													9.6	8.7
DH96-H	4														9.9	8.6
DH96-H	5	▼													9.3	8.1
DH96-H	6	(us)													8.6	7.5
DH96-H	7	west													7.6	5.7



LEGEND:

- INDEFINITE CREEK
- INDEX CONTOUR
- INTERM. CONTOUR
- BORROW AREA
- DH88-02 DRILL HOLE (1988 FIELD PROGRAM)
- DH94-03 DRILL HOLE (1994 FIELD PROGRAM)
- DH95-14 DRILL HOLE (1995 FIELD PROGRAM)
- TP94-02 TEST PIT (1994 FIELD PROGRAM)
- DAM CONTROL POINT

NOTE: FRACTIONAL SC RELATE TO FULL SC DRAWINGS ONLY

AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

TO BE READ WITH KLOHN-CRIPPEN REPORT DATED

SCALE: AS SHOWN

KLOHN-CRIPPEN

CLIENT: B.Y.G. NATURAL RESOURCES INC.

REV.	DATE	REVISION DETAILS
DESIGN	DRAWN C. P. B.	DATE AUG 1995
PROJECT	MT. NANSEN GOLD PRO	
TITLE	SITE LAYOUT PLAN AND TESTHOLE LOCATION PLA	
DATE OF ISSUE AUG 1995	PROJECT No. PM 5314.05	DWG. No. B-53
APPROVED		

PM 5314.3
July 1-7/96
Weekly Summary

KLOHN-CRIPPEN

Summary Field Report July 8 to 14, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

Construction Works

- **Stripping-** Stripping of reservoir borrows A and B. Also north abutment blacks were excavated for 0.5 days. Haul road above upstream side of south abutment stripped further.
- **Seepage Dam (Dam 2)-** No work, runoff and pump discharge have caused significant erosion. Late week rains have increased erosion.
- **Borrows**
  - Stockpiled sand just downstream of the north abutment will be used for dam fill later after using other borrows as per BYG instructions. Wet weather may make access to further borrows difficult later.
  - Borrows from A, B and C and east of dam centerline, and minor amounts on July 8 from stockpile just downstream near north abutment (after BYG authorization).
- **Temporary Diversion Ditch-** no activity, significant rain damage by end of week.
- **Permanent Diversion Ditch-** Significant damage to north sideslope adjacent to mechanics area. This ersosion was caused by deadending of pipeline road when it intersected the main road to the dam.
- **Dam Foundation (Dam 1)**
  - South abutment completely stripped and padded by July 8.
  - Generally dog dumping base with moisture conditioning as needed. Next morning, the fill is spread thin by the D9 and packed (IR100 smooth drum). New dog dumps only placed on well compacted lift. Fill within specifications.
  - Some minor seepage infiltrating top of south abutment pad and saturating fill as well as causing some minor erosion. This was mitigated.

Instrumentation

Dome Creek weir readings in l/sec:

8-Jul-96	9
9-Jul-96	4
10-Jul-96	5
11-Jul-96	8
12-Jul-96	7
13-Jul-96	8
14-Jul-96	39

Thermistor Readings

See attached table.

General

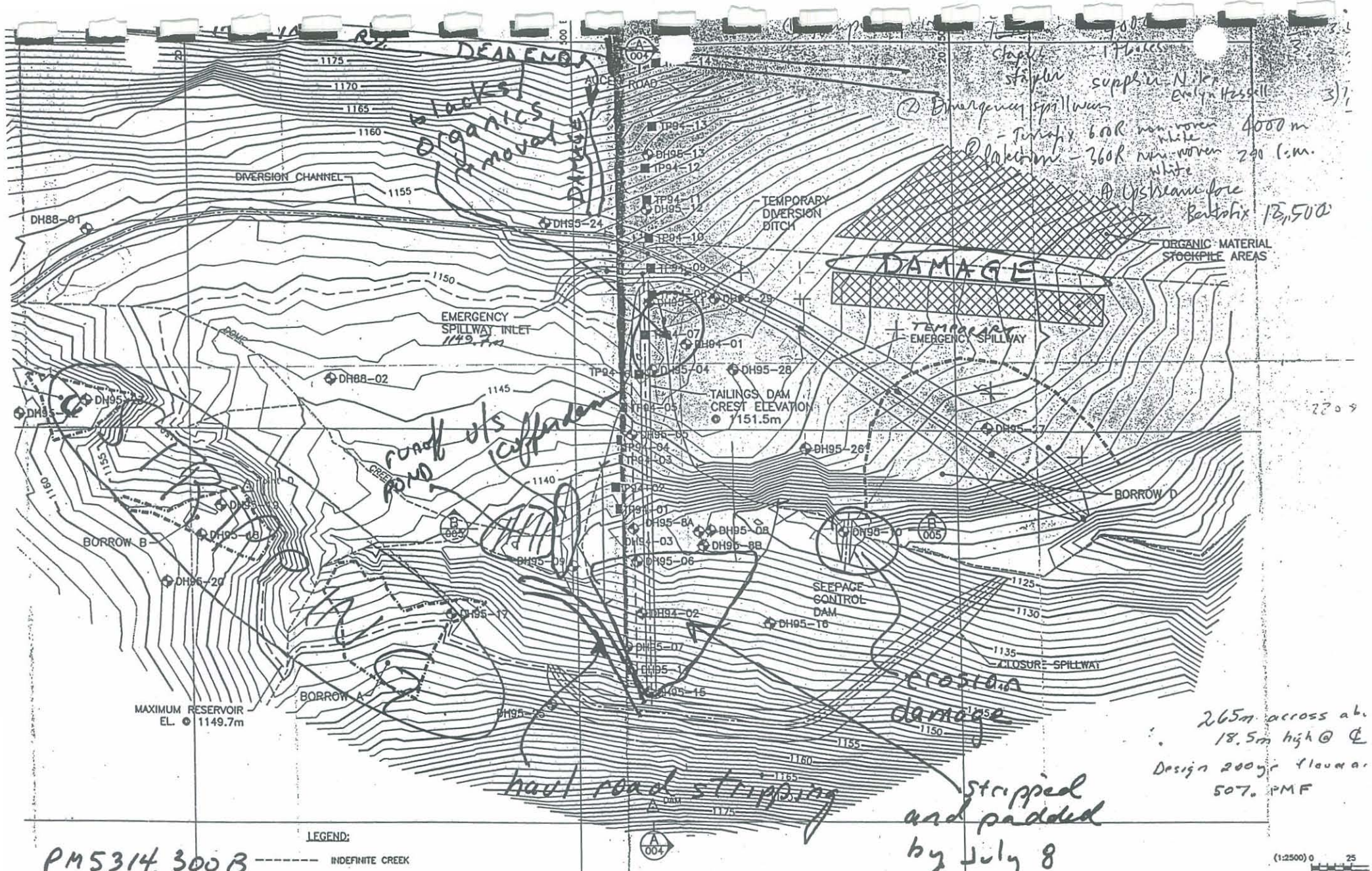
- On July 8, one of two rock trucks went down for later half of day slowing work.

- From July 10 early, D6 down with serious engine problems and removed from site.
- Site meeting between Bob Hinkkuri, Vince Hunter, Ted Crabtree, Chris Verrico and John McKay regarding Ketza hourly charges.
- D9 cat went down on July 12 at midnight. D6 still off-site while being repaired.
- Drilling began on July 14, 1996 and was ongoing to July 14 with Don Philburn's auger nodwell rig.

Weather

About 5°C lows, °C highs. Heavy rain July 9 night, light rain July 10 in morning, heavy rain July 13 night and continuing beyond July 14.

Distribution: *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.*
Mr. Pete Wheeler, Klohn-Crippen Consultants (by fax)



LEGEND:

- INDEFINITE CREEK
- INDEX CONTOUR
- INTERM. CONTOUR
- BORROW AREA
- DH88-02 DRILL HOLE (1988 FIELD PROGRAM)
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- DH95-14 DRILL HOLE (1995 FIELD PROGRAM)
- TP94-02 TEST PIT (1994 FIELD PROGRAM)
- DAM CONTROL POINT

PM5314.300B
Mt. Nansen
Tailings Facility
July 8-14/96

(1:2500) 0 25

NOTE: FRACTIONAL RELATE TO FULL SIZE DRAWINGS

TO BE READ WITH KLOHN-CRIPPEN REPORT DATED

SCALE: AS SHOWN

KLOHN-CRIPPEN

CLIENT: B.Y.G. NATURAL RESOURCES INC.

DESIGN C. P. B. DATE AUG 1995

PROJECT MT. NANSEN GOLD PR

TITLE SITE LAYOUT PLAN AN TESTHOLE LOCATION PL

DATE OF ISSUE AUG 1995

PROJECT No PM 5314.05

DWG B-

PM 5314

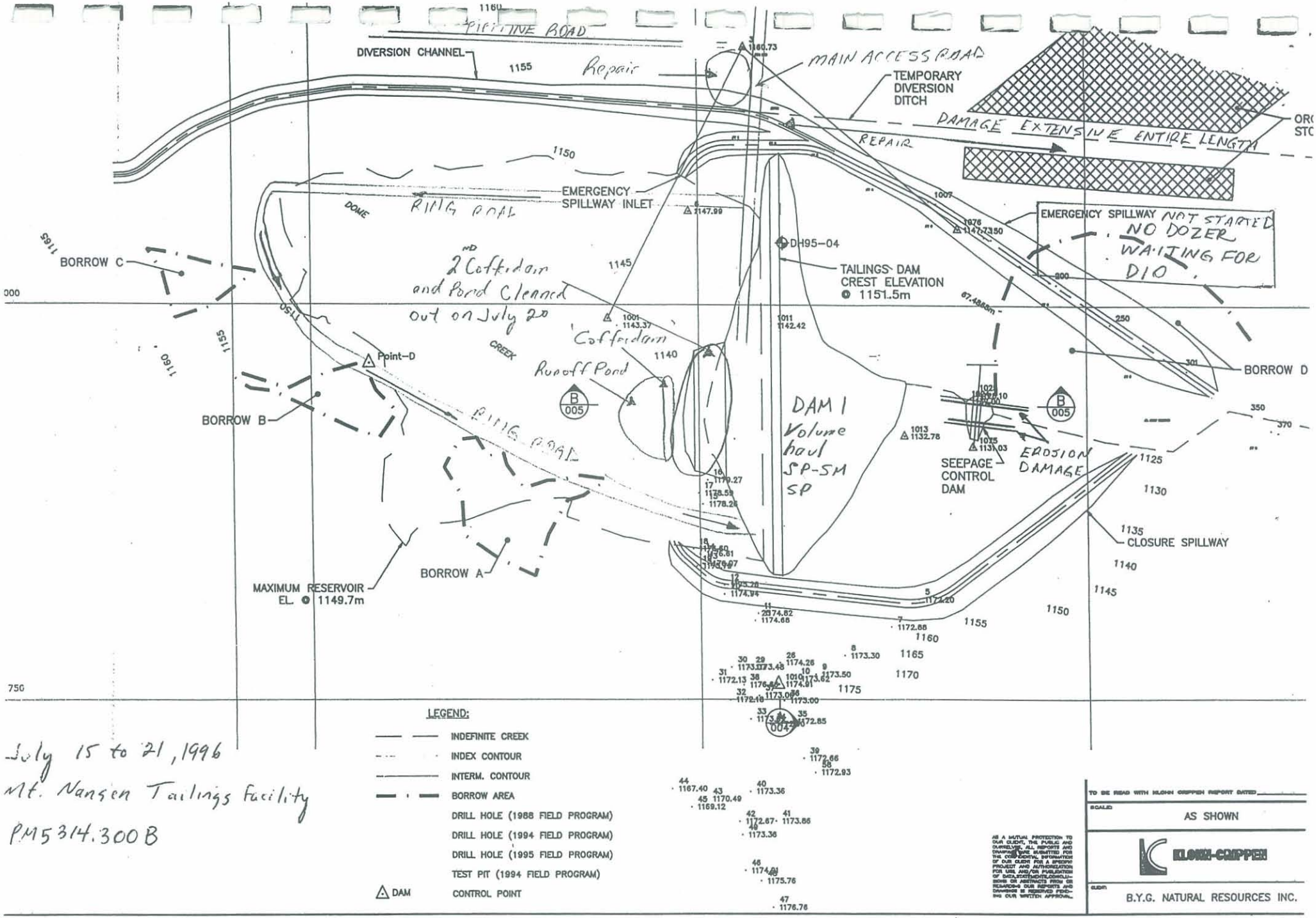
THERMISTORS

Mt. Nansen

Drill hole	Point	Depth (m)	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96	15-Jul-96
DH95-04	1	1.0	-1.4	-0.5	0.0		2.0				3.1	4.0	6.5	6.8	6.5	7.5
DH95-04	2	2.0	-2.4	-1.8	-1.4		-1.1					-0.6	-0.2	0.0	1.0	1.7
DH95-04	3	3.0	-2.5	-2.1	-1.9		-1.7					-1.4	-1.1	-1.0	-0.7	-0.5
DH95-04	4	5.0	-1.9	-1.8	-1.8		-1.7				-1.6	-1.6	-1.4	-1.4	-1.2	-1.1
DH95-04	5	7.5	-1.1	-1.2	-1.2		-1.2				-1.2	-1.2	-1.2	-1.2	-1.1	-1.1
DH95-04	6	10.0	-0.6	-0.7	-0.7		-0.7				-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
DH95-04	10	10.5	-0.6	-0.6	-0.6		-0.7				-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
DH95-04	7	15.0	-0.4	-0.4	-0.4		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	9	15.5	-0.5	-0.5	-0.5		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	8	20.0	-0.4	-0.4	-0.4		-0.4				-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	10	0.5	0.0	1.4		3.4					3.7	4.6	7.1	6.3	6.2	6.9
DH95-05	1	1.0	-0.5	-0.3		-0.1					0.5	0.9	2.2	2.4	2.3	3.2
DH95-05	2	2.0	-0.6	-0.4		-0.3					-0.2	-0.2	-0.2	-0.2	-0.1	-0.1
DH95-05	3	3.0	-0.8	-0.6		-0.5					-0.5	-0.4	-0.4	-0.4	-0.4	-0.3
DH95-05	4	5.0	-0.6	-0.6		-0.5					-0.5	-0.5	-0.5	-0.5	-0.4	-0.4
DH95-05	9	5.5	-0.5	-0.5		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	5	7.5	-0.4	-0.4		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	6	10.0	-0.3	-0.3		-0.4					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	8	10.5	-0.2	-0.2		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	7	15.0	-0.3	-0.3		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-06	7	0.5											1.9			
DH95-06	1	1.0	-1.5	-1.1	-0.8				-0.8		-0.7	-0.6	-0.5	-0.5	-0.5	-0.4
DH95-06	2	2.0	-2.3	-1.9	-1.6				-1.5		-1.4	-1.3	-1.2	-1.2	-1.1	-1.0
DH95-06	3	3.0	-2.4	-2.1	-1.9				-1.8		-1.7	-1.7	-1.6	-1.6	-1.5	-1.4
DH95-06	4	5.0	-1.8	-1.8	-1.7				-1.8		-1.7	-1.7	-1.7	-1.6	-1.6	-1.5
DH95-06	6	5.5	-1.6	-1.6	-1.6				-1.6		-1.6	-1.6	-1.6	-1.5	-1.5	-1.5
DH95-06	5	7.5	-1.2	-1.2	-1.2				-1.3		-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
DH95-08B	7	0.3														
DH95-08B	1	0.8	-0.9	-0.6	-0.5				-0.5		-0.4	-0.3	-0.3	-0.3	-0.2	-0.2
DH95-08B	2	1.8	-1.4	-1.2	-1.0				-1.0		-0.9	-0.9	-0.8	-0.8	-0.7	-0.7
DH95-08B	3	2.8	-1.4	-1.2	-1.1				-1.1		-1.0	-1.0	-1.0	-0.9	-0.9	-0.8
DH95-08B	4	4.8	-1.2	-1.1	-1.1				-1.2		-1.1	-1.1	-1.1	-1.1	-1.1	-1.0
DH95-08B	6	5.3	-1.0	-1.0	-1.0				-1.1		-1.1	-1.0	-1.0	-1.0	-1.0	-1.0
DH95-08B	5	7.3														
DH95-09	7	0.4											2.5	2.3	1.8	2.1
DH95-09	1	0.9	-0.7	-0.5	-0.5					-0.5	-0.5	-0.5	-0.4	-0.4	-0.3	-0.2
DH95-09	2	1.9	-0.9	-0.8	-0.7					-0.8	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6
DH95-09	3	2.9	-0.8	-0.8	-0.7					-0.8	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6
DH95-09	4	4.9	-0.7	-0.7	-0.7					-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
DH95-09	6	5.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.8	-0.8
DH95-09	5	7.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
DH95-10	8	-0.1	0.3	8.0	12.5			10.3			19.5	12.7	16.7	4.9	10.1	5.9
DH95-10	1	1.3	-1.9	-1.5	-1.3			-1.2			-1.1	-1.0	-0.9	-0.9	-0.8	-0.7
DH95-10	2	2.3	-2.6	-2.2	-2.0			-1.8			-1.7	-1.6	-1.5	-1.4	-1.3	-1.2
DH95-10	3	3.3	-2.7	-2.3	-2.2			-2.0			-1.9	-1.9	-1.8	-1.7	-1.6	-1.5
DH95-10	7	4.7	-2.3	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.8
DH95-10	9	4.9	-2.4	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.7
DH95-10	4	5.2	-2.0	-2.0	-1.9			-1.9			-1.8	-1.8	-1.8	-1.7	-1.7	-1.6
DH95-10	5	7.7	-1.5	-1.6	-1.6			-1.6			-1.6	-1.6	-1.6	-1.6	-1.6	-1.6
DH95-10	10	9.6	-1.2	-1.2	-1.3			-1.3			-1.3	-1.3	-1.4	-1.4	-1.4	-1.4
DH95-10	6	9.9	-1.0	-1.0	-1.1			-1.1			-1.1	-1.1	-1.2	-1.2	-1.2	-1.2

PM 5314 **THERMISTORS** Mt. Nansen

Drill hole	Point	Depth (m)	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96	15-Jul-96
DH96-H	1	east												9.3	11.3	11.3
DH96-H	2	(ds)												10.2	9.4	9.5
DH96-H	3	↓												9.6	8.7	8.8
DH96-H	4	↓												9.9	8.6	8
DH96-H	5	↓												9.3	8.1	7.8
DH96-H	6	(us)												8.6	7.5	7.1
DH96-H	7	west												7.6	5.7	5.2



July 15 to 21, 1996

Mt. Nansen Tailings Facility

PM5314.300B

PM 5314 **THERMISTORS**

Drill hole	Point	Depth (m)	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96	15-Jul-96	20-Jul-96
DH95-04	1	1.0	-1.4	-0.5	0.0		2.0				3.1	4.0	6.5	6.8	6.5	7.5	7.0
DH95-04	2	2.0	-2.4	-1.8	-1.4		-1.1					-0.6	-0.2	0.0	1.0	1.7	1.7
DH95-04	3	3.0	-2.5	-2.1	-1.9		-1.7					-1.4	-1.1	-1.0	-0.7	-0.5	-0.4
DH95-04	4	5.0	-1.9	-1.8	-1.8		-1.7				-1.6	-1.6	-1.4	-1.4	-1.2	-1.1	-1.0
DH95-04	5	7.5	-1.1	-1.2	-1.2		-1.2				-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.1
DH95-04	6	10.0	-0.6	-0.7	-0.7		-0.7				-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
DH95-04	10	10.5	-0.6	-0.6	-0.6		-0.7				-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
DH95-04	7	15.0	-0.4	-0.4	-0.4		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	9	15.5	-0.5	-0.5	-0.5		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	8	20.0	-0.4	-0.4	-0.4		-0.4				-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	10	0.5	0.0	1.4		3.4					3.7	4.6	7.1	6.3	6.2	6.9	6.7
DH95-05	1	1.0	-0.5	-0.3		-0.1					0.5	0.9	2.2	2.4	2.3	3.2	3.1
DH95-05	2	2.0	-0.6	-0.4		-0.3					-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1
DH95-05	3	3.0	-0.8	-0.6		-0.5					-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3
DH95-05	4	5.0	-0.6	-0.6		-0.5					-0.5	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4
DH95-05	9	5.5	-0.5	-0.5		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	5	7.5	-0.4	-0.4		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	6	10.0	-0.3	-0.3		-0.4					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	8	10.5	-0.2	-0.2		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	7	15.0	-0.3	-0.3		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-06	7	0.5											1.9				
DH95-06	1	1.0	-1.5	-1.1	-0.8				-0.8		-0.7	-0.6	-0.5	-0.5	-0.5	-0.4	-0.4
DH95-06	2	2.0	-2.3	-1.9	-1.6				-1.5		-1.4	-1.3	-1.2	-1.2	-1.1	-1.0	-1.0
DH95-06	3	3.0	-2.4	-2.1	-1.9				-1.8		-1.7	-1.7	-1.6	-1.6	-1.5	-1.4	-1.3
DH95-06	4	5.0	-1.8	-1.8	-1.7				-1.8		-1.7	-1.7	-1.7	-1.6	-1.6	-1.5	-1.5
DH95-06	6	5.5	-1.6	-1.6	-1.6				-1.6		-1.6	-1.6	-1.6	-1.5	-1.5	-1.5	-1.5
DH95-06	5	7.5	-1.2	-1.2	-1.2				-1.3		-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
DH95-08B	7	0.3															
DH95-08B	1	0.8	-0.9	-0.6	-0.5				-0.5		-0.4	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2
DH95-08B	2	1.8	-1.4	-1.2	-1.0				-1.0		-0.9	-0.9	-0.8	-0.8	-0.7	-0.7	-0.6
DH95-08B	3	2.8	-1.4	-1.2	-1.1				-1.1		-1.0	-1.0	-1.0	-0.9	-0.9	-0.8	-0.8
DH95-08B	4	4.8	-1.2	-1.1	-1.1				-1.2		-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.0
DH95-08B	6	5.3	-1.0	-1.0	-1.0				-1.1		-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
DH95-08B	5	7.3															
DH95-09	7	0.4											2.5	2.3	1.8	2.1	1.7
DH95-09	1	0.9	-0.7	-0.5	-0.5					-0.5	-0.5	-0.5	-0.4	-0.4	-0.3	-0.2	-0.1
DH95-09	2	1.9	-0.9	-0.8	-0.7					-0.8	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6
DH95-09	3	2.9	-0.8	-0.8	-0.7					-0.8	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6	-0.6
DH95-09	4	4.9	-0.7	-0.7	-0.7					-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7
DH95-09	6	5.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.8	-0.8	-0.8
DH95-09	5	7.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
DH95-10	8	-0.1	0.3	8.0	12.5			10.3			19.5	12.7	16.7	4.9	10.1	5.9	7.3
DH95-10	1	1.3	-1.9	-1.5	-1.3			-1.2			-1.1	-1.0	-0.9	-0.9	-0.8	-0.7	-0.7
DH95-10	2	2.3	-2.6	-2.2	-2.0			-1.8			-1.7	-1.6	-1.5	-1.4	-1.3	-1.2	-1.2
DH95-10	3	3.3	-2.7	-2.3	-2.2			-2.0			-1.9	-1.9	-1.8	-1.7	-1.6	-1.5	-1.5
DH95-10	7	4.7	-2.3	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.8	-1.7
DH95-10	9	4.9	-2.4	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.7	-1.7
DH95-10	4	5.2	-2.0	-2.0	-1.9			-1.9			-1.8	-1.8	-1.8	-1.7	-1.7	-1.6	-1.6
DH95-10	5	7.7	-1.5	-1.6	-1.6			-1.6			-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6
DH95-10	10	9.6	-1.2	-1.2	-1.3			-1.3			-1.3	-1.3	-1.4	-1.4	-1.4	-1.4	-1.4
DH95-10	6	9.9	-1.0	-1.0	-1.1			-1.1			-1.1	-1.1	-1.2	-1.2	-1.2	-1.2	-1.2

PM 5314 THERMISTORS

Drill hole	Point	Depth (m)	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96	15-Jul-96	20-Jul-96
DH96-H	1	east												9.3	11.3	11.3	10.7
DH96-H	2	(ds)												10.2	9.4	9.5	9.0
DH96-H	3	↓												9.6	8.7	8.8	8.4
DH96-H	4													9.9	8.6	8	7.6
DH96-H	5													9.3	8.1	7.8	7.5
DH96-H	6	(us)												8.6	7.5	7.1	6.9
DH96-H	7	west												7.6	5.7	5.2	5.0

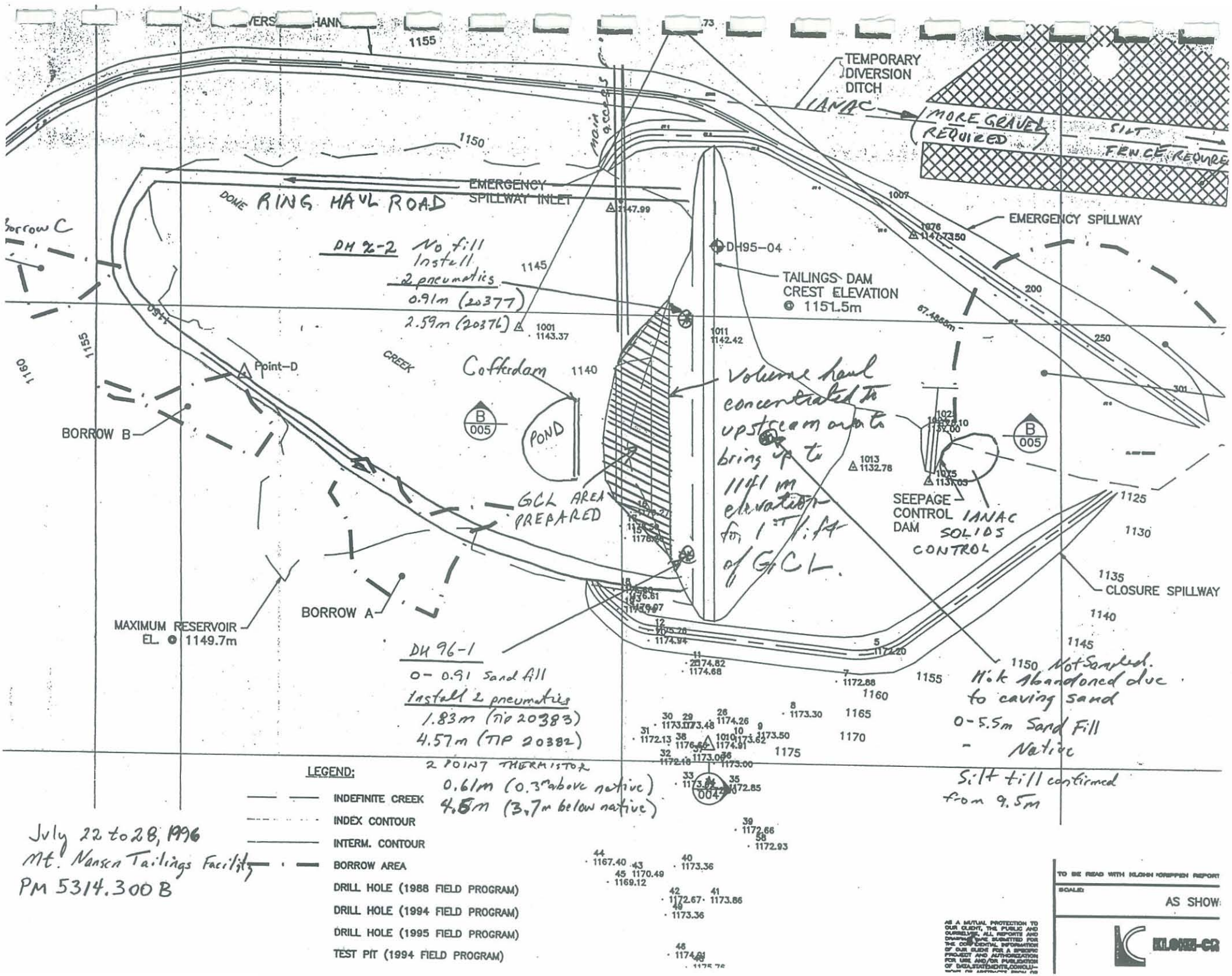
KLOHN-CRIPPEN

Summary Field Report July 22 to 28, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

- **Temporary Diversion Ditch-** July 23 site visit by Mr. Kevin Rumsey, Water Management Officer and Mr. Dave Sherstone, Regional Manager of IANAC to observe repairs to temporary diversion requested by Mr. Bud McAlpine, on July 20 (completed by July 22). Additional repairs requested by IANAC including gravel placement downstream of previous repairs and a silt fence.
- **Permanent Diversion Ditch-** No work.
- **Dam 1-** Volume haul of SP and SP-SM sand placed across entire base but concentrated towards upstream side of dam to allow earlier GCL placement. By July 28th, area prepared for GCL placement including stripping of north and south and subgrade smoothing by hoe and hand. The liner will be placed from 1141 m elevation (4.5 m in from original 2.5:1 slope) down 2.5:1 then extend horizontally across the base of the berm.
- **Seepage Dam (Dam 2)-** No work.
- **Borrows-** Borrow sources A, B and C.
- **Drilling-** Midnight Sun continued drilling from July 21 to July 22. Three holes planned along west-east centerline of dam abandoned. Hole approximately 30 m downstream of centerline appears to indicate **freezing of sand fill**. Also, South and north abutment holes completed and pneumatic piezometers and one by two point thermistor string (south only) installed.
- **Thermistor Readings** attached

	Dome Creek	Weather		
	l/sec	low	high	rain
22-Jul-96	15	4°C	13°C	most of day and overnight
23-Jul-96	23	4°C	18°C	no
24-Jul-96	15	6°C	23°C	no
25-Jul-96	9	7°C	24°C	no
26-Jul-96	17	6°C	25°C	no
27-Jul-96	8	6°C	23°C	no
28-Jul-96	5	7°C	28°C	no

Distribution: *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.*
Mr. Pete Wheeler, Klohn-Crippen Consultants (by fax)


TEMPORARY DIVERSION DITCH
IANAC
MORE GRAVEL REQUIRED
SILT FENCE REQUIRE
EMERGENCY SPILLWAY INLET
RING HAUL ROAD
DOME
EMERGENCY SPILLWAY
DH 96-2 No fill
Install
2 pneumatics
0.91m (20377)
2.59m (20376)
DH95-04
TAILINGS DAM CREST ELEVATION
1151.5m
Cofferdam
POND
Volume haul concentrated to upstream end to bring up to 1141 m elevation for 1st lift of GCL.
GCL AREA PREPARED
SEEPAGE CONTROL DAM
IANAC SOLIDS CONTROL
CLOSURE SPILLWAY
BORROW B
BORROW A
Point-D
CREEK
MAXIMUM RESERVOIR EL. 1149.7m
DH 96-1
0-0.91 Sand Fill
Install 2 pneumatics
1.83m (TIP 20383)
4.57m (TIP 20382)
2 POINT THERMISTOR
0.61m (0.3m above native)
4.5m (3.7m below native)
Not Sampled.
Hole Abandoned due to caving sand
0-5.5m Sand Fill
- Native
Silt till confirmed from 9.5m
LEGEND:
INDEFINITE CREEK
INDEX CONTOUR
INTERM. CONTOUR
BORROW AREA
DRILL HOLE (1988 FIELD PROGRAM)
DRILL HOLE (1994 FIELD PROGRAM)
DRILL HOLE (1995 FIELD PROGRAM)
TEST PIT (1994 FIELD PROGRAM)
July 22 to 28, 1996
Mt. Nansen Tailings Facility
PM 5314.300 B
TO BE READ WITH KLOHN KRIPPEN REPORT
SCALE: AS SHOWN
KLOHN-CR

PM 5314

THERMISTOR READINGS (°C)

MT. NANSEN GOLD MIN

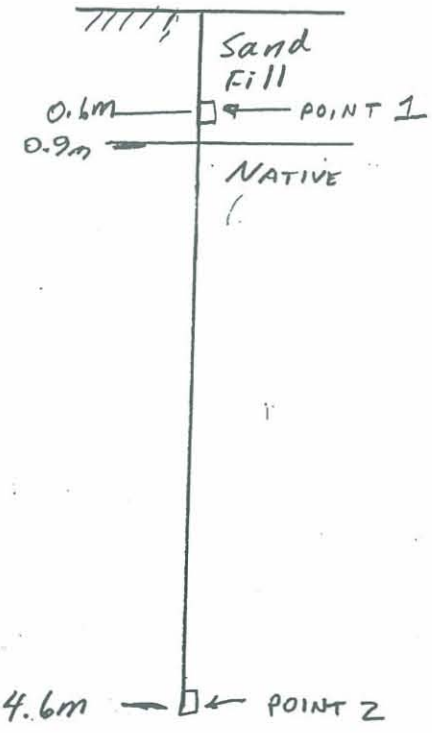
Drill hole	Point	Depth (m)	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96	15-Jul-96	20-Jul-96	28-Jul-96
DH95-04	1	1.0	-1.4	-0.5	0.0		2.0				3.1	4.0	6.5	6.8	6.5	7.5	7.0	8.3
DH95-04	2	2.0	-2.4	-1.8	-1.4		-1.1					-0.6	-0.2	0.0	1.0	1.7	1.7	2.1
DH95-04	3	3.0	-2.5	-2.1	-1.9		-1.7					-1.4	-1.1	-1.0	-0.7	-0.5	-0.4	-0.3
DH95-04	4	5.0	-1.9	-1.8	-1.8		-1.7				-1.6	-1.6	-1.4	-1.4	-1.2	-1.1	-1.0	-0.9
DH95-04	5	7.5	-1.1	-1.2	-1.2		-1.2				-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.1	-1.0
DH95-04	6	10.0	-0.6	-0.7	-0.7		-0.7				-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
DH95-04	7	15.0	-0.4	-0.4	-0.4		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	8	20.0	-0.4	-0.4	-0.4		-0.4				-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-04	9	15.5	-0.5	-0.5	-0.5		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	10	10.5	-0.6	-0.6	-0.6		-0.7				-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
DH95-05	1	1.0	-0.5	-0.3		-0.1					0.5	0.9	2.2	2.4	2.3	3.2	3.1	4.2
DH95-05	2	2.0	-0.6	-0.4		-0.3					-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1
DH95-05	3	3.0	-0.8	-0.6		-0.5					-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3
DH95-05	4	5.0	-0.6	-0.6		-0.5					-0.5	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4
DH95-05	5	7.5	-0.4	-0.4		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	6	10.0	-0.3	-0.3		-0.4					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	7	15.0	-0.3	-0.3		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	8	10.5	-0.2	-0.2		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	9	5.5	-0.5	-0.5		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3
DH95-05	10	0.5	0.0	1.4		3.4					3.7	4.6	7.1	6.3	6.2	6.9	6.7	8.5
DH95-06	1	1.0	-1.5	-1.1	-0.8				-0.8		-0.7	-0.6	-0.5	-0.5	-0.5	-0.4	-0.4	-0.3
DH95-06	2	2.0	-2.3	-1.9	-1.6				-1.5		-1.4	-1.3	-1.2	-1.2	-1.1	-1.0	-1.0	-0.9
DH95-06	3	3.0	-2.4	-2.1	-1.9				-1.8		-1.7	-1.7	-1.6	-1.6	-1.5	-1.4	-1.3	-1.2
DH95-06	4	5.0	-1.8	-1.8	-1.7				-1.8		-1.7	-1.7	-1.7	-1.6	-1.6	-1.5	-1.5	-1.5
DH95-06	5	7.5	-1.2	-1.2	-1.2				-1.3		-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
DH95-06	6	5.5	-1.6	-1.6	-1.6				-1.6		-1.6	-1.6	-1.6	-1.5	-1.5	-1.5	-1.5	-1.4
DH95-06	7	0.5											1.9					
DH95-08B	1	0.8	-0.9	-0.6	-0.5				-0.5		-0.4	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2
DH95-08B	2	1.8	-1.4	-1.2	-1.0				-1.0		-0.9	-0.9	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6
DH95-08B	3	2.8	-1.4	-1.2	-1.1				-1.1		-1.0	-1.0	-1.0	-0.9	-0.9	-0.8	-0.8	-0.8
DH95-08B	4	4.8	-1.2	-1.1	-1.1				-1.2		-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.0	-1.0
DH95-08B	5	7.3																
DH95-08B	6	5.3	-1.0	-1.0	-1.0				-1.1		-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
DH95-08B	7	0.3																
DH95-09	1	0.9	-0.7	-0.5	-0.5					-0.5	-0.5	-0.5	-0.4	-0.4	-0.3	-0.2	-0.1	0.1
DH95-09	2	1.9	-0.9	-0.8	-0.7					-0.8	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.6
DH95-09	3	2.9	-0.8	-0.8	-0.7					-0.8	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6	-0.6	-0.6
DH95-09	4	4.9	-0.7	-0.7	-0.7					-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7	-0.7
DH95-09	5	7.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
DH95-09	6	5.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.8	-0.8	-0.8	-0.8
DH95-09	7	0.4											2.5	2.3	1.8	2.1	1.7	2.1
DH95-10	1	1.3	-1.9	-1.5	-1.3			-1.2			-1.1	-1.0	-0.9	-0.9	-0.8	-0.7	-0.7	-0.6
DH95-10	2	2.3	-2.6	-2.2	-2.0			-1.8			-1.7	-1.6	-1.5	-1.4	-1.3	-1.2	-1.2	-1.1
DH95-10	3	3.3	-2.7	-2.3	-2.2			-2.0			-1.9	-1.9	-1.8	-1.7	-1.6	-1.5	-1.5	-1.4
DH95-10	4	5.2	-2.0	-2.0	-1.9			-1.9			-1.8	-1.8	-1.8	-1.7	-1.7	-1.6	-1.6	-1.5
DH95-10	5	7.7	-1.5	-1.6	-1.6			-1.6			-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6
DH95-10	6	9.9	-1.0	-1.0	-1.1			-1.1			-1.1	-1.1	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2
DH95-10	7	4.7	-2.3	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.8	-1.7	-1.7
DH95-10	8	-0.1	0.3	8.0	12.5			10.3			19.5	12.7	16.7	4.9	10.1	5.9	7.3	11.9
DH95-10	9	4.9	-2.4	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.7	-1.7	-1.6
DH95-10	10	9.6	-1.2	-1.2	-1.3			-1.3			-1.3	-1.3	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4

PM 5314 **THERMISTOR READINGS (°C)** MT. NANSEN GOLD MIN

Drill hole	Point	Depth (m)	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96	15-Jul-96	20-Jul-96	28-Jul-96
DH96-H	1	east												9.3	11.3	11.3	10.7	10.4
DH96-H	2	(ds)												10.2	9.4	9.5	9.0	8.6
DH96-H	3	↓												9.6	8.7	8.8	8.4	8.1
DH96-H	4	↓												9.9	8.6	8	7.6	7
DH96-H	5	↓												9.3	8.1	7.8	7.5	6.9
DH96-H	6	(us)												8.6	7.5	7.1	6.9	6.5
DH96-H	7	west												7.6	5.7	5.2	5.0	4.6
DH96-1	1	-0.3	} depth below native soil															5.3
DH96-1	2	~~4.5~~ 3.7																-1.8

0.9m of Sand fill

DH 96-1 Thermistor



KLOHN-CRIPPEN

Status Report Wednesday July 24, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Summary

- **Main Dam:** seven weeks, September 11, 1996
- **Emergency Spillway:** five weeks (from D10 arrival), September 4, 1996
- **Seepage Control Dam:** one week (from start)
- **Reclaim and Cleanup:** two weeks (from September 11), September 25, 1996

Cautionary Note

This status report includes estimations of time to complete various portions of the Mount Nansen Tailings Facility based on present information. Actual completion dates will depend on factors such as the Contractor- Ketza Construction, the weather, equipment performance, and equipment availability.

Details

Dam 1- Approximately 6 m of fill has been placed across the base of the main tailings dam. The south abutment has been stripped and padded with sand fill. More fill is being placed towards the upstream 2.5:1 toe of the dam. When the upstream face reaches elevation 1141 m, in less than 1 week, the first row of clay liner can be placed. This will improve control of runoff. After the first lift of liner is in place, the 20 m long berm can be filled. Fill will continue to be placed on the main dam until final crest elevation of 1151.5 m is reached. Once this elevation has been reached, the final lift of liner will be placed. Approximately 300 mm of gravel will be placed over all exposed surfaces of Dam 1.

Temporary Diversion Ditch- Heavy runoffs induced by rain have caused damage and, as requested by Indian and Northern Affairs Canada, these areas have been, or are being repaired.

Permanent Diversion Ditch- Good condition.

Emergency Spillway- Approximately five weeks will be required to excavate and finish the emergency spillway. Excavation will begin when the D10 Cat dozer arrives on site. The downstream 300 m of this spillway will be at 10% grade and lined with 0.75 m of coarse 300 mm minus rock. This Zone 4 armour (2600 m^3) will be hauled from the Johnson's placer mine located approximately 9 km away. The upstream 130 m of this spillway will be at 0.1% grade and will be lined with 300 mm of gravel. The entire emergency spillway will have a base width of 5 m and sideslopes of 3:1. The largest cuts will be near the downstream exit point and will be approximately 9 m.

KLOHN-CRIPPEN

Seepage Control Dam (Dam 2)- Dam 2 was stripped and padded with sand fill, however large runoffs have caused damage. This area is being left until the first lift of clay liner is placed in Dam 1. Although only approximately 3000 m^3 of fill will be placed in Dam 2, ripping will be carried out to install the clay liner into the permanently frozen native ground. Approximately 300 mm of gravel will be placed over all exposed surfaces of Dam 2.

Reclaim and Cleanup- After the main dam is finished (perhaps before), approximately two weeks will be required to reclaim and cleanup areas of the Tailings Facility. Equipment usage will include the D9 and D10 dozers for the entire period and the 245 hoe for approximately four days.

Equipment- The equipment that Ketza is using on the Tailings Facility includes: 245 Cat excavator, D9 Cat dozer, 966 Cat loader, two Komatsu articulating trucks, two 18 ton vibrating smooth drum packers and various pumps. Additional equipment not operating or not yet on site includes D10 Cat dozer (July 31?), D6 Cat dozer (down from July 10 but running July 27?), two Cat 769 trucks (July 31?) and one Komatsu articulating truck (on-site but under repair) to bring total number of trucks to five.

John G. McKay
Geotechnical Engineer
Klohn-Crippen Consultants Ltd.

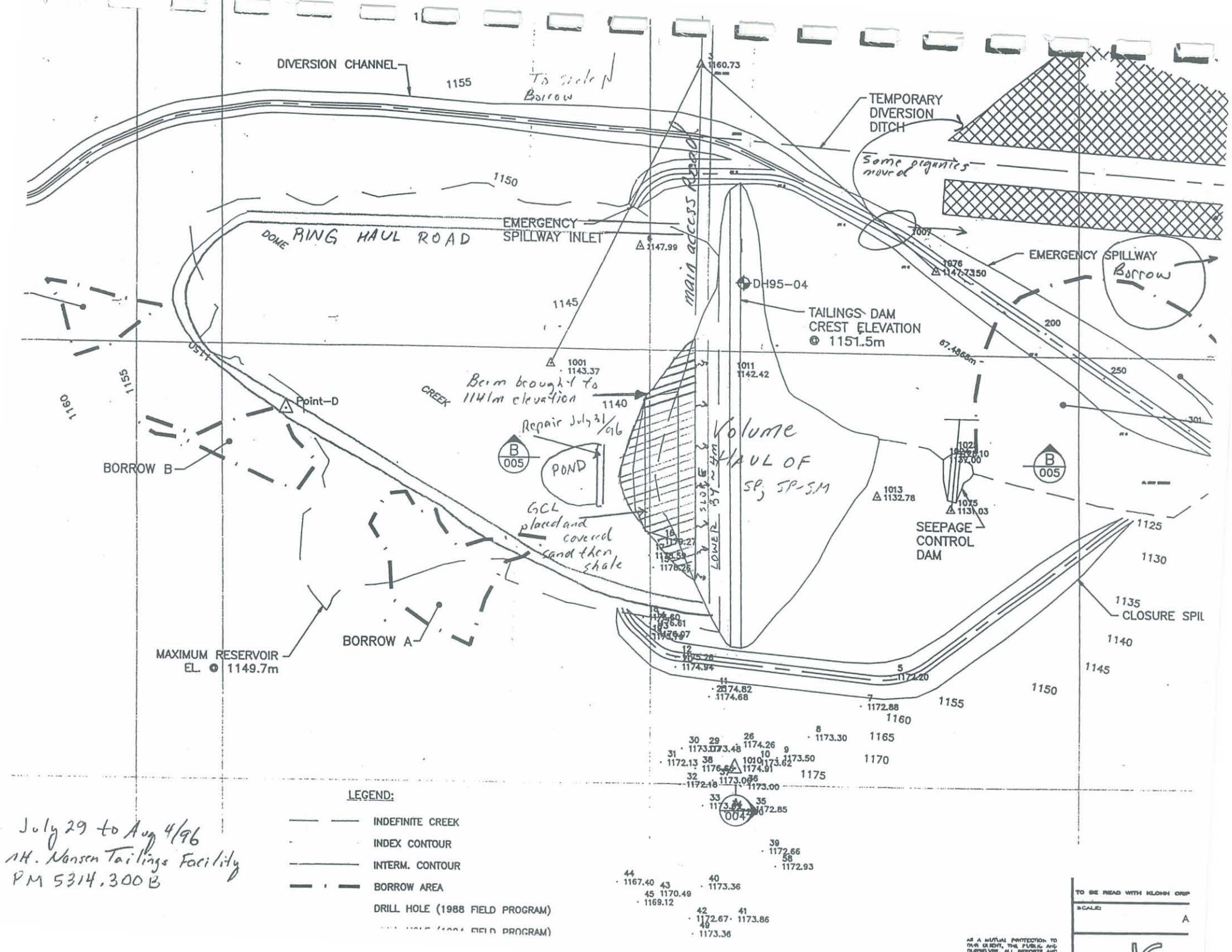
KLOHN-CRIPPEN

Summary Field Report July 29 to August 4, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

- **Dam 1-** GCL placement and covering with sand. Volume haul of sand (SP, SP-SM) from upstream borrows and far northeast of site. Berm area at elevation 1141 m downstream remainder about 4 m lower.
- **Seepage Dam (Dam 2)-** No work.
- **Emergency Spillway-** Organic stockpiled on ES moved to north of temporary diversion ditch.
- **Dewatering-** Upstream cofferdam repair, haul road repair and pumping.
- **Temporary Diversion Ditch-** No work.
- **Permanent Diversion Ditch-** No work.
- **Thermistor Readings-** Not taken.
- **Weir, Weather and Work**

	Dome Creek l/sec	Low °C	High °C	Rain	Work
29-Jul-96	5	7	28	no	Dam 1 GCL, ES
30-Jul-96	8	7	22	from 5 pm heavy rain into July 31	Dam 1 GCL, ES
31-Jul-96	35	7	12	rain continued to 6 pm	Dewatering, cofferda
1-Aug-96	**177**	7	18	no	Dam 1
2-Aug-96	44	7	16	very light overnight Aug 1 to 2	Dam 1
3-Aug-96	**960**	8	16	10 mm rain from 7:30 pm Aug 2 to 5:00 am Aug 3, very short light rain at 4 pm	Dewatering
4-Aug-96	97	4	16	no	Dam 1

Distribution: *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.*
Mr. Pete Wheeler, Klohn-Crippen Consultants (by fax)



July 29 to Aug 4/96
MH. Nonsen Tailings Facility
PM 5314.300B

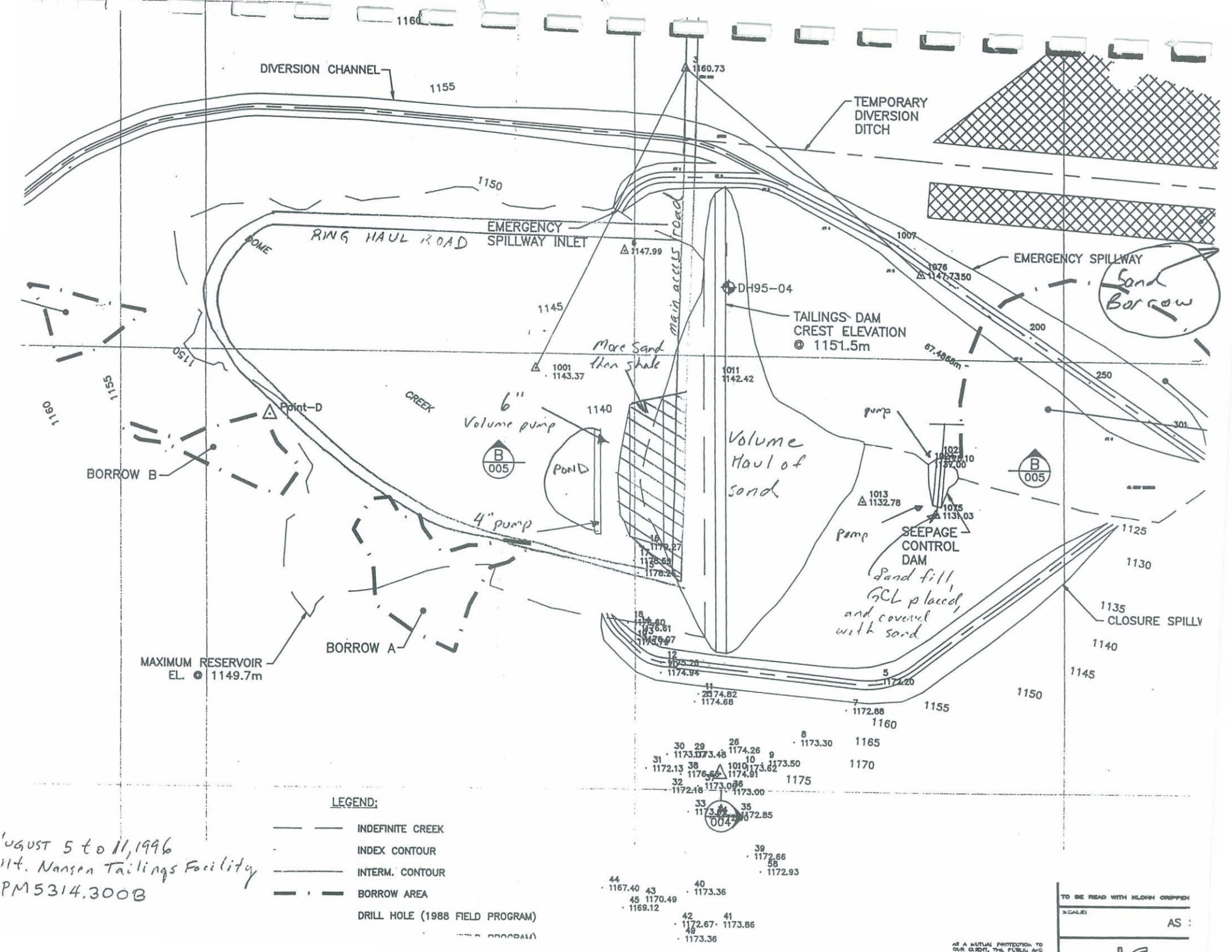
KLOHN-CRIPPEN

Summary Field Report August 5 to 11, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

- **Dam 1-** Volume haul of SP and SP-SM from upstream borrows, emergency spillway, and far east of site. Berm still elevated above most of dam. Some sand fill place in berm area then covered with angular gravel from north of main access road and diversion ditch intersection.
- **Seepage Dam (Dam 2)-** Area upstream of excavated by 245 hoe and some ripping by D9N to get GCL below frozen soil. SP and SP-SM sand borrow from far east of site. Sand stockpiled then spread by 245 hoe and packed by IR100. Small temporary cofferdam built on north side upstream of GCL area. GCL placed then covered with sand, shale lift to come. Upstream slope close to 3.5:1, downstream slope very steep at approximately 2:1- design is 5 m crest with 3.5:1 upstream and downstream slopes.
- **Emergency Spillway-** Approximately less than 1.5 m excavated from downstream half of emergency spillway for Dam 1 fill. 245 hoe used to excavate unfrozen surface sand.
- **Dewatering-** As necessary with variety of pumps upstream of both dam areas.
- **Temporary Diversion Ditch-** No work.
- **Permanent Diversion Ditch-** No work.
- **Thermistor Readings-** Attached.
- **Weir, Weather and Work**

	Dome Creek l/sec	Low °C	High °C	Rain	Work
5-Aug-96	33	4	17	yes, from 3:30 pm	Dam 1, ES
6-Aug-96	33	6	15	yes	Dam 1 and ES
7-Aug-96	66	1	10	yes	Dam1 berm, Dam 2, rain shutdown
8-Aug-96		JGM not on site			No work
9-Aug-96		JGM not on site			Dam 2, Dam 1
10-Aug-96	44	-3	17	no	Dam 2, Dam 1
11-Aug-96	27	-3	14	no	Dam 2 GCL

Distribution: *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.*
Mr. Pete Wheeler, Klohn-Crippen Consultants (by fax)



August 5 to 11, 1996
Mt. Nansen Tailings Facility
PM5314.300B

TO BE READ WITH KLOHN CRIPPEN

SCALE: AS

PM 5314

THERMISTOR READINGS (°C)

MT. NANSEN GOLD MINE

Drill hole	Point	Depth (m)	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96	15-Jul-96	20-Jul-96	28-Jul-96	5-Aug-96
DH95-04	1	1.0	-1.4	-0.5	0.0		2.0				3.1	4.0	6.5	6.8	6.5	7.5	7.0	8.3	7.7
DH95-04	2	2.0	-2.4	-1.8	-1.4		-1.1					-0.6	-0.2	0.0	1.0	1.7	1.7	2.1	2.5
DH95-04	3	3.0	-2.5	-2.1	-1.9		-1.7					-1.4	-1.1	-1.0	-0.7	-0.5	-0.4	-0.3	-0.3
DH95-04	4	5.0	-1.9	-1.8	-1.8		-1.7				-1.6	-1.6	-1.4	-1.4	-1.2	-1.1	-1.0	-0.9	-0.8
DH95-04	5	7.5	-1.1	-1.2	-1.2		-1.2				-1.2	-1.2	-1.2	-1.2	-1.1	-1.1	-1.1	-1.0	-1.0
DH95-04	6	10.0	-0.6	-0.7	-0.7		-0.7				-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
DH95-04	7	15.0	-0.4	-0.4	-0.4		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	8	20.0	-0.4	-0.4	-0.4		-0.4				-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-04	9	15.5	-0.5	-0.5	-0.5		-0.5				-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
DH95-04	10	10.5	-0.6	-0.6	-0.6		-0.7				-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
DH95-05	1	1.0	-0.5	-0.3		-0.1					0.5	0.9	2.2	2.4	2.3	3.2	3.1	4.2	4.3
DH95-05	2	2.0	-0.6	-0.4		-0.3					-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1
DH95-05	3	3.0	-0.8	-0.6		-0.5					-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3	-0.3
DH95-05	4	5.0	-0.6	-0.6		-0.5					-0.5	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	5	7.5	-0.4	-0.4		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	6	10.0	-0.3	-0.3		-0.4					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
DH95-05	7	15.0	-0.3	-0.3		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	8	10.5	-0.2	-0.2		-0.3					-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
DH95-05	9	5.5	-0.5	-0.5		-0.5					-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3
DH95-05	10	0.5	0.0	1.4		3.4					3.7	4.6	7.1	6.3	6.2	6.9	6.7	8.5	7.3
DH95-06	1	1.0	-1.5	-1.1	-0.8				-0.8		-0.7	-0.6	-0.5	-0.5	-0.5	-0.4	-0.4	-0.3	-0.3
DH95-06	2	2.0	-2.3	-1.9	-1.6				-1.5		-1.4	-1.3	-1.2	-1.2	-1.1	-1.0	-1.0	-0.9	-0.8
DH95-06	3	3.0	-2.4	-2.1	-1.9				-1.8		-1.7	-1.7	-1.6	-1.6	-1.5	-1.4	-1.3	-1.2	-1.2
DH95-06	4	5.0	-1.8	-1.8	-1.7				-1.8		-1.7	-1.7	-1.7	-1.6	-1.6	-1.5	-1.5	-1.5	-1.4
DH95-06	5	7.5	-1.2	-1.2	-1.2				-1.3		-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
DH95-06	6	5.5	-1.6	-1.6	-1.6				-1.6		-1.6	-1.6	-1.6	-1.5	-1.5	-1.5	-1.5	-1.4	-1.4
DH95-06	7	0.5											1.9						1.3
DH95-08B	1	0.8	-0.9	-0.6	-0.5				-0.5		-0.4	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2
DH95-08B	2	1.8	-1.4	-1.2	-1.0				-1.0		-0.9	-0.9	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6	-0.5
DH95-08B	3	2.8	-1.4	-1.2	-1.1				-1.1		-1.0	-1.0	-1.0	-0.9	-0.9	-0.8	-0.8	-0.8	-0.7
DH95-08B	4	4.8	-1.2	-1.1	-1.1				-1.2		-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0
DH95-08B	5	7.3																	
DH95-08B	6	5.3	-1.0	-1.0	-1.0				-1.1		-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-0.9
DH95-08B	7	0.3																	
DH95-09	1	0.9	-0.7	-0.5	-0.5					-0.5	-0.5	-0.5	-0.4	-0.4	-0.3	-0.2	-0.1	0.1	0.0
DH95-09	2	1.9	-0.9	-0.8	-0.7					-0.8	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6
DH95-09	3	2.9	-0.8	-0.8	-0.7					-0.8	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6
DH95-09	4	4.9	-0.7	-0.7	-0.7					-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7	-0.7	-0.7
DH95-09	5	7.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
DH95-09	6	5.4	-0.8	-0.8	-0.8					-0.9	-0.9	-0.9	-0.9	-0.9	-0.8	-0.8	-0.8	-0.8	-0.8
DH95-09	7	0.4											2.5	2.3	1.8	2.1	1.7	2.1	
DH95-10	1	1.3	-1.9	-1.5	-1.3			-1.2			-1.1	-1.0	-0.9	-0.9	-0.8	-0.7	-0.7	-0.6	-0.6
DH95-10	2	2.3	-2.6	-2.2	-2.0			-1.8			-1.7	-1.6	-1.5	-1.4	-1.3	-1.2	-1.2	-1.1	-1.0
DH95-10	3	3.3	-2.7	-2.3	-2.2			-2.0			-1.9	-1.9	-1.8	-1.7	-1.6	-1.5	-1.5	-1.4	-1.3
DH95-10	4	5.2	-2.0	-2.0	-1.9			-1.9			-1.8	-1.8	-1.8	-1.7	-1.7	-1.6	-1.6	-1.5	-1.5
DH95-10	5	7.7	-1.5	-1.6	-1.6			-1.6			-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.5
DH95-10	6	9.9	-1.0	-1.0	-1.1			-1.1			-1.1	-1.1	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2
DH95-10	7	4.7	-2.3	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.8	-1.7	-1.7	-1.6
DH95-10	8	-0.1	0.3	8.0	12.5			10.3			19.5	12.7	16.7	4.9	10.1	5.9	7.3	11.9	6.2
DH95-10	9	4.9	-2.4	-2.2	-2.2			-2.1			-2.0	-2.0	-1.9	-1.9	-1.8	-1.7	-1.7	-1.6	-1.6
DH95-10	10	9.6	-1.2	-1.2	-1.3			-1.3			-1.3	-1.3	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4

PM 5314 **THERMISTOR READINGS (°C)** **MT. NANSEN GOLD MINE**

Drill hole	Point	Depth (m)	14-May-96	25-May-96	1-Jun-96	7-Jun-96	8-Jun-96	9-Jun-96	10-Jun-96	11-Jun-96	16-Jun-96	19-Jun-96	26-Jun-96	30-Jun-96	7-Jul-96	15-Jul-96	20-Jul-96	28-Jul-96	5-Aug-96
DH96-H	1	east												9.3	11.3	11.3	10.7	10.4	11
DH96-H	2	(ds)												10.2	9.4	9.5	9.0	8.6	8.5
DH96-H	3	↓												9.6	8.7	8.8	8.4	8.1	8.1
DH96-H	4													9.9	8.6	8	7.6	7	6.6
DH96-H	5													9.3	8.1	7.8	7.5	6.9	6.6
DH96-H	6	(us)												8.6	7.5	7.1	6.9	6.5	6.3
DH96-H	7	west												7.6	5.7	5.2	5.0	4.6	4.4
DH96-1	1	-0.3																5.3	4.1
DH96-1	2	3.7																-1.8	-1.8

KLOHN-CRIPPEN

Summary Field Report August 12 to 18, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

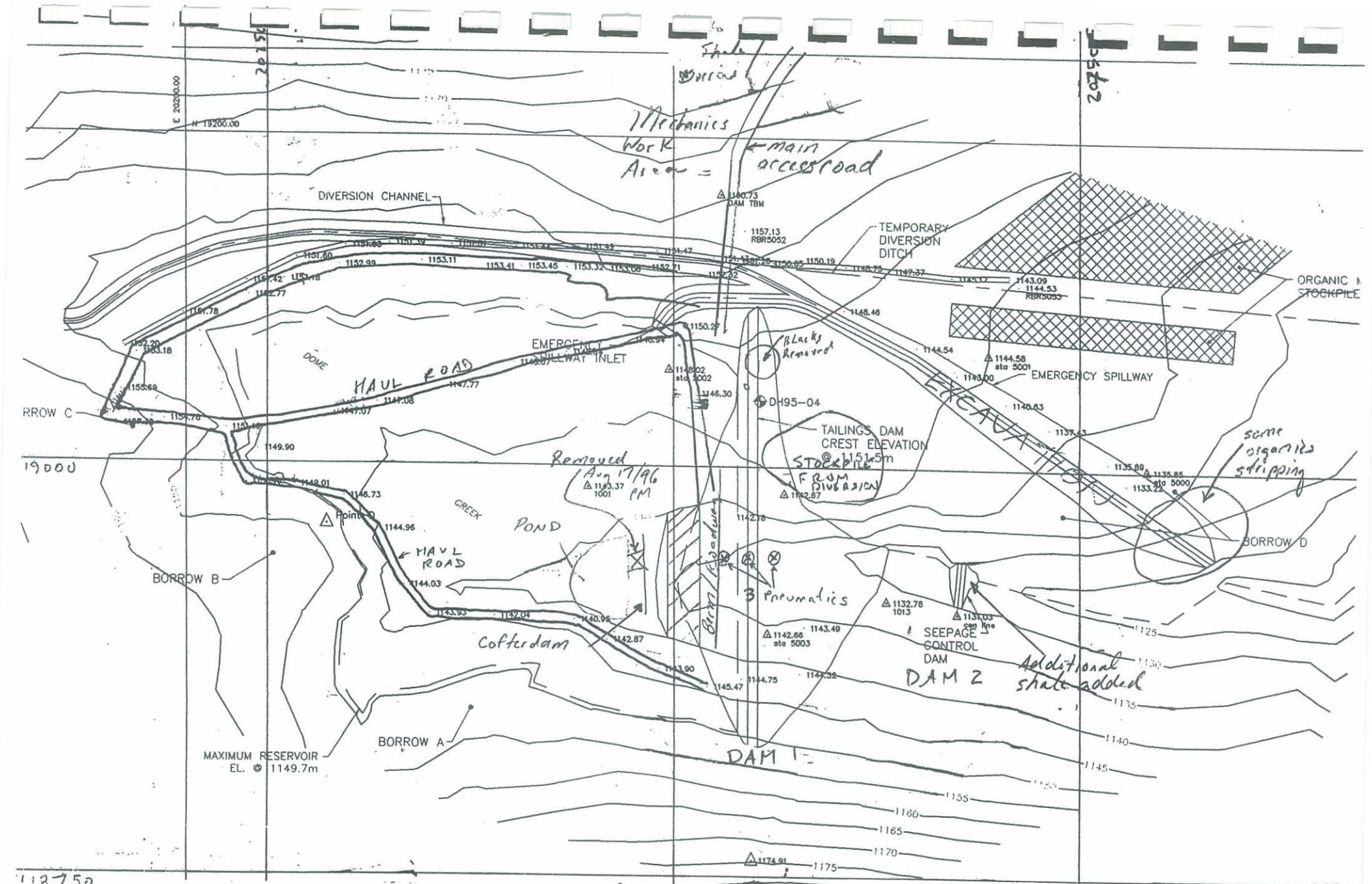
- **Dam 1**
  - Volume haul of SP and SP-SM sand, generally little gravel except several 1000 m^3 of up to 30% gravel (5% average) from downstream of ES.
  - Most of fill placed downstream of berm behind GCL (20 m upstream of CL).
  - Access road to Dam 2 cut and shaled along north downstream side of fill.
  - Some blacks hauled from north abutment.
- **DIANA** visit on August 17, prompted installation of three pneumatic piezometers in Dam 1 sand fill on August 18 as follows:

Tip #	Lead (m)	Northing (m)	Easting (m)	Elevation (m)
20372	110	18945	20530	1140.0
20373	85	18945	20550	1139.2
20379	50	18945	20570	1138.1

- **Seepage Dam (Dam 2)-** Angular gravel (shale) placed on surface, but downstream face too steep at approximately 2:1 instead of 3.5:1. Later in week, additional shale placed on downstream slope face.
- **Borrows**
  - Shale borrow from just west of main access road.
  - Upstream reservoir Borrows A, B and C.
  - North abutment stockpile- small amount but stopped due to frozen pieces.
  - Emergency Spillway- Excavation for borrow from downstream end to near 20550 Easting (Dam 1 centerline). Some stripping of organics at far downstream end.
- **Weir, Weather and Work**

	Dome Creek l/sec	Low °C	High °C	Rain	Work
12-Aug-96	41	0	17	no	Dam 2, Dam 1
13-Aug-96	15	3	16	no	Dam 1: 205 loads
14-Aug-96	17	-2	12	from 5 to 6 pm	Dam 1: 238 loads
15-Aug-96	16	1	12	isolated afternoon showers	Dam 1: 287 loads, ES
16-Aug-96	16	0	18	no	Dam 1: 300 loads, ES
17-Aug-96	15	-1	13	rain in afternoon and overnight	Dam 1, Dam 2, ES
18-Aug-96	25	1	14	5 mm rain measured by 10 am.	Dam 1 + 3 pneumatics, Dam 2, ES

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*


Mechanics Work Area = main accessroad
DIVERSION CHANNEL
TEMPORARY DIVERSION DITCH
ORGANIC STOCKPILE
EMERGENCY SPILLWAY INLET
HAUL ROAD
DOME
EMERGENCY SPILLWAY
EXCAVATION
DH95-04
TAILINGS DAM CREST ELEVATION 1151.5m
STOCKPILE FROM DIVERSION
Removed Aug 17/96 PM
some organics stripping
BORROW D
BORROW C
BORROW B
BORROW A
Pumping Pond
Pneumatics
SEEPAGE CONTROL DAM
DAM 2
Additional shale added
Cofferdam
DAM 1
MAXIMUM RESERVOIR EL. @ 1149.7m
CREEK
POND
1:3000
0 25 50m
NOTE: FRACTIONAL SCALES RELATE TO FULL "B" SIZE DRAWINGS ONLY
TO BE READ WITH KLOHN CRIPPEN REPORT DATED
SCALE: AS SHOWN
DESIGN C. P. B. DATE AUG 1995
KLOHN-CRIPPEN
PROJECT MT. NANSEN GOLD PROJECT
TITLE SITE LAYOUT PLAN
August 12 to 18, 1996
PM 5314.300B
004

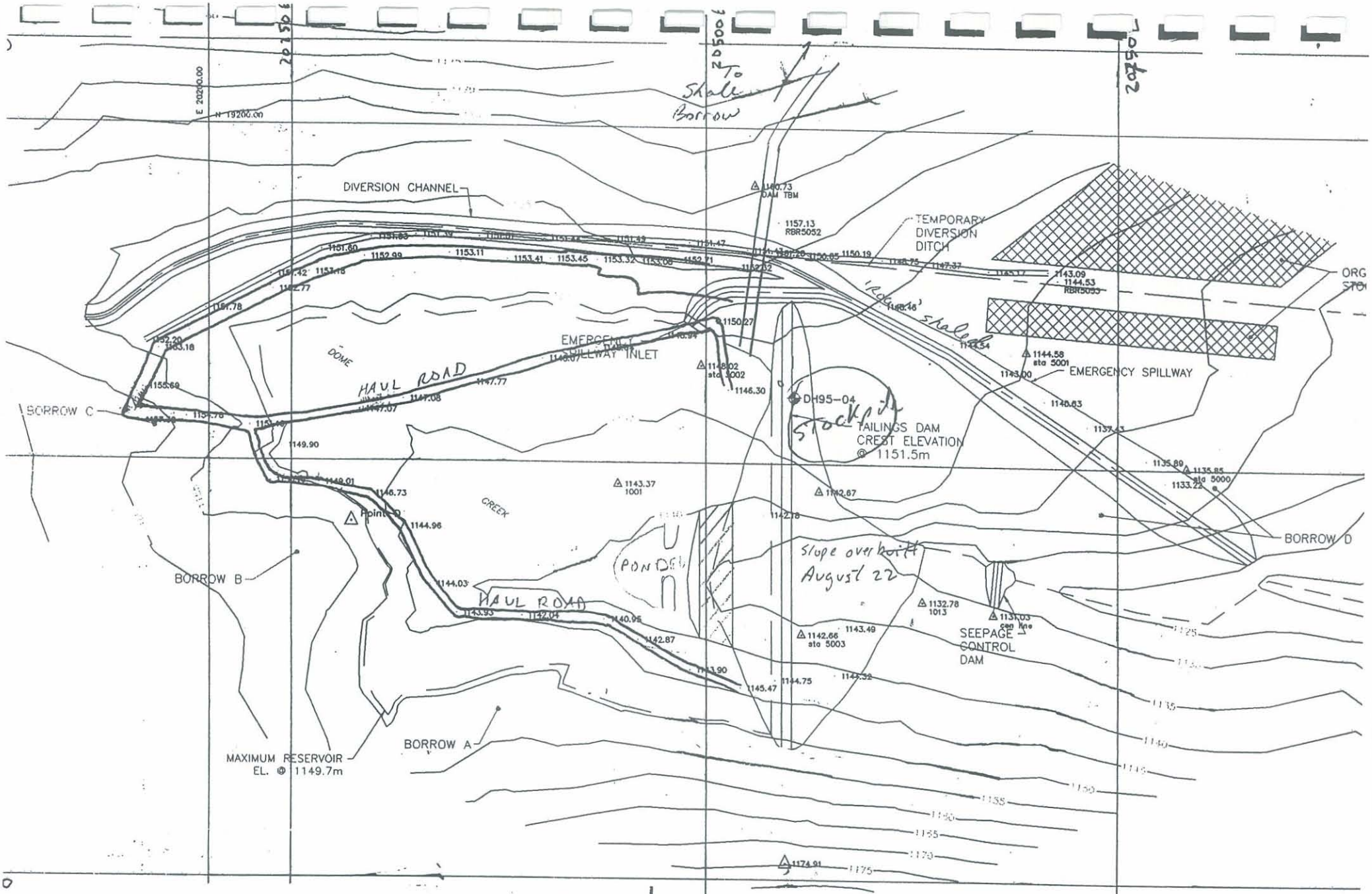
KLOHN-CRIPPEN

Summary Field Report August 19 to 25, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.300(B)

- **Dam 1-** SP and SP-SM sand placed with variable gravel content from ES. Dam 1 slope staked on August 22 indicating overbuild of downstream slope.
- **Seepage Dam (Dam 2)-** Some shale placed on downstream slope.
- **Borrows**
  - Shale borrow just west of main access road, used for road north of ES.
  - Upstream reservoir Borrows A, B and C.
  - North abutment stockpile- Pushed by dozer onto Dam 1.
  - Emergency Spillway- Excavation downstream of 20550 E (Dam 1 CL).
- **Weir, Weather and Work**

	Dome Creek l/sec	Low °C	High °C	Rain	Work
19-Aug-96	22	1	10	afternoon showers, 1 mm rain	Dam 1, Dam 2 finished
20-Aug-96	22	0	10	no rain	Dam 1, Borrow C:110 loads, ES: 96 load
21-Aug-96	19	0	12	afternoon drizzle	Dam 1 and N abut, ES: 218 loads
22-Aug-96	20	1	13	afternoon and eveinng showers	Dam 1 and N abut, ES, Borrows A, B
23-Aug-96	25	1	11	morning showers, 1mm	Dam 1 and N abut, ES
24-Aug-96			JGM not on site		Dam 1, ES: 328 loads, Borrow A
25-Aug-96			JGM not on site		Dam 1: 360 loads

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*



004

August 19 to 25, 1996
PM 5314.300B

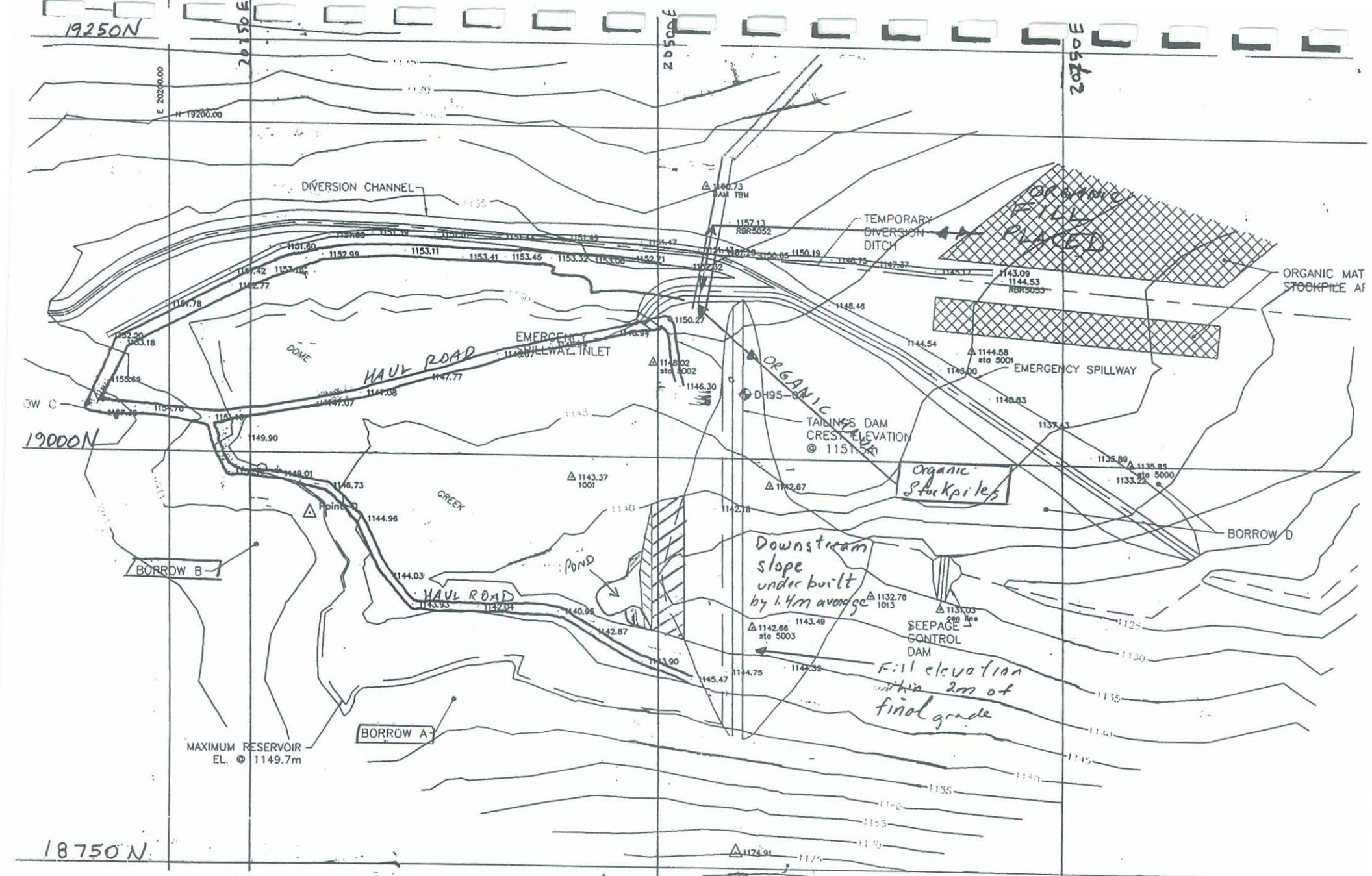
KLOHN-CRIPPEN

Summary Field Report August 26 to September 1, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.300(B)

- **Dam 1**
  - SP and SP-SM sand placed with variable gravel content from ES. Drier sand from ES and north abutment mixed with wetter upstream borrow areas. Dam 1 slope staked on August 27 indicating 1.4 m average vertical shortage on fill on downstream slope. Previous slope staking survey was August 22.
  - Upstream slope preparation for GCL by 245 hoe and labor.
- **Borrows**
  - Upstream reservoir Borrows A and B.
  - North abutment stockpile- Pushed by dozer onto Dam 1.
  - Emergency Spillway- Excavation downstream of 20550 E (Dam 1 CL). Thaw facilitated by dozer pushing.
- **Organics Removal:** Organic stockpiles from south of ES and downstream of 20550 E (Dam centerline) hauled to north of Temporary Diversion.
- **Emergency Spillway 10% Grade Zone 4 Riprap-** D9N dozer and 740 A Champion Grader worked 8.7 km road from Johnson Placer mine to Emergency Spillway.
- **Equipment:** IRSP-54 Packer down from August 24. IR100 Packer went down on August 28 in afternoon. D9H down all week. Two to three rock trucks running until Cat D300 went down with blown engine on August 30 in early morning leaving only two rock trucks.
- **General**
  - The underbuild of the downstream slope of Dam 1 and the lack of a packer has furthered the completion date by approximately one to two weeks from the September 16th (completion target).
  - Dewatering is not as difficult since the upstream berm of Dam 1 has been in place.
- **Weir, Weather and Work**

	Dome Creek l/sec	Low °C	High °C	Rain	Work
26-Aug-96	20	-4	12	0	Dam 1, ES, Borrow B
27-Aug-96	20	-3	8	from 5 pm on	Dam 1, north and south of ES, ES, Borrows A and B
28-Aug-96	22	2	10	8 mm by morning	Dam 1:195 loads, Blacks haul from south of ES to N TDD
29-Aug-96	27	2	13	1 mm by morning only	Dam 1 fill on hold (no packers), US slope, organics haul
30-Aug-96	20	6	14	0	Blacks haul from south of ES to N TDD, Johnson road
31-Aug-96	21	5	14	1 hour am and short evening rain	Blacks haul from south of ES to N TDD, Johnson road
1-Sep-96	20	4	13	4 mm by 9 pm	Ketza day off

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*


19250N
19000N
18750N
E 20200.00
N 19200.00
DIVERSION CHANNEL
HAUL ROAD
HAUL ROAD
EMERGENCY SPILLWAY INLET
DOME
CREEK
POND
TEMPORARY DIVERSION DITCH
ORGANIC FILL PLACED
ORGANIC MAT STOCKPILE AR
EMERGENCY SPILLWAY
ORGANIC
TAILINGS DAM CREST ELEVATION @ 1151.5m
DH95-07
Organic Stockpiles
BORROW B
BORROW A
BORROW D
MAXIMUM RESERVOIR EL. @ 1149.7m
SEEPAGE CONTROL DAM
Downstream slope under built by 1.4m average
Fill elevation within 2m of final grade
004
0 25 50m
NOTE: FRACTIONAL SCALES RELATE TO FULL '8' SIZE DRAWINGS ONLY
TO BE READ WITH KLOHN CRIPPEN REPORT DATED
SCALE: AS SHOWN
REV. DATE REVISION DETAILS
DESIGN DRAWN C. P. B. DATE AUG 1995 SCALES
PROJECT MT. NANSEN GOLD PROJECT
TITLE SITE LAYOUT PLAN
KLOHN-CRIPPEN
August 26 to September 1, 1996
PM5314 300B
AS A NATURAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION

KLOHN-CRIPPEN

Summary Field Report September 2-8, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.300(B)

- **Dam 1**
  - SP and SP-SM sand fill placement.
  - Unfrozen sand removed from north abutment hole (several meters of organics removed earlier) and native subgrade covered with sand.
  - Fill surface extends across entire 265 m of dam from north to south.
  - Upstream slope sculpted for GCL placement.
  - Very dry fill and some unpacked fill placed on September 6th, some remedial measures.
  - Some difficulty placing fill in less than compacted 250 mm lift thickness.
  - Heavy frosts from September 5th.
- **Borrows**
  - Sand terrace east of north abutment.
  - Emergency Spillway- Excavation downstream of 20550 E (Dam 1 CL). Thaw facilitated by dozer pushing. Approximately 3 to 5 m cut remains from 150 m downstream of CL.
  - Borrow C.
  - Northeast of Emergency Spillway.
- **Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap:** Road work completed. 966 loader and one tandem truck hauling rock 8.7 km from Johnson's Placer mine to about 75 m downstream of Dam centerline.
- **Equipment:** No packer until IR100#2 on site September 2nd 4:30 pm to 5th evening. IRSP54#2 (no drum drive) used from Septebmer 6th. This packer is easily stuck and could not access all areas. Two rock trucks in operating condition from September 3rd to 5th, then three rock trucks.
- **Weir, Weather and Work**

	Dome Creek l/sec	Low °C	High °C	Rain	Work
2-Sep-96	41	3	8	no	Ketza day off
3-Sep-96	29	-2	14	no	Dam 1, ES:140 loads, snake pit borrow: 988B:120 loads, Johnson roadwork
4-Sep-96	29	3	10	occasional light drizzle	Dam 1, ES, far east borrow and snake pit borrow (988B), Johnson haul
5-Sep-96	20	-4	9	no	Dam 1 only, no work on ES, Johnson haul, far east borrow and snake pit borrow
6-Sep-96	21	-4	8	no	Dam 1: dry fill, East Site and Borrow C, Johnson Haul
7-Sep-96	27	-5	8	no	Dam 1, US slope, Borrow C, East Site, Johnson Haul
8-Sep-96	17	-4	9	no	Dam 1, US slope, Borrow C, East Site, Johnson Haul

Distribution:
- *BYG Resources Ltd, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

KLOHN-CRIPPEN

Summary Field Report September 9-15, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.300(B)

- **Dam 1**
  - Layout GCL on upstream slope.
  - Cover GCL with less than 300 mm of sand.
  - Place up to approximately 2 m of fill above the GCL in thin horizontal lifts. Lifts spread by D6D and packed by IR100.
  - Fill is SP and SP-SM, generally good moisture content and compaction.
- **Borrows**
  - Borrows A, B, C.
  - Emergency Spillway.
- **Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap:** Loader at Johnson stockpile and up to five tandem trucks hauling rock 8.7 km from Johnson's Placer mine to about 75 m downstream of Dam centerline just south of the Emergency Spillway.
- **Equipment:** Two rock trucks in operating condition. IR100 packer down on September 15th.
- **Weir, Weather and Work**

	Dome Creek l/sec	Low °C	High °C	Rain	Work
9-Sep-96	23	-1	12	no	Layout GCL, Johnson Haul: 35 loads
10-Sep-96	22	-3	8	1 mm 4 to 7:30 pm	Layout GCL, Johnson Haul: 27 loads
11-Sep-96	19	3	8	no	Layout and cover GCL, Johnson Haul: 30 loads
12-Sep-96	15	-2	11	no	Dam 1: Cover GCL, Volumes to US slope, ES borrow; Johnson Haul: 34 loads
13-Sep-96	16	-2	11	very light drizzle	Dam 1 US slope horizontal lifts, Borrows A, B, C; Johnson Haul: 51 loads
14-Sep-96	16	2	7	rain	Dam 1 US slope: 1146.0 m, Borrows B, C; Strip shale borrow; Johnson Haul: 49 loads
15-Sep-96	20	2	8	3 mm accumulated by morning	Dam 1 US slope until packer down: 1147.5 m, Borrow C; Strip shale borrow, place shale on US slope: 27 loads; Johnson Haul: 30 loads

Distribution:
- *BYG Resources Ltd, Mount Nansen*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

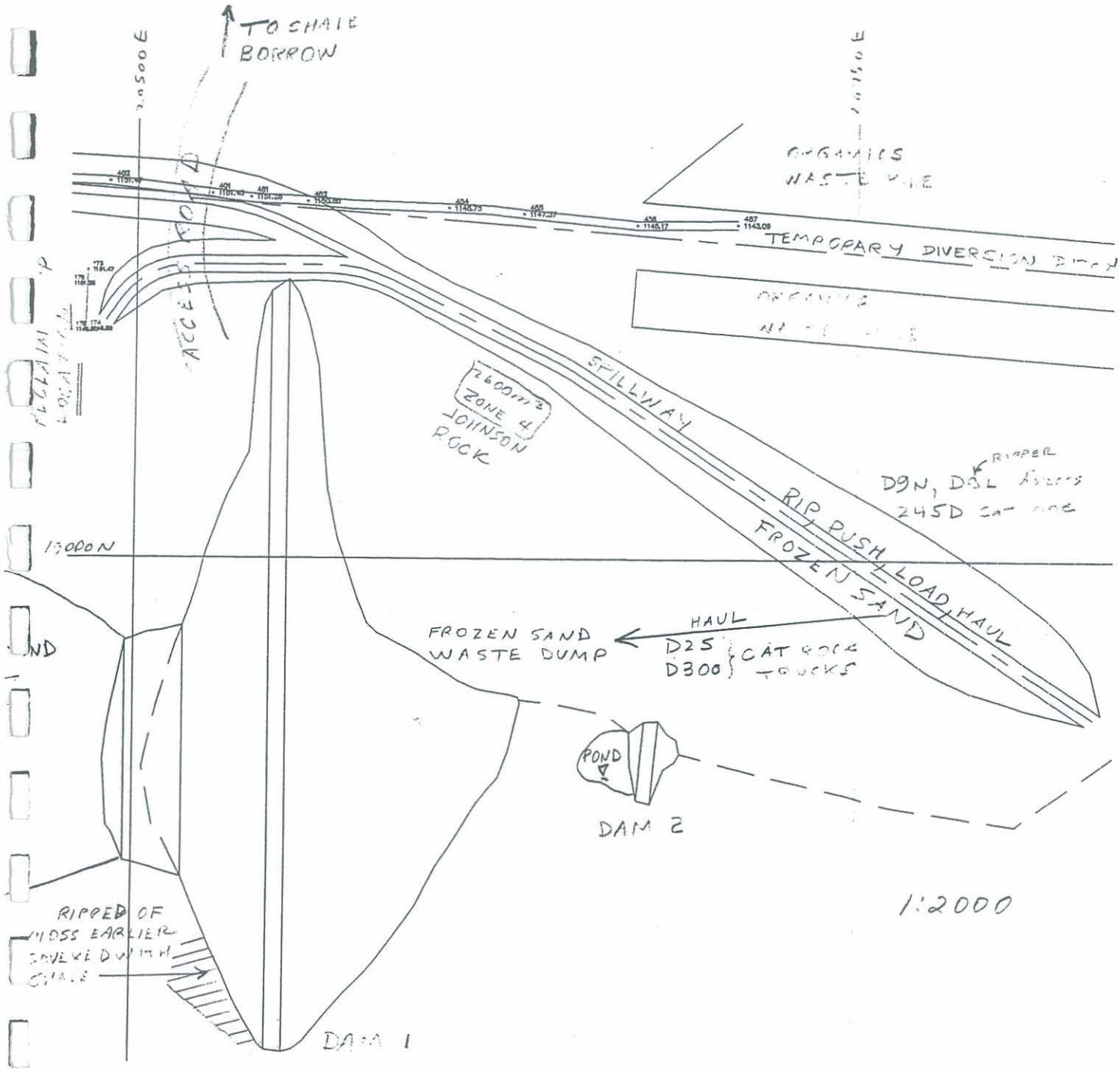
KLOHN-CRIPPEN

Summary Field Report September 16-22, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.300(B)

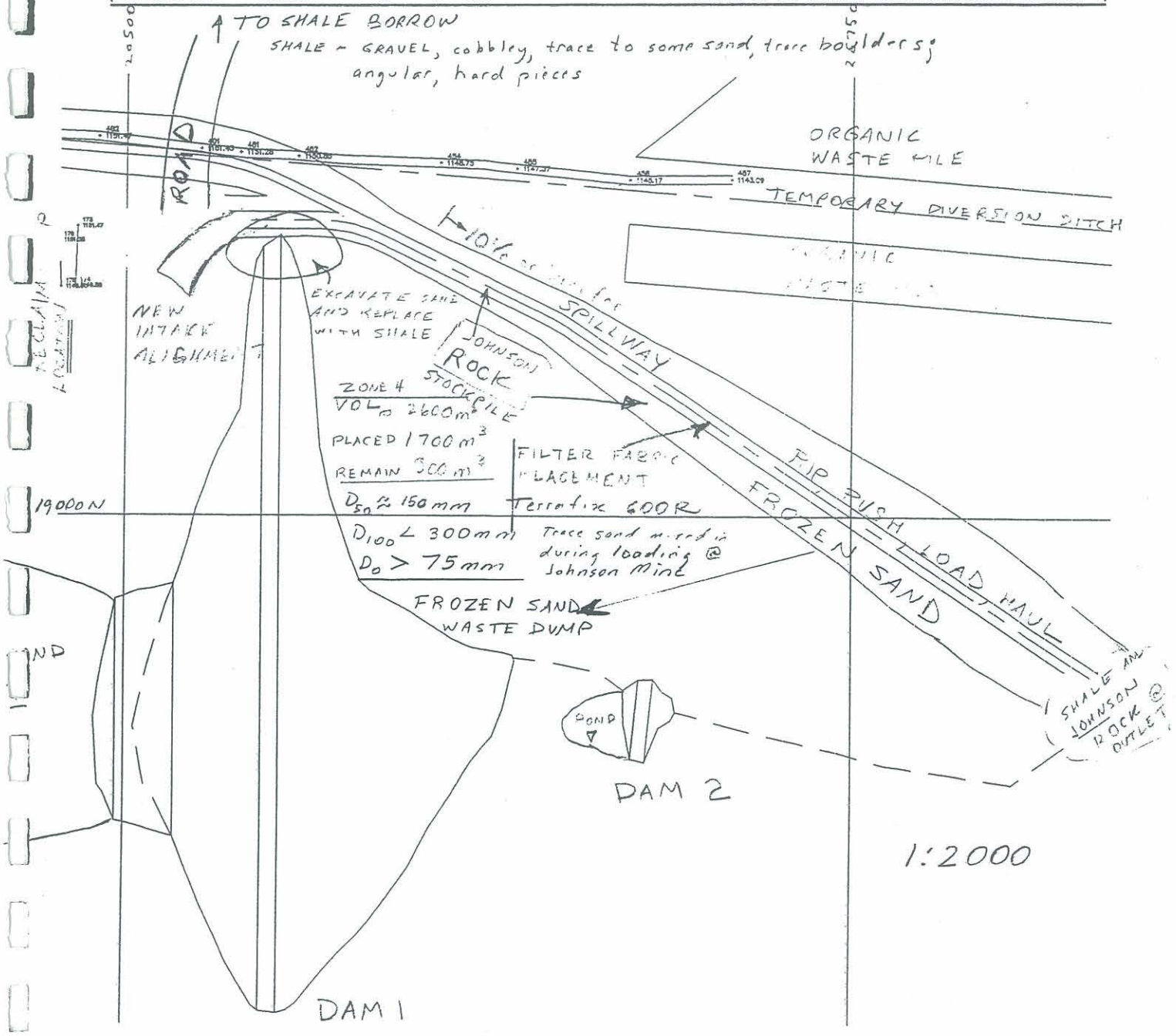
- **Dam 1**
  - **Upstream Slope Sand Fill-** Continue placing up to approximately 2 m of sand fill above the GCL in thin horizontal lifts from elevations 1147.5 to 1150.0 m (top of sand, 0.5 m of gravel to follow). Lifts spread by D6D and packed by IR100. Fill is SP and SP-SM, generally good moisture content and compaction.
  - **Upstream Slope Shale Fill-** Shale hauled to upstream slope for final cover over sand.
  - **Clay Liner-** Torn in approximately six places at elevation 1149.5 from 18910 N to 18980 N. Liner exposed and covered with GCL patches.
- **Borrows**
  - Borrows A, B, C.
  - Northeast of ES.
  - Emergency Spillway.
  - Shale- 200 m north of Dam 1 north abutment.
- **Johnson Haul for Emergency Spillway 10% Grade Zone 4 Riprap:** Loader at Johnson stockpile and up to five tandem trucks hauling rock 8.7 km from Johnson's Placer mine to about 75 m downstream of Dam centerline just south of the Emergency Spillway.
- **Equipment:** Two to three rock trucks in operating condition. IR100 packer down from September 15th to 18th.
- **Weir, Weather and Work**

	Dome Creek l/sec	Low °C	High °C	Rain	Work
16-Sep-96		2	JGM not on site		Shale haul to US slope of Dam 1, Johnson Haul: 29 loads
17-Sep-96			JGM not on site		Shale haul to US slope of Dam 1, Dam 1 US slope (no packer), Johnson Haul: 30 loads
18-Sep-96		-2	8	no	Dam 1 US slope, IR100 packer on site, Borrows A, C, ES; Johnson Haul: 37 loads, stockpiled total 2070 m³
19-Sep-96	20	-4	3	25 mm snow overnight and into morning	Dam 1 US slope: 1148.9 m, GCL tears, Borrows: B, NE of ES; Johnson Haul: 42 loads
20-Sep-96	26	-4	2	steady snow to 3 pm	Dam 1 US slope: 1149.7 m, Borrow East of ES, ES scraping, Johnson Haul 1/2 day: 18 loads
21-Sep-96	16	-6	2	no	Dam 1 US slope S, Borrow East of ES, Johnson Haul: 35 loads
22-Sep-96	35	-5	7	no	Dam 1 US slope sand fill completed, DS slope fill begun; Borrow East of ES, Johnson Haul completed: 3 loads

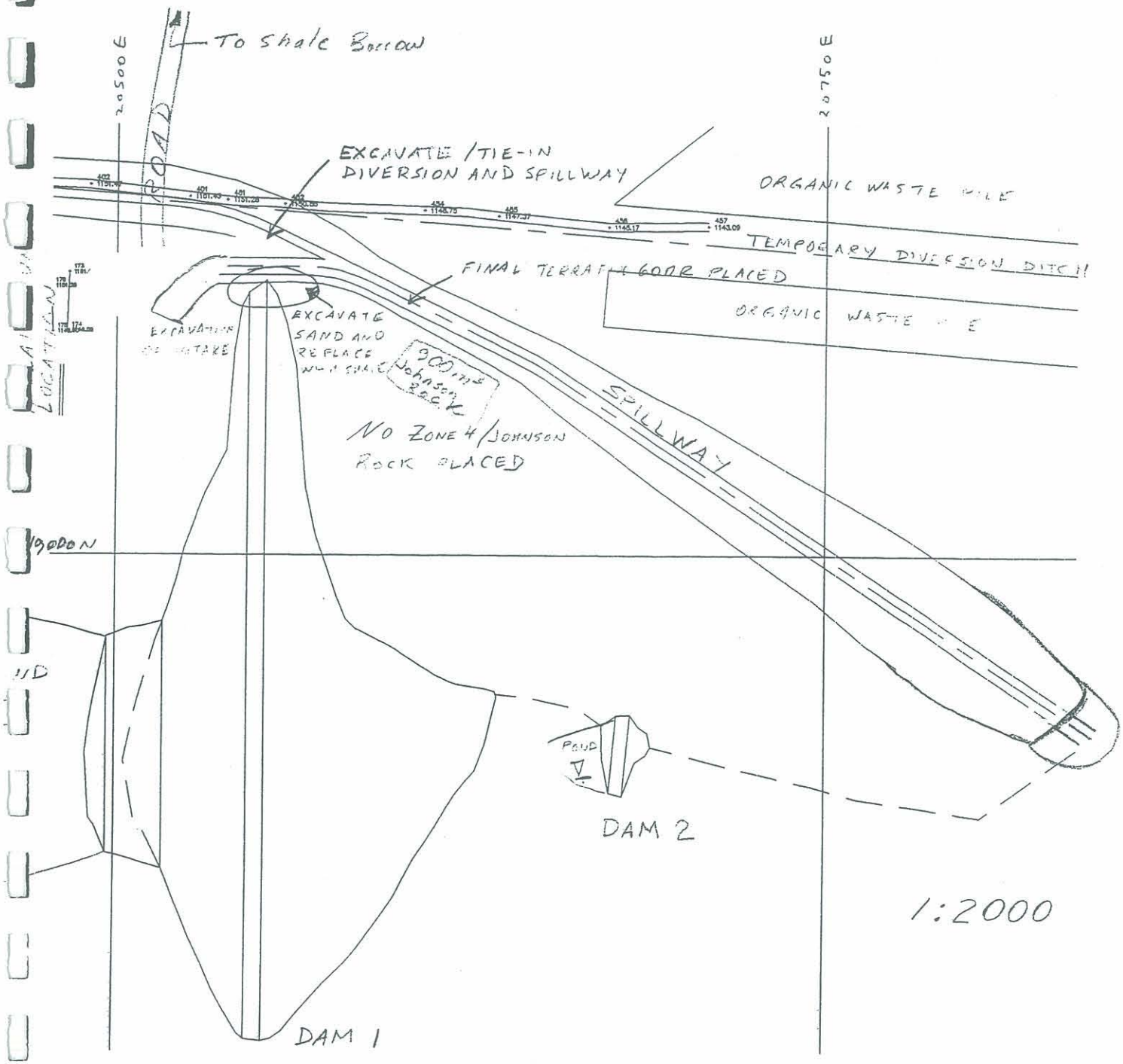
	Dome Creek l/sec	Low °C	High °C	Rain	Work
30-Sep-96	2	-10	-1	no	ES excavate 87 lds of sand
01-Oct-96	1	-10		no	ES excavate 170 lds
02-Oct-96	1	-10	-4	increasing snowfall	ES excavate 229 lds
03-Oct-96	frozen	-10		heavy snow	ES excavate 82 lds, D1 shale S abut 19 lds
04-Oct-96	frozen				ES excavate 131 lds
05-Oct-96	frozen				ES excavate
06-Oct-96					No work



	Dome Creek l/sec	Low °C	High °C	Rain	Work
07-Oct-96				heavy snow	ES excavate
08-Oct-96					ES excavate
09-Oct-96	frozen	-12	-3	light flurries in afternoon	No work
10-Oct-96	frozen	-8	-1	no	Emergency Spillway and shale reinforcement of north portion of Dam 1; 3 loads of Johnson Rock and 11 loads of shale to downstream end of ES
11-Oct-96	frozen	-6	-3	very light flurries in early morning	Emergency Spillway filter fabric and rock placement, 64 loads of Johnson Rock.
12-Oct-96	frozen	-6	0	no	Emergency Spillway filter fabric and rock placement, 94 loads of Johnson Rock.
13-Oct-96	frozen	-3	4	no	ES: 27 loads Johnson Rock, excavate 115 loads of sand near north abutment of Dam 1



	Dome Creek l/sec	Low °C	High °C	Rain	Work
14-Oct-96	frozen	-8	0	light flurries overnight	ES: 0 loads Johnson Rock, excavate 19 loads of sand near north abutment of Dam 1
15-Oct-96	frozen	-12	-9	snow overnight	Shale Borrow ripping and stockpiling
16-Oct-96	frozen	-13	-9	light flurries overnight	ES: sand excavation upstream portions
17-Oct-96	frozen	-13	-6	no	ES: finish filter fabric placement, tie-in diversion ditch, reinforce spillway and north abutment with 107 loads shale
18-Oct-96	frozen	-10	-6	snow overnight	30 loads shale to ES and north abutment
19-Oct-96				Ketza stopped work	
20-Oct-96					



APPENDIX V

Construction Memorandums

KLOHN-CRIPPEN

CONSTRUCTION MEMORANDUM

TO: **Mr. Chris Verrico**
Ketza Pacific Construction Ltd.

DATE: June 15, 1996

FROM: **John G. McKay**
Klohn-Crippen Consultants Ltd.

FILE: PM5314.107

SUBJECT: **Compaction Specifications Mount Nansen Tailings Dam**

The compaction specifications for the Mount Nansen Tailings Dam are as follows:

- minimum 95% standard Proctor maximum dry density
- + or - 3% of standard Proctor optimum moisture content
- compacted lift thickness 250 mm (10 inches)

Significant water volumes and compactive effort are required to meet these specifications. Fill operations have been ongoing since June 11, 1996 without the addition of water. Less than one hour of packer time has been spent on this fill. Before additional fill is placed anywhere in the dam you should work the existing fill to the above specifications.

John McKay

John G. McKay
Geotechnical Engineer
Klohn-Crippen Consultants Ltd.

Distribution:
Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd.
Mr. Ian Patterson, Mine Superintendent, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd.

KLOHN-CRIPPEN

CONSTRUCTION MEMORANDUM

TO: **Mr. Bob Hinkkuri, Mine Manager**
BYG Resources Ltd

DATE: June 27, 1996

FROM: **John G. McKay**
Klohn-Crippen Consultants Ltd.

FILE: PM5314.107

SUBJECT: **Mount Nansen Tailings Dam Survey**

Dear Sir:

As we have discussed earlier, there appears to be some inconsistencies in the survey information for the Mount Nansen Tailings Dam. Nevertheless, it is my opinion that the construction to date has been done so as intended in Klohn-Crippen's design report (August 1995, PM53114.05.02). Also, while I will continue to assist in the layout of the Mount Nansen Tailings Dam, Emergency Spillway, Diversion Ditch and all associated structures to my fullest abilities, the responsibility for layout and constructed dimensions belong to the Construction Contractor, Ketza Pacific Construction and the Owner, BYG Resources Ltd.

Regards,

John G. McKay
Geotechnical Engineer
Klohn-Crippen Consultants Ltd.

Distribution:
Mr. Chris Verrico, Ketza Pacific Construction Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd.

KLOHN-CRIPPEN

CONSTRUCTION MEMORANDUM

TO: **Mr. Bob Hinkkuri, Mine Manager**
BYG Resources Ltd

DATE: June 27, 1996

FROM: **John G. McKay**
Klohn-Crippen Consultants Ltd.

FILE: PM5314.107

SUBJECT: **Mount Nansen Tailings Dam**
Tailings Sand Design Requirements

Dear Sir:

Deposition of tailings sand on the upstream face of the Dam has been assumed in design (Tailings Impoundment Final Design Report, Klohn-Crippen Consultant Consultants Ltd., August 1995, PM5314.05.02). If the extent of tailings deposition on the upstream face is reduced or if tailings sand is not placed there at all, Klohn-Crippen should be informed and the design reviewed.

Tailings sand on the upstream face is intended to reduce foundation thaw, improve freezeback of the foundation and dam, improve the stability of the dam, protect the geotextile clay liner, reduce groundwater pressures and impede seepage. On page 28 of the report, it is written:

"The primary barrier to impede seepage through the dam will consist of the tailings which will be deposited on the upstream slope throughout the period of mine operation."

The geotextile clay liner is a secondary seepage barrier. The dam will be susceptible to piping or other types of failure should tailings sand not be deposited on the upstream face of the dam as assumed.

Regards,

J.L. McKay

John G. McKay
Geotechnical Engineer
Klohn-Crippen Consultants Ltd.

Distribution:
Mr. John Eggert, Mill Superintendent, BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd.

KLOHN-CRIPPEN

CONSTRUCTION MEMORANDUM

TO: **Mr. Bob Hinkkuri**
Mine Manager, BYG Resources Ltd

DATE: July 7, 1996

FROM: **John G. McKay**
Klohn-Crippen Consultants Ltd.

FILE: PM5314.107

SUBJECT: **Mount Nansen Tailings Dam Survey Request**

Dear Sir:

The immediate survey requirements for the Mount Nansen Tailings Dam are:

Dam 1

- upstream slope stakes particularly for 2.5:1 toe
- downstream slope stakes near Dome Creek and along north abutment
- existing and final elevations at thermistor station on downstream side
- elevations for existing centerline station stakes
- volume

Dam 2

- complete survey with perimeter and centerline stakes

Emergency Spillway

- as necessary

General

This request has been precipitated by several things. Many of the upstream toe stakes have been destroyed as a result of the recent heavy rains. Stripping and padding of the south abutment is an hourly payable and interim surveys are necessary to separate these volumes from regular volume payables. In addition, regular volume surveys of Dam 1 should be made to record progress.

Approximately every four days surveying may be required. Survey control is important to minimise the overall cost of the tailings dam and reduce Contractor-Owner discrepancies.

Regards,

John G. McKay
Geotechnical Engineer
Klohn-Crippen Consultants Ltd.

Distribution:
Mr. Logan Hind, Takku Surveying
Mr. Chris Verrico, Ketza Pacific Construction Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd.

KLOHN-CRIPPEN

CONSTRUCTION MEMORANDUM

TO: **Mr. Ted Crabtree**
Ketza Construction Ltd.

DATE: August 17, 1996

FROM: **John G. McKay**
Klohn-Crippen Consultants Ltd.

FILE: PM5314.107

SUBJECT: **Mount Nansen Tailings Dam Emergency Spillway Borrow Excavation Hourly and Volume Rates**

Dear Sir:

The emergency spillway excavation hourly and volume rates shall be as follows from August 17, 1996:

- **Downstream portion of the emergency spillway from the intersection with Dome Creek east of Dam 2 to coordinate 20550 East (centerline of the dam).**

  - This section of the emergency spillway will be similar to other borrow areas where suitable material is removed and placed as fill in Dam 1 and paid for on regular volume contract with no additional hourly charges except for one dozer as necessary.
  - Hourly for all equipment to strip and remove organics.
  - Excavation shall include removal of all native inorganic material to the base of the channel linings.

- **Upstream portion of emergency spillway from reservoir intake at elevation 1149.7 m to 20550 East.**

  - Hourly for all equipment.
  - Volumes removed from emergency spillway to be subtracted from volume payment to Dam 1.

This contract addendum does not discuss riprap placement.

Regards,

John G. McKay
Geotechnical Engineer
Klohn-Crippen Consultants Ltd.

Agreed upon by:

Mr. Ted Crabtree,
Ketza Construction

Distribution:
Mr. Bob Hinkkuri BYG Resources Ltd.
Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd.

KLOHN-CRIPPEN

CONSTRUCTION MEMORANDUM

TO: Mr. Ted Crabtree
Ketza Construction Ltd.

DATE: August 21, 1996

FROM: John G. McKay
Klohn-Crippen Consultants Ltd.

FILE: PM5314.107

SUBJECT: Fill Placement Requirements
Mount Nansen Tailings Facility North Abutment Stockpile

Dear Sir:

Compaction specifications include density, moisture and maximum lift thickness. Zone 1 fill, including fill from the north abutment stockpile (originally from the diversion ditch), must be placed in compacted lifts less than 250 mm thick.

The north abutment stockpile presently overlaps the footprint of the dam. At the north abutment, the native ground surface rises steeply to the north. The native soil consists of inorganic sand with some gravel. There is little or no organic topsoil. The present place fill surface at the dam slopes down several meters from the south to the north abutment.

Although directed otherwise, yesterday, Mr. Verrico began to push north abutment stockpiled fill directly onto the dam resulting in a minimum 1 to 1.5 m wedge of dry, uncompacted fill along the base of the north abutment across approximately 35 m from west to east. He was then directed to remove this material and replace in compacted, moisture conditioned, 250 mm thick or less lifts.

Good construction practice includes the following:

- At the north abutment, native inorganic soil should be exposed and any loose material removed. The native surface should be moisture conditioned and packed to specifications.
- Suitable inorganic unfrozen Zone 1 fill soils should be placed in moisture conditioned and compacted lifts less than 250 mm thick.
- Fill should be keyed into the north abutment slope.

Whichever procedure that Ketza uses to place the north abutment fill, compaction specifications and good construction practice must not be compromised.

Regards,

J.L. McKay

John G. McKay
Geotechnical Engineer
Klohn-Crippen Consultants Ltd.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*

APPENDIX VI

Meeting Minutes

KLOHN-CRIPPEN

Meeting Minutes
9:15 am Tuesday July 9, 1996
Mt. Nansen Gold Tailings Dam Construction PM5314.109

Present: Mr. Bob Hinkkuri, BYG Resources Ltd.
Mr. Vince Hunter, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Construction
Mr. Ted Crabtree, Ketza Construction
Mr. John G. McKay, Klohn-Crippen Consultants Ltd.

Location: Mr. Hunter's office at Mt. Nansen

BH: The Mt. Nansen Tailings Facility Project is over budget. Ketza invoices have been paid but not approved. They will be adjusted later. Ketza's working procedure has not been cost effective. The construction plan changed at the south abutment. Originally, as the base was being filled, the abutment was to be stripped coincidentally. Instead the abutment has been stripped and padded all at once. Also, a road was stripped above the upstream south abutment contributing to water problems. The 245 Hoe can easily handle 5 to 6 trucks, but Ketza only has two trucks on site. Three trucks were in the contract. Now only one truck is running 100% of the time. The invoicing should reflect the efficiency as follows:

- three trucks- 100% hoe hours payable
- two trucks- 67% hoe hours payable
- one truck- 33% hoe hours payable

Also, there have been late starts in the morning. All of this has not been reflected in the timesheets. Ketza has not been efficient and this must improve. Ketza was chosen to build the dam because it is a small, local company. That choice is now in question. BYG can not afford what is happening. This is not a million dollar dam. Ketza is not working in BYG's best interest. There have been equipment problems such as the hoe breakdown and replacement with the D6 at Dam 2 and the D6 pushing organics.

TC: D9 was shut down yesterday to reduce costs. We are trying to be efficient.

General: *Discussion of yesterday's time and equipment allocation.*

BH: Road cut in above south abutment has sat for a long time and has caused unnecessary thawing.

CV: Scope of work is greater than BYG has budgeted. For example the diversion ditch, screening- all should have been done last year.

BH: But this is all in budget. We have to be fair, just because a piece of equipment is on site, doesn't mean it is to be paid 10 hours a day. Ketza must use right piece of equipment. That hoe should be going steady. Ketza has not been efficient and BYG can not pay for inefficiency.

CV: We have to fight the water. Original plan was to seal off area with the liner quickly.

JGM: The report cross-section shows that the pad has to be brought up before the liner installation can begin.

BH: We want to leave the stockpile at the north abutment in case later rains restrict access to other borrow areas. Paul Roberts took 35 gallons of gas. Ketza needs a vehicle to haul men and BYG will pay fuel.

CV/TC: Men have been quite good. Paul Roberts was to ask Bob, and he was out of gas while using his vehicle to haul men to the job.

VH: When are the 35 ton Cat trucks arriving?

CV: One week tomorrow in Skagway (17th), then on site by the 19th.

BH: Logan is laying out the pit perimeter, no allowance has been made for stripping. All trucks need back up alarms.

CV: A lot of items have not been charged and were not shown by Klohn-Crippen on charge-sheets.

BH: Times should be hashed out quickly by BYG, Ketza and KC. My main complaint is efficiency of equipment. The hoe needs at least three trucks. Ted is doing a good job considering the equipment running.

CV: Later tomorrow, the next Moxy will arrive. What can be done to seal the dam to control runoff?

General: *Discussion of liner installation, water control.*

BH: We plan to use dam prior to completion (mid-August). The mill will be completed by September 10th.

BH and CV: The earliest completion possible of the dam is the objective.

TC: Can we leave center access road in reservoir?

BH: Yes.
I will deal fairly and I expect the same from Ketza.

VH: There will be a Health and Safety Meeting on Thursday July 11 at 7 pm at BYG's office. All Ketza crew to attend.

Meeting adjourned at 10:15.

Distribution
All attendees

KLOHN-CRIPPEN

Meeting Minutes
2:00 pm Wednesday August 6, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.109

Present: Mr. Bob Hinkkuri, BYG Resources Ltd.
Mr. Vince Hunter, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Construction
Mr. Rolland Girouard, Ketza Construction
Ms. Karen Densmore, Ketza Construction
Mr. John G. McKay, Klohn-Crippen Consultants Ltd. (Recorder)

Location: Mr. Hunter's office at Mt. Nansen

BH: Jim Pirie and KD called meeting. KD is chair.

KD: JP and I decided that we need a schedule.

BH: There is some concern regarding the dam completion date. The big problem is equipment breakdowns.

RG: (presents schedule)

CV: Should Zone 4 riprap from Johnson's be hauled and placed directly in the Emergency Spillway?

JGM: The Emergency Spillway is a borrow and timely use will allow thawing to facilitate excavation.

CV: Should we stockpile Zone 4 riprap from the Johnson's?

JGM/VH: No, if you are worried about erosion in an unarmoured excavation. Presently, we do not see the need to start the haul from the Johnson's.

BH: The main dam is to be completed by September 16. Do we need to reclaim the temporary diversion. **(Action: JGM to check.)**

BH: Can we meet schedule?

CV, RG: Yes

KD: Yes, but we need to have meeting next week to review schedule. KD will not attend but Peter Densmore will. PD wants to visit Mount Nansen each week.

CV: Originally, I wanted the building as close to the pit as possible with a protective berm. But we will move it.

KD: Can we begin construction of the mechanics shop at this new location?

BH: Yes. Now back to the dam. I understand that the timesheet review arrangement is working better.

RG: (Dewatering discussion.)

CV: Pumps are rentals, but the hose was cheaper to buy.

BH: BYG owns hose.

KD: Yes, and the 6 inch pump (approximately $2400/month rental) and other rental pumps are invoiced directly to BYG.

CV: The 3 inch and 6 inch hose has been purchased, the 4 inch hose rented.

KD: I'll look into buying the 6 inch and 4 inch pumps if it is cheaper than renting.

RG: Daily timesheet review is working good. Ketza fills out sheet, JGM reviews, then VH reviews on site.

BH: VH will sign timesheets.

KD: August 1 we received quantities form Logan (Surveyor) and we've billed. Hourly from June 30th to July 27th will be invoiced tomorrow.

RG: We would like the Klohn-Crippen daily reports.

BH: OK.

RG: (Pit schedule presented.)

BH: (Reviews pit schedule.) There will be no seasonal shutdown at the pit or mill. Anything else?

JGM: The completion of the tailings facility on time will require that key equipment such as the trucks, dozer(s) and hoe be kept running with a minimum of down time.

BH: What are your comments CV?

CV: Things look good. The pit is under control. We have hired a driller-blaster.

KD: Rolland will be the project manager. CV will be strategic planner for dam along with TC and VH, but mainly to get equipment for the pit. TC will be the main dam man. Daily timesheet review will be by TC, VH and JGM.

CV: We are full at camp and I have been keeping Cam informed. The D6 is due back in two days.

RG: We need mechanics shop. If necessary, we will bring in our own sleeping accomodations.

BH: Anything else? (No.)

RG: When is Logan back.

BH: Logan had an operation and will be in BYG's Whiterhorse office tomorrow (Wednesday).

RG: Logan will do quantities for Dam 1.

BH: Yes. The Johnson's should be informed of progress.

CV: Yes, I've been talking to them.

BH: Does CV have any concerns.

CV: No, JGM and TC have been doing good on timesheets.

BH: Do you want weekly meetings.

CV: Yes.

BH: I'll likely be here Monday to Wednesday.

RG, KD, BH, CV: (Agree that next meeting will be Wednesday, August 14 at 13:00)

BH: Turnarounds.

CV: Ted will be off in two weeks for one week.

KD: We would like VH to sign and submit timesheets and all daily reports from June 30 to today. **(Action: JGM and VH)**

KLOHN-CRIPPEN

Meeting adjourned.

Distribution
All attendees.

KLOHN-CRIPPEN

Meeting Minutes
2:30 pm Wednesday August 14, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.109

Present: Mr. Bob Hinkkuri, BYG Resources Ltd.
Mr. Vince Hunter, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Construction
Mr. Rolland Girouard, Ketza Construction
Ms. Peter Densmore, Ketza Construction
Mr. Ted Crabtree, Ketza Construction
Mr. John G. McKay, Klohn-Crippen Consultants Ltd. (Recorder)

Location: BYG office at Mt. Nansen

BH: Review of last week's minutes by RG.

RG: Karen Shell, not Karen Densmore.

PD: Mount Nansen mechanics include Cam (TC's son) and Dennie (Guaranteed Rentals), but Dennie is for only one more day. A new mechanic will arrive sometime this weekend.

RG: *Continued with last week's minutes.*

BH: The equipment has improved. We need equipment up and running.

PD: Further, we have bought a 9L dozer and a 988 loader. The 9L needs some more work, but the 988 will be on site early next week.

BH: Pit is behind schedule.

PD: Nareesh, the Mine Inspector wants to approve BYG's Pit Plan before work can start. Does mill need ore for testing?

BH: There is no conflict here. Everthing regarding the Pit Plan is in place and we need a review by a Mining Engineer only before presenting to Nareesh.

PD: We will be ready to work on the Pit by next week.

BH: We need to build road yet and we can use borrow area near pit, but we are not going too use ore to build the road. John Eggert, the Mill Superintendent wants marginal ore to start mine.

PD: Drill coming from USA and will be tentatively shipped this Tuesday.

PD, BH, CV, VH, RG, TC: *Drill and pit first aid discussions.*

RG: *Minutes continued.*

BH: During the initial site visit by contractors it was clear that dewatering charges were to be included in contract volume prices, yet BYG is being invoiced for dewatering.

JGM: Labor costs for dewatering over the last week have varied from 2 to 3 men per day at 10 hours per day totaling up to $1000 per day. The point is that it is very expensive.

PD: This is not the time to go through dewatering costs. PD and BH to discuss this later.

BH: We did talk about getting Joe Doucette on nightshift, however he was put on days.

RG: *Minutes continued.*

BH: Things have improved over this week.

TC: We need additional rooms for our crew.

BH: The camp is full.

TC: Therefore, Ketza will have to supply sleeping accommodations.

CV: The Contractor doing Victoria Creek wants to eat at Mt. Nansen.

BH: Meals-ok but there are no more rooms.

PD: We need to provide sleeping accommodations in approximately one week for three men and also perhaps for myself for this weekend.

PD: I do not think the schedule is in jeopardy.

JGM: But we are not half done this project.

TC: Dam 2 is almost done.

CV: *Some discussion about long-term access to Dam 2.*

PD: For now let us concentrate on the Tailings Facility. Regarding the Emergency Spillway Borrow for Dam 1-

TC: We have an agreement between JGM, TC and BH on that.

BH: Logan and helper (Surveyors) will be on site Thursday to survey Dam 1 for volumes.

PD: I am interested in compaction data.

JGM: The compaction appears to have been satisfactory.

PD: We want to receive the Geotechnical Report on the Pit.

VH: The report is in the works and once completed and approved, Ketza will get a copy.

Further Pit discussion.

TC: I will be on days off from August 27th.

PD: I may replace TC on site.

BH:
Meeting adjourned at 3:30 pm.

Distribution
Mr. Ted Crabtree, Ketza, Mount Nansen
Ketza Whitehorse, fax number (403) 667-4149
Mr. Bob Hinkkuri, BYG Whitehorse, (403) 668-2300
Mr. Vince Hunter, BYG Mt. Nansen

KLOHN-CRIPPEN

Meeting Minutes
10:40 pm Wednesday August 21, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.109

Present: Mr. Jim Pirie, BYG Resources Ltd.
Mr. Vince Hunter, BYG Resources Ltd.
Mr. Logan Hind, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Construction
Mr. Rolland Girouard, Ketza Construction
Ms. Peter Densmore, Ketza Construction
Mr. Ted Crabtree, Ketza Construction
Mr. John G. McKay, Klohn-Crippen Consultants Ltd. (Recorder)

Location: BYG office at Mt. Nansen

JP: Outstanding from last weeks meeting.
VH: Correction to RG's minutes: 2/3's height of tire, not full height.
RG: Stamping pit plan by engineer, not Malcolm Slack.
JP: Regarding Nareesh: He wants to keep tabs on Pit, and be comfortable with Engineer's experience. Regulations include mine drawing approved by Engineer. These procedures will demonstrate and ensure our due diligence. We will do the job right.
PD: Next 769 ready and will be here soon. There is some waste to remove for haul road.
VH: There is some organics to strip now.
PD: One 769 is back up for dam rock trucks. 9L in on weekend and we will keep 9N on site because cost is only for actual machine hours.
VH: About three weeks to do mine haul road from pit.
PD: 769's not needed now on dam, therefore they can work on road.
VH: If not ore, top material from pit will be used for road.
LH: Judging from grades in trenches, a geologist may be required to determine what is waste or ore. I recommend every hole be picked up and sampled at 3 foot intervals.
PD: We can straighten all this out in the next week.
VH: We can start on portions of road that are out of the pit area.
JP: Regarding the Pit:

- Approval
- Stripping- waste/ore distinction by BYG.

VH: Ketza equipment rates are the same as for pit as for road.
JP: Let's move to the dam.
JGM: At this rate, we can complete the tailings dam on schedule.
LH: Fill placement has doubled in the last two weeks.
PD: Other items besides the fill include GCL, but only 15 days of hauling remain.
JGM: We should discuss Johnson Haul.
PD: We will get a grader to work on the road and we will use four gravel trucks and load either with the Johnson's loader or our own 966.

JP: Will this road work be done on our claims? If not, we require permission. We may require a land use permit also.
PD: We plan to haul and stockpile half of Johnson riprap. Then ½ to the Emergency Spillway, hauled later and placed directly. This way we can keep the hoe busy.
JP: Logan to check on road claims and double check with Mark Langdon.
PD: We are going to bring in a grader. Roadwork should begin Monday.
CV: I will talk to Johnson's and keep them informed.
LG: We are not on BYG's claims and need approval.
ML: The Johnson's are on Aurechem property only.
JP: Double check and we will be OK.
CV: There are other miners involved.
JP: Dam program looks fine.
PD: How are the rooms.
VH: Ketza has been allotted 17 rooms.
JP: The Water Resources letter indicates they are happy and they reminded us about some license conditions including 90 day submission of as-builts. Thank you all for responding to the Water Resources people.
CV: There may be stripping at the Emergency Spillway, and what about ripping costs?
JGM: We have a written agreement on the ES which includes all hourly and volume charges. The ES should have been started earlier to allow thaw to facilitate excavation.
JP: Meeting adjourned.

Time: 11:30 am

Distribution
Mr. Ted Crabtree, Ketza, Mount Nansen
Ketza Whitehorse, fax number (403) 667-4149
Mr. Bob Hinkkuri, BYG Whitehorse, (403) 668-2300
Mr. Vince Hunter, BYG Mt. Nansen

KLOHN-CRIPPEN

Meeting Minutes
11:00 pm Tuesday September 3, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.109

Present: Mr. Bob Hinkkuri, BYG Resources Ltd.
Mr. Vince Hunter, BYG Resources Ltd.
Mr. Peter Densmore, Ketza Construction
Mr. Chris Verrico, Ketza Construction
Mr. John G. McKay, Klohn-Crippen Consultants Ltd. (Recorder)

Location: BYG office at Mt. Nansen

BH: Let's review minutes from last meeting.

JGM: *Reviewed August 21, 1996 meeting minutes; nothing outstanding.*

PD: What are the details on the Geosynthetic Clay Liner?

JGM: *Constructed diagram (attached).* GCL will extend to elevation 1150.7 m. GCL should be placed on a 2.5:1 sand slope which is in 4.5 m horizontally from the outer 2.5:1 upstream slope. The top of the liner should be keyed in. Above the liner, should be 0.3 m of sand fill and then 0.5 m of Victoria Creek screened gravel to bring the dam up to 1151.5 m final elevation. The above is subject to change.

PD: We plan to install the liner in four days. We have lost one week. CV is getting extra people for the GCL installation from the Band. Ketza wants to work longer hours. The third truck (Cat D250) will likely be on site and working in three days. Regarding the packers, the drum bearings have gone in both the IR100 and the IRSP-54. The IR100 should be repaired by Thursday. Ketza may keep the new IR100 that is on site today for a backup. The scheduled completion date of September 15th will be met. But I am not sure of the downstream make-up fill though, and armouring.

BH: There are two other jobs related to the dam.

- Reclaim water intake: VH: Excavation attempted but only reached 0.9 m due to frozen material. We need to dig down to 3 m.
- Tailings Line Spigot Winter Location: We can not spigot off the top of the dam this winter. Mike Ross has provided input. This is related to the timing of the dam completion which now may be almost into October. We do not have the time to build a beach. We will dump from upstream of the dam and impound water against the dam and spigot off the top of the dam next summer.

BH: Other than that the dam is going well and the weather is holding.

CV: Johnson haul road repairs underway. When Vince is done with tandem truck(s), we will use them for the dam.

JGM: Please read the Site Meeting Report that I have handed out. As it says in the report, it is part of this meetings minutes.

JGM: *Go over report (attached).*

JGM: Additional to the minutes, we are all clear that the 1.4 m average make-up fill placement on the downstream side of the dam is to be paid on volume not hourly.

PD and BH: Yes.

PD: Regarding the Emergency Spillway section. I was told that JGM would not let Ketza facilitate thaw by pushing sand with the dozer on the last two days we took off.

JGM: I have several points in response to that:

- I never shut down Ketza this weekend.
- Paul Smarch requested hourly work continue with the 245 Cat hoe in stripping blacks at the exit point of the ES and he also requested D9N hourly time stripping organics from between the present two shale borrow areas.
- I felt that these hourly items were best completed when the ES was further excavated to allow easier access to the organics. Also, Ted Crabtree and I discussed using the D9N to push shale to a loader when we were hauling to place this material. We felt that the D9N could keep ahead of the loader and therefore strip between the borrow areas at this time more efficiently.

BH: The mill will be operating on September 23, 1996. Tailings facility portion of meeting adjourned.

Time: 11:45 am

Attachment: *GCL liner installation details.*

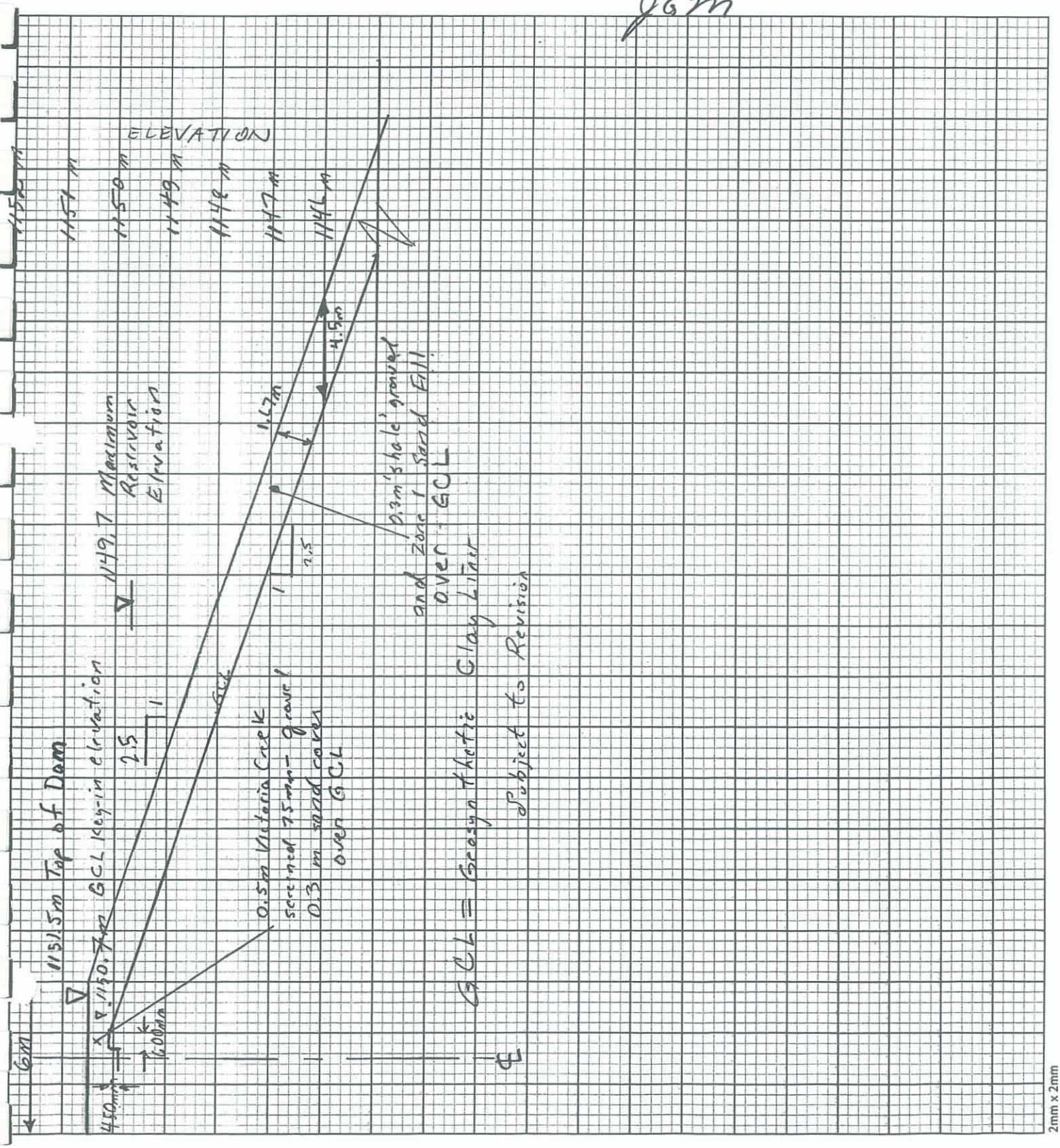
Distribution
Mr. Ted Crabtree, Ketza, Mount Nansen
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Mr. Vince Hunter, BYG Mt. Nansen

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Date September 3, 1996 Project Mt. Nansen Tailings Facility.

Job No. PM5314.109 GCL Final Lift Details

JGM



2mm x 2mm

KLOHN-CRIPPEN

Site Meeting Report Tuesday September 3, 1996
Mt. Nansen Tailings Facility Construction PM5314.300(B)

Introduction: The purpose of this report is to communicate to BYG and Ketza project information. Components of the Tailings Facility and construction related items such as equipment, supervision and schedule are presented in this report. This report is to be included in the minutes of this meeting.

Dam 1

- Downslope side is underbuilt by 1.4 m on average and must be keyed in with 250 mm horizontal lifts to 95% of Standard Proctor Density. I estimate this will take at least one week extra.
- Fill placement has been terminated since August 28 in afternoon when the last packer went down. The 'backup' packer, the IRSP-54 went down on August 24 and was not repaired. Variable amounts of Zone 1 fill remain across the dam. Also remaining are the Geosynthetic Clay Liner installation, upstream slope sand fill and gravel surfacing.

Organics Removal: As stated in the Water Licence, waste organics are to be hauled to the designated disposal areas unless otherwise approved by the Engineer. Designated organics disposal areas are north and south of the Temporary Diversion Ditch. Ketza was preparing a snake pit (buried organics pit) south of the ES and directly above the natural steep sand terrace.

Emergency Spillway: Much work remains including stripping, excavation and erosion protection. Excavation to be facilitated by thaw. The delay in the ES was due to not having equipment (dozer). As agreed in writing on August 17th, all fill from downstream of Dam 1 centerline (20550 E) is considered borrow. This material if ripped, must be thawed before placement as fill. Further, if Zone 1 fill is no longer required because the Dam is complete, then the agreement stands and excavation will continue with only dozer time paid for on an hourly basis.

Riprap Emergency Spillway 10% Grade Zone 4: Haul road from Johnson Mine to ES has been graded. Culvert remains to be installed.

Dewatering: As always, dewatering and the related protection of the Tailings Facility is the responsibility of Ketza; this includes days-off.

Equipment

- IR100 and IR SP-54 packers down, although another IR100 arrived September 2nd in the late afternoon.

- Two rock trucks down. I took six time trails on the short organics haul from the south downstream end of the ES to north of the organics waste area. The 245 hoe was loading two rock trucks. Average times are 9 minutes complete round trip per truck including 45 seconds of loading time.
- We have been delayed at least one week due to down equipment.

Supervision: Mr. Ted Crabtree has been doing a very good job. When is Ted returning? In the meantime, Ketza has been using two supervisors.

Schedule

- The tailings facility must be operating before the mill. As unseasonable weather approaches, delays may jeapordize the completion of this project. Delays will increase costs and may result in design modifications such as the use of shale in place of sand fill on the downstream slope. Ketza has made improvements in early August but progress has slowed over the last week.

- The deadline of September 16th remains. Schedule Mr. Rolland Girouard presented at August 6th meeting was never approved. At that same meeting, the deadline was set at September 16th. On July 24th, I submitted a Status Report prepared with input from Mr. Ted Crabtree. The summary of the schedule from that report included:
  - **Main Dam:** seven weeks, September 11, 1996
  - **Emergency Spillway:** five weeks (from D10 arrival), September 4, 1996
  - **Reclaim and Cleanup:** two weeks (from September 11), September 25, 1996

Closure: Ketza construction, for the most part, has provided high quality work and much appreciated input into the tailings facility design. I thank your company for your efforts and look forward to a successful completion of this project.

Regards,

J.L. Mc Kay

John G. McKay
Geotechnical Engineer
Klohn-Crippen Consultants Ltd.

Distribution:
- *Mr. Bob Hinkkuri, Mine Manager, BYG Resources Ltd*
- *Mr. Peter Wheeler, Project Manager, Klohn-Crippen Consultants Ltd. (by fax)*
- *September 3 Site Meeting Attendees*

BH: Can we rip; how late can we wait? Johnsons are leaving on September 20th. We must not leave them with a mess and we must arrange things with them. Can we leave the ES until next year when we have pit rock?

PD: Are we not getting paid for the ES?

JGM: I will pursue leaving ES until next year.

BH: Power line has been strung at the Dam. Operators should be informed. Is the schedule for completion of Dam still September 16th, at least with regard to being able to pump tailings.

TC: Yes.

BH: What will your crew size be when you have completed the dam?

TC: We will only reduce the short-term laborers we hired for the GCL. What do we do with the GCL wrapping?

BH: Carmacks dump. How many men total today?

CV: About 23 people.

BH: Will those 23 will be reduced by 4 or 5 in the next few days? Do you need those rooms?

CV: Yes, for pit work also.

PD: I can get two gravel trucks out of town.

BH: How much Zone 4 has been hauled to ES.

CV: About 800 m^3.

BH: We are short of rooms. We have a Nodwell with four rooms. We need some people there.

CV: I'll move in.

TC: I'll move in and Cam, my son, will also.

BH: Can you get by with 21 rooms?

CV: That should be good.

BH: I need to talk to the Mill people regarding pumping.

PD: We may be able to apply rental to the purchase of the 6" diesel pump.

BH: Do you need anything from us at the Tailings Dam.

TC: Yes, we need finishing slope at the US right away. Just the starting point is all we need.

LH: OK.

BH: We will keep the temporary diversion ditch and we may have to route water through there. The ES was meant to be paid for on a volume basis. Now this won't happen. So thus we have a problem. How do we handle this.

PD: The pit may have bigger rock for the ES.

BH: Keep scraping the ES. Then when the Dam is done, we will get on the ES hard.

TC: One question. On the nose, if we get up to a certain distance, we should start shaling the outside.

RG: Also, there is a lot of water going down the south gulley upstream of the Dam.

BH: Yes, that is why we have to review pumping. OK, the Tailings Dam portion of the meeting is over.

BH: *Hand out copy of the Pit Geotechnical Report.* What do you need from us?

PD: Tony Siealinski will be here September 23rd, he is the new Pit Boss. His wife wants a job at BYG. She is a qualified 1st Aider.

BH: We will keep her in mind.

CV: We have pit limits. Mark Langedon wanted to be here when the pit is stripped. Once stripped, we need the cut laid out.

BH: Pit shop. We looked at an area in the bone yard and it is being built in another spot. It may or may not be a problem.

CV: We wanted the shop doors on the south side.

PD: Are we going to put a berm in for blast rock?

CV: We can place waste rock there.

BH: Have we a dedicated equipment list for the Pit? We want two separate timesheets, one for the Dam and one for the Pit. On the equipment, just because we have two dozers, and so forth- a lot of equipment, they do not have to all be working. The other day there were two dozers in the same area. This is not efficient. The grader was also on the road when it was not necessary. I don't think this is required and I will not have someone keeping time. This must be open and honest. I do not want it to be 'Us and You', it is 'Us'. We must work together and we want to be here a long time.

PD: I understand and that is the way it is going to be.

BH: I know that trucks at the Johnson haul have been down. These things must be recorded accurately on the Ketza timesheets.

BH; We need 30 feet of road and berm.

PD: Why can't the trucks stay together?

BH: We need communication for efficiency. But we still need a 30 foot road.

CV: There are only two trucks and they have radios.

BH: You are welcome to use the BYG frequency. Many times equipment is unavailable due to breakdown. Can you let Vince Hunter know what is happening every morning. Also, we need to set a start time.

CV: Start time is 7:30 am.

BH: Start time, lunch times. All the same lunch. If you lunch at camp it takes one hour. BYG can not afford to pay for this. Schedule a daily meeting to let VH know what is happening. You tell us the time to meet in the morning with VH. Also, what are you going to do with local hires.

PD: Ten people are required for the pit. Out of that are 3 to 4 job possibilities for First Nations.

BH: We are adding one native person, extra, per shift. Maybe we should make it five openings for natives. The shift schedule needs to be determined.

PD: We need to talk to Tony. We will have two people feeding the mill.

CV: We have a problem with storage capacity of the mill. We will campaign.

KLOHN-CRIPPEN

Meeting Minutes
11:10 am Wednesday September 18, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.109

Present: Mr. Bob Hinkkuri, BYG Resources Ltd.
Mr. Logan Hind, BYG Resources Ltd.
Mr. Mark Langdon, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Construction
Mr. Ted Crabtree, Ketza Construction
Mr. John G. McKay, Klohn-Crippen Consultants Ltd. (Recorder)

Location: BYG office at Mt. Nansen

BH: Let's review minutes from last meeting.

JGM: *Reviewed September 11, 1996 meeting minutes.*

BH: How long will it be before the Tailings Facility is completed?

TC: We have had packer problems and have lost two days. 1 ½ days remain if all goes well.

CV: That is for the sand only. We are optimistic.

TC: We had to overbuild the downstream side to layout the GCL.

JGM: My estimate is at least three days on the US slope, one week on the downstream slope and that is with at least three trucks running.

BH: TC is leaving on the 20th in the evening.

TC: Should be no problem. Paul Smarch and Peter Densmore will provide supervision. I will be gone for 3 to 4 days.

CV: Crew is tired, but we will continue on the Dam. Pit crew will be off Friday to Sunday.

JGM: If weather goes bad we will add shale instead of sand fill and it will be expensive.

TC: Regarding the ES, the sand is dry but we can mix it.

BH: It is the 18th today, when will the upstream side of the dam be completed.

BH: To start the mill will process 350 to 400 metric tonnes per day. The peak will be 700 metric tonnes per day.

Meeting adjourned.
Time: 12:18 pm

Distribution
Ketza, Mount Nansen
Ketza Whitehorse, fax number (403) 667-4149
Mr. Bob Hinkkuri, BYG Whitehorse, (403) 668-2300
Mr. Vince Hunter, BYG Mt. Nansen

CV: This weekend, the sand fill on the US side will be completed. Then the downstream side sand fill will be carried out.

BH: To summarize, by the weekend, the US side will be completed for sand fill.

TC: Four days, by Sunday we should be done.

CV: This is a brand new packer we have now.

BH: How are the rooms.

CV: We are getting by. The rock haul may be done this weekend. There are four trucks on it now. We are getting about one load per hour per truck. We have had some truck problems. This will free up three rooms.

BH: VH will you need those trucks?

CV: The Victoria Creek gravel still has to be hauled.

VH: May need two or one trucks for ½ day and a loader.

BH: Tell Phil Veenhauf that when his trucks are finished they must be parked off the property.

VH: Causeway ongoing.

BH: We will haul organics from Causeway and dump. Ed Farrell will bring a 4 foot diameter culvert out.

VH: We are adding one more power pole at the dam.

BH: Logan, what do you have to say.

LH: Nothing, but please inform me of your surveying needs.

JGM: Victoria Creek Gravel may go to the top of dam or to the 0.1% grade of the Emergency Spillway.

VH: Gravel borrow for the dam. There is additional shale available, located northwest of the intersection of the dam access road and the old road to Carmacks.

BH: Is that it for the Dam?

JGM: Yes, as far as I know, Ted?

TC: We are doing our best.

BH: We did try for the 16th, but we had equipment problems. Now the Pit. Last week, I asked what you needed. You said stakes. Men are off Friday to Sunday and back Monday. Mark Langdon is back Monday Afternoon.

CV: Tony will be out Monday- he will talk to Mark. We can take the cat up. There is very little stripping.

BH: We want to start a the south narrow end. *Presents Pit Plan and discusses approch. Presents Longitudinal Section. Discussion.* Survey out limits and start at the south. We will adjust as excavation progresses. Waste- most waste to designated areas to West.

CV: Should we continue with haul road until tomorrow?

BH: It is up to you. We should continue here for now. To me, we should only need one cat dozer at the pit now.

CV: We will keep priority on haul road.

BH: Discourage any vehicles from using pit roads. All dam people should use dam road. Only people working in area should use the old road.

CV: We need one D9 at the Dam.

BH: Could not a dozer push up material for the 988 and have him move around? Because we need the third dozer elsewhere.

ML: Most of the ore zone is on the east side of the Pit.

BH: Move road to next week.

CV: Ore is handy if we need to make a quick grab.

BH: Ore will grade from sand to gravel and boney material.

ML: The main vein is wide, but we have smaller veins.

BH: We can sepearate piles of different grade ore. We need some stockpile areas at pit- low grade and high grade. There will not be a lot of waste material as it is going on road.

ML: Any segregating of sulphide zones?

BH: We will look at it if present.

ML: So we can make adjustments in pit perimeter.

BH: Yes. Klohn-Crippen report also says walls and so forth are to be looked at and design adjusted if necessary.

ML: Any drainage should go to the southwest towards the Dam reservoir. We will need more road material.

CV: The power line people say they can run power to Ketza Shop.

BH: BYG won't pay for it. But they can use leftovers. We need to know how much power you are going to use because it will take more fuel, although we could be supplying fuel for the generator anyway.

ML: Can I put a core shack by the Ketza Shop if power is there?

BH: Yes.

CV: Power for shop should be about 10 kilowatts.

BH: I'll check with the Electrical people. Anything else on the pit; Mark?

ML: No.

BH: Everyone should stay off the old road to Carmacks. Chris, you could layout culverts to block them out.

ML: How will they stop drainage to the northeast?

BH: I think it should be okay. The water will be monitored from Pony Creek and the Brown McDade Portal. The push is on the road and dump area.

Meeting adjourned.
Time: 12:20 pm

Distribution
Ketza, Mount Nansen
Ketza Whitehorse, fax number (403) 667-4149
Mr. Bob Hinkkuri, BYG Whitehorse, (403) 668-2300
Mr. Vince Hunter, BYG Mt. Nansen

KLOHN-CRIPPEN

Meeting Minutes
10:10 am Wednesday September 25, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.109

Present: Mr. Bob Hinkkuri, BYG Resources Ltd.
Mr. Logan Hind, BYG Resources Ltd.
Mr. Mark Langdon, BYG Resources Ltd.
Mr. Chris Verrico, Ketza Construction
Mr. Tony Zielinski, Ketza Construction
Mr. John G. McKay, Klohn-Crippen Consultants Ltd. (Recorder)

Location: BYG office at Mt. Nansen

BH: Let's review minutes from last meeting.

JGM: *Reviewed September 18, 1996 meeting minutes. Some discussion as follows.*

BH: We must prepare the upstream part of the dam and begin filling the reservoir. This includes hauling out of south abutment organics and finishing the upstream shale placement. The small culverts remaining at the haul roads in the reservoir may not be retrievable. How are the rooms?

CV: We are ok but tight.

BH: Your room allotment includes 17 bunkhouse and 4 outside.

CV: Yes and that includes all Ketza people working at the mill as well.

BH: Victoria Creek Crossing screened gravel stockpile.

JGM: As we discussed, a portion of that material could go to the flat portion of the emergency spillway and the majority to BYG's yard, dump area and the road near the office.

CV: I will arrange haul equipment for this gravel.

JGM: Work remaining on the dam includes upstream shaling, downstream filling, downstream shaling, south abutment blacks removal, top of dam shaling and the emergency spillway.

CV: We have several weeks left with 6 to 7 men.

BH: The emergency spillway will be worked on after the Dam.

VH: The reclaim causeway. We want to get on it. We want the pump and causeway locations on a plan. There is still one more power pole to place.

JGM: The borrow or other work near the sand terrace on the north downstream of the dam can cause future stability problems. I never wanted Ketza to continue using this area.

CV: We had to overbuild the downstream top portion of the dam to facilitate GCL placement. The material is there now and we have to repack.

BH: OK. BYG will pay for hourly work for the D6 and the packer to repack this material.

CV: Logan, can we get a volume on the dam as soon as we are finished with the sand fill. Also, permanent dewatering of Dam 2 needs to be taken care of.

TZ: *Requested some specific survey needs a the pit.*

BH: What is the pit crew shift schedule.

TZ: We can not work continuously. I suggest 10 days on and 4 days off with 10 hour shifts.

BH: VH may follow your schedule. We need to stockpile for the four days off.

TZ: The ground at the stockpile area at the crusher should be level and surveyed. Because of sliver veins, I am looking for a dozer operator with experience with ore evaluation.

Pit drainage discussed.

TZ: The ore extends beyond the present boundary of the pit, particularly at the south.

BH: We will go with existing plan and deal with possibilities as they arise. The present plan is good for one year. Power to Ketza shop.

CV: Actually to correct last weeks minutes, it was 100 amps or 25 KV.

BH: The electrical people say that 25 to 50 KV is ok.

CV: Then I'll talk to the Power Line people.

BH: The push is on the road. I think the road is being made too thick.

CV: We will narrow the road. We will be radio controlled.

BH: Leave organics that are there. I asked Ketza to leave existing road alone. We may have to start hauling ore from the pit with gravel trucks.

TZ: We want a proposed dump site for waste and signs for low grade, waste; blast signs. We need a siren for blasting. Blast guard areas and proposed blast times.

BH: What do you need from BYG?

TZ: Nothing. Logan is going to provide some surveying.

ML: Starting Tuesday for about one week, I can have someone helping to check the ore.

LH: How are we going to estimate volumes at the pit.

BH: Survey control and weight-o-meters at the mill- tonnage milled.

LH: So I do not have to keep daily track?

BH: No. We will keep track through the mill on a monthly basis.

CV: Main access road to site, is Ketza going to do it.

BH: The Territorial Government looks after glaciers and BYG looks after other road work. We may have to put a grader on the road. We have not chosen who will do this.

CV: We need culverts for ore haul road at the foot of the ramp just this side of the shop.

BH: We may have to retrieve culverts from the tailings area. We are ripping first then blasting later.

BH: We have a compressor here we are shipping back to Guaranteed Rentals. If you want to rent it let us or GR know. It is 185 cfm.

Meeting adjourned.
Time: 11:10 pm

Distribution
Ketza, Mount Nansen
Ketza Whitehorse, fax number (403) 667-4149
Mr. Bob Hinkkuri, BYG Whitehorse, (403) 668-2300
Mr. Vince Hunter, BYG Mt. Nansen

KLOHN-CRIPPEN

Meeting Minutes
10:00 am Wednesday October 2, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.109

Present: Mr. Bob Hinkkuri, BYG Resources Ltd.
Mr. Vince Hunter, BYG Resources Ltd.
Mr. Logan Hind, BYG Resources Ltd.
Mr. Ted Crabtree, Ketza Construction
Mr. Tony Zielinski, Ketza Construction
Mr. Rolland Girouard, Ketza Construction
Mr. John G. McKay, Klohn-Crippen Consultants Ltd. (Recorder)

Location: BYG office at Mt. Nansen

On Table are a Tailings Facility Plan and a Pit Plan.

BH: Let's review minutes from last meeting.

JGM: *Reviewed September 25, 1996 meeting minutes. Some discussion as follows.*

VH: The culverts that were in the haul roads at the reservoir were retrieved.

TZ: *Provided Ketza room status.*

JGM: Remaining work (but not necessarily all) on the dam includes:

- On the native south abutment near the downstream edge of dam, the moss has been removed and some cover material, likely shale should be placed to reduce thaw in spring.
- South abutment downstream side needs shale touchup on exposed sand. Native-fill interfaces need to be protected well from erosion.
- North abutment at the emergency spillway needs shale, perhaps a piece of GCL. This location needs special attention and finesse to protect against spillway erosion.

JGM: Also, my direction was not followed regarding the work that Ketza has carried out at the sand terrace. My daily reports of August 27th, September 23rd and 24th and verbal instructions giving to Ketza were ignored. Ketza got a cheap short haul of sand from this sand terrace to the dam. This area is now being backfilled with frozen spoil from the emergency spillway. There may be problems with stability of the sand terrace, runoff to Dam 2 and for future raises of Dam 1 much of this uncontrolled fill will have to be removed and replaced with engineered fill.

TC: *Summarizes work ongoing.* Two dozers presently, and 3rd 9 coming (?). For the emergency spillway, when the rock (Zone 4) is placed Ketza plans to use the hoe to load trucks, the trucks back down and dump and the D6 will spread out.

JGM: We must watch this to ensure that segregation is minimized. The report says that the Zone 4 should not be pushed by a dozer.

BH: How much is left?

TC: On the emergency spillway, there are four days of excavation, two days to install the filter cloth and layout the rock if we can use the dozer.

JGM: The Zone 4 extends 10 m into the 0.1% grade portion of the emergency spillway. If we run out of filter cloth we will use 300 mm of gravel or shale.

TZ: We are giving the Pit crew the weekend off. I need Larry Trikker and hoe, hopefully by noon today. I need to start building a berm for rest of day.

BH: Dam causeway and reclaim. Organics removal.

VH: We are going to move road over to the west about 20 to 30 feet in line with pipeline.

TC: We may not need to move road if we can shorten spillway intake.

JGM: It maybe fine, we will look at it. I think that it will be ok. We want to beef up the north side of the dam near the emergency spillway. I will briefly summarize portions of the history of our agreements on the emergency spillway.

- June 27, 1995- Initial contract designates emergency spillway area as borrow to be included as unit price main dam, load, haul, compact fill.
- August 3, 1996- The memories seem to differ on why the emergency spillway was left too late to thaw. We recognized that this may be a problem early in the job and I presented a memo on August 3, 1996 to document that the emergency spillway was a borrow area, was being neglected, and had to be worked to facilitate thaw.
- August 17, 1996- Ted Crabtree and I came to an agreement on how we thought excavation of the emergency spillway should be paid by BYG. The agreement was presented in a memo and signed by both of us. The agreement includes:

  "• Downstream portion of the emergency spillway from the intersection with Dome Creek east of Dam 2 to coordinate 20550 East (centerline of the dam).
    - This section of the emergency spillway will be similar to other borrow areas where suitable material is removed and placed as fill in Dam 1 and paid for

on regular volume contract with no additional hourly charges except for one dozer as necessary."

"• Upstream portion of emergency spillway from reservoir intake at elevation 1149.7 m to 20550 East.

- Hourly for all equipment."

- September 3, 1996- At this and other meetings, we discussed emergency spillway billings.

BH: We may not resolve the emergency spillway payables today. BYG will be as fair as possible as always. I hope Ketza will feel the same way. Peter Densmore wants to be fair. We want the emergency spillway done quickly.

TC: On timesheets, the emergency spillway work is separated. I will do what I have to do and am not worried about charges.

BH: Just monitor equipment.

TCH: Like fighting a fire, first you put the fire out and then workout payment later. We have a job to do and we are getting it done.

BH: Is that it for the Dam? Logan volumes.

LH: I am going to pick up the whole dam- by Monday I should have the final volume in.

BH: John are you happy with the Dam?

JGM: For the most part. The dam was designed with a tailings beach on the upstream face, but I recognize schedule problems and mill requirements. Close observation is important.

BH: If we spigot at the upstream face now we will get ice in with the tailings reducing the capacity of the reservoir.

JGM: Please avoid rapid drawdown of the reservoir.

BH: OK, that is it for the dam. I have had discussion with Peter Densmore regarding the tailings dam because of the delay in schedule, BYG is behind in water at the reservoir. If no reclaim water is left, we will need to use existing well water. Any problems with the well water and the mine is down. Water well holes with the Redrill near the mill will be drilled. Bill Mason says that three holes with a pump in one and a connecting manifold to keep the water flowing (to tailings) to prevent freeze-up. If there is a problem with the water line, we will switch. This may lower the groundwater table around the mill which is better too.

VH: We are also using French drains with the cocomat and the 3"+ screened rock stockpiled at Victoria Creek.

TC: Where do you want the remainder of the cocomat? We want to clean up.

VH: It can be stored in the bone yard.

JGM: The cocomat is not made to be a filter to separate different sizes and may not work.

TZ: On the 10th, the dozer is up (?). We want to run power to the shop. Power poles, old tires. We will use power line. 25 KW required.

BH: Fuel- we have 1 x 100 foot roll of absorbant on site.

TZ: We have some small pads; and polyurethane and we will make a lined pad for the tank.

BH: We are finished with the 5000 gallon tank from Frizell.

TZ: We already have a tank. We will find a location for the tank for gravity feed.

VH: We need Mark Langdon to sort out the pit.

TZ: At the south end of the mine, there are sliver veins. We are hitting copper and it is getting complicated. Bruce says we need a geologist. *Details short-term pit excavation plan.* We are stripping the pit now and started that on September 25th at 8:00 a.m.

BH: When are you in material that looks good, as you approach bedrock, it gets chunkier. We will take all of it. Spread out sulphide areas, however for these areas we do not want big chunks.

TZ: Bruce can take samples from every sliver vien now. Bruce wants Mark's direction.

BH: It is laid out and when you get closer to bedrock we can make minor adjustments, but we will for the most part stay within the pit limits. Viens 'spew' near surface making it difficult.

TZ: Crew schedule- I am working on a mine plan for Vince. This weekend: three days off; we want to get some good people of the dam.

BH: When can you haul ore to the mill? The road is a high priority. Once the mill goes it will still take months to get to 700 tpd.

TZ: I want to sort out men; leave dozer up on pit; Larry- push windrow and push waste down. Tonight we are having a crew meeting. The men are back Monday. What are those two vertical pipes in the pit?

BH: Those are old piezo pipes.

VH: You can just bury them.

TZ: I am drafing time and work schedule. Time: Wednesday start. 10 days working to 2nd week Friday continuously. Saturday, Sunday, Monday, Tuesday will be off, and then we start again of Wednesday. Holidays options- straight time with the last day off instead or they can take the holiday off. Service and Mechanical people- we need in on four days off. Their schedule will be different. We are keeping the Kenworth for truck back-up. We are changing the Ketza name for mining operations.

VH: There are also local trucking companies available.

TZ: Loaders for feeding the crusher area. If low on water or we are slow, there will be idle time on loader.

BH: BYG may buy own loader.

TZ: 1st Nations work sharing- BYG or Ketza feeding crusher. One week in and one week out. Two men on 12 hour + 12 hour x one week. Two guys each week. Whether BYG or Ketza does it. Only problem is reliability difficulties with 1st Nation personnel. 245 rock trucks (*?, likely hoe*) is being rebuilt. The 988 will stay and we will rebuild the torque converted here. We will have it to backup the crusher loader if it is Ketza's loader feeding the mill.

BH: Discussion with YTG regarding the access roads. They haven't got back to us and now there is a new government. They could like to look after the road entirely. But it is not in the cards. Options:

- YTG entirely.
- YTG looks after ½ the road.
- YTG looks after glaciers and culverts and BYG the rest.

TZ: Logan. Survey pickups- what is the program.

LH: For volumes?

TZ: Yes.

LH: It has not been decided yet.

BH: It will develop as needed.

VH: Portable scales may be brought in initially.

TZ: Geological support.

BH: We must get in touch with Mark Langdon and Mark may hire another geologist. He will work your schedule.

VH: Anything else?

VH: Discussion regarding new zone. We may do some more stripping towards the top with Larry's dozer. But we can not detract from the roads, pipeline; this is only if time allows.

TZ: We will downsize when the dam is done.

BH: When rooms are available we will start diamond drill program. This will require five rooms for the drill crew. It is progressing and should be all right.

RG: Couple of things Karen Shell wants. Meeting in town to review Pit contract.

BH: Go over yourselves first and we can schedule then.

RG: Haul road. Everything is signed off as hourly is that ok?

BH: We tried to stay out of the pit. Any stripping in the pit, we must use contract rates.

RG: Some contract items, for example B (?), are not being done.

BH: Some things have changed. If we can identify waste we will pile it, but I don't think we will see anything but stockpiles.

RG: We want categories for timesheets.

BH: Tony has a system.

TZ: Vince and I have discussed this.

RG: We can go over a lot of this later (?).

BH: Logan will be here at month end to survey.

RG: Also, we want to review methodology, we need to develop pricing.

Meeting adjourned.
Time: 11:45 a.m.

Distribution
Ketza, Mount Nansen
Ketza Whitehorse, fax number (403) 667-4149
Mr. Bob Hinkkuri, BYG Whitehorse, (403) 668-2300
Mr. Vince Hunter, BYG Mt. Nansen

KLOHN-CRIPPEN

Meeting Minutes
10:05 a.m. Wednesday October 9, 1996
Mt. Nansen Gold Tailings Facility Construction PM5314.109

Present: Mr. Bob Hinkkuri, BYG Resources Ltd.
Mr. Vince Hunter, BYG Resources Ltd.
Mr. Logan Hind, BYG Resources Ltd. (arrived 10:30)
Mr. Ted Crabtree, Ketza Construction
Mr. Tony Zielinski, Ketza Construction
Mr. John G. McKay, Klohn-Crippen Consultants Ltd. (Recorder)
Mr. Todd Armstrong, Klohn-Crippen Consultants Ltd.

Location: BYG office at Mt. Nansen

BH: Let's review minutes from last meeting.
JGM: *Reviewed October 2, 1996 meeting minutes. Some discussion as follows.*
Room status:
TZ: I have 12 men.
TC: I have one man but there are others.
BH: Please let me know your room requirements.
TC: 19 loads of shale were placed on the south abutment to provide cover on the upstream exposed native slope. Also the downstream side was touched up at the south.
JGM: There is also the north abutment shale to beef up and protect against erosion at the emergency spillway.
VH: We want to shorten the intake.
JGM: OK, but be careful and we will look at it in the field.
VH: TC wants to use shale from the old haul road for the causeway.
JGM: Sand Terrace Borrow and use as snake pit: I told CV not to borrow there, and then when he excavated the large 5 m by 15 m circular hole I told him not to fill it in until we had it surveyed, but he filled it in within ½ hour right in front of me. Again, there may be stability problems with the sand terrace particularly in the spring and the uncontrolled fill that has been placed next to the downstream end of the dam will have to be delineated and removed before the dam is raised. Further good native material was removed that will have to be replaced when the dam is raised. Use of this sand terrace as a borrow area was completely against my written and verbal instructions.
TC: I will landscape this area. I estimate one hour of landscaping. Can we use dozers to push Zone 4 rock?
JGM: Yes, but Todd must watch for segregation.
TC: We are tight with Johnson rock. Can we start at the downstream end?
JGM: I would rather start at the upstream end of the 10%. (*Subsequent discussions in field and ok to start at downstream end.)*

TC: I would like to use rock at the base and place shale on sides if we run out of Johnson rock. I want filter fabric installation details.
JGM: I will provide filter fabric details for you.
TC: Where do you want to start with the matting?
BH: Top of the ES is 0.1%, then further downstream, 10%. The matting and Zone 4 rock starts 10 m upstream of the 10% and 0.1% intersection.
TC: Crew coming in tomorrow to lay cloth for the ES. I also need the 966 loader.
BH: This snake pit does not affect this dam except for future raises.
JGM: We have a number for volumes. BH and I will discuss then release as soon as possible. *(Continuing following the minutes.)* Rapid drawdown should be avoided, *some explanation.*
BH: Rapid filling is more likely.
JGM: That is better.
TC: I have to rmove 1.5 lengths of culvert.
BH: Here is the priority of work: #1. Emergency Spillway. #2. Tailings discharge causeway. #3. Reclaim water intake.
BH: Culvert bent in reservoir at the diversion and needs repair. Anything else on the dam? John, how was compaction at the dam?
JGM: Compaction was not perfect but it will be fine.
BH: Logan, please survey the ES. You can use Rob or Chris.
TC: The change in the spillway intake location must be approved by K-C. Please shoot the new intake location in.
BH: Tailings dam portion of meeting done.
JGM: The Redrill three holes by Ketza for BYG at the mill.
TZ: We are preparing for that.
VH: We have not decided where to drill the holes yet.
BH: Still need location for diesel pit fuel tank. Mill to start Sunday. We need stockpiled ore at the mill. TZ knows where to get ore. Chris Caron will get about 12 samples for analysis in Carmacks. The results will be back Thursday evening or the next morning.
TZ: Pit stripping to date reveals there is good ore.
VH: Especially heading out to the east. We have central portions stripped.
TZ: *Describes ongoing and planned work on pit, haul roads.*
BH: Survey: Logan should work on the dam first. Pit requirements also, you should get Logan's help before he leaves. Is there survey control near the pit to worry about?
LH: No. Benchmarks are marked and critical BMs are out of the way. I can pick up stripped areas tomorrow.
BH: The power lines are now energized.
TC: We need signs.
BH: This afternoon, all equipment will be hopefully working and road building will continue. There will be a couple of hundred tonnes per day initially. Orocon is leaving Thursday for turnaround and they are back Saturday p.m. to work Sunday.
VH: We need more rooms for the mill people from Ketza or Orocon.
BH: 10 pit people
12 mill people

4 caterers
(8 office rooms already)
2 yard maintenance staff
4 electricians and mechanics

Total: 40 maximum people. Unless we start the diamond drill program. So we have 68 rooms and lots of capacity.

TZ: Peter is looking at renting a portable scale, but we do not need it.

BH: Only problem may be with oxidized materials. 1.8 tonnes /cubic meter for oxidized materials. There will be a mill balance. This should be fine.

VH: Logan, you do not have to survey the mill pad yet, as it needs to be excavated.

BH: We want good pit drainage in spring.

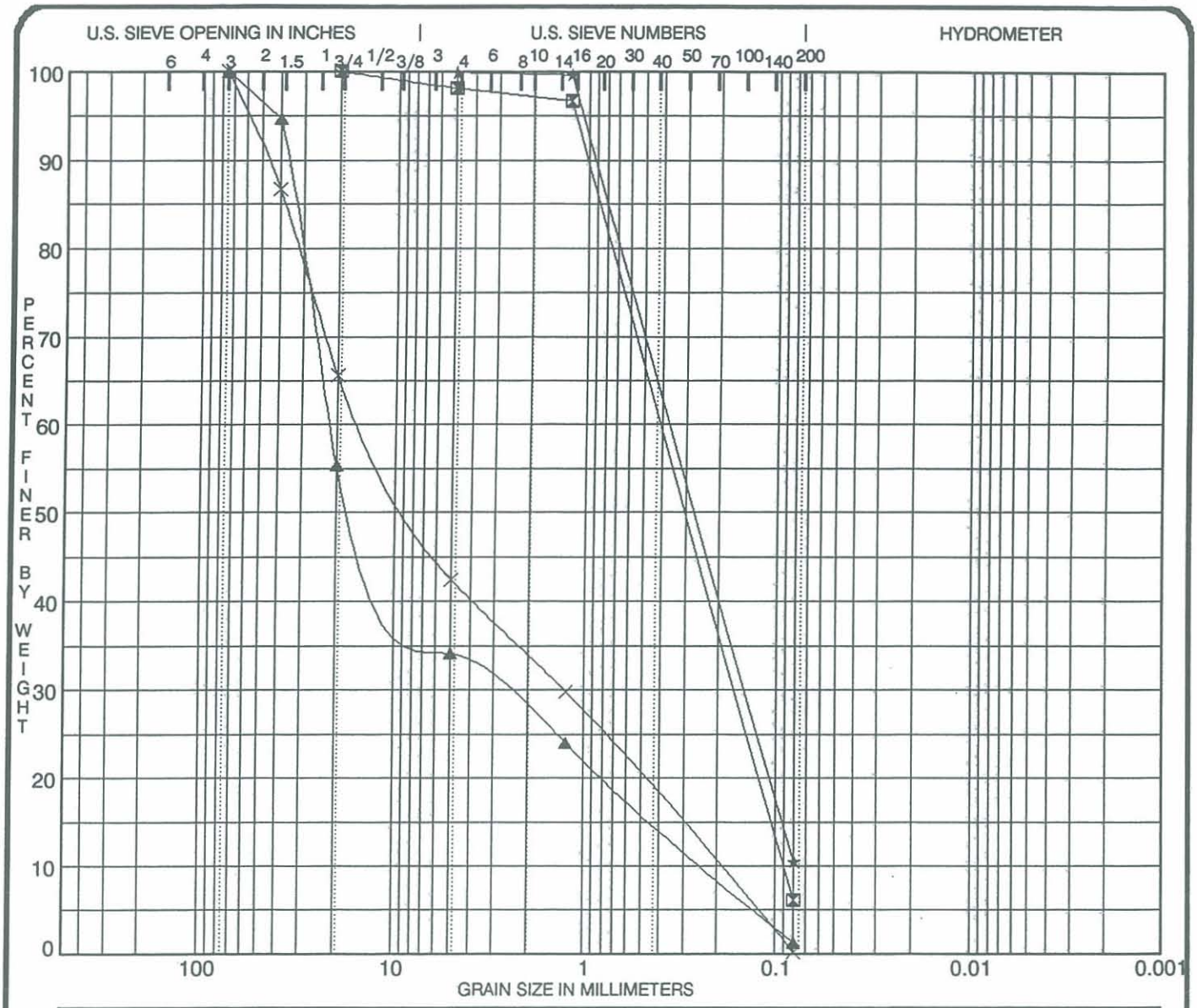
TZ: Work it from the south end and it will be better. Also there will be many and different pit roads then on the plan.

Meeting adjourned.
Time: 11:15 a.m.

Distribution
Ketza, Mount Nansen
Ketza Whitehorse, fax number (403) 667-4149
Mr. Bob Hinkkuri, BYG Whitehorse, (403) 668-2300
Mr. Vince Hunter, BYG Mt. Nansen

APPENDIX VII

Grain Size Analysis Results



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification			Classification	MC%	LL	PL	PI	Cc	Cu
×	SA-1	0.0	Victoria Creek Gravel						
⊠	SA-2	0.0	Sand						
▲	SA-3	0.0	Victoria Creek Gravel						
★	SA-4	0.0	Sand						

Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
×	SA-1	0.0	75.00	14.31	1.278	0.1975	58.1			
⊠	SA-2	0.0	20.00	0.41	0.165	0.0898	2.0			
▲	SA-3	0.0	75.00	21.73	2.848	0.2294	66.3			
★	SA-4	0.0	20.00	0.37	0.146		0.1			

PROJECT Mt. Nansen Tailings Facility - Mt. Nansen, Yukon

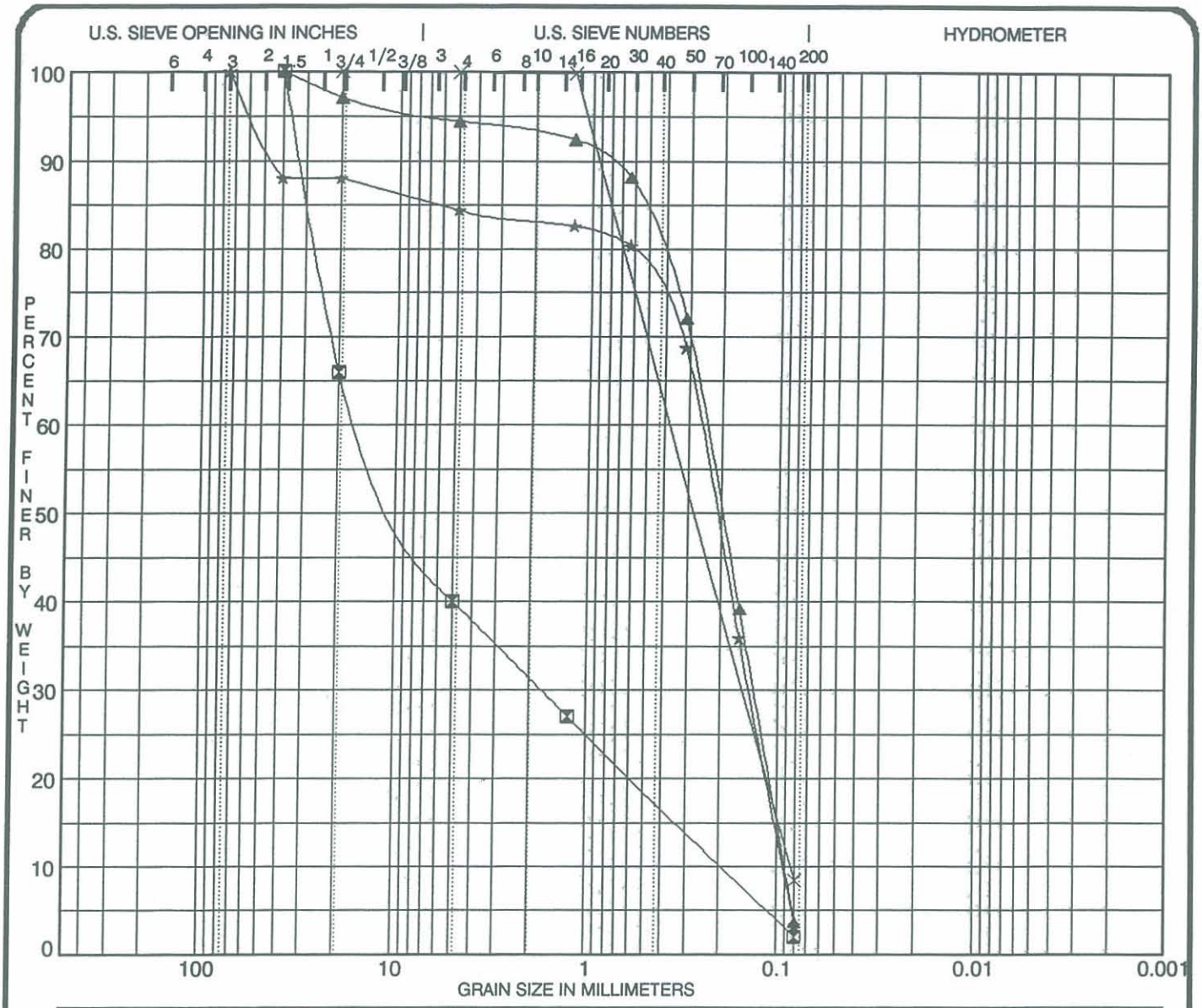
JOB NO. PM 5314 5

DATE 1 December 1996

GRADATION CURVES

KLOHN-CRIPPEN

Calgary



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification		Classification	MC%	LL	PL	PI	Cc	Cu
×	SA-5	0.0	Sand						
⊠	SA-6	0.0	Victoria Creek Gravel						
▲	SA-7	0.0	Sand						
★	SA-8	0.0	Sand						

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
×	SA-5	0.0	20.00	0.38	0.153	0.0839	0.1			
⊠	SA-6	0.0	40.00	14.52	1.721	0.1928	60.5			
▲	SA-7	0.0	40.00	0.25	0.134	0.0905	5.7			
★	SA-8	0.0	75.00	0.26	0.141	0.0921	15.7			

PROJECT Mt. Nansen Tailings Facility - Mt. Nansen, Yukon

JOB NO. PM 5314 5

DATE 1 December 1996

GRADATION CURVES

KLOHN-CRIPPEN

Calgary

APPENDIX VIII

Geotextile Manufacturers Specifications (Bentofix NS and Terrafix 600R)

	terrafix® NON-WOVEN GEOTEXTILES									terratrack® WOVEN GEOTEXTILES			
TYPICAL SPECIFICATIONS AND PHYSICAL PROPERTIES													
	200R	240R	270R	300R	360R	400R	600R	800R	1200R	370RS	24-11	24-15	200W	400W
Grab Tensile Newtons (N)	430	550	690	840	950	1090	1600	2000	2250	1250	525	645	900	1320
Mullen Burst Megapascals (M pa)	1.20	1.50	1.90	2.10	2.50	2.75	3.70	5.00	6.00	2.70	1.75	2.13	2.65	3.80
Tear Newtons (N)	200	240	330	405	500	580	660	800	900	635	308	325	420	550
E.O.S. (um) Micrometres	50 to 150	50 to 150	75 to 150	50 to 150	50 to 150	50 to 150	75 to 150	50 to 150	50 to 150	50 to 150	250	550	475	230
Permeability K (cm/s)	1.1×10^{-1}	2.0×10^{-1}	2.0×10^{-1}	2.6×10^{-1}	2.7×10^{-1}	2.8×10^{-1}	2.0×10^{-1}	2.3×10^{-1}	1.5×10^{-1}	1.8×10^{-1}	1.0×10^{-2}	2.0×10^{-2}	3.3×10^{-2}	1.0×10^{-2}
Elongation % at Break	70 to 100	70 to 100	70 to 100	70 to 100	70 to 100	70 to 100	70 to 100	70 to 100	70 to 100	70 to 100	20	16	18	18
MINIMUM SPECIFICATIONS														
Grab Tensile Newtons (N)	360	400	440	565	690	800	1000	1200	1600	1000	450	525	900	1275
Tear Newtons (N)	165	190	220	290	310	360	400	610	700	475	250	325	335	475
Mullen Burst Megapascals (M pa)	1.10	1.30	1.50	1.90	2.20	2.40	2.90	4.80	5.80	2.50	1.70	2.00	2.50	3.60
Standard Roll Sizes	3.5 or 4.4 × 200m	3.5 or 4.4 × 150m	3.5 or 4.4 × 150m	3.5 or 4.4 × 150m	3.5 or 4.4 × 150m	3.5 or 4.4 × 100m	3.5 or 4.4 × 100m	3.5 or 4.4 × 100m	3.5 or 4.4 × 100m	3.8 × 50m	3.9 / 5.3 × 100m	4.3 / 5.3 × 100m	4.3 / 5.3 × 100m	4.3 / 5.3 × 100m
Standard Roll Weight (kg)	71 / 89	81 / 102	94 / 119	121 / 152	131 / 165	103 / 130	133 / 167	165 / 207	195 / 242	88	55 / 60	60 / 65	75 / 85	100 / 120

All Geotextiles conform to current Canadian General Standards Board testing methods.

terrafix®
geosynthetics inc.

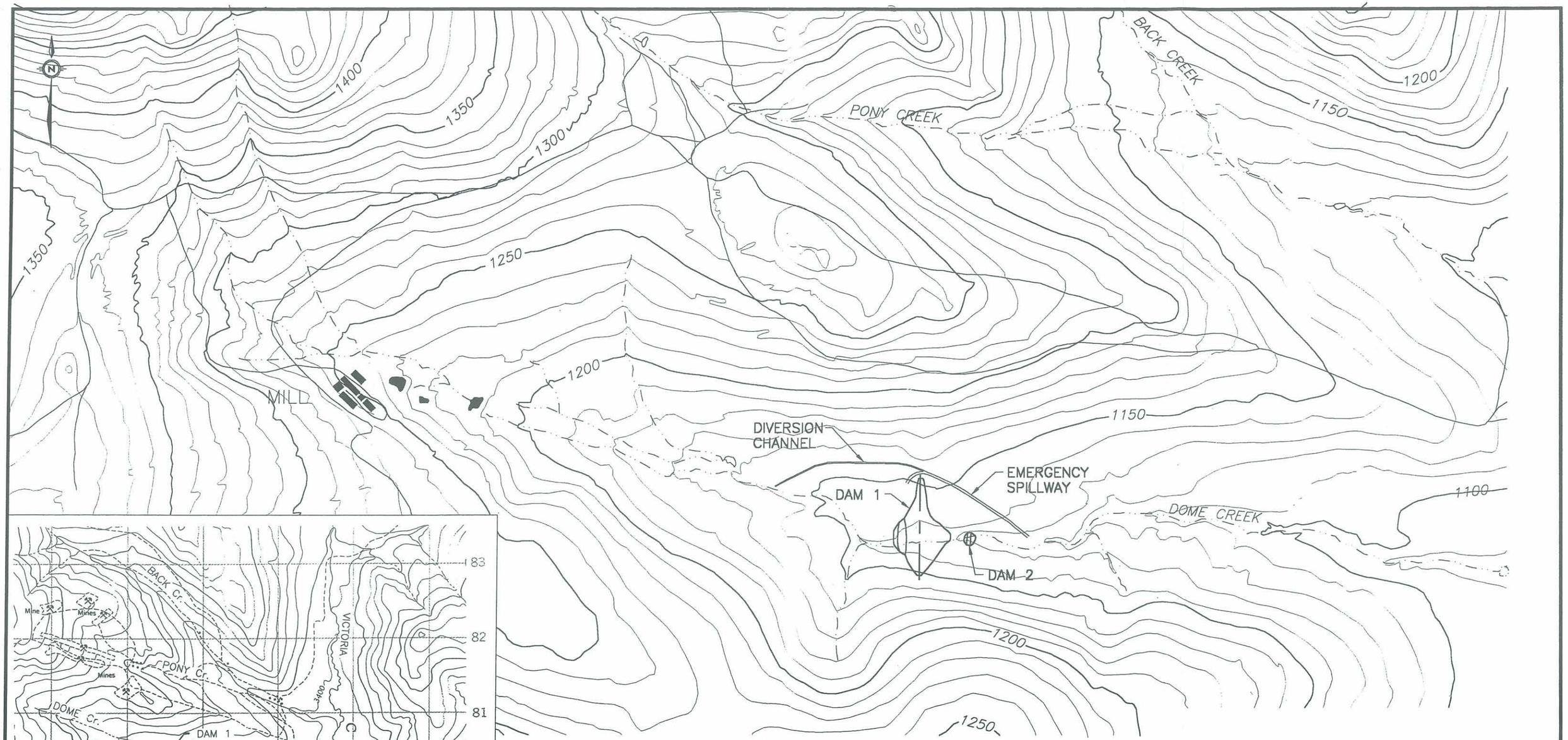
425 Attwell Drive
Rexdale, Ontario M9W 5C4
Telephone: (416) 674-0363
Fax: (416) 674-1159

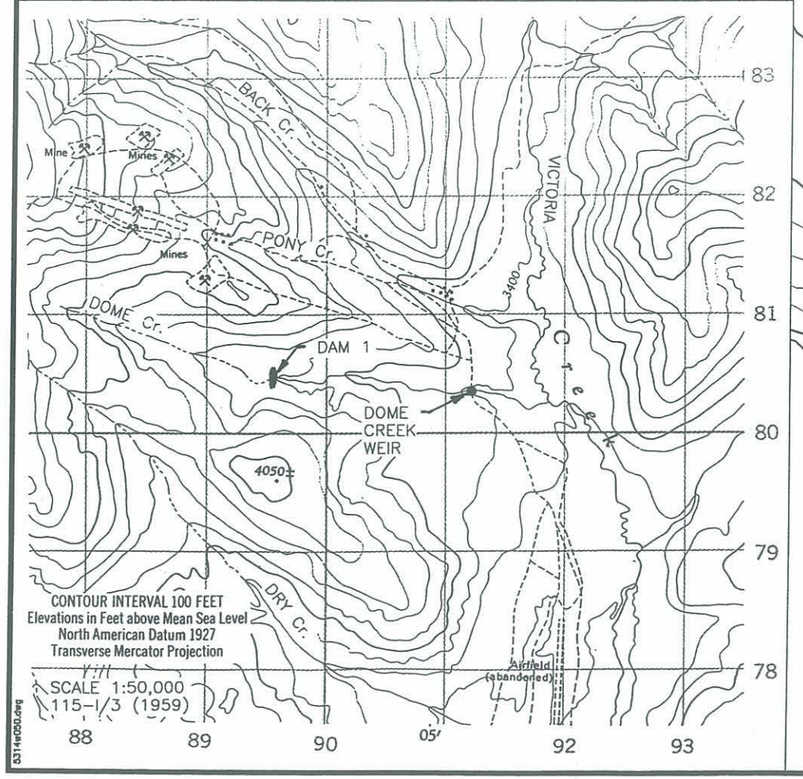
Calgary (403) 236-0953
Edmonton (403) 460-7172
Vancouver (604) 222-9344

All information and guidelines in this material is given in good faith but without warranty, expressed or implied with respect to the quality or fitness of the products referred to herein for any particular purpose. Recommendations made herein refer to general use of geotextiles. When non-standard conditions exist the company reserves the right to be consulted prior to application.

(Revised) February 1991

DRAWINGS





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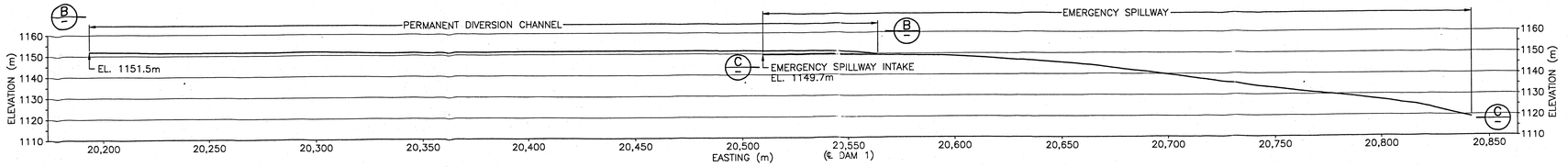
REV.	DATE	REVISION DETAILS

DESIGN | DRAWN: C. P. B. | DATE: DEC 1996 | SCALES

PROJECT: MT. NANSEN TAILINGS FACILITY

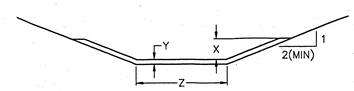
TITLE: LOCATION PLAN

DATE OF ISSUE: DEC 1996 | APPROVED | PROJECT No.: PM 5314.08 | DWG. No.: 5314-08-01 | REV.



SECTION B C
1:1000

CHANNEL DETAILS

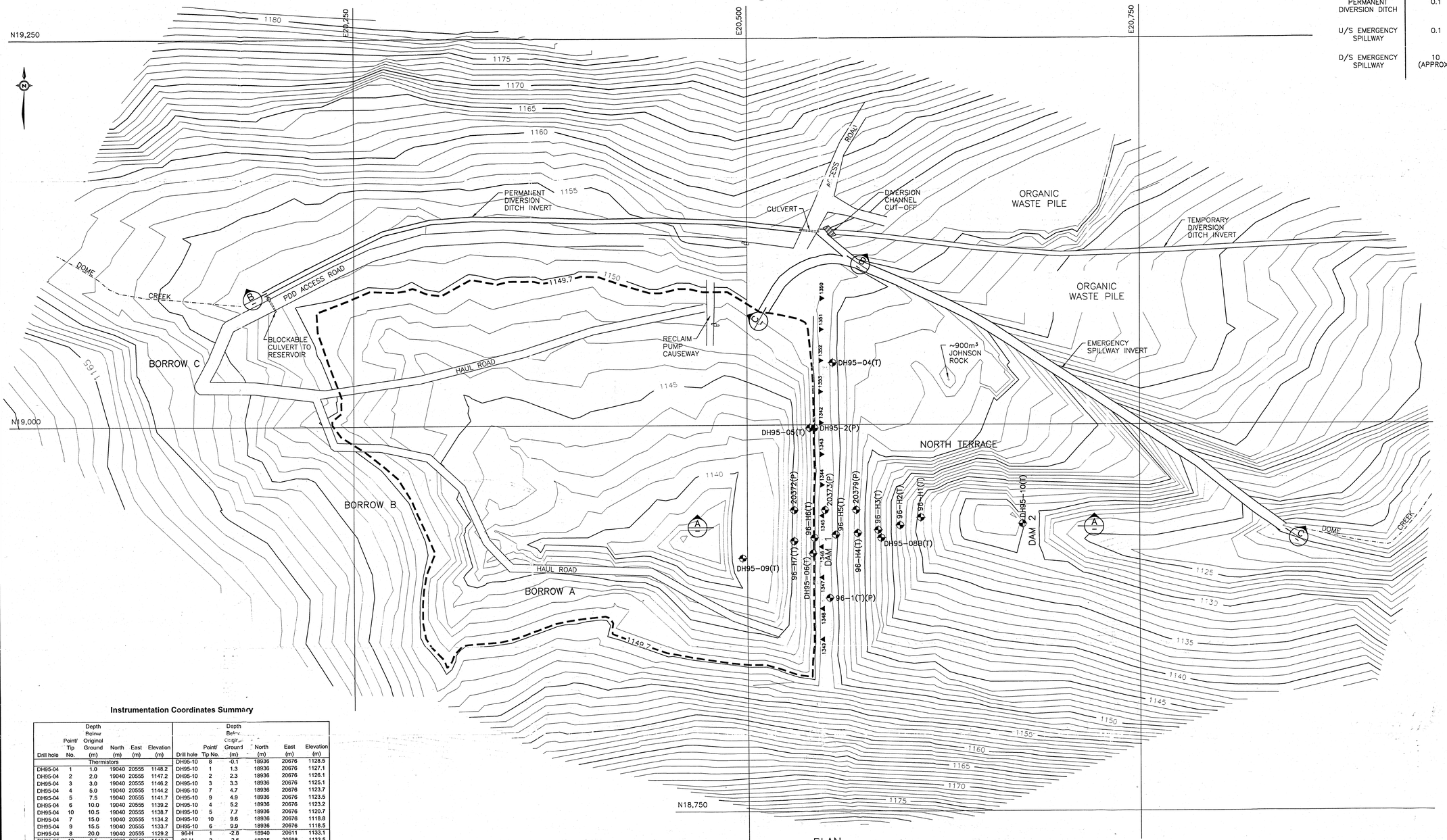


INVERT LOCATION	INVERT GRADE (%)	LINER	X(m)	Y(mm)	Z(m)
PERMANENT DIVERSION DITCH	0.1	VICTORIA CREEK GRAVEL	1.4	300	3.0
U/S EMERGENCY SPILLWAY	0.1	SHALE	1.1	300	5.0
D/S EMERGENCY SPILLWAY	10 (APPROX.)	SHALE & JOHNSON ROCK OVER TERRAFIX 600R FILTER FABRIC	0.8	750 (THINNER ON SIDES)	5.0

SEE REPORT FOR LIEN FILL DESCRIPTIONS

LEGEND

- LOCATION LABEL
- 96-1(T)(P) — INDICATES PNEUMATIC PIEZOMETER; INDICATES THERMISTOR
- ▼1350 SETTLEMENT PINS



PLAN
1:1000

GCL ROLLS:
4.72m x 38.1m x 965kg

APPROXIMATE GCL LAYOUT
PLAN VIEW — DAM 1
1:1000

Instrumentation Coordinates Summary

Drill hole	Point/ Tip No.	Depth Below Original Ground (m)	North (m)	East (m)	Elevation (m)
Thermistors					
DH95-04	1	1.0	19040	20555	1148.2
DH95-04	2	2.0	19040	20555	1147.2
DH95-04	3	3.0	19040	20555	1146.2
DH95-04	4	5.0	19040	20555	1144.2
DH95-04	5	7.5	19040	20555	1141.7
DH95-04	6	10.0	19040	20555	1139.2
DH95-04	10	10.5	19040	20555	1138.7
DH95-04	7	15.0	19040	20555	1134.2
DH95-04	9	15.5	19040	20555	1133.7
DH95-04	8	20.0	19040	20555	1129.2
DH95-05	10	0.5	18998	20540	1142.9
DH95-05	1	1.0	18998	20540	1142.4
DH95-05	2	2.0	18998	20540	1141.4
DH95-05	3	3.0	18998	20540	1140.4
DH95-05	4	5.0	18998	20540	1138.4
DH95-05	9	5.5	18998	20540	1137.9
DH95-05	5	7.5	18998	20540	1135.9
DH95-05	6	10.0	18998	20540	1133.4
DH95-05	8	10.5	18998	20540	1132.9
DH95-05	7	15.0	18998	20540	1128.4
DH95-06	7	0.5	18917	20542	1133.4
DH95-06	1	1.0	18917	20542	1132.9
DH95-06	2	2.0	18917	20542	1131.9
DH95-06	3	3.0	18917	20542	1130.9
DH95-06	4	5.0	18917	20542	1128.9
DH95-06	6	5.5	18917	20542	1128.4
DH95-06	5	7.5	18917	20542	1126.4
DH95-08B	7	0.3	18927	20586	1131.3
DH95-08B	1	0.8	18927	20586	1130.8
DH95-08B	2	1.8	18927	20586	1129.8
DH95-08B	3	2.8	18927	20586	1128.8
DH95-08B	4	4.8	18927	20586	1126.8
DH95-08B	6	5.3	18927	20586	1126.3
DH95-08B	5	7.3	18927	20586	1124.3
DH95-09	7	0.4	18914	20497	1134.7
DH95-09	1	0.9	18914	20497	1134.2
DH95-09	2	1.9	18914	20497	1133.2
DH95-09	3	2.9	18914	20497	1132.2
DH95-09	4	4.9	18914	20497	1130.2
DH95-09	6	5.4	18914	20497	1129.7
DH95-09	5	7.4	18914	20497	1127.7
DH95-10	8	-0.1	18936	20676	1128.5
DH95-10	1	1.3	18936	20676	1127.1
DH95-10	2	2.3	18936	20676	1126.1
DH95-10	3	3.3	18936	20676	1125.1
DH95-10	7	4.7	18936	20676	1123.7
DH95-10	9	4.9	18936	20676	1123.5
DH95-10	4	5.2	18936	20676	1123.2
DH95-10	5	7.7	18936	20676	1120.7
DH95-10	10	9.6	18936	20676	1118.8
DH95-10	6	9.9	18936	20676	1118.5
96-H	1	-2.8	18940	20611	1133.1
96-H	2	-2.5	18935	20598	1133.5
96-H	3	-1.6	18932	20584	1133.1
96-H	4	-1.5	18930	20571	1133.5
96-H	5	-1.3	18929	20557	1133.9
96-H	6	-0.7	18927	20543	1134.1
96-H	7	-0.3	18925	20530	1134.3
DH96-1	1	-0.3	18888	20553	1140.4
DH96-1	2	3.7	18888	20553	1136.4
Pneumatic Piezometers					
DH96-1	20383	0.9	18888	20553	1139.2
DH96-1	20382	3.7	18888	20553	1136.4
hand placed	20372	-6	18945	20530	1140.0
	20373	-6	18945	20550	1139.2
	20379	-6	18945	20570	1138.1
DH96-2	20377	0.91	18998	20543	1143.1
DH96-2	20376	2.6	18998	20543	1141.4
Settlement Pins					
	1350		19081.59	20547.76	1150.84
	1351		19061.51	20547.21	1150.64
	1352		19041.46	20546.99	1150.59
	1353		19021.39	20546.76	1150.41
	1342		19001.32	20547.31	1150.48
	1343		18980.97	20547.63	1150.35
	1344		18961.23	20547.88	1150.57
	1345		18941.33	20548.28	1150.57
	1346		18921.24	20547.82	1150.40
	1347		18901.38	20548.13	1150.90
	1348		18881.12	20548.34	1150.59
	1349		18861.39	20548.32	1150.75

Caution: This table is based on information available on Dec 1996. Actual details may vary.

D/M 1

SECTION A
1:1000

CAUTION: THIS DRAWING IS BASED ON INFORMATION AVAILABLE AS OF DECEMBER 1996. SOME DETAILS AND ELEVATIONS ARE APPROXIMATE.

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A	DEC/96	AS-BUILT

SCALE: (1:1000) 0 20 40m

DESIGN | DRAWN: C. P. B. | DATE: DEC 1996 | SCALES

KLOHN-CRIPPEN

PROJECT: MT. NANSEN TAILINGS FACILITY

TITLE: SITE PLAN AND SECTIONS

CLIENT: B.Y.G. NATURAL RESOURCES INC.

DATE OF ISSUE: DEC 1996 | PROJECT No.: PM 5314.08 | DWG. No.: 5314-08-02 | REV.: A

APPROVED

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