

82-#899-#10931  
10

REPORT ON 1982  
DIAMOND DRILLING AND SOIL TESTING  
ON THE  
NORTH FLORENCE AND S. FLORENCE CLAIMS

Lat. 53°35'N

Long. 132°15'W

NTS 103F 9W  
SKEENA M.D.  
QUEEN CHARLOTTE ISLANDS, B.C.

FOR  
ASSESSMENT WORK REQUIREMENTS  
ON THE EIGHTY-TWO GROUP

BY  
K.G. SANDERS, P. ENG.

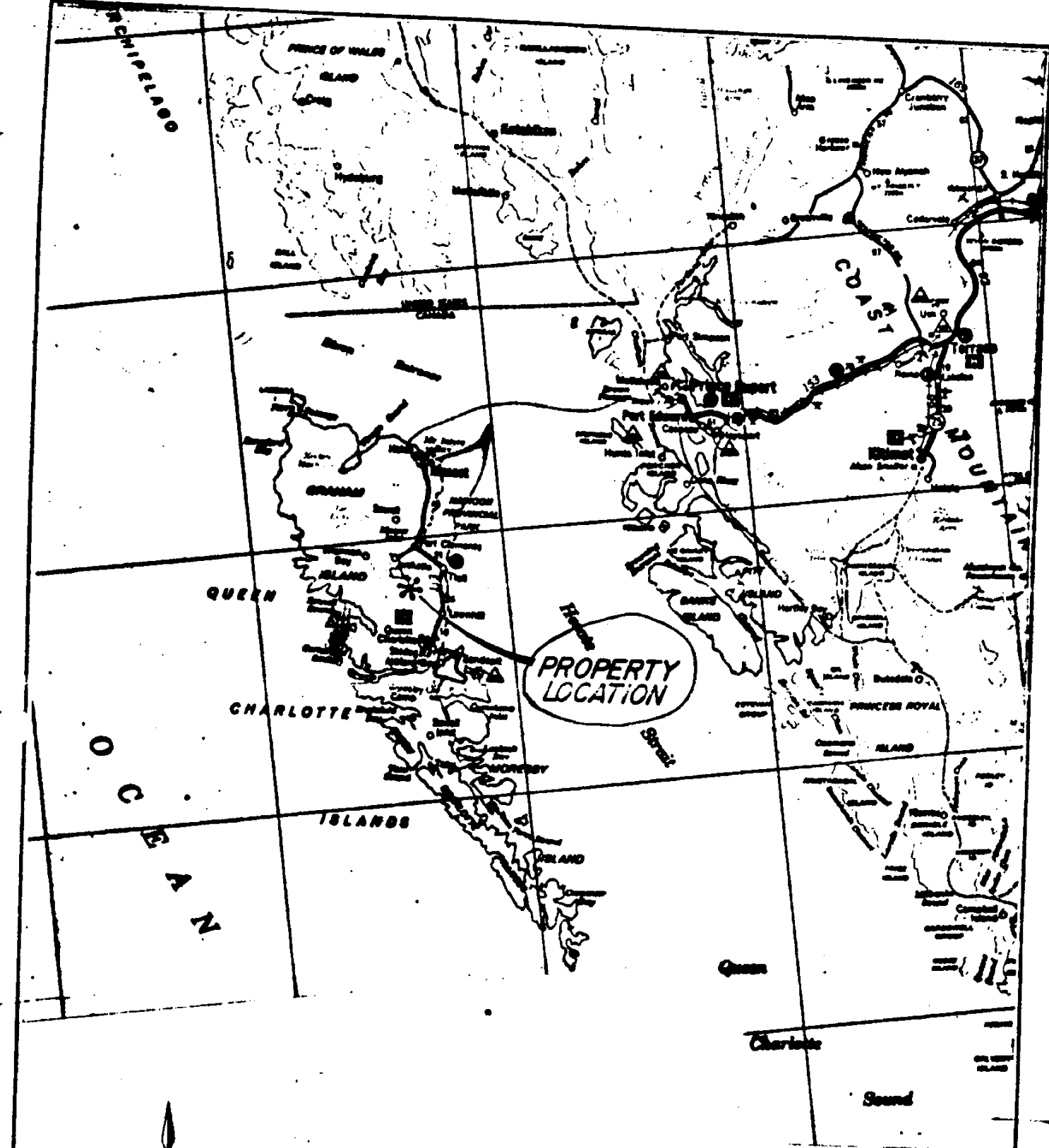
JANUARY 11, 1983

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**10,931**

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**CONSOLIDATED CINOLA MINES LTD.**  
 VANCOUVER, B.C.

QUEEN CHARLOTTE ISLANDS, B.C.  
 SKEENA M.D.  
 NTS 103 F / 9E, 88.

**LOCATION MAP**

SCALE IN KILOMETRES  
 0 24 48 72 96

Introduction: In January and May of 1982 one diamond drill hole of NQ size and five soil test drill holes were drilled on the North Florence and S. Florence claims by D.W. Coates Enterprises Ltd. and Pentest Co. Ltd. of Vancouver B.C. The holes were drilled to test soil and bedrock conditions at a proposed tailings disposal site for the Cinola gold deposit owned jointly by Consolidated Cinola Mines Ltd. of Vancouver B.C., and Energy Reserves Canada Ltd. of Saskatoon, Sask. The program was carried out by Cinola Operating Co. Ltd. of Vancouver, B.C. with the permission of the claim owner Mr. R. Calabrigo of West Vancouver, B.C.

Location and Access: The drilling area centres around coordinates 53°35' N Lat. and 132°15' W. Long. Access is by private logging roads about 7 kilometres south east of Juskatla B.C. on Graham Island in the Queen Charlotte Group.

<u>Claim Data:</u>	<u>Claim</u>	<u>Owner</u>	<u>Units</u>	<u>Record No.</u>	<u>Month</u>
	North Florence	R. Calabrigo	18	801	October
	S. Florence	R. Calabrigo	20	1792	October

These are part of the Eighty-Two Group of claims for assessment purposes in 1982. The other claims in the Eighty-two Group are:

Kenny	A. Morrow	18	1772	Sept.
Hook	R. Calabrigo	10	799	October
Hill	R. Calabrigo	12	798	October
River	R. Calabrigo	12	797	October

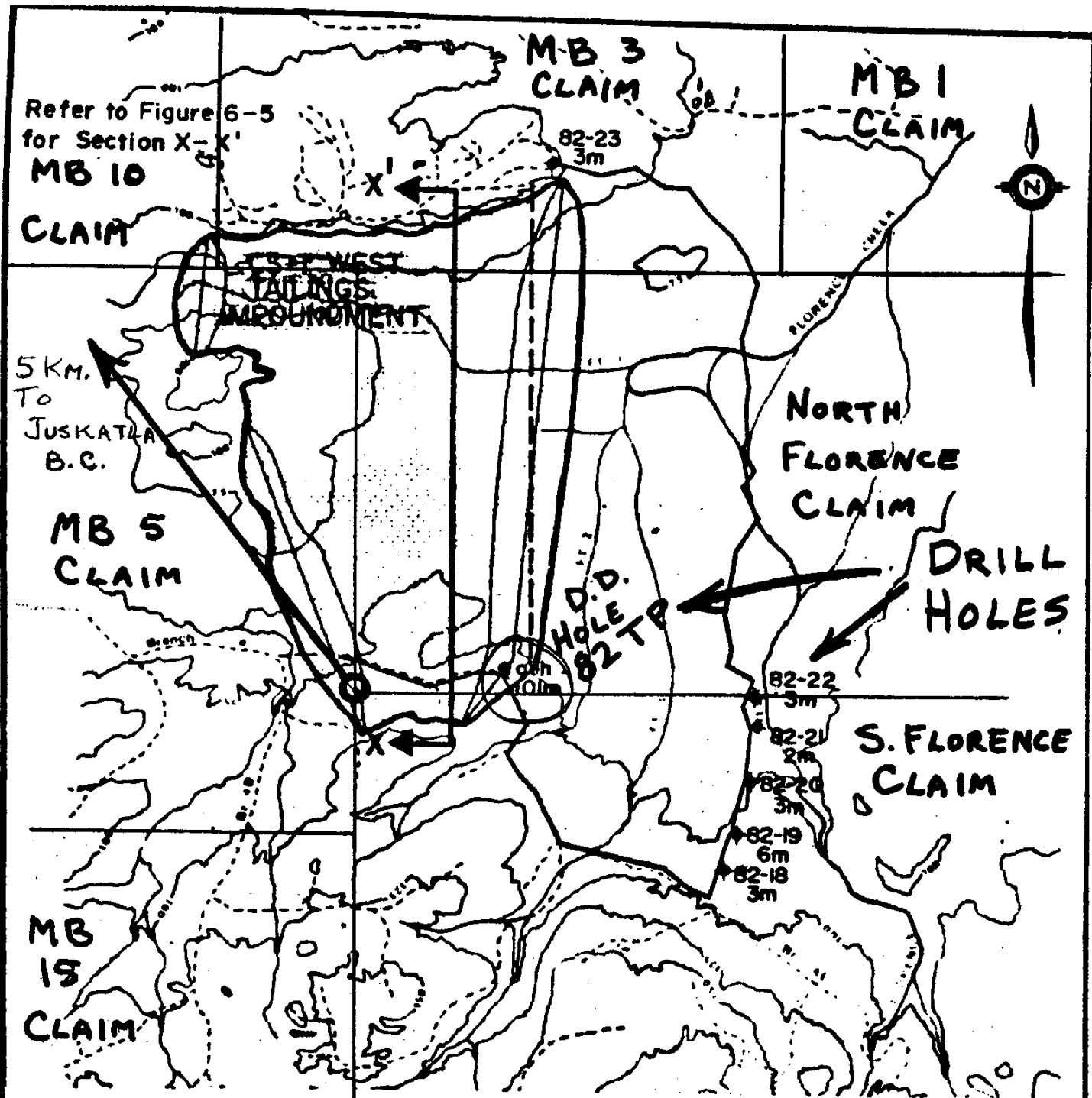
*K. B. S.*



Drilling Program: Hole 82 TP was a diamond drill hole of NQ size drilled by D.W. Coates Enterprises Ltd. on the North Florence claim in the period January 13th - 28th, 1982. Its purpose was to test bedrock conditions. It entered bedrock at 30.48 metres and continued in rock to its final depth of 100.6 metres. Nine core samples were assayed for the gold content and all returned low values. See drill logs.

Pentest Co. Ltd. drilled six soil test holes mostly on the S. Florence claim to test overburden conditions in the proposed tailings disposal site. A small portable percussion type penetration drill was used. The holes were logged and monitored by Thurber Consultants of Vancouver, B.C. See logs. Drilling was done on an hourly rate and the five holes to be used in this report total 17.3 metres. Hole number 82-23 cannot be used for assessment purposes on the Eighty-two Group because it lies outside the group. The assessment notice filed on October 15th, 1982 should be amended to show only 5 soil testing holes totalling 17.3 metres. The Pentest drilling was done in the period May 10th to 16th, 1982.

*K. D. S.*



**LEGEND**

- ◆ 82-18 3m Test hole location and number  
Depth in metres
- cbh 101m Condemnation bore hole  
Depth in metres  
Note: 45° dip due north
- Survey traverse
- - - Muskeg traverse

**DRILL HOLE LOCATION PLAN**

*K. B. D.*

DWG. ORIGINATOR (CONSULTANT)
CINOLA OPERATING CO. APPROVAL

Contour Interval = 25 m

Scale = 1:20,000



**SITE INVESTIGATION PLAN FOR TAILINGS IMPOUNDMENT**



**CINOLA OPERATING COMPANY LTD.**

DRAWN: DDS	DATE: AUG '82
CHECKED: CCS	APPROVED: CCS
FIGURE 6-3	REV.

# DRILL LOGS

Proposed Tailings Pond

HOLE 82 TP

Location: 7730N; 93E (approximately 5km north of adit)

Bearing : Due North Dip - 45°

0 30.48m - overburden

30.48 - 77.75 - Basalt - massive but separable into several flows

77.75 - 100.6 - Interbedded, flat-lying, sandstones to conglomerates consisting of granitic material (probably Honna Formation overlain by Masset)

A 2m sample was split every 10m and assayed, with results as follows:

<u>From</u>	<u>To</u>	<u>Thickness</u>	<u>Assay (ounces per short ton)</u>
30.48m	36m	5.52m	0.013
36.0	38.0	2.0	0.006
40.0	42.0	2.0	0.004
50.0	52.0	2.0	0.005
60.0	62.0	2.0	0.007
70.0	72.0	2.0	0.005
80.0	82.0	2.0	0.006
90.0	92.0	2.0	0.004
98.0	100.6	2.6	0.005

K. B. S.



# DRILL LOGS

**THURBER CONSULTANTS LTD.**  
Geotechnical Engineers

TEST HOLE NO  
**82-18**

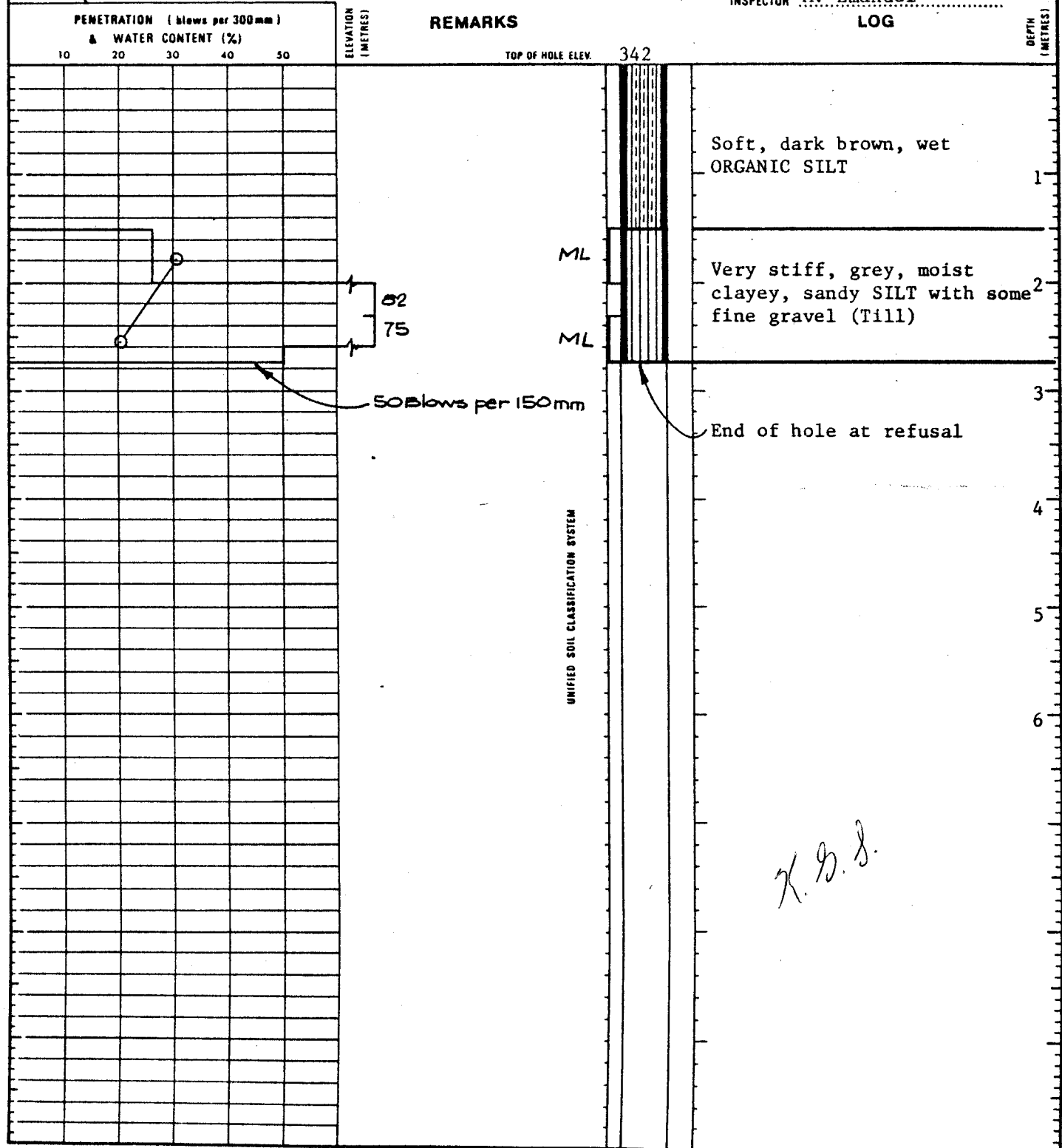
## LOG OF TEST HOLE

LOCATION CS & T Tailings  
Impoundment Site

CLIENT Cinola Operating Co.  
PROJECT Queen Charlotte  
Gold Project

LEGEND:  
 SAMPLES:      WATER CONTENT:  
 Disturbed      ○      WATER LEVEL  
 Undisturbed      ●      W<sub>L</sub> LIQUID LIMIT  
 No recovery      W<sub>p</sub> PLASTIC LIMIT

DATE May 11, 1982  
METHOD Portable Penetrometer  
DRILLING CO Pentest  
INSPECTOR M. Emanuel



*K. G. J.*

# DRILL LOGS

**THURBER CONSULTANTS LTD.**  
Geotechnical Engineers

TEST HOLE NO  
82-19

## LOG OF TEST HOLE

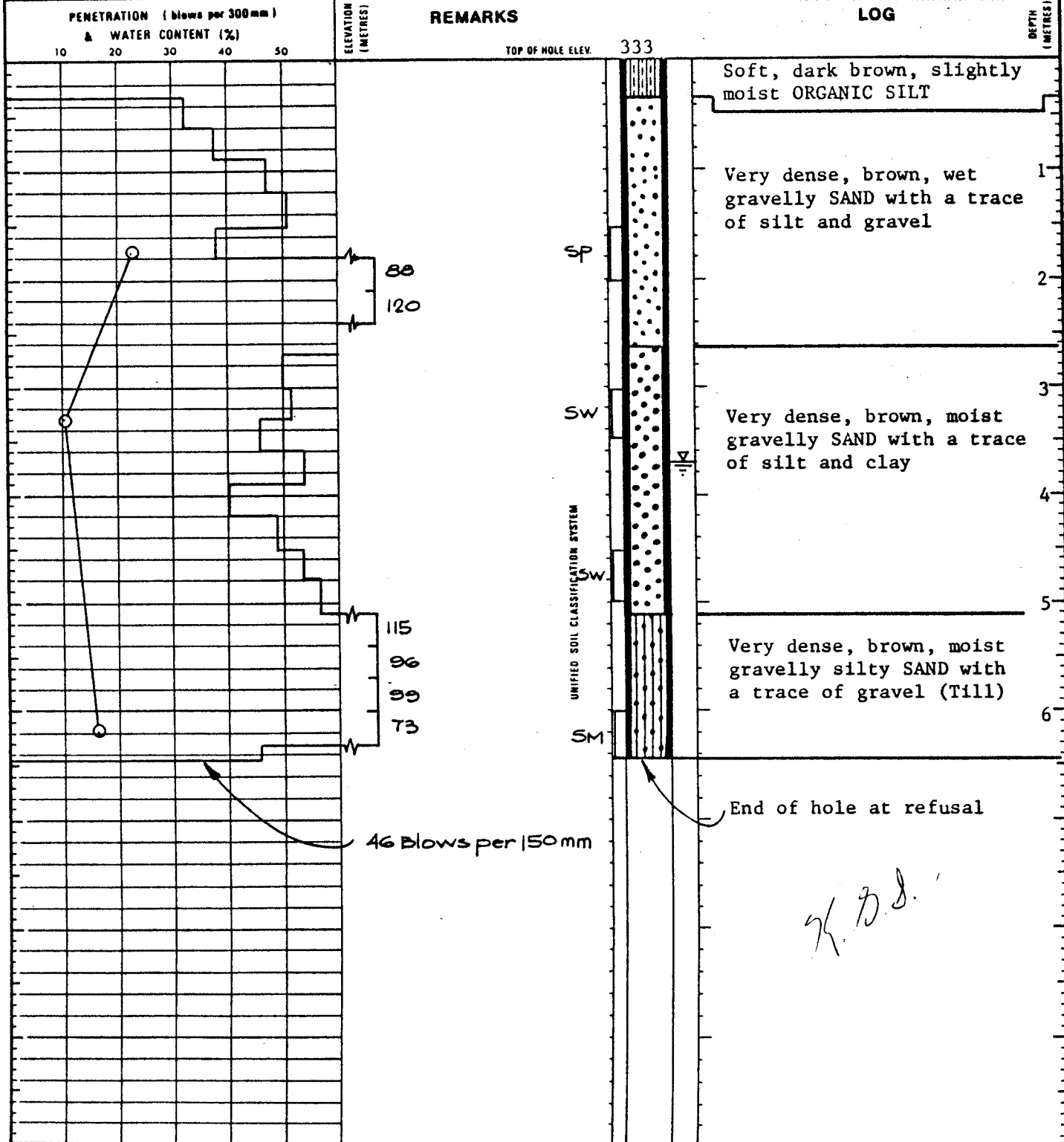
LOCATION CS & T Tailings  
Impoundment Site

CLIENT Cinola Operating Co.  
PROJECT Queen Charlotte  
Gold Project

DATE May 11, 1982  
METHOD Portable Penetrometer  
DRILLING CP Pentest

LEGEND:  
 SAMPLES:      WATER CONTENT:  
 Disturbed      ○      WATER LEVEL  
 Undisturbed      ●      W<sub>L</sub> LIQUID LIMIT  
 No recovery      W<sub>p</sub> PLASTIC LIMIT

INSPECTOR M. Emanuel  
**LOG**



# DRILL LOGS

**THURBER CONSULTANTS LTD.**  
Geotechnical Engineers

TEST HOLE NO

82-20

## LOG OF TEST HOLE

LOCATION CS & T Tailings  
Immoundment Site

CLIENT Cinola Operating Co.  
PROJECT Queen Charlotte  
Gold Project

DATE May 11, 1982  
METHOD Portable Penetrometer  
DRILLING CO Pentest  
INSPECTOR M. Emanuel

LEGEND:  
 SAMPLES:  Disturbed       Undisturbed       No recovery  
 WATER CONTENT:         
 WATER LEVEL: WATER LEVEL  
 W<sub>L</sub> LIQUID LIMIT  
 W<sub>p</sub> PLASTIC LIMIT

PENETRATION (blows per 300mm)  
& WATER CONTENT (%)

10	20	30	40	50
----	----	----	----	----

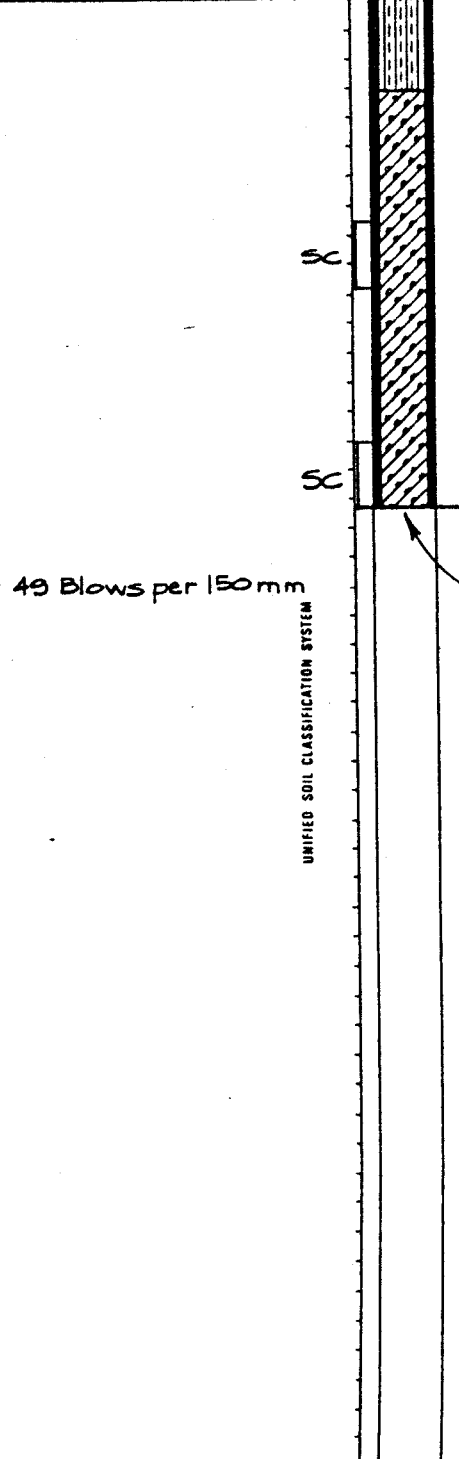
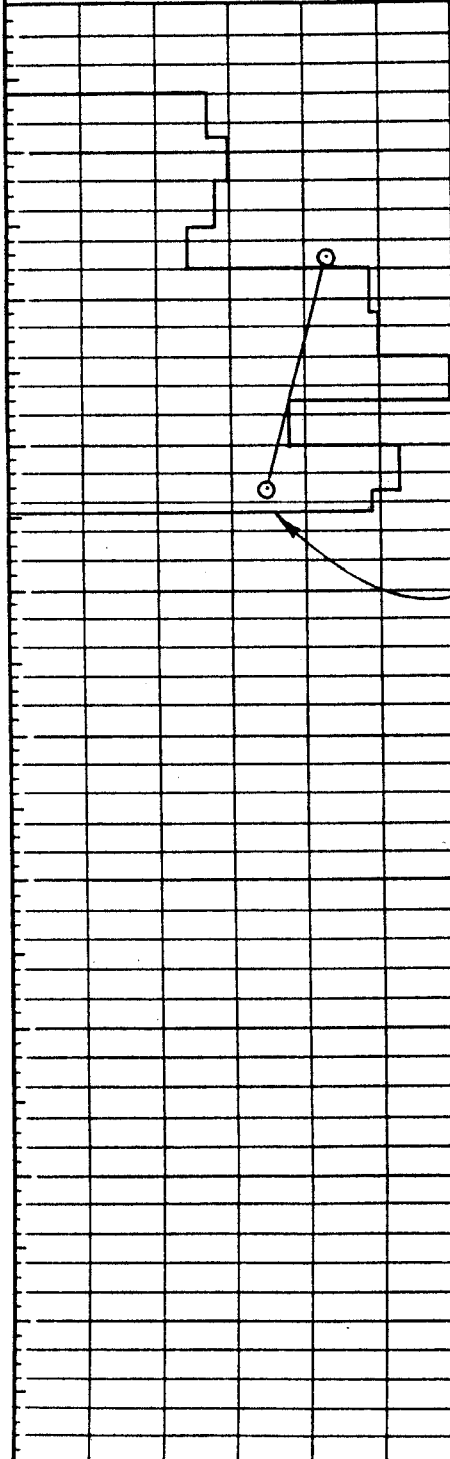
### REMARKS

### LOG

ELEVATION (METRES)

TOP OF HOLE ELEV. 325

DEPTH (METRES)



Soft, brown, wet ORGANIC SILT

Very dense, brown, wet silty clayey SAND with a trace of gravel (Till)

Note: Fines have high plasticity

49 Blows per 150mm

End of hole at refusal

*K. B. S.*

# DRILL LOGS

**THURBER CONSULTANTS LTD.**  
Geotechnical Engineers

TEST HOLE NO

82-21

## LOG OF TEST HOLE

LOCATION CS & T Tailings  
Impoundment Site

CLIENT Cinola Operating Co.  
PROJECT Queen Charlotte  
Gold Project

LEGEND:

SAMPLES:	WATER CONTENT:	▽ WATER LEVEL
□ Disturbed	○	W <sub>L</sub> LIQUID LIMIT
■ Undisturbed	●	W <sub>p</sub> PLASTIC LIMIT
⊗ No recovery		

DATE May 12, 1982  
METHOD Portable Penetrometer  
DRILLING CO Pentest  
INSPECTOR M. Emanuel

PENETRATION (blows per 300 mm)  
& WATER CONTENT (%)

10	20	30	40	50
----	----	----	----	----

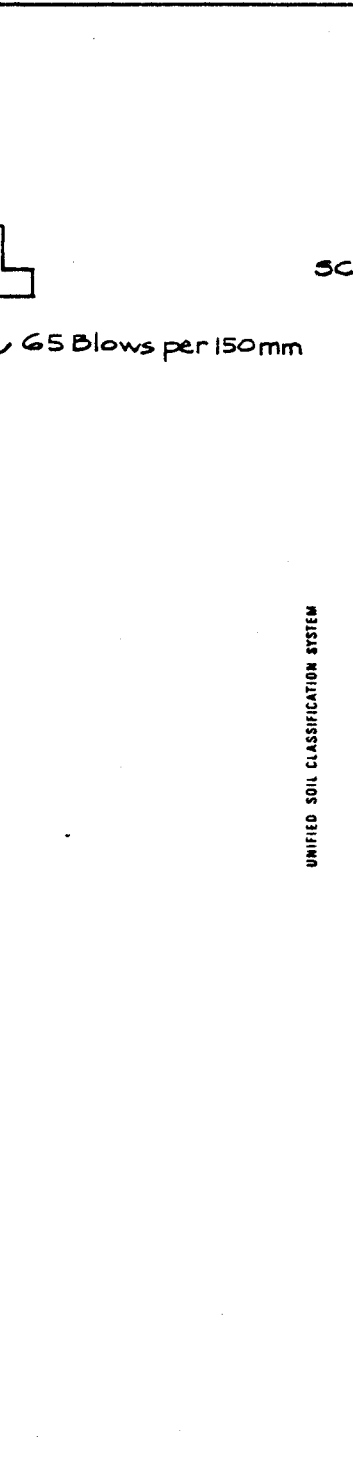
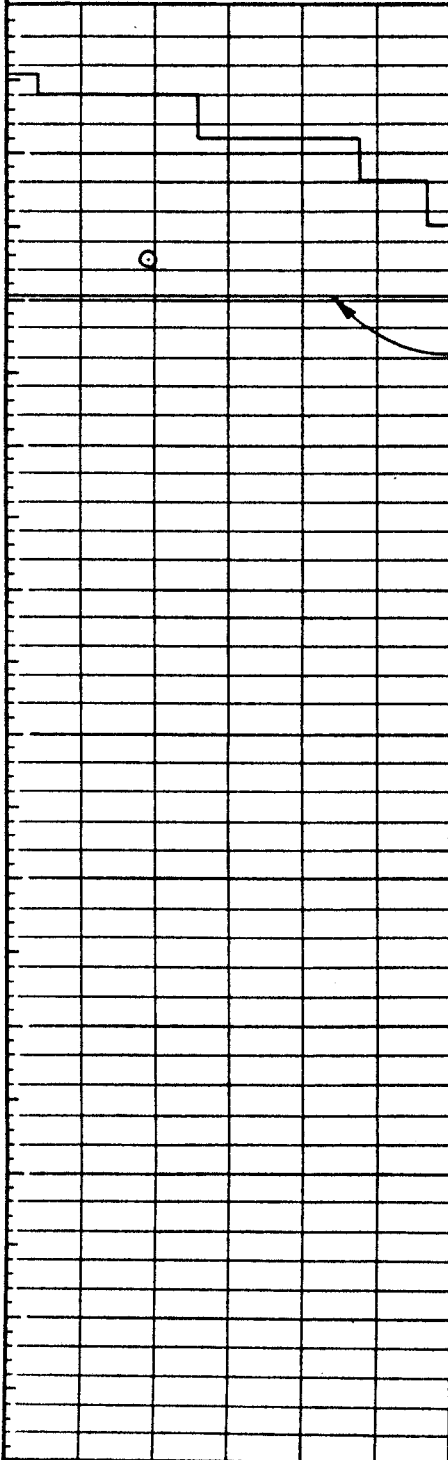
ELEVATION (METRES)

**REMARKS**

TOP OF HOLE ELEV. 319

**LOG**

DEPTH (METRES)



Loose, light brown, wet organic silty SAND

Very dense, grey, wet clayey, gravelly SAND (Till)

End of hole at refusal

UNIFIED SOIL CLASSIFICATION SYSTEM

K. D. S.

# DRILL LOGS

**THURBER CONSULTANTS LTD.**  
Geotechnical Engineers

TEST HOLE NO

82-22

## LOG OF TEST HOLE

LOCATION CS & T Tailings  
Impoundment Site

CLIENT Cinola Operating Co.  
PROJECT Queen Charlotte  
Gold Project

LEGEND:  
 SAMPLES:  Disturbed       WATER LEVEL  
            Undisturbed       LIQUID LIMIT  
            No recovery       PLASTIC LIMIT

DATE May 12, 1982  
METHOD Portable Penetrometer  
DRILLING CO Pentest  
INSPECTOR M. Emanuel

PENETRATION (blows per 300mm) & WATER CONTENT (%)	ELEVATION (METRES)	REMARKS	TOP OF HOLE ELEV.	DEPTH (METRES)
10    20    30    40    50			318	
	1	Very loose, brown, wet organic silty fine SAND		1
72	2	Very dense, grey, wet clayey, gravelly SAND (Till)		2
92 Blows per 225 mm	3	End of hole at refusal		3
	4			4
	5			5
	6			6

*X.B.S.*

# DRILL LOGS

**THURBER CONSULTANTS LTD.**  
Geotechnical Engineers

TEST HOLE NO  
**82-23**

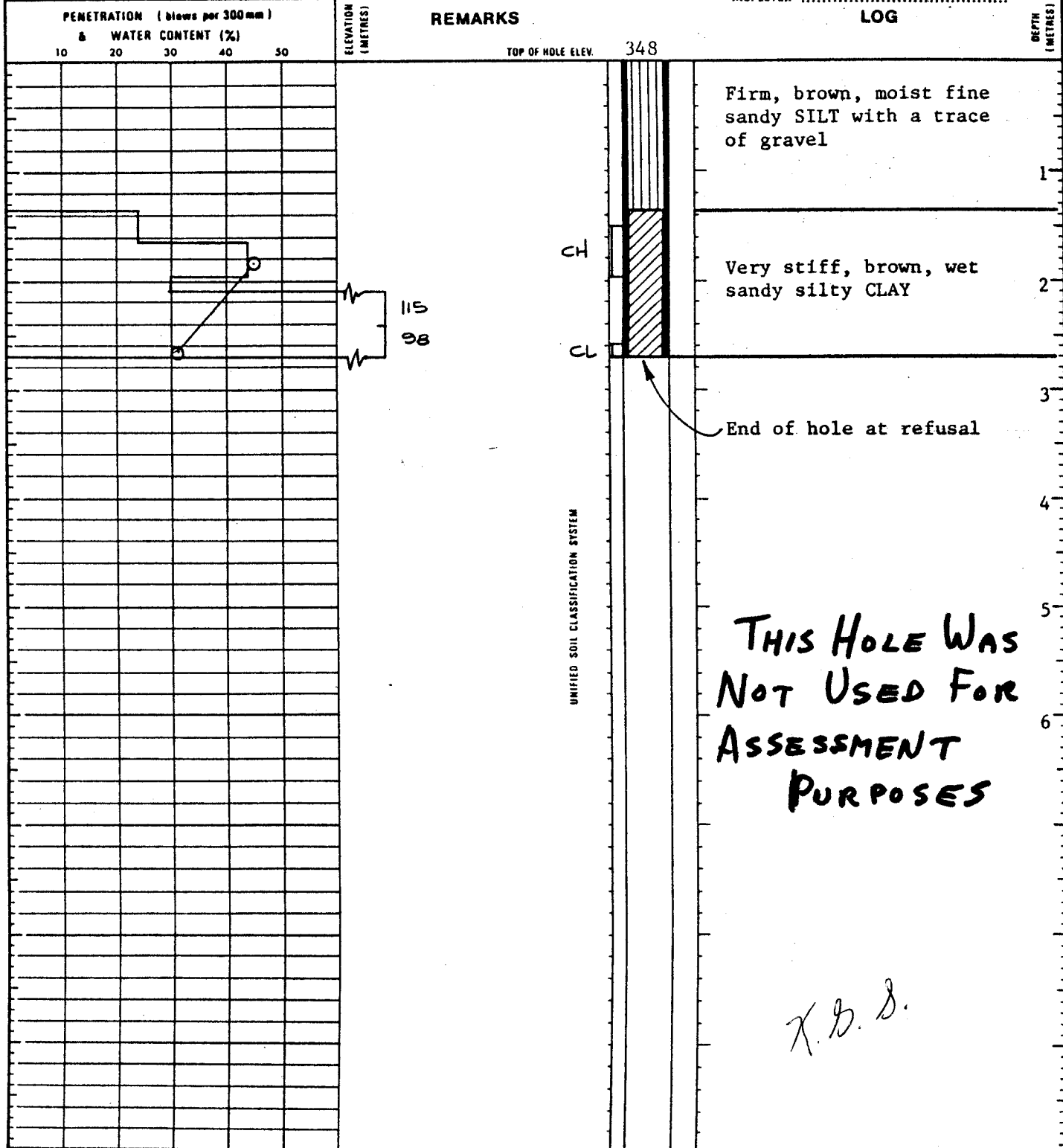
## LOG OF TEST HOLE

LOCATION CS & T Tailings  
Impoundment Site

CLIENT Cinola Operating Co.  
PROJECT Queen Charlotte  
Gold Project

LEGEND:  
 SAMPLES:  Disturbed       WATER CONTENT:  
 Undisturbed         
 No recovery         
 WATER LEVEL    
 LIQUID LIMIT    
 PLASTIC LIMIT

DATE May 12, 1982  
METHOD Portable Penetrometer  
DRILLING CO Pentest  
INSPECTOR M. Emanuel  
**LOG**



Cost Statement: The costs for the D.W. Coates diamond drilling in the period January 13th to 28th, 1982 were \$33,104.62 for 990 feet of NQ diamond drilling. This is \$33.43 per foot. It is proposed to use \$25.00 per foot or \$82.00 per metre for assessment purposes. Hole 82 TP was 100.6 metres long and would yield an assessment credit of \$8,249.00.

The total cost of the Pentest work was \$6,662.07 at a per metre rate of \$333.10. The five Pentest holes used for assessment purposes would give a credit of 17.3 metres times \$333.10 for \$5,762.00.

The total for diamond drilling and soil test drilling is \$14,011.00 to be used for assessment purposes up to \$12,000.00.

*X. B. Sanders*

**D.W. COATES**  
**ENTERPRISES LTD.**  
 DIAMOND DRILLING CONTRACTORS

**COSTS**

2560 A Simpson Road, Richmond, B.C. V6X 2P9  
 Phone: (604) 273-0985  
 Telex No.: 04357618

Cinola Operating Company Ltd.  
 Suite 402 - 595 Howe Street  
 Vancouver, B.C.  
 V6C 2T5

INVOICE NO.: 2205  
 JOB NO.: 462  
 DATE: Feb. 9/82

RE: Port Clements, B.C. Drilling  
 PERIOD: January 13 - 28, 1982

DRILLING DETAIL	\$22,938.40 ↓
MOBILIZATION	1,977.60 ↓
DEMOBILIZATION	3,163.00 ↓
STANDBY	2,432.00 ↓
TESTING	207.90 ↓
TEMPORARY SHUTDOWN	1,188.26 ↓
TRAILER RENTAL	333.45 ↓
MOVING BETWEEN HOLES	1,606.50 ↓
DIAMOND ARTICLES	(2,676.24) ↓
OTHER CHARGES	1,933.75 ↓

RECEIVED FEB 11 1982  
 MAR 1 1982  
 [Signature]  
 [Signature]  
 4435-001

\$33,104.62

K.D.S.

#5110  
 33,104.62  
 (4965.00 + 11,965.00)  
 28,139.62  
 16174.62

accumulated \$30,000  
 Diamond credits lower than est.

Big Enough to Do the Job. Small Enough to Care How. - 14 -



# COSTS

## DRILLING DETAIL

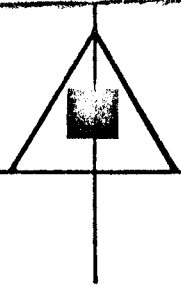
<u>Hole #</u>	<u>Size</u>	<u>From</u>	<u>To</u>	<u>Footage</u>	<u>Rate</u>	<u>Amount</u>
82-PL	NQ	0	25	25	22.10	552.50
82-PL	NQ	25	330	305	23.10	7,045.50
82-WD	NQ	0	25	25	22.10	552.50
82-WD	NQ	25	50	25	23.10	577.50
82-WD	NQ	50	76	26	25.00	650.00
82-WD	NQ	76	330	254	23.10	5,867.40
82-TP	NQ	0	25	25	22.10	552.50
82-TP	NQ	25	50	25	23.10	577.50
82-TP	NQ	50	100	50	25.00	1,250.00
82-TP	NQ	100	330	230	23.10	5,313.00
				<u>990</u>		<u>22,938.40</u>

X. B. S.

# Costs

MAY 21 1982

17-982-5



**Pentest** Co. Ltd.

INVOICE #2402

17439 - 65A Avenue, Surrey, B.C. V3S 4N7

PHONE: 576-2233

DATE: May 20, 1982

NAME: Thurber Consultants Ltd.

P. O. No.: 17-982-5

ADDRESS: #305 - 1550 Alberni Street

PROJECT No.: \_\_\_\_\_

Vancouver V6G 1A5

LOCATION: Cinola Mine Sites  
Sandspit, Queen Charlott  
Islands

Portable Penetration Equipment:

Mobilization & Demobilization

May 10th/82	4.5 hours
" 11th	10.0 "
" 12th	10.0 "
" 13th	8.0 "
" 14th	10.0 "
" 15th	8.0 "
" 16th	8.0 "

UNIT

\$1,950.00

\$65.00

292.50 ✓

"

650.00

"

650.00

"

520.00

"

650.00

"

520.00

"

520.00

Air Cargo (P.W.A.) Vancouver (-) Sandspit

616.50

Food Expenses

293.07

TOTAL

\$6,662.07

*K. B. S.*

-16-

TERMS: NET 30 DAYS


PAY

\$6,662.07

CERTIFICATE

I, Kenneth G. Sanders certify as follows:

1. I am a professional engineer registered in the geological section of the Association of Professional Engineers of B.C. since August 8th, 1963.
2. My residence is 13815 - 28th Avenue, Surrey, B.C.
3. I personally participated in the supervision of the drilling program on the North Florence and S. Florence claims in the Skeena Mining Division and which is the subject of this report.



---

Kenneth G. Sanders

P. Eng.

January 11th, 1983.