

Tiverton
Quality
approval
file.
2003-032388

CONSBEC INC.

Fax Transmittal

To: Nova Scotia DOE	From: Jamie Gill
Attn: Jacqueline Cook	Pages: Ten (10)
Fax: 902 742 7796	Date: 11 June 2003
Re: Break Water Project	

Comments:

Apologize for not getting back to you earlier on this, I have been on the Coast of Labrador for the last week on a project.

The following are all of our blast records from the site. None of the blasts triggered the seismograph. When blasting for armour stone, there is very small amounts of explosive used to try and leave the rock as large as possible. This reduces the vibration.

The collars (amount of material, ie stone,sand, placed on top of the explosives to contain them on surface) was very large to allow large blocks of rock to remain on top. This makes the blast concussion almost negligible and not enough to trigger the seismograph.

The problem with setting the seismograph trigger levels too low and try and force the seismograph to pick up a reading is that trucks passing by and even cars will trigger it and the event is never clear.

All of our blast reports are attached.

Call me with any additional questions or concerns.

Regards,



Manager
Jamie Gill, P.Eng

cc. Mike Lowe, Fax 902 532 0925

CONSBEC INC.

Mining & Construction

BLAST REPORT

No 012927

DATE 18 Mar 03 TIME 2:00 PM

BLASTER Terry Reid
Please Print
SIGNATURE *Terry Reid*

CONTRACT 03-089 (Parker Main Aggreg)

LOCATION Long Island, Digby N.S

DESIGN:

EXPLOSIVE

BLAST TYPE Open (Quarry)
SIZE OF HOLES 4"
NO. OF HOLES 38
NO. OF DELAYS 38
MAX. LOAD PER DELAY 11.8 Kgs
HOLES PER SERIES

- | TYPE | KGS |
|------------------------|-----------|
| 1. Nilite FR | → 325 Kgs |
| 2. Apex Super 3000 | → 115 Kgs |
| 3. UNimax 1 1/2" x 16" | → 9 Kgs |

CAPS

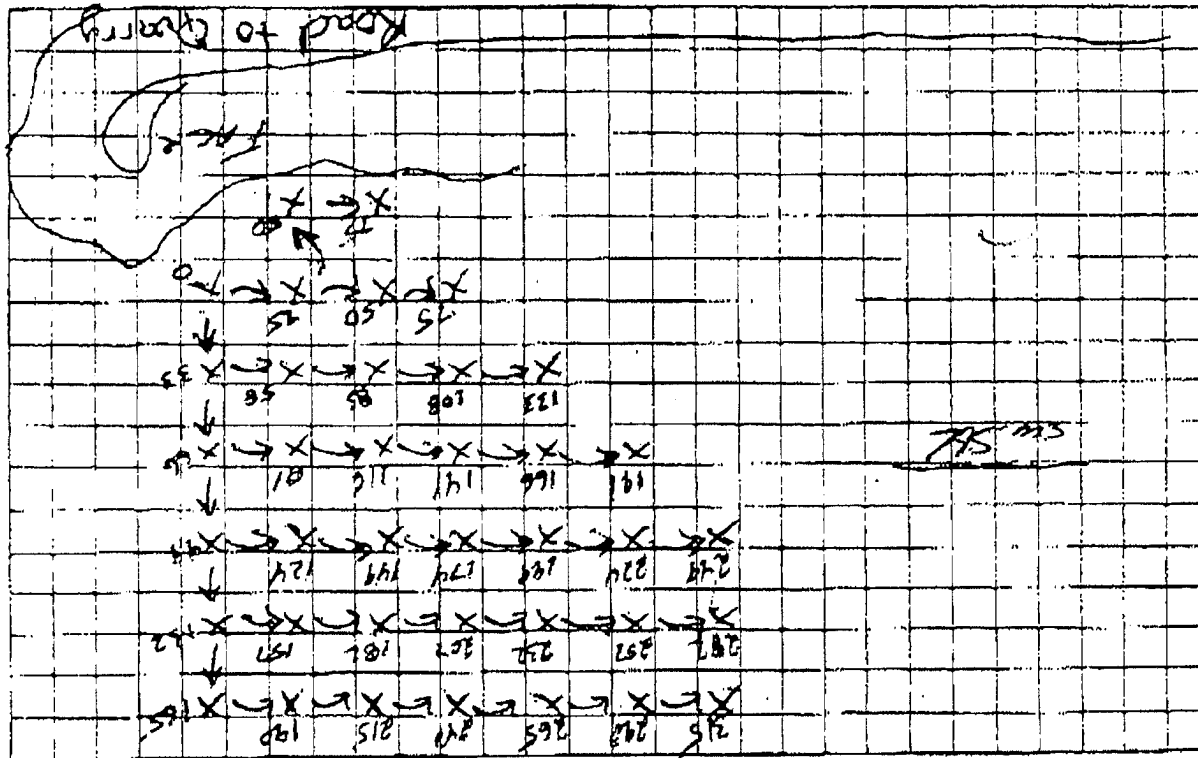
- | TYPE | QTY |
|----------------------|------|
| 1. Handedits 25 gm | → 38 |
| 2. H.T.O. 33ms Delay | → 6 |

DIMENSIONS Electric → 1

LOADING:

COLLAR 8' to 12'
COLUMN LOAD Nilite FR / Apex Super 3000
TOE LOAD UNimax 1 1/2" x 16"
SUBGRADE 8'

WIDTH
LENGTH
DEPTH
SPACING Pattern 8x8



REMARKS: Opening shot to establish face
HAZARDS: House down bottom of Hill
WIND DIRECTION & VELOCITY: Strong NW winds
ATMOSPHERIC CONDITIONS: Cloudy

CONSBEC INC.

Mining & Construction

BLAST REPORT

BLASTER Terry Reid No 012928

DATE 20 March 03 TIME 3:10 pm

SIGNATURE [Signature]

CONTRACT 03-089 Parker Mtn Aggreg

LOCATION Long Island Digby, N.S

DESIGN:

EXPLOSIVE

BLAST TYPE Open (Quarry)

TYPE

KG

SIZE OF HOLES 4"

1) Nitelc F.R. → 550 Kg

NO. OF HOLES 34

2) Apex Super 3000 → 158 Kg

NO. OF DELAYS 34

3) UNimax 1 1/2 x 1 1/2" → 15 Kg

MAX. LOAD PER DELAY

CAPS

TYPE

HOLES PER SERIES

1) Handed its. 25/300 9" → 34

2) HTD 33ms Delay 6" → 4

LOADING:

DIMENSIONS Electric → 1

COLLAR 10ft to 21

WIDTH

COLUMN LOAD Nitelc F.R. / Apex Super 3000

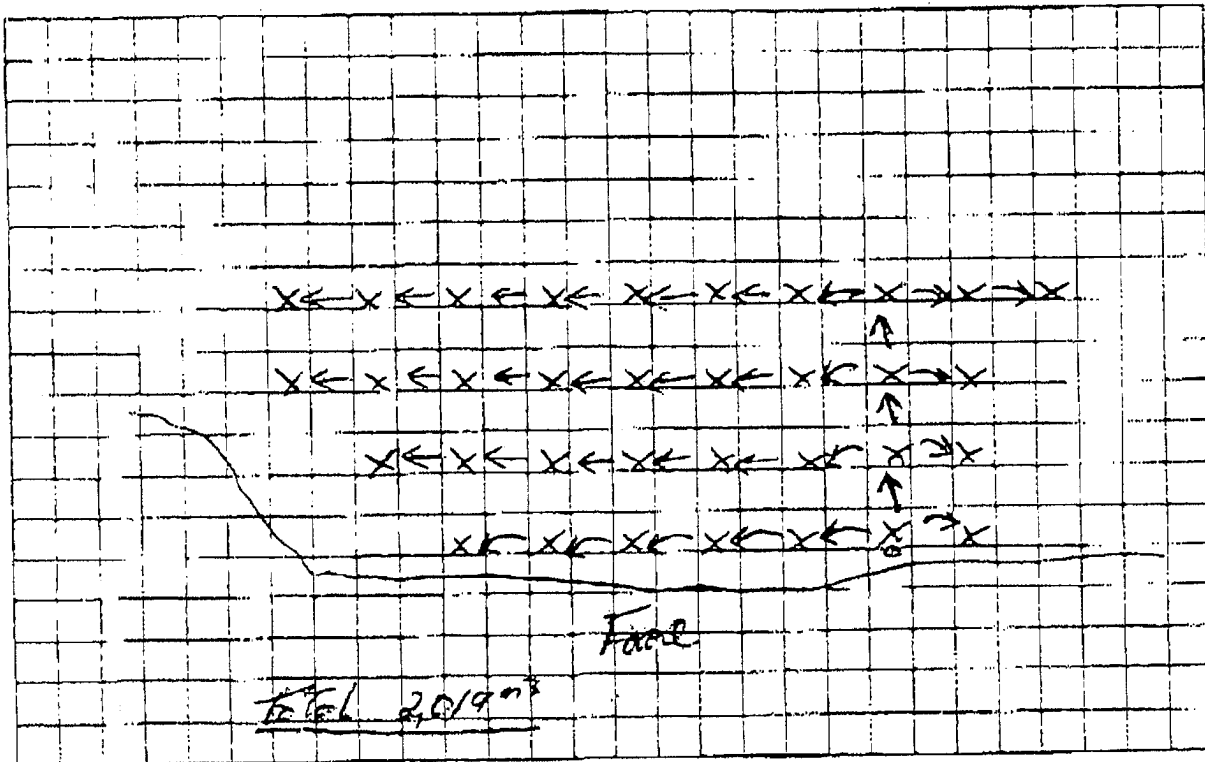
LENGTH

TOE LOAD 1/2 stick (UNimax 1 1/2 x 1 1/2")

DEPTH 18" to 30"

SUBGRADE 3FV

SPACING 10' x 10' pattern



REMARKS:

HAZARDS: House below Hill

WIND DIRECTION & VELOCITY:

ATMOSPHERIC CONDITIONS: Sunny (Nice day)

FROM : CONSBEC INC

FAX NO. : 9024690459

Mar. 30 2003 10:58PM P6

CONSBEC INC.

Mining & Construction

BLAST REPORT

NO 012929

DATE 24 March 03 TIME 4:50
CONTRACT 03 089 Parker main Aggreg

BLASTER Terry Reid
SIGNATURE Terry Reid
LOCATION Long Island, Digby N.S

DESIGN:

BLAST TYPE Open boulder & Toe
SIZE OF HOLES 3"
NO. OF HOLES 28
NO. OF DELAYS 28
MAX. LOAD PER DELAY
HOLES PER SERIES

EXPLOSIVE

TYPE
1) PowerFrac 2"x16" -> 8.3kg
2)
3)

CAPS

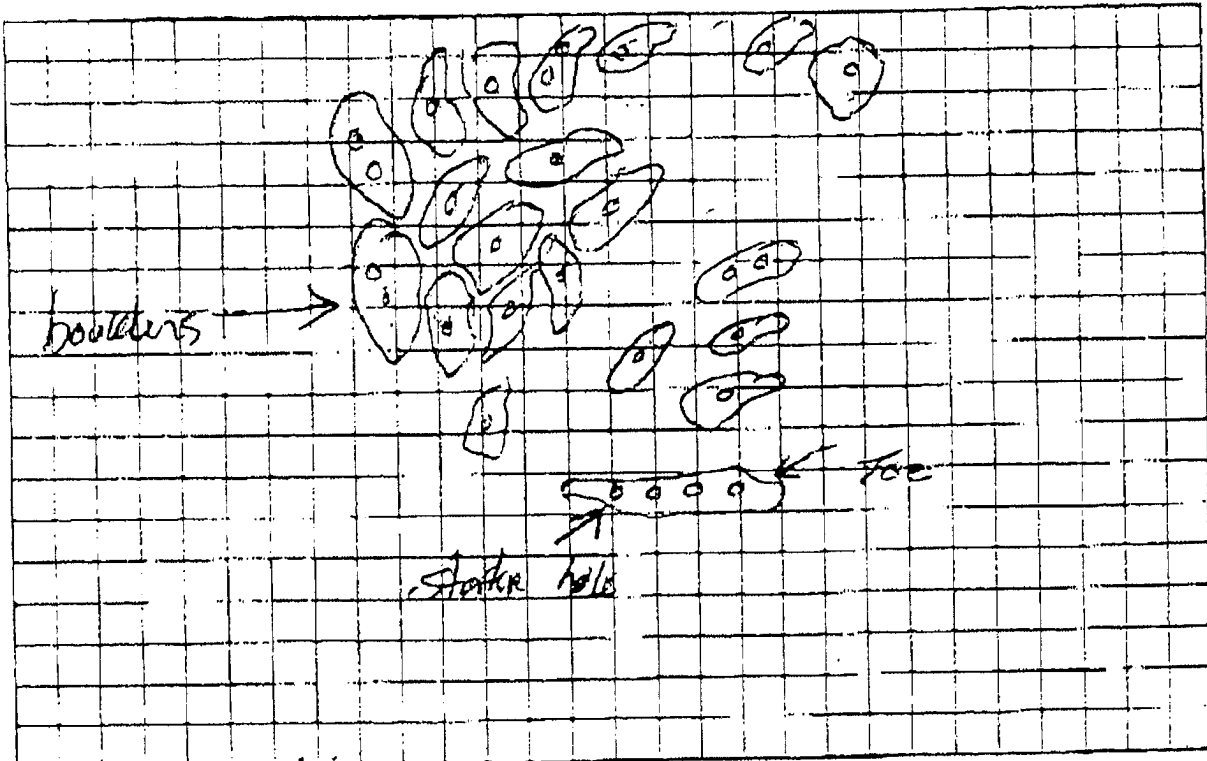
TYPE LENGTH
1) Handedits 9" -> 28
2) Electric -> 1

LOADING:

COLLAR Varied
COLUMN LOAD PowerFrac 2"x16"
TOE LOAD PowerFrac
SUBGRADE

DIMENSIONS

WIDTH
LENGTH
DEPTH
SPACING



REMARKS: Nice Shot
HAZARDS: ☺
WIND DIRECTION & VELOCITY: Light winds
ATMOSPHERIC CONDITIONS: cloudy

FROM : CONSBEC INC

FAX NO. : 9024690459

Mar. 30 2003 11:00PM P9

CONSBEC INC.

Mining & Construction

BLAST REPORT

NO 012930

DATE 26 March 03 TIME 5:00 pm

BLASTER Terry Reid
Please Print

SIGNATURE [Signature]

CONTRACT 03-089 Parker Mtn Aggr

LOCATION Lang Island, Digby N.S

DESIGN:

ELAST TYPE boulders
SIZE OF HOLES 3'
NO. OF HOLES 18
NO. OF DELAYS 18
MAX LOAD PER DELAY _____
HOLES PER SERIES _____

EXPLOSIVE

TYPE K98
1) UNimax 2x16" → 4.2 KGS
2) _____
3) _____

CAPS

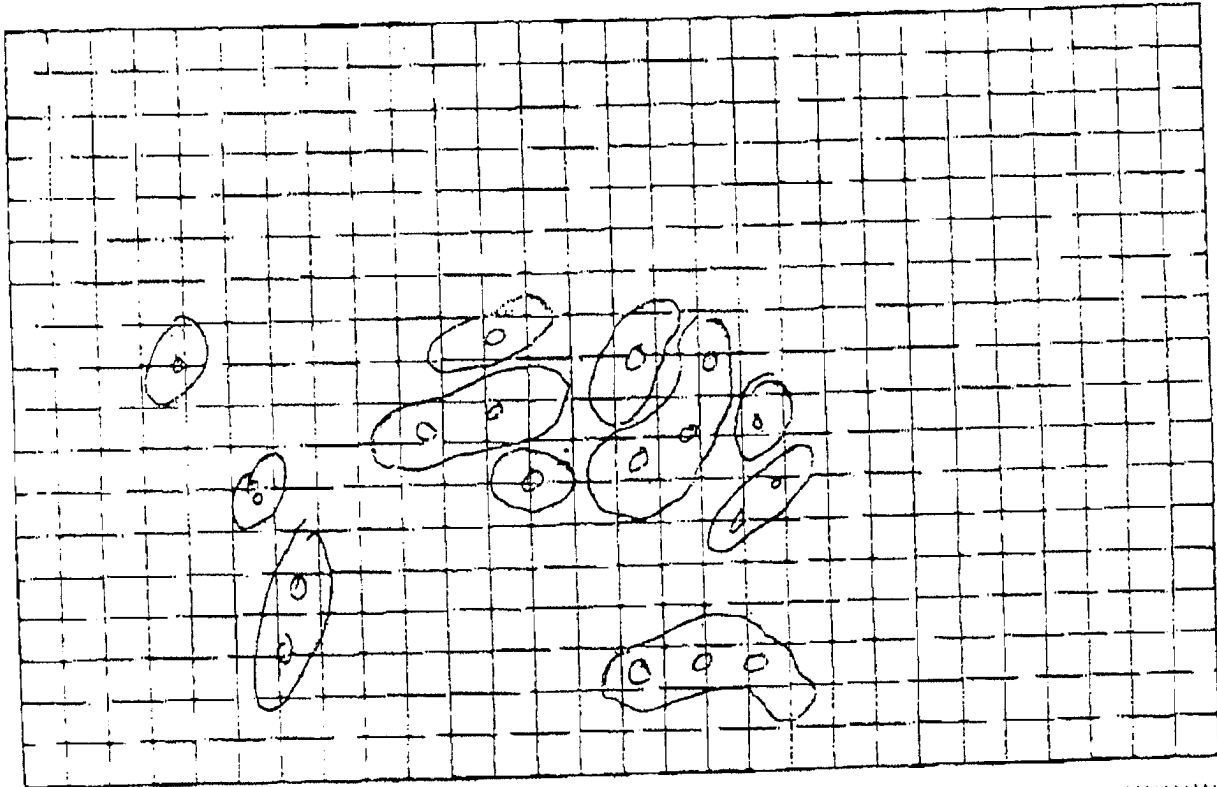
TYPE Electric CAPS 11
1) Electric 0's → 11
2) Headed 2m o T

LOADING:

COLLAR _____
COLUMN LOAD UNimax 2x16"
TOE LOAD _____
SUBGRADE _____

DIMENSIONS

WIDTH _____
LENGTH _____
DEPTH _____
SPACING _____



REMARKS: _____
HAZARDS: _____
WIND DIRECTION & VELOCITY: _____
METEOROLOGICAL CONDITIONS: Cloudy

CONSBEC INC.

Mining & Construction

BLAST REPORT

№ 012931

DATE 27 March 03 TIME 4:48 pm

BLASTER Terry Reid
PLEASE PRINT

SIGNATURE [Signature]

CONTRACT 03-089 Parker Main Aggreg

LOCATION Long Island Digby N.S

DESIGN:

BLAST TYPE OPEN

SIZE OF HOLES 4"

NO. OF HOLES 18 + 5 boulders

NO OF DELAYS 23

MAX. LOAD PER DELAY

HOLES PER SERIES

EXPLOSIVE

- | | TYPE | kg |
|----|----------------|-------|
| 1) | Nilite F.R. | 375 |
| 2) | Apex Super 300 | 100kg |
| 3) | UNimax 2'x16' | 8.5kg |

CAPS

- | | TYPE | LENGTH |
|----|-------------------------------|--------|
| 1) | Handed 1/2" Ad ^m | 23 |
| 2) | H.T.D. 33 ^{ms} Delay | 2 |

DIMENSIONS

WIDTH

LENGTH

DEPTH

SPACING 10 x 10 (pattern)

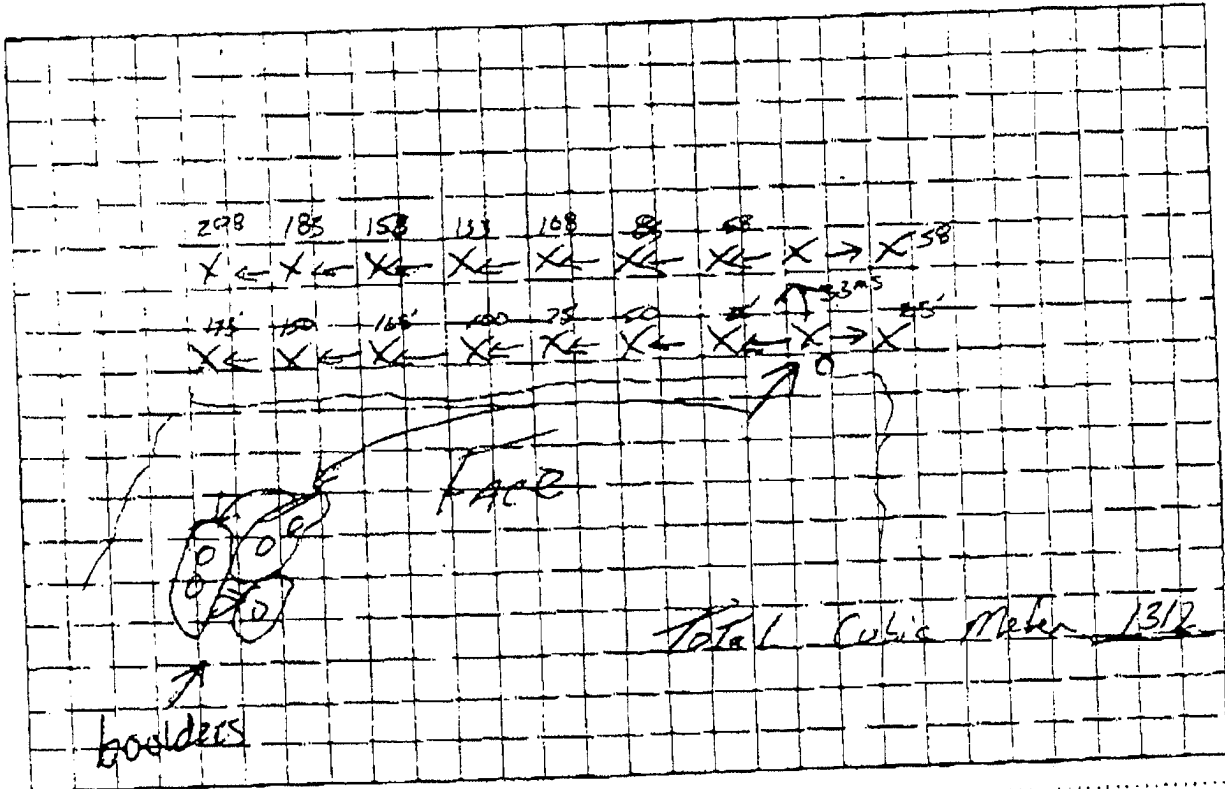
LOADING:

COLLAR 12 to 18^{ft}

COLUMN LOAD Nilite F.R. / Apex Super 300

TOE LOAD UNimax 2'x16"

SUBGRADE 35^{ft}



REMARKS:

HAZARDS:

WIND DIRECTION & VELOCITY: at lead

CONSBEC INC.

Mining & Construction

BLAST REPORT

BLASTER Terry Reid NO 012932

DATE 28 March 03 TIME Varied

SIGNATURE Terry Reid

CONTRACT 03-009

LOCATION Long Island, Digby NS

DESIGN:

EXPLOSIVE

BLAST TYPE Open / boulders

SIZE OF HOLES 3"

NO OF HOLES 14 + 11 boulder holes

NO OF DELAYS 25

MAX LOAD PER DELAY

HÖLES PER SERIES

- | | TYPE | KG |
|----|------------------------|--------------|
| 1) | <u>Nilite F.R.</u> | <u>75 Kg</u> |
| 2) | <u>PowerFrac 2x16"</u> | <u>8 Kg</u> |
| 3) | | |

CAPS

- | | TYPE | AMOUNT |
|----|---------------------|-----------|
| 1) | <u>blended 9m</u> | <u>25</u> |
| 2) | <u>Electric 0ms</u> | <u>3</u> |

LOADING:

COLLAR 7Ft

COLUMN LOAD Nilite FR

TOE LOAD PowerFrac 2x16" (1/3 stick)

SUBGRADE 3Ft

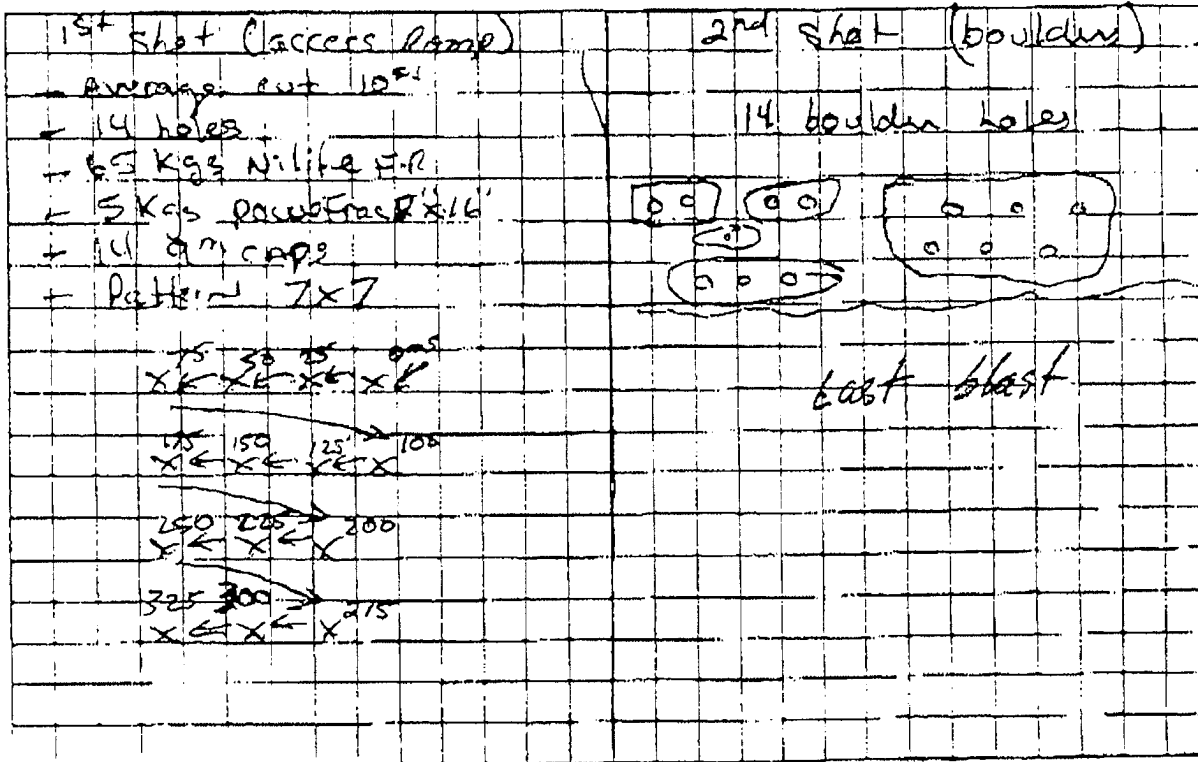
DIMENSIONS

WIDTH

LENGTH

DEPTH

SPACING



REMARKS Nice shot

HAZARDS:

WIND DIRECTION & VELOCITY:

ATMOSPHERIC CONDITIONS: Clear

FROM : CONSBEC INC

FAX NO. : 9024690459

Apr. 08 2003 10:49PM P3

CONSBEC INC.

Mining & Construction

BLAST REPORT

NO 012334

DATE April 03 TIME 5:00

BLASTER Terry Reid
SIGNATURE *[Signature]*

CONTRACT 03-089 Parker Mtain Aggr

LOCATION Long Island, Nova Scotia

DESIGN:

BLAST TYPE open (ARMOUR)
SIZE OF HOLES 4"
NO. OF HOLES 27 + 10 boulders
NO. OF DELAYS 27
MAX. LOAD PER DELAY
HOLES PER SERIES

EXPLOSIVE

- | TYPE | Qty |
|---------------------------|----------|
| 1) Nilite FR (bags) | → 550 Kg |
| 2) Apex Super 3000 | → 84 Kg |
| 3) PowerFrac 2 1/2" x 16" | → 20 Kg |

CAPS

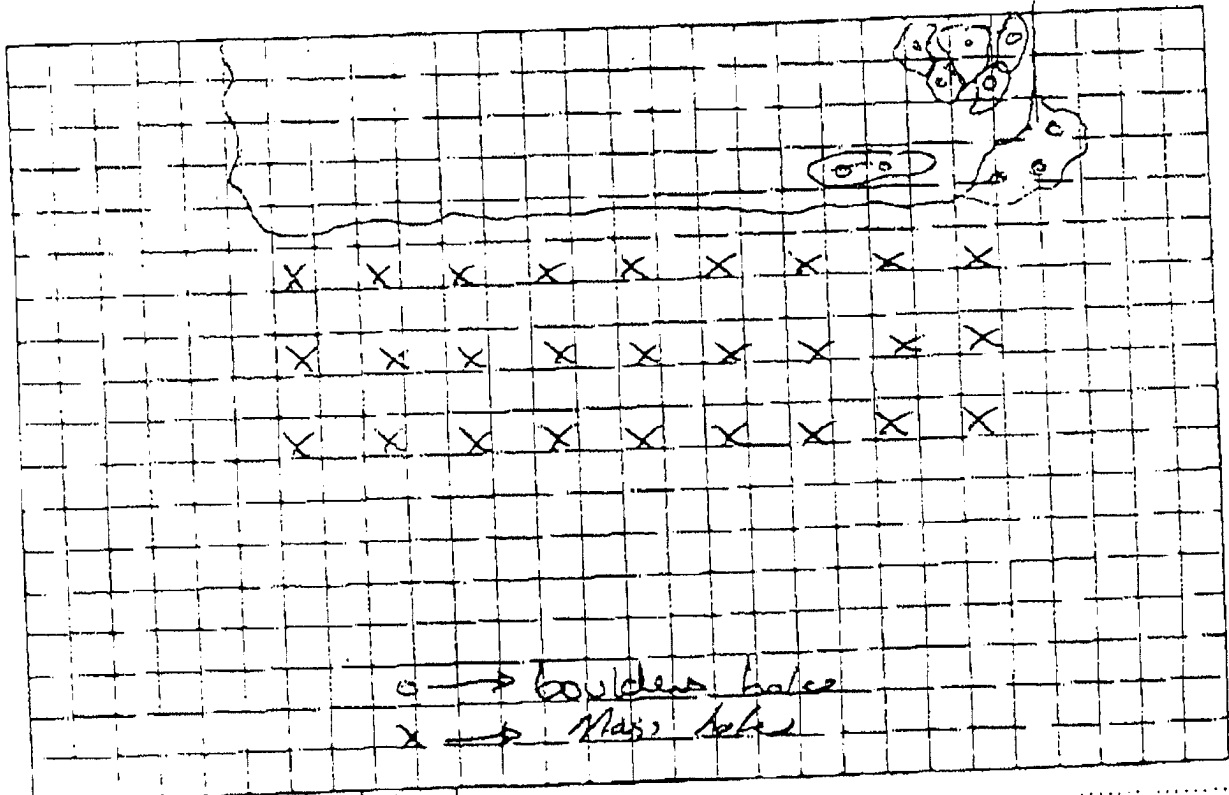
- | TYPE | Qty |
|---------------------|------|
| 1) Handsets 250-12" | → 38 |
| 2) H.T.D. 55ms 6" | → 6 |

LOADING:

COLLAR 12ft to 18ft
COLUMN LOAD Nilite:FR / Apex Super 3000
TOE LOAD PowerFrac 1/3 stick
SUBGRADE 3ft

DIMENSIONS

WIDTH 80ft
LENGTH 20ft
DEPTH Average depth 29ft
SPACING Pattern 10x10



REMARKS: Great blast

HAZARDS:

2,218 m³

WIND DIRECTION & VELOCITY:

Clean

TEMPERATURE CONDITIONS:

FROM : CONSBEC INC

FRX NO. : 9224690459

Apr. 13 2003 09:06PM PB

CONSBEC INC.

Mining & Construction

BLAST REPORT

No 012936

DATE 12 April 03 TIME 5:00pm

BLASTER Terry Reid

CONTRACT 02089 Parker mtan Aggr

SIGNATURE *[Signature]*

LOCATION Long Island, Nova Scotia

DESIGN:

EXPLOSIVE

BLAST TYPE Open boulders

1) PowerFrac 2 1/2" 4.7 KGS

SIZE OF HOLES 3"

NO. OF HOLES 18

NO. OF DELAYS 18

MAX LOAD PER DELAY

HOLES PER SERIES

CAPS

1) Handsetts 550 7m - 18

2) Electric 2

LOADING:

DIMENSIONS

COLLAR Varied

WIDTH

COLUMN LOAD PowerFrac

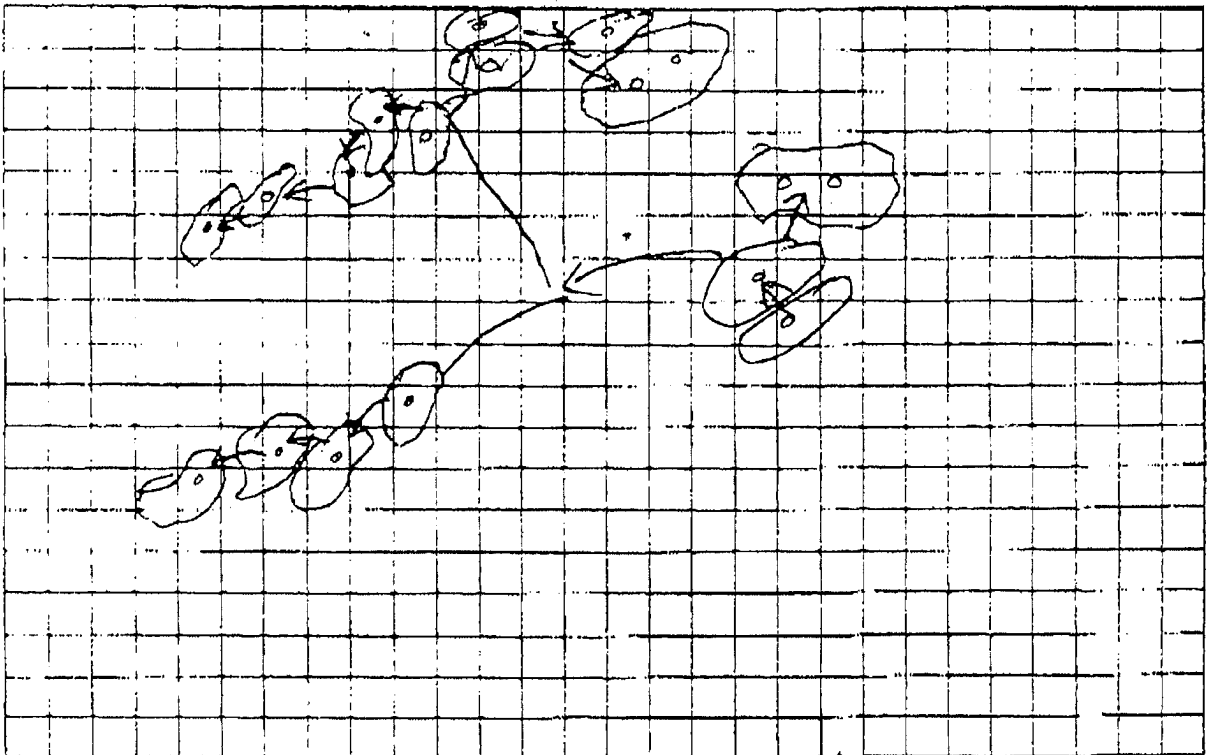
LENGTH

TOE LOAD

DEPTH

SUBGRADE

SPACING



REMARKS: Volume for Armour stone increased 2.5 tons to 4,000 tons

HAZARDS:

WIND DIRECTION & VELOCITY:

ATMOSPHERIC CONDITIONS:

(Very confused operation)

FROM : CONSBEC INC

FAX NO. : 9024690459

Apr. 20 2003 09:37PM P4

CONSBEC INC.

Mining & Construction

BLAST REPORT

NE 013321

DATE 19 April 03 TIME 5:15
CONTRACT 03-089 Parker Main Agr.
DESIGN:

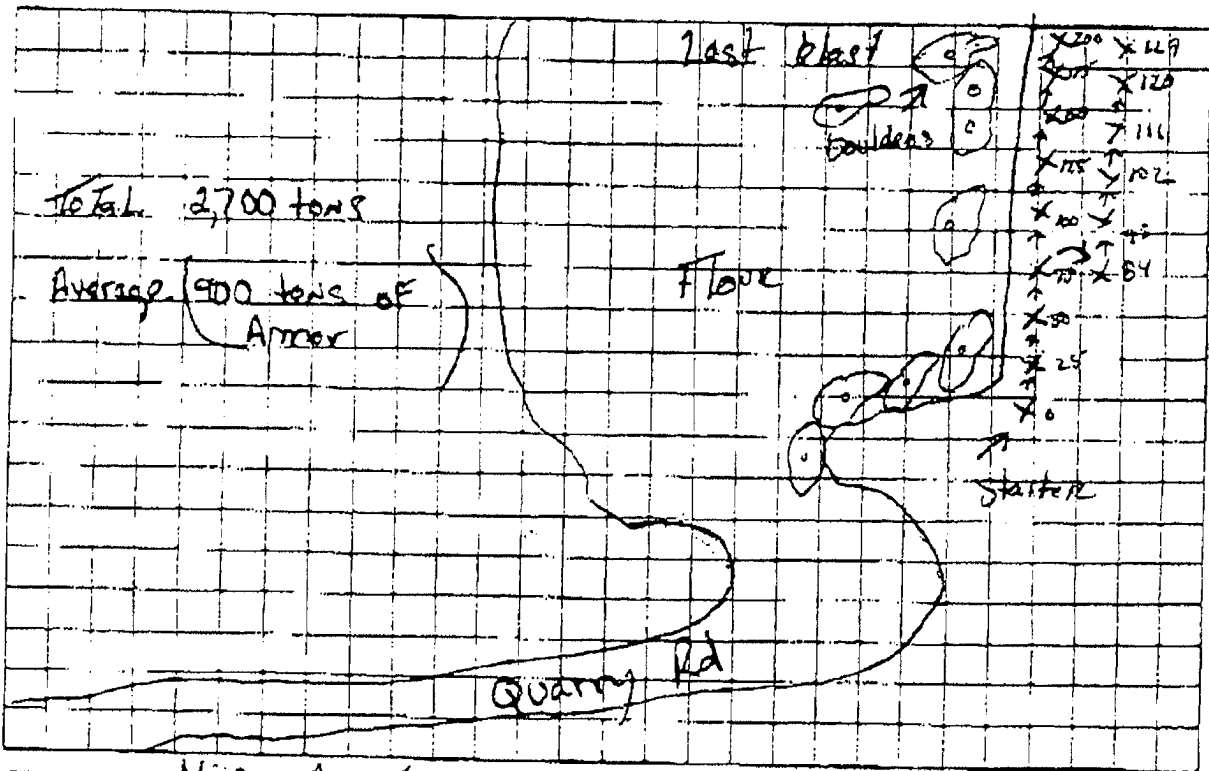
BLASTER Terry Reid
SIGNATURE [Signature]
LOCATION Long Island Digby N.S
EXPLOSIVE

BLAST TYPE Open (Quarry)
SIZE OF HOLES 4"
NO. OF HOLES 15 + 9 boulder holes
NO. OF DELAYS 28
MAX. LOAD PER DELAY
HOLES PER SERIES

- TYPE
- 1) Nilite FR → 325 Kg
 - 2) Apex Super 3000 3" → 50 Kg
 - 3) PowerFrac 2x16" → 15 Kg

LOADING:
COLLAR 16 to 20 Ft
COLUMN LOAD Nilite FR
TOE LOAD PowerFrac 2x16"
SUBGRADE SF

- CAPS
- TYPE
- 1) Handsets 35/300 12" → 15
 - 2) Handsets 25/300 9" → 13
- DIMENSIONS Electro 2
- WIDTH 20 Ft
LENGTH 90 Ft
DEPTH Average 27 Ft
SPACING 10x10 pattern



REMARKS: Nice Armor
HAZARDS:
WIND DIRECTION & VELOCITY:
ATMOSPHERIC CONDITIONS: Nice Day