

## DEPLOYMENT LOG for IceCube STRING # 59

Deployment Start: at <sup>9:38</sup>~~8:59~~ AM on Wednesday January 26, 2006

Deployment End: at 8:39 PM on Wednesday 26 JAN

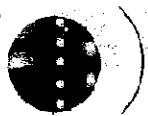
Target depth (DOM60): 2450 m Final depth: 2449.33

## Deployment Crew

Position	First Shift	Second Shift	Third Shift
Shift lead	Tom Ham	Gary Hill	
DOM install 1 (high)	Andreas		
DOM install 2 (low)	Kathik		
DOM supply 1 / DOM install 3	Mark		
DOM supply 2 / floater	Tim		
Winch operator (cable & tower)	Derek	Dan Wharton	
Notary (logbook & photos)	Tom Pi	John Jacobsen	
PTS (monitoring / sensors)	Andres	Ignacio Taboada	
Support (optional)	Michael Klort	Stephan Hundermark Patrik	
Time shift on:	6:30 am	6:00 pm	
Time shift off:	6:30 pm		

Summary/Comments:



**Hole Handover**☒ Drill data reviewed☒ maximum drift in x: ~1m ☐ plot☒ maximum drift in y: ~1m ☐ plot☒ maximum depth: 2520☒ minimum radius: ~60cm ☐ plot☒ plot of predicted radius vs depth and time☒ Hole dimensions verifiedTime: 9:06 AMDrill Lead: *Mark Thun*

name / signature / date

Deployment Lead: *Jon Am*

name / signature / date

☒ Handover complete**Hole Logging**

(skip if not applicable)

☐ Logger drop started

Time: \_\_\_\_\_ Speed: \_\_\_\_\_

☐ Logging started

Time: \_\_\_\_\_ Speed: \_\_\_\_\_

☐ Logging ended

Time: \_\_\_\_\_

☐ Estimated hole lifetime: \_\_\_\_\_

► Must reach target depth by \_\_\_\_\_ on \_\_\_\_\_



**Deployment Startup**Time: 8:59AM

- ☒ Cable winch anchored and ☒ operational
- ☒ Tower winch operational
- ☒ Tie off verified
- ☒ Yellow rope verified
- ☒ Deployment monitoring system (PTS) operational ☒ DDB# 1
- ☒ Pressure sensors on hand: Paro(s) and Keller
- ☒ Laser ranger, tape measure (metric) on hand
- ☒ Loopback terminators connected (inside cable reel drum)
- ☒ Uphole pressure system on hand: Setra sensor and cable
- ☒ DOMs placed in racks
- ☒ Weight stack on hand: weights (5) and 2 m cable
- Safety checks complete (☐ 1<sup>st</sup> shift ☐ 2<sup>nd</sup> shift)
  - ☒ ☐ Crew safety briefing
  - ☒ ☐ E-stop locations identified
  - ☒ ☐ TOS evacuation procedures reviewed
  - ☒ ☐ Mustering point identified
  - ☒ ☐ Snow mobile driver(s): Tom, Mark, Timo
  - ☒ ☐ CPR trained: Tom, Mark, Kerthib, Mike
  - ☐ ☐ Food runners: \_\_\_\_\_
- ☒ End of Main Cable brought into TOS and secured

call galley at 65521

**Cable end attachments**

- ☒ Measure well depth: 51.3 m
- ☒ Weights (5) attached
- ☒ Weight cable attached (weight stack complete) Time: \_\_\_\_\_



Photos: DOM ids (☐ long ☒ short); connectors (☐ long ☐ short)**DOM position 60**DOM id: ☒ TP5P0783

(T, Long)

Cable mark: Ø☐ \_\_\_\_\_  
Reason for substitution:☒ Bottom shackle connected to weight stack☐ Top clutch connected at link # \_\_\_\_\_☐ Bow OK → ☐ clutch zip tied☐ Cable end taped to weight stack cable

Payout: \_\_\_\_\_

Photos: ☐ chain with clutch ☐ phi orientation ☒ whole view**DOM position 59**DOM id: ☒ UP5P0800

(U, Short)

Cable mark: 15.8m☐ \_\_\_\_\_  
Reason for substitution:☐ Bottom shackle connected☐ Top clutch connected at link # \_\_\_\_\_☐ Bow OK → ☐ clutch zip tied $\Delta(59-60)$ : 17m  
(use laser ranger)Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view**Breakout 30**Time: ~~14:31~~☒ Cable/LC continuity test complete (Q16)☐ all pass☒ fail: Ø

Depth: \_\_\_\_\_

Payout \_\_\_\_\_

**- LongDOM**☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected**- ShortDOM**☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cable**Paro:** (= Paro2) ☐ Connected ☐ Operational ☐ Air pressure [PSI]: \_\_\_\_\_**Ser.#:** 98105 ☐ Cable mark: \_\_\_\_\_ ☐ Distance to DOM59: 1.1mNipple ☐ on ☐ off☐ All clear to lower cable ☺





Photos: DOM ids (☒ long ☐ short); connectors (☒ long ☐ short)**DOM position 58**DOM id: ☒ TP5P0803

(T, Long)

Cable mark: 32M

Reason for substitution:

☒ Bottom shackle connected☒ Top clutch connected at link # 18 $\Delta(58-59)$ : 16.9☒ Bow OK  $\rightarrow$  ☒ clutch zip tiedPhotos: ☒ chain with clutch ☐ phi orientation ☒ whole view**DOM position 57**DOM id: ☒ UP5P0812

(U, Short)

Cable mark: \_\_\_\_\_

Reason for substitution:

☒ Bottom shackle connected☒ Top clutch connected at link # \_\_\_\_\_ $\Delta(57-58)$ : 16.9☐ Bow OK  $\rightarrow$  ☒ clutch zip tiedPhotos: ☒ chain with clutch ☐ phi orientation ☐ whole view**Breakout 29**

Time:

☒ Cable/LC continuity test complete (Q16)☐ all pass☒ fail: \_\_\_\_\_Now 10:31

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

Depth:

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected

Paro2 \_\_\_\_\_

Payout \_\_\_\_\_

**- ShortDOM**☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cable☐ All clear to lower cable ☺



Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)**DOM position 56**DOM id: ☒ TP5Y0131

(T, Long)

Cable mark: 66M

Reason for substitution:

☒ Bottom shackle connected☒ Top clutch connected at link # \_\_\_\_\_ $\Delta(56-57)$ : 14.8☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☒ chain with clutch ☒ phi orientation ☐ whole view**DOM position 55**DOM id: ☒ UP5Y0128

(U, Short)

Cable mark: 83M

Reason for substitution:

☒ Bottom shackle connected☒ Top clutch connected at link # \_\_\_\_\_ $\Delta(55-56)$ : 16.9☒ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☒ chain with clutch ☒ phi orientation ☒ whole view**Breakout 28**

Time:

☒ Cable/LC continuity test complete (Q15)Now 11:15☐ all pass

Last b/o \_\_\_\_\_

☒ fail: \_\_\_\_\_ $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

Depth:

☐ connector discharged (ESD)

Paro2 \_\_\_\_\_

☐ connector O-ring in place and ☐ lubed

Payout \_\_\_\_\_

☐ breakout O-ring in place and ☐ lubed☐ connected**- ShortDOM**☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cable☐ All clear to lower cable ☺



Photos: DOM ids (☒ long ☒ short); connectors (☒ long ☒ short)**DOM position 54**

(T, Long)

Cable mark: 101MDOM id: ☒ TP5P0867☐

Reason for substitution:

☒ Bottom shackle connected☒ Top clutch connected at link # \_\_\_\_\_ $\Delta(54-55)$ : 16.9M☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☒ chain with clutch ☒ phi orientation ☒ whole view**DOM position 53**

(U, Short)

Cable mark: 117MDOM id: ☒ UP5P1008☐

Reason for substitution:

☒ Bottom shackle connected☒ Top clutch connected at link # 18 $\Delta(53-54)$ : 16.9☒ Bow OK  $\rightarrow$  ☒ clutch zip tiedPhotos: ☒ chain with clutch ☒ phi orientation ☒ whole view**Breakout 27**

Time:

☐ Cable/LC continuity test complete (Q15)☐ all pass☐ fail: \_\_\_\_\_Now 11:42

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_

- LongDOM

Depth:

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected

Paro2 \_\_\_\_\_

Payout \_\_\_\_\_

- ShortDOM

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cableBreak for lunch @ 11:58☐ All clear to lower cable ☺



Photos: DOM ids (☒ long ☐ short); connectors (☒ long ☐ short)**DOM position 52**

(T, Long)

Cable mark:

134.5MDOM id: ☒ TP5H0199☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(52-53)$ : 16-9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**DOM position 51**

(U, Short)

Cable mark:

151MDOM id: ☒ UP5H0174☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(51-52)$ : 16-9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**Breakout 26**

Time:

☒ Cable/LC continuity test complete (Q14)☐ all pass☒ fail: \_\_\_\_\_

Now \_\_\_\_\_

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_

- LongDOM

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected

Depth:

Paro2 \_\_\_\_\_

Payout \_\_\_\_\_

- ShortDOM

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cable☐ All clear to lower cable ☺





Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)**DOM position 50**

(T, Long)

Cable mark: 168MDOM id: ☒ TP5P0947☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(50-51)$ : 16.9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view☐ Curved distance around DOM: \_\_\_\_\_ ☐ Vertical distance: \_\_\_\_\_**DOM position 49**

(U, Short)

Cable mark: 185MDOM id: ☒ UP5P1028☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(49-50)$ : 16.9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view☐ Curved distance around DOM: \_\_\_\_\_ ☐ Vertical distance: \_\_\_\_\_**Breakout 25**☐ Cable/LC continuity test complete (Q14)☐ all pass☐ fail: \_\_\_\_\_

- LongDOM

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected

- ShortDOM

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cable

Time:

Now 12:31

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_

Depth:

Paro2 169.1

Payout \_\_\_\_\_

☐ All clear to lower cable ☺



Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)**DOM position 48**

(T, Long)

Cable mark: 201MDOM id: ☒ TP5P0945☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(48-49)$ : 16.9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**DOM position 47**

(U, Short)

Cable mark: 219.4MDOM id: ☒ UP5P1022☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(47-48)$ : 16.9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**Breakout 24**☐ Cable/LC continuity test complete (Q13)☐ all pass☐ fail: \_\_\_\_\_**- LongDOM**☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected**- ShortDOM**☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cable

Time:

Now 12:40

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_

Depth:

Paro2 202.3

Payout \_\_\_\_\_

☐ All clear to lower cable ☺



Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)**DOM position 46**

(T, Long)

Cable mark: 236.3DOM id: ☒ TP5Y0103☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(46-47)$ : 16.9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**DOM position 45**

(U, Short)

Cable mark: 253.5DOM id: ☒ UP5Y0084☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(45-46)$ : 16.9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**Breakout 23**☐ Cable/LC continuity test complete (Q13)☐ all pass☐ fail: \_\_\_\_\_

- LongDOM

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected

- ShortDOM

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cable

Time:

Now 12:54

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_

Depth:

Paro2 237.6M

Payout \_\_\_\_\_

reel for  
DOM 46☐ All clear to lower cable ☺



Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)**DOM position 44**

(T, Long)

Cable mark:

270.4DOM id: ☒ TP5P0931☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 20 $\Delta(44-45)$ : 16-9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**DOM position 43**

(U, Short)

Cable mark:

287.3DOM id: ☒ UP5P1010☐

Reason for substitution:

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(43-44)$ : 16.9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**Breakout 22**

Time:

☐ Cable/LC continuity test complete (Q12)☐ all pass☐ fail: \_\_\_\_\_Now 1:07

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_

- LongDOM

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected

Depth:

Paro2 288.17

Payout \_\_\_\_\_

- ShortDOM

☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cable☐ All clear to lower cable ☺





Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)**DOM position 42**DOM id: ☒ TP5Y0225

(T, Long)

Cable mark: \_\_\_\_\_

Reason for substitution: \_\_\_\_\_

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(42-43)$ : 17.0☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**DOM position 41**DOM id: ☒ UP5Y0204

(U, Short)

Cable mark: 321.5

Reason for substitution: \_\_\_\_\_

☐ Bottom shackle connected☐ Top clutch connected at link # 18 $\Delta(41-42)$ : 16.9☐ Bow OK  $\rightarrow$  ☐ clutch zip tiedPhotos: ☐ chain with clutch ☐ phi orientation ☐ whole view**Breakout 21**

Time:

☐ Cable/LC continuity test complete (Q12)☐ all pass☐ fail: \_\_\_\_\_Now 1:19

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected

Depth:

Paro2 323.33

Payout \_\_\_\_\_

**- ShortDOM**☐ connector discharged (ESD)☐ connector O-ring in place and ☐ lubed☐ breakout O-ring in place and ☐ lubed☐ connected☐ Loose pigtails taped to cable☐ All clear to lower cable ☺





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 40**

DOM id: ✓ TP5H0233

(T, Long)

Cable mark: 338.3

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(40-41)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 39**

DOM id: ✓ UP5H0184

(U, Short)

Cable mark: 355.2

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(39-40)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 20**

Time:

Cable/LC continuity test complete (Q11)

all pass

fail: \_\_\_\_\_

Now 1:30

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Depth:  
Paro2 357.06

Payout \_\_\_\_\_

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 38**

DOM id: ✓ TP5P0521

(T, Long)

Cable mark: 372.2

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(38-39)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 37**

DOM id: ✓ UP5P0538

(U, Short)

Cable mark: 389.2

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(37-38)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 19**

Time:

Cable/LC continuity test complete (Q11)

all pass

fail: \_\_\_\_\_

Now 1:43

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Depth:

Paro2 391.6

Payout \_\_\_\_\_

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 36**

DOM id: ✓ TP5P0823

(T, Long)

Cable mark: 406.2

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(36-37)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 35**

DOM id: ✓ UP5P0910

(U, Short)

Cable mark: 423.2

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(35-36)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 18**

Time:

Cable/LC continuity test complete (Q10)

all pass

fail: \_\_\_\_\_

Now 1:54

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_

## - LongDOM

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Depth:  
Paro2 425.63

Payout \_\_\_\_\_

## - ShortDOM

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable

Put two Kellers (one is for backup) in bucket of water/ice mix







Photos: DOM ids ( long short); connectors ( long short) ✓

TP 4P0241

**DOM position 34**DOM id: ~~TP5Y0077~~

(T, Long)

Cable mark: 440.3

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(34-35)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

*todk photo of crabs DOM TP5Y0077* ✓**DOM position 33**

DOM id: UP5Y0072

(U, Short)

Cable mark: 457.1

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(33-34)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 17**

Time:

Cable/LC continuity test complete (Q10)

Now 2:10

all pass

Last b/o

fail: \_\_\_\_\_

 $\Delta t$  [min]**- LongDOM**

Depth:

connector discharged (ESD)

Paro2

connector O-ring in place and lubed

Payout 45 460.43

breakout O-ring in place and lubed

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids (long short); connectors (long short)

**DOM position 32**

DOM id: TP5P0741 ✓

(T, Long)

Cable mark: 474.2

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(32-33)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 31**

DOM id: UP5P0878

(U, Short)

Cable mark: 491.2

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(31-32)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 16**

Time:

Cable/LC continuity test complete (Q9)

Now 2:21

all pass

Last b/o \_\_\_\_\_

fail: \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

Depth:

connector discharged (ESD)

Paro2 494.67

connector O-ring in place and lubed

Payout \_\_\_\_\_

breakout O-ring in place and lubed

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





## IceCube String Deployment Log

String 59

*note: surface to DOM cable poorly wound.*

Photos: DOM ids ( long short); connectors ( long short)

**DOM position 30**

DOM id: TP5P0511 ✓

(T, Long)

Cable mark: 508.1

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(30-31)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 29**

DOM id: UP4Y0032 ✓

(U, Short)

Cable mark: 525.1

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18 $\Delta(29-30)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 15**

Time:

Cable/LC continuity test complete (Q9)

all pass

fail: \_\_\_\_\_

Now \_\_\_\_\_

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_

## - LongDOM

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Depth: \_\_\_\_\_

Paro2 529.09

Payout \_\_\_\_\_

## - ShortDOM

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable

Thermistor: Present Distance to DOM29: \_\_\_\_\_

Keller: 15A2999 Connected Operational Air pressure [PSI]: \_\_\_\_\_Ser.#: 0504001 Cable mark: \_\_\_\_\_ Distance to DOM29: 1.56M

All clear to lower cable ☺





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 28**

(T, Long)

Cable mark:

542

DOM id: TP5P0699 ✓

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18

 $\Delta(28-29)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 27**

(U, Short)

Cable mark:

559

DOM id: UP5P0856 ✓

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 18

 $\Delta(27-28)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 14**

Cable/LC continuity test complete (Q8)

all pass

fail:

**- LongDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable

Time:

Now

2:54

Last b/o

 $\Delta t$  [min]

Depth:

Paro2

Keller

Payout

563.38

All clear to lower cable ☺







Photos: DOM ids ( long short); connectors ( long short)

**DOM position 26**

DOM id: TP5P0809 ✓

(T, Long)

Cable mark: 576

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(26-27)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 25**

note: DOM struck side of hologuide on descent

DOM id: UP5P0868 ✓

(U, Short)

Cable mark: 593

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(25-26)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 13**

Time:

Cable/LC continuity test complete (Q8)

Now 3:06

all pass

Last b/o \_\_\_\_\_

fail: \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

Depth:

connector discharged (ESD)

Paro2 597.58

connector O-ring in place and lubed

Keller \_\_\_\_\_

breakout O-ring in place and lubed

Payout \_\_\_\_\_

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable

All clear to lower cable ☺

All clear to lower cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 24**

DOM id: TP5Y0197 ✓

(T, Long)

Cable mark: 610

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(24-25)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 23**

DOM id: UP5Y0196 ✓

(U, Short)

Cable mark: 627

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(23-24)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 12**

Time:

Cable/LC continuity test complete (Q7)

Now 3:19

all pass

Last b/o \_\_\_\_\_

fail: \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

Depth:

connector discharged (ESD)

Paro2 631.97

connector O-ring in place and lubed

Keller 605.02

breakout O-ring in place and lubed

Payout \_\_\_\_\_

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 22**

DOM id: TP5H0239 ✓

(T, Long)

Cable mark: 644

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(22-23)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 21**

DOM id: UP5H0198 ✓

(U, Short)

Cable mark: 661

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(21-22)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 11**

Time:

Cable/LC continuity test complete (Q7)

all pass

fail: \_\_\_\_\_

Now 3:32

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Depth:

Paro2 666.37Keller 681.67

Payout \_\_\_\_\_

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 20**

DOM id: ✓ TP5P0781

(T, Long)

Cable mark: 678

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(20-21)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

Curved distance around DOM: \_\_\_\_\_ Vertical distance: \_\_\_\_\_

**DOM position 19**

DOM id: ✓ UP5P0522

(U, Short)

Cable mark: 695

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(19-20)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

Curved distance around DOM: \_\_\_\_\_ Vertical distance: \_\_\_\_\_

**Breakout 10**

Time:

Cable/LC continuity test complete (Q6)

Now 3:45

all pass

Last b/o \_\_\_\_\_

fail: \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

connector discharged (ESD)

Depth:

connector O-ring in place and lubed

Paro2 700.68breakout O-ring in place and lubed  
connectedKeller 704.39

Payout \_\_\_\_\_

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed  
connected

Loose pigtails taped to cable







Photos: DOM ids ( long short); connectors ( long short)

**DOM position 18**

DOM id: ✓ TP5Y0175

(T, Long)

Cable mark: 712

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(18-19)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 17**

DOM id: ✓ UP5Y0188

(U, Short)

Cable mark: 729

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(17-18)$ : 17

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 9**

Time:

Cable/LC continuity test complete (Q6)

all pass

fail: \_\_\_\_\_

Now 3:55

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Depth:

Paro2 734.83Keller 730.63

Payout \_\_\_\_\_

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 16**DOM id: TP5P0793<sup>763</sup>

(T, Long)

Cable mark: 745.9

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(16-17)$ : 17

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 15**

DOM id: UP5P0736

(U, Short)

Cable mark: 762.9

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(15-16)$ : 17

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 8**

Time:

Cable/LC continuity test complete (Q5)

Now 4:05

all pass

Last b/o \_\_\_\_\_

fail: \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_

- LongDOM

Depth:

connector discharged (ESD)

Paro2 769.15

connector O-ring in place and lubed

Keller 752.98

breakout O-ring in place and lubed

Payout \_\_\_\_\_

connected

- ShortDOM

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 14**

DOM id: TP5Y0145

(T, Long)

Cable mark: 779.9

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(14-15)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 13**

DOM id: UP5Y0152

(U, Short)

Cable mark: 796.9

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(13-14)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 7**

Time:

Cable/LC continuity test complete (Q5)

Now 4:16

all pass

Last b/o \_\_\_\_\_

fail: \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

Depth:

connector discharged (ESD)

Paro2 803.31

connector O-ring in place and lubed

Keller 778.22

breakout O-ring in place and lubed

Payout \_\_\_\_\_

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 12**

DOM id: TP5P0851 ✓

(T, Long)

Cable mark: 813.8

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(12-13)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 11**

DOM id: ✓ UP5P0886

(U, Short)

Cable mark: 830.8

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(11-12)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 6**

Time:

Cable/LC continuity test complete (Q4)

all pass

fail: \_\_\_\_\_

Now 4:27

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Depth:

Paro2 837.53Keller 830.36

Payout \_\_\_\_\_

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable







Photos: DOM ids ( long short); connectors ( long short)

**DOM position 10**

DOM id: ✓ TP5Y0173

(T, Long)

Cable mark: 847.8

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(10-11)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 9**

DOM id: ✓ UP5Y0126

(U, Short)

Cable mark: 864.7

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(9-10)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 5**

Time:

Cable/LC continuity test complete (Q4)

Now 4:38

all pass

Last b/o \_\_\_\_\_

fail: \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

connector discharged (ESD)

Depth: 871.90

connector O-ring in place and lubed

Keller 865.01

breakout O-ring in place and lubed

Payout \_\_\_\_\_

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 8**

DOM id: TP5P0881

(T, Long)

Cable mark: 881.7

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(8-9)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 7**

DOM id: UP5P0890

(U, Short)

Cable mark: 898.6

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(7-8)$ : 17

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 4**

Cable/LC continuity test complete (Q3)

all pass

fail: \_\_\_\_\_

Time:

Now 4:49

Last b/o \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Depth:

Paro2 905.86Keller 899.64

Payout \_\_\_\_\_

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 6**

DOM id: ✓ TP5P0533

(T, Long)

Cable mark: 915.6

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(6-7)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 5**

DOM id: ✓ UP4Y0042

(U, Short)

Cable mark: 932.6

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(5-6)$ : 17.0

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 3***photo of bare wire on cable*

Time:

Cable/LC continuity test complete (Q3)

Now 5:00

all pass

Last b/o \_\_\_\_\_

fail: \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

Depth:

connector discharged (ESD)

Paro2 939.04

connector O-ring in place and lubed

Keller 934.27

breakout O-ring in place and lubed

Payout \_\_\_\_\_

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable





Photos: DOM ids ( long short); connectors ( long short)

**DOM position 4**

DOM id: TP5H0247

(T, Long)

Cable mark: 949.6

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(4-5)$ : 17

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 3**

DOM id: UP5H0204

(U, Short)

Cable mark: 966.6

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19 $\Delta(3-4)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 2**

Time:

Cable/LC continuity test complete (Q2)

Now 5:14

all pass

Last b/o \_\_\_\_\_

fail: \_\_\_\_\_

 $\Delta t$  [min] \_\_\_\_\_**- LongDOM**

Depth:

connector discharged (ESD)

Paro2 973

connector O-ring in place and lubed

Keller 967

breakout O-ring in place and lubed

Payout \_\_\_\_\_

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

Loose pigtails taped to cable

All clear to lower cable ☺







Photos: DOM ids ( long short); connectors ( long short)

**DOM position 2**

DOM id: TP5P0761 ✓

(T, Long)

Cable mark: 983.6

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19

 $\Delta(2-3)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**DOM position 1**

DOM id: UP5P0594 ✓

(U, Short)

Cable mark: 1000.5

Reason for substitution:

Bottom shackle connected

Top clutch connected at link # 19

 $\Delta(1-2)$ : 16.9

Bow OK → clutch zip tied

Photos: chain with clutch phi orientation whole view

**Breakout 1**

Time:

Cable/LC continuity test complete (Q2)

Now 5:28

all pass

Last b/o

fail:

 $\Delta t$  [min]**- LongDOM**

Depth:

connector discharged (ESD)

Paro2

connector O-ring in place and lubed

Keller 1008.44

breakout O-ring in place and lubed

Payout 1003.51

connected

**- ShortDOM**

connector discharged (ESD)

connector O-ring in place and lubed

breakout O-ring in place and lubed

connected

note:

finished 5:38pm

Loose pigtails taped to cable

**No second Paro...**

Group photo

All clear to lower cable ☺



**Uphole Pressure Sensor (Setra)***After DOM1 is safely under the surface (> 50 m)*Time: 5:50 PM

Stop the cable winch ✓

Lower Setra pressure sensor into hole ✓

Distance to Setra from floor: 60.00

Setra readout verified with monitoring system

Well depth from Setra: 10.55Well depth from laser: 46.01 mIf the two well depth measurements agree: NO

Switch to Setra well depth in monitoring system

Time: 5:57

Payout enabled ✓  
Payout zeroed ✓

**Now the String Drop begins**



**String Drop***The target depth is 2450 m*

Switch cable winch to computer control

Speed: ~14m/min Time: 6:40 PM Depth: ~1280 m

Speed: \_\_\_\_\_ Time: \_\_\_\_\_ Depth: \_\_\_\_\_

Speed: \_\_\_\_\_ Time: \_\_\_\_\_ Depth: \_\_\_\_\_

Speed: \_\_\_\_\_ Time: \_\_\_\_\_ Depth: \_\_\_\_\_

Speed: \_\_\_\_\_ Time: \_\_\_\_\_ Depth: \_\_\_\_\_

Speed: \_\_\_\_\_ Time: \_\_\_\_\_ Depth: \_\_\_\_\_

1496

**Depth Monitoring** (log on the fly – do not stop for this)

Depth Paro2 <sup>1</sup>	Time	Well depth <sup>1</sup>	Depth c/marks <sup>2</sup>	Depth payout <sup>1</sup>	Δdepth P2-P1 <sup>1</sup>	Δdepth P2-K <sup>1</sup>	Δdepth K-P1 <sup>1</sup>
1000 m					n/a		n/a
1500 m	6:20	45.7	1496	-1500	n/a	-1 m	n/a
2000 m	6:47	45.63	1992	-2000	n/a	-5 m	n/a
2100 m	6:53		2091	-2100	n/a	-3 m	n/a
2200 m			<del>2191</del>		n/a		n/a
2300 m	7:31	45.34	2289	-2300	n/a	-7 m	n/a
2400 m	7:46	45.2	2389	-2400	n/a	-7 m	n/a

<sup>1</sup>Read off monitoring screen<sup>2</sup>Cable mark offset (at DOM60) is (p. 4): -1.2 m (DOM59 15.8 m)

Switch to manual control @ 2400 m

Well depth

@ 2420: \_\_\_\_\_

@ 2440: \_\_\_\_\_

Well depth: 45.00 m  
finalPosition string at target depth of **2450 m** Time: \_\_\_\_\_String secured with Yale grip and anchor chain Time: 8:35 PM





### Absolute depth with bottom Paro (depth in *meters* and pressure in *PSI*)

Distance from Paro2 to DOM60:

$$d_{\text{Paro2-DOM59}} = \underline{1.1} \text{ (from p. 4)}$$

$$d_{\text{Paro2-DOM60}} = (d_{\text{Paro2-DOM59}} + 17) \text{ m} = \underline{18.1} \leftarrow \text{insert below}$$

Convert Paro2 pressure to string depth:

$$K = 3.78151 \cdot 10^{-6} \text{ /PSI (compressibility of aerated water)}$$

Ambient pressure (from p. 4):  $P_0 = \underline{9.31} \text{ PSI} \rightarrow \exp(-KP_0) = \underline{\hspace{2cm}}$  (use 6 decimals for exp's)

Pressure reading (from screen):  $P = \underline{3424.68} \text{ PSI} \rightarrow \exp(-KP) = \underline{\hspace{2cm}}$

$$\text{Subtract exponentials} \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times 1.85947 \cdot 10^5$$

$$\text{Paro2 depth in water} \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ m}$$

$$\text{Add distance to DOM60 (above)} \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \text{ m}$$

$$\text{Add well depth} \rightarrow \underline{\hspace{2cm}} + \underline{45.00} \text{ m}$$

$$\text{Depth of bottom DOM} \rightarrow \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ m}$$

### Final depth estimates

←----- read off deployment screen -----→

Time:	Paro2	Keller	Paro1	Payout	Cable marks
Reading	<u>3424.68</u> PSI	<u>2703.66</u> PSI	n/a	<u>-2449.32</u> m	m
Offset	<u>9.31</u> PSI	<u>10.0</u> PSI	n/a	_____ m	m
Well depth	_____ m			This space is intentionally left blank	
Dist. to DOM60	_____ m	_____ m	n/a		
<b>DEPTH (DOM60)</b>	<u>2449.33</u>	<u>2457.25</u>	n/a		

Time: 8:38

**Final depth (DOM60):** 2449.33





**Deployment Closeout**

- / Log entries complete
- ✓ String safely secured
- ✓ Hole covered and secured
- ✓ Equipment safely shutdown and secured
- ✓ Deployment data OK (in database)
- ✓ Site cleanup
- Deployment crew dismissed
- ✓ String deployment complete

Time: 8:39 PM Date: Jan / 25 / 2006

Shift Lead:

Jonathan Bill Hill  
name / signature

Logger:

John Jacobsen (et al.)  
name / signature

PTS Lead:

Ignacio Taborda PT  
name / signature

Deployment Manager:

Jonathan  
name / signature

Safety Officer:

TH  
name / signature

IceCube On-ice Lead:

name / signature

