DEPLOYMENT LOG for IceCube STRING # 49

Deployment Start: *at* 02:43 *on* 29 Jan 2006

Deployment End: *at* 1:18 PM *on* 29 Jan 2006

Target depth (DOM60): **2450** m   Final depth: 2450.99

Deployment Crew

Position	First Shift	Second Shift	Third Shift
Shift lead	Gary Hill	Tom Ham	
DOM install 1 (high)	John Jacobsen	Timo Messarius	
DOM install 2 (low)	Patrick Berghaus	Karthic	
~~DOM supply 1~~ / DOM install 3	Slavlen Hundertmark	Mark	
DOM supply 2 / ~~floater~~	Dan Winton	Seon Hee	
Winch operator (cable & tower)	Dair Gibson	Owen Blythe	
Notary (logbook & photos)	Ethan Dicks	Tom Pi	
PTS (monitoring / sensors)	Andres	Ignacio	
Support (optional)		PJ	
Time shift on:	0243	06:30	
Time shift off:			

Summary/Comments: Winch moved /// held in place by dead man 12:35 PM , depth ≈ 2360 m . We stopped and continued slowly.

Hole Handover

☐ Drill data reviewed

   ☐ maximum drift in x:_____ ☐ plot

   ☐ maximum drift in y:_____ ☐ plot

   ☐ maximum depth:_____

   ☐ minimum radius:_____ ☐ plot

   ☐ plot of predicted radius vs depth and time

☐ Hole dimensions verified   Time: 03:00

Drill Lead: _SVEN LIDSTROM_ _/AL/_ _1-29- 2006_
                  name / signature / date

Deployment Lead: _GARY HILL_ _g.l.Hill_ _29-1- 2006_
                    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: 03.27

☐ Cable winch anchored and ☐ operational
☐ Tower winch operational
☐ Tie off verified
☐ Yellow rope verified

☐ Deployment monitoring system (PTS) operational ☐/DDB# 3
☐ 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 (☑ 1st shift ☐ 2nd shift)
☑ ☐ Crew safety briefing
☑ ☐ E-stop locations identified
☑ ☐ TOS evacuation procedures reviewed
☑ ☐ Mustering point identified
☑ ☐ Snow mobile driver(s): _Dav, Ethan, Gary._
☑ ☐ CPR trained: _Dav, Ethan, Andiei, Gary._
☑ ☐ Food runners: _____

call galley at 65521
☐ End of Main Cable brought into TOS and secured

Cable end attachments

03:54 started
weight stack

☐ Measure well depth: _57.6 m_
☐ Weights (5) attached
☐ Weight cable attached (weight stack complete)   Time: 04:06

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

DOM position 60

(T, Long)　　　Cable mark: ___N/A___

DOM id: ☒ TP4P0139

☐ _____

Reason for substitution:
attached 04.13

☒ Bottom shackle connected to weight stack
☐ Top clutch connected at link # _N/A_
☐ Bow OK → ☐ clutch zip tied　_N/A_　　Payout: ___N/A___
☒ Cable end taped to weight stack cable _N/A_
Photos: ☐ chain with clutch ☐ phi orientation ☒ whole view

DOM position 59

(U, Short)　　　Cable mark: _3.8m_

Capellini
DOM id: ☒ UP4P0098

☐ ~~UP4P0098~~

Reason for substitution:
attached 04.33

☒ Bottom shackle connected
☒ Top clutch connected at link # _19_　　Δ(59-60): _17.0_
☐ Bow OK → ☒ clutch zip tied　　　　　　(use laser ranger)
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

Breakout 30

Time: _04:43_

☐ Cable/LC continuity test complete (Q16)
　☐ all pass　　　　　　　　　　　　　Depth:
　☒ fail: ___wierd behavior with tester___　Payout _N/A_

- 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.#: _98249_　☐ Cable mark: _5.3m_　☒ Distance to DOM59: _1.5m_
Nipple ☐ on ☒ off

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☒ short); connectors (☒ long ☒ short)   BMW_M3

DOM position 58
(T, Long)   Cable mark: 2∅.7   DOM id: ☒ TP5Y0189

☐ _____
Reason for substitution:

☒ Bottom shackle connected
☐ Top clutch connected at link # 19   Δ(58-59): 16.9
☒ Bow OK → ☒ clutch zip tied
Photos: ☒ chain with clutch ☒ phi orientation ☒ whole view

DOM position 57
(U, Short)   Cable mark: 37.7   DOM id: ☐ UP4P0102   Grape

☒ UP4P∅228
Reason for substitution:
Connector broken on shel

☒ Bottom shackle connected
☐ Top clutch connected at link # 19   Δ(57-58): 16.9
☐ Bow OK → ☒ clutch zip tied
Photos: ☒ chain with clutch ☒ phi orientation ☐ whole view

Breakout 29
                                             Time:
☐ Cable/LC continuity test complete (Q16)   Now 04:59
   ☐ all pass   Last b/o 04:43
   ☒ fail: ____ strange behavor w/ toester   Δt [min] :16
- LongDOM   Depth:
   ☐ connector discharged (ESD)   Paro2 still in air
   ☒ connector O-ring in place and ☒ lubed   Payout N/A
   ☒ breakout O-ring in place and ☐ lubed
   ☒ connected
                                    upper
- ShortDOM   05:00 yale grip missing
   ☐ connector discharged (ESD)   for Dom 57
   ☒ connector O-ring in place and ☐ lubed
   ☒ breakout O-ring in place and ☒ lubed
   ☒ connected   yale grip attached
☐ Loose pigtails taped to cable   05:12 Dom M57 deployment
                                          resumed

☐ All clear to lower cable ☺

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

DOM position 56

(T, Long)   Cable mark: 54.7   DOM id: ☒ TP4P0107

☐ _____

Reason for substitution:

☒ Bottom shackle connected
☒ Top clutch connected at link # 19   Δ(56-57): 16.9
☒ Bow OK → ☒ clutch zip tied
Photos: ☒ chain with clutch ☒ phi orientation ☒ whole view

DOM position 55

(U, Short)   Cable mark: 71.8   DOM id: ☒ UP4P0106

☐ _____

Reason for substitution:

☒ Bottom shackle connected
☒ Top clutch connected at link # 19   Δ(55-56): 16.9
☒ Bow OK → ☒ clutch zip tied
Photos: ☒ chain with clutch ☒ phi orientation ☒ whole view

Breakout 28

Time:

☒ Cable/LC continuity test complete (Q15)   Now 05:22
   ☐ all pass   Last b/o 04:59
   ☒ fail: strange behavor with mete   Δt [min]   :23

- LongDOM   Depth:
   ☐ connector discharged (ESD)   Paro2 85.6
   ☐ connector O-ring in place and ☐ lubed   Payout N/A
   ☐ 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: _3 8.9_

DOM id: ☒ TP4P0099
☐ _____

Reason for substitution:

☒ Bottom shackle connected
☒ Top clutch connected at link # _19_   Δ(54-55): _16.9_
☒ Bow OK → ☐ clutch zip tied
Photos: ☒ chain with clutch ☐ phi orientation ☐ whole view

DOM position 53

(U, Short)   Cable mark: _1 0 5.9_

DOM id: ☒ UP4P0136
☐ _____

Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(53-54): _16.9_
☐ Bow OK → ☒ clutch zip tied
Photos: ☐ chain with clutch ☒ phi orientation ☐ whole view

Breakout 27

Time:

☐ Cable/LC continuity test complete (Q15)   Now _05:30_
  ☐ all pass   Last b/o _05·22_
  ☐ fail: _strange behavior w/ tester_   Δt [min]   _:08_
- LongDOM   Depth:
  ☐ connector discharged (ESD)   Paro2 _119.38_
  ☐ connector O-ring in place and ☐ lubed   Payout _N/A_
  ☐ 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 52

(T, Long)   Cable mark: _123 φ_   DOM id: ☒ TP4P0193

☐ _____

Reason for substitution:

☒ Bottom shackle connected
☒ Top clutch connected at link # _1 9_   Δ(52-53): _16.9_
☒ Bow OK → ☒ clutch zip tied
Photos: ☐ chain with clutch ☒ phi orientation ☒ whole view

DOM position 51

(U, Short)   Cable mark: _14φ.φ m_   DOM id: ☒ UP4P0116

☐ _____

Reason for substitution:

☒ Bottom shackle connected
☒ Top clutch connected at link # _1 9_   Δ(51-52): _16.9_
☒ Bow OK → ☒ clutch zip tied
Photos: ☒ chain with clutch ☒ phi orientation ☒ whole view

Breakout 26

Time:

☒ Cable/LC continuity test complete (Q14)   Now _05:40_
    ☐ all pass   Last b/o _05.30_
    ☒ fail: _strange tester behavior_   Δt [min] _10_
- LongDOM   Depth:
    ☐ connector discharged (ESD)   Paro2 _153.61_
    ☒ connector O-ring in place and ☒ lubed   Payout _N/A_
    ☒ 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 50
(T, Long)   Cable mark: ___157.0___   DOM id: ☒ TP5Y0193
                                                                          ☐ _____
                                                                          Reason for substitution:

☐ Bottom shackle connected
☒ Top clutch connected at link # __19__   Δ(50-51): __16.9__
☒ Bow OK → ☒ clutch zip tied
Photos: ☐ chain with clutch ☒ phi orientation ☒ whole view
☒ Curved distance around DOM: __2.37__ ☒ Vertical distance: __2.35__

DOM position 49
(U, Short)   Cable mark: ___174.1___   DOM id: ☒ UP5P0756
                                                                          ☐ _____
                                                                          Reason for substitution:

☒ Bottom shackle connected
☒ Top clutch connected at link # __19__   Δ(49-50): __16.9__
☐ Bow OK → ☒ clutch zip tied
Photos: ☐ chain with clutch ☒ phi orientation ☐ whole view
☒ Curved distance around DOM: __2.42__ ☐ Vertical distance: __2.35__

Breakout 25
                                                                          Time:

☒ Cable/LC continuity test complete (Q14)   Now __05:56__
  ☐ all pass   Last b/o __05:40__
  ☒ fail: __strange behavior with mete__ Δt [min] __:16__
- LongDOM   Depth:
  ☐ connector discharged (ESD)   Paro2 __188.14__
  ☒ connector O-ring in place and ☒ lubed   Payout __N/A__
  ☒ 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 48

(T, Long)   Cable mark: 191.0   DOM id: ☒ TP5Y0085

                                                  ☐ _____
                                                  Reason for substitution:

☒ Bottom shackle connected
☒ Top clutch connected at link # 19   Δ(48-49): 16.9
☒ Bow OK → ☒ clutch zip tied
Photos: ☒ chain with clutch ☐ phi orientation ☒ whole view

DOM position 47

(U, Short)   Cable mark: 208.3   DOM id: ☒ UP5P0758

                                                  ☐ _____
                                                  Reason for substitution:

☒ Bottom shackle connected
☒ Top clutch connected at link # 19   Δ(47-48): 16.9
☒ Bow OK → ☒ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

Breakout 24

                                                  Time:

☒ Cable/LC continuity test complete (Q13)   Now   06.05
    ☐ all pass   Last b/o 05.56
    ☒ fail: _____ meter broken _____   Δt [min]   .09
- LongDOM   Depth:
    ☐ connector discharged (ESD)   Paro2   222.56
    ☒ connector O-ring in place and ☐ lubed   Payout   N/A
    ☒ breakout O-ring in place and ☒ lubed
    ☒ connected
- ShortDOM
    ☐ connector discharged (ESD)   cracked tape around
    ☒ connector O-ring in place and ☒ lubed   breakout
    ☒ 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 46

(T, Long)   Cable mark: ~~25.5~~   DOM id: ☑ TP5P0759

☐ _____

Reason for substitution:

☑ Bottom shackle connected
☑ Top clutch connected at link # ___19___   Δ(46-47): ___16.9___
☑ Bow OK → ☐ clutch zip tied
Photos: ☑ chain with clutch ☐ phi orientation ☐ whole view

DOM position 45

(U, Short)   Cable mark: ~~2423~~   DOM id: ☑ UP5Y0168

☐ _____

Reason for substitution:

☑ Bottom shackle connected
☑ Top clutch connected at link # ___19___   Δ(45-46): ___16.9___
☑ Bow OK → ☑ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

Breakout 23   Time:

☐ Cable/LC continuity test complete (Q13)   Now 06 : 15
    ☐ all pass   Last b/o 06 : 05
    ☐ fail: ___lcrc___   Δt [min] ~~21~~ 2.10
- LongDOM   Depth:
    ☐ connector discharged (ESD)   Paro2 257.08
    ☑ connector O-ring in place and ☑ lubed   Payout N/A
    ☑ 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 ☺

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

DOM position 44

(T, Long)   Cable mark: 259.3 ~

DOM id: ☒ TP5Y0147
☐ _____
Reason for substitution:

☒ Bottom shackle connected
☐ Top clutch connected at link # 19 $\Delta(44\text{-}45)$: 16.9
☒ Bow OK → ☐ clutch zip tied
Photos: ☒ chain with clutch ☐ phi orientation ☒ whole view

DOM position 43

(U, Short)   Cable mark: 276.5 in ~~~~

DOM id: ☒ UP5P0922
☐ $UP5P0926$
Reason for substitution:
broken conn

☒ Bottom shackle connected
☐ Top clutch connected at link # 19 $\Delta(43\text{-}44)$: 16.9
☒ Bow OK → ☒ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

Breakout 22

                                     Time:

☐ Cable/LC continuity test complete (Q12)   Now $06:31$
    ☐ all pass   Last b/o $06:15$
    ☒ fail: broken faster Δt [min] $:06$
- LongDOM   Depth:
    ☐ connector discharged (ESD)   Paro2 291.01
    ☒ 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 42

(T, Long)   Cable mark: _293.5_

DOM id: ☑ TP5P0753
☐ _~~159~~_
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(42-43): _16.9_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view
DOM hit alum. housing on deployment into hole

DOM position 41

(U, Short)   Cable mark: _310.5_

DOM id: ☐ ~~UP5P0926~~
☑ _UP4 0318_
Reason for substitution:
used as DOM 43

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(41-42): _17.0_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

Breakout 21   Time:

☐ Cable/LC continuity test complete (Q12)
    ☐ all pass
    ☐ fail: _____

Now _____
Last b/o _~~ORIGINX~~_
Δt [min] _____

- 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

Depth:
Paro2 _325.7_
Payout _____

☐ All clear to lower cable ☺

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

DOM position 40
(T, Long)   Cable mark: _327.5_   DOM id: ☑ TP5Y0203
                                                           ☐ _____
                                                           Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link #___19___   Δ(40-41): _16.9_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 39
(U, Short)   Cable mark: _344.5_   DOM id: ☑ UP5P0778
                                                           ☐ _____
                                                           Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link #___17___   Δ(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)   Now _6:54_
   ☐ all pass   Last b/o _____
   ☐ fail: _____   Δt [min]_____
- LongDOM   Depth:
   ☐ connector discharged (ESD)   Paro2 _360.17_
   ☐ 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 ☺

IceCube String Deployment Log   String 49

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

DOM position 38
(T, Long)   Cable mark: _361.8_

DOM id: ☑ TP5P0501
☐ ____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(38-39): _17_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 37
(U, Short)   Cable mark: _378.8_

DOM id: ☑ UP5Y0104
☐ ____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(37-38): _17_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

Breakout 19
Time:

☐ Cable/LC continuity test complete (Q11)   Now _7:06_
  ☐ all pass   Last b/o ____
  ☐ fail: ____   Δt [min] ____
- LongDOM   Depth:
  ☐ connector discharged (ESD)   Paro2 _394.53_
  ☐ 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 ☺

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

DOM position 36
(T, Long)　　　　　Cable mark: _395.8_　　　　　DOM id: ☑ TP5P0785

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # _19_　　　　Δ(36-37): _16.9_
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch　□ phi orientation　□ whole view

DOM position 35
(U, Short)　　　　Cable mark: _412.8_　　　　　DOM id: ☑ UP5Y0176　_has small scratch @ top_

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # _19_　　　　Δ(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)　　　　Now _7:17_
　　□ all pass　　　　　　　　　　　　　　　　Last b/o _____
　　□ fail: _____　　　　　　　　　　　　　Δt [min] _____
- LongDOM
　　□ connector discharged (ESD)　　　　　　Depth:
　　□ connector O-ring in place and □ lubed　　Paro2 _428.82_
　　□ 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

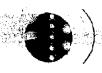□ Put two Kellers (one is for backup) in bucket of water/ice mix

□ All clear to lower cable ☺

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

DOM position 34   REPLACE   DAEWOO_   DOM id: ☐ TP5Y0219
(T, Long)   Cable mark: _429.P_ NUBIRA   ☑ TP4P0227
                                                    Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # ___19___   Δ(34-35): _16.9_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 33   DOM id: ☑ UP5P0830
(U, Short)   Cable mark: _447_   ☐ _____
                                                    Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link #_____   Δ(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 _7:27_
  ☐ all pass   Last b/o _____
  ☐ fail: _____   Δt [min] _____
- LongDOM   Depth:
  ☐ connector discharged (ESD)   Paro2 _____
  ☐ connector O-ring in place and ☐ lubed   Payout _463.11_
  ☐ 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

☐ DAEWOO-NUBIRA replaced

☐ All clear to lower cable ☺

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

DOM position 32

(T, Long)   Cable mark: ___464___   DOM id: ☑ TP5P0869
                                                   ☐ _____
                                                   Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link #___19___   Δ(32-33): ___17.0___
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 31

(U, Short)   Cable mark: ___481___   DOM id: ☑ UP5Y0158
                                                   ☐ _____
                                                   Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link #___18___   Δ(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 ___7:38___
   ☐ all pass   Last b/o _____
   ☐ fail: _____   Δt [min] _____
- LongDOM
   ☐ connector discharged (ESD)   Depth:
   ☐ connector O-ring in place and ☐ lubed   Paro2 ___497.45___
   ☐ 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
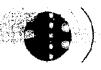☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

18

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

DOM position 30

(T, Long)   Cable mark: _4*9*8_   DOM id: ☑ TP4P0211

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link #_ *19*_   Δ(30-31): _*17·0*_
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

DOM position 29

(U, Short)   Cable mark: _*515.2*_   DOM id: ☑ UP5P0808

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link #_ *19*_   Δ(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)   Now _*7:47*_
    □ all pass   Last b/o _____
    □ fail: _____   Δt [min] _____
- LongDOM   Depth:
    □ connector discharged (ESD)   Paro2 _*531.57*_
    □ 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

Thermistor: □ Present □ Distance to DOM29: _____
Keller: □ Connected □ Operational □ Air pressure [PSI]: _____
Ser.#:_*0504004*_ □ Cable mark: _____   □ Distance to DOM29: _*1.60 M*_

□ All clear to lower cable ☺

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

DOM position 28

(T, Long)   Cable mark: _5 32.3_

DOM id: ☑ TP5Y0149

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # _19_   Δ(28-29): _17.0_
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

DOM position 27

(U, Short)   Cable mark: _549.3_

DOM id: ☑ UP5Y0192

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # _19_   Δ(27-28): _16.9_
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

Breakout 14

Time:

□ Cable/LC continuity test complete (Q8)   Now _8:01_
   □ all pass   Last b/o _____
   □ fail: _____   Δt [min] _____
- LongDOM
   □ connector discharged (ESD)   Depth:
   □ connector O-ring in place and □ lubed   Paro2 _566.25_
   □ breakout O-ring in place and □ lubed   Keller _____
   □ connected   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 26

(T, Long)   Cable mark: _566.4_   DOM id: ☑ TP5P0765

□ ____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # _19_   Δ(26-27): _17_
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

DOM position 25

(U, Short)   Cable mark: _583.4_   DOM id: ☑ UP5P0944

□ ____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # _19_   Δ(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 _8:15_
  □ all pass   Last b/o ____
  □ fail: ____   Δt [min] ____
- LongDOM   Depth:
  □ connector discharged (ESD)   Paro2 _600.41_
  □ 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 ☺

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

DOM position 24
(T, Long)   Cable mark: __600.5__

DOM id: ☑ TP5P0849
☐ _____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # __19__   Δ(24-25): __17.0__
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 23
(U, Short)   Cable mark: __617.6__

DOM id: ☑ UP5P0804
☐ _____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # __19__   Δ(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 __8:27__
  ☐ all pass   Last b/o _____
  ☐ fail: _____   Δt [min] _____
- LongDOM   Depth:
  ☐ connector discharged (ESD)   Paro2 __634.57__
  ☐ connector O-ring in place and ☐ lubed   Keller __635.3__
  ☐ 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 22

(T, Long)   Cable mark: _634.7_   DOM id: ☑ TP5P0939

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # _19_   Δ(22-23): _17.0_
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

DOM position 21

(U, Short)   Cable mark: _651 . 7_   DOM id: ☑ UP5Y0194

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # _19_   Δ(21-22): _17.0_
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

Breakout 11

Time:

□ Cable/LC continuity test complete (Q7)   Now _8:38_
  □ all pass   Last b/o _____
  □ fail: _____   Δt [min] _____
- LongDOM   Depth:
  □ connector discharged (ESD)   Paro2 _668.95_
  □ connector O-ring in place and □ lubed   Keller _669.94_
  □ 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 ☺

23

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

DOM position 20

(T, Long)   Cable mark: _668.8_

DOM id: ☑ TP5P0951

□ _____

□ Bottom shackle connected
□ Top clutch connected at link # _19_   Δ(20-21): _17_
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view
□ Curved distance around DOM:_____ □ Vertical distance:_____

DOM position 19

(U, Short)   Cable mark: _685.9_

DOM id: □ UP5P0824

□ _____

□ Bottom shackle connected
□ Top clutch connected at link # _18_   Δ(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 _8:49_
   □ all pass   Last b/o _____
   □ fail: _____   Δt [min] _____
- LongDOM   Depth:
   □ connector discharged (ESD)   Paro2 _703.33_
   □ connector O-ring in place and □ lubed   Keller _704.40_
   □ 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 18
(T, Long)   Cable mark: _702.8_   DOM id: ☑ TP5P0775
☐ _____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(18-19): _17_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 17
(U, Short)   Cable mark: _719.9_   DOM id: ☑ UP5P0836
☐ _____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(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)   Now _____
  ☐ all pass   Last b/o _____
  ☐ fail: _____   Δt [min] _____
- LongDOM   Depth:
  ☐ connector discharged (ESD)   Paro2 _737.75_
  ☐ connector O-ring in place and ☐ lubed   Keller _738.01_
  ☐ 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

☐ All clear to lower cable ☺

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

DOM position 16
(T, Long)   Cable mark: 7 76. 9

DOM id: ☑ TP5P1013
☐ _____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # __19__   Δ(16-17): 17
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 15
(U, Short)   Cable mark: 754

DOM id: ☑ UP5Y0148
☐ _____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # __19__   Δ(15-16): 16.9
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

Breakout 8
Time:

☐ Cable/LC continuity test complete (Q5)   Now __9:14__
   ☐ all pass   Last b/o _____
   ☐ fail: _____   Δt [min] _____
- LongDOM   Depth:
   ☐ connector discharged (ESD)   Paro2 77 /. 35
   ☐ connector O-ring in place and ☐ lubed   Keller 773.44
   ☐ 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 14
(T, Long)   Cable mark: __771__

DOM id: ☑ TP5P0771

□ _____
Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # __19__   Δ(14-15): __17__
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

DOM position 13
(U, Short)   Cable mark: _____

DOM id: ☑ UP5P0924

□ _____
Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # __19__   Δ(13-14): __16.9__
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

Breakout 7
                                                   Time:

□ Cable/LC continuity test complete (Q5)   Now __9:25__
   □ all pass   Last b/o _____
   □ fail: _____   Δt [min] _____
- LongDOM   Depth:
   □ connector discharged (ESD)   Paro2 __805.89__
   □ connector O-ring in place and □ lubed   Keller __807.05__
   □ 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 12

(T, Long)   Cable mark: _805_   DOM id: ☑ TP5P1009

                                              ☐ _____

                                              Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(12-13): _17_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 11

(U, Short)   Cable mark: _822.1_   DOM id: ☑ UP5P0964

                                              ☐ _____

                                              Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(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)   Now _9:35_
    ☐ all pass   Last b/o _____
    ☐ fail: _____   Δt [min] _____
- LongDOM   Depth:
    ☐ connector discharged (ESD)   Paro2 _840.71_
    ☐ connector O-ring in place and ☐ lubed   Keller _841.55_
    ☐ 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 ☺

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

DOM position 10

(T, Long)   Cable mark: _839.2_   DOM id: ☑ TP5P0959

                                                 ☐ _____

                                                 Reason for substitution:

☐ Bottom shackle connected

☐ Top clutch connected at link # _19_   Δ(10-11): _17_

☐ Bow OK → ☐ clutch zip tied

Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 9

(U, Short)   Cable mark: _856.3_   DOM id: ☑ UP5P0828

                                                 ☐ _____

                                                 Reason for substitution:

☐ Bottom shackle connected

☐ Top clutch connected at link # _19_   Δ(9-10): _17_

☐ Bow OK → ☐ clutch zip tied

Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

Breakout 5

                                                 Time:

☐ Cable/LC continuity test complete (Q4)   Now _9:48_

    ☐ all pass   Last b/o _____

    ☐ fail: _____   Δt [min] _____

- LongDOM   Depth:

    ☐ connector discharged (ESD)   Paro2 _874.77_

    ☐ connector O-ring in place and ☐ lubed   Keller _875.06_

    ☐ 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 8
(T, Long)   Cable mark: _*873.4*_   DOM id: ☑ TP5P0817

☐ _____

Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _*19*_   Δ(8-9): _*17*_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 7
(U, Short)   Cable mark: _*~~880~~890.5*_   DOM id: ☑ UP5Y0208

☐ _____

Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _*19*_   Δ(7-8): _*16.9*_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

Breakout 4
                                                    Time:

☐ Cable/LC continuity test complete (Q3)   Now _*10:02*_
   ☐ all pass   Last b/o _____
   ☐ fail: _____   Δt [min] _____
- LongDOM   Depth:
   ☐ connector discharged (ESD)   Paro2 _*908.65*_
   ☐ connector O-ring in place and ☐ lubed   Keller _*910.57*_
   ☐ 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 6

(T, Long)   Cable mark: __907.6__

DOM id: ☑ TP4P0233

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # __19__   Δ(6-7): __16.9__
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

DOM position 5

(U, Short)   Cable mark: __924.7__

DOM id: ☑ UP5P0974

□ _____

Reason for substitution:

□ Bottom shackle connected
□ Top clutch connected at link # __19__   Δ(5-6): __17.0__
□ Bow OK → □ clutch zip tied
Photos: □ chain with clutch □ phi orientation □ whole view

Breakout 3   Time:

□ Cable/LC continuity test complete (Q3)   Now __10:14__
   □ all pass   Last b/o _____
   □ fail: _____   Δt [min] _____
- LongDOM   Depth:
   □ connector discharged (ESD)   Paro2 ~~~ __942.97__
   □ connector O-ring in place and □ lubed   Keller __945.06__
   □ 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 4

(T, Long)   Cable mark: _941.5_   DOM id: ☑ TP5P0813

☐ _____

Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # __19__   Δ(4-5): _17.0_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 3

(U, Short)   Cable mark: _958.6_   DOM id: ☑ UP5P0976

☐ _____

Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # __19__   Δ(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 _10:25_
    ☐ all pass   Last b/o _____
    ☐ fail: _____   Δt [min] _____

- LongDOM   Depth:
    ☐ connector discharged (ESD)   Paro2 _977.46_
    ☐ connector O-ring in place and ☐ lubed   Keller _980.46_
    ☐ 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) *Marzahn*

DOM position 2
(T, Long) —— Cable mark: _975.7_

DOM id: ☑ TP5Y0161
☐ _____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(2-3): _17.0_
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ chain with clutch ☐ phi orientation ☐ whole view

DOM position 1
(U, Short)   Cable mark: _992.7_

Ceres
DOM id: ☑ UP4Y0030
☐ _____
Reason for substitution:

☐ Bottom shackle connected
☐ Top clutch connected at link # _19_   Δ(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 _10:36_
    ☐ all pass   Last b/o _____
    ☐ fail: _____   Δt [min] _____

- LongDOM   Depth:
    ☐ connector discharged (ESD)   Paro2 _1012.54_
    ☐ connector O-ring in place and ☐ lubed   Keller _1014.94_
    ☐ 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

No second Paro...

☐ Group photo
☐ All clear to lower cable ☺

Uphole Pressure Sensor (Setra)

After DOM1 is safely under the surface (> 50 m)

Time: _11 : 0 9 AM_

☑ Stop the cable winch

☑ Lower Setra pressure sensor into hole

☑ Distance to Setra from floor: _60 m_

☑ Setra readout verified with monitoring system

☑ Well depth from Setra: _42.73_

☑ Well depth from laser: _49.86_

If the two well depth measurements agree:

☒ Switch to Setra well depth in monitoring system

Time: _____

Payout not enabled by mistake

I. Taboada

Now the String Drop begins

String Drop

The target depth is **2450** m

☒ Switch cable winch to computer control

☒ Speed: |9m/min   Time: 11:20 AM   Depth: 1350 m
☐ Speed: _____   Time: _____   Depth: _____
☐ Speed: _____   Time: _____   Depth: _____
☐ Speed: _____   Time: _____   Depth: _____
☐ Speed: _____   Time: _____   Depth: _____
☐ Speed: _____   Time: _____   Depth: _____
☐ Speed: _____   Time: _____   Depth: _____

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

Depth Paro2[1]	Time	Well depth[1]	Depth c/marks[2]	Depth payout[1]	Δdepth P2-P1[1]	Δdepth P2-K[1]	Δdepth K-P1[1]
1000 m	~~////~~	~~////~~	~~////~~		n/a	~~////~~	n/a
1500 m	11:36	49.23	1488		n/a	− 6	n/a
2000 m	12:06	48.50	1985		n/a	−10	n/a
2100 m					n/a		n/a
2200 m	12:16	48.30	2182		n/a	− 13	n/a
2300 m			~~//~~		n/a		n/a
2400 m	12:39	48:60	2383		n/a	− 16	n/a

[1]Read off monitoring screen
[2]Cable mark offset (at DOM60) is (p. 4): −13.2 m   (~~////~~ 3.8 m)
                                                        DOM59 →

☐ Switch to manual control @ 2400 m

☐ Well depth
  @ 2420: _____
  @ 2440: 47.95
         ⌐_____→ 2443 12:46 PM
☒ Position string at target depth of **2450** m   Time: _____

☐ String secured with Yale grip and anchor chain   Time: 1:15 pm

Final Well depth (47.8 m)

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

☑ Distance from Paro2 to DOM60:

$d_{Paro2-DOM59}$ = ___1.5___ (from p. 4)

$d_{Paro2-DOM60}$ = ($d_{Paro2-DOM59}$ + 17) m = __18.5__ ← insert below

☐ Convert Paro2 pressure to string depth:

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

(use 6 decimals for exp's)

Ambient pressure (from p. 4): P_0 = __10.55__ PSI → $\exp(-KP_0)$ = _____

Pressure reading (from screen): P = __3424.0__ PSI → $\exp(-KP)$ = _____

Subtract exponentials →	=	_____
	×	$1.85947 \cdot 10^5$
Paro2 depth in water →	=	_____ m
Add distance to DOM60 (above) →	+	_____ m
Add well depth →	+	_____ m
Depth of bottom DOM →	=	_____ m

Final depth estimates

◄---------- read off deployment screen ----------►

Time:	Paro2	Keller	Paro1	Payout	Cable marks
Reading	3424.0 PSI	2715.2 PSI	n/a	✗ m	m
Offset	10.55 PSI	11.83 PSI	n/a	✗ m	m
Well depth	47.8 m				
Dist. to DOM60	18.5 m	528.6 m	n/a	This space is intentionally left blank	
DEPTH (DOM60)			n/a		

Time: __1:16 PM__

Final depth (DOM60): __2450.99__

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: 1:19 PM   Date: Jan/29/2006

Shift Lead: Gary Hill _____
name / signature

Logger: Thomas Vuxwoik _____
name / signature

PTS Lead: Ignacio Taboada _____
name / signature

Deployment Manager: _____
name / signature

Safety Officer: _____
name / signature

IceCube On-ice Lead: _____
name / signature