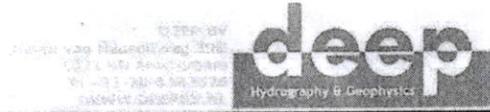




# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: IJmuiden  
 DATE: 1/12/2015

SURVEYOR: NPR & WWE  
 VESSEL: Octans  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	10 bf	Start of Mob.		
Sea state	2.2 Sw			
Visibility	>10 km			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	9 bf			
Sea state	1.8 Sw			
Visibility	>10 km			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward				
Completed today				
Total				

Hours	Mob/ Demob	Calibrations	Transit	Survey	Other	WoW	Downtime		
		Test					Equip.	Vessel	Other
Brought forward	0								
Today	12								
Total	12								

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

<b>HSE observations</b>
<b>Comments client</b>
<b>Comments Deep BV</b>

Checked (Deep BV): \_\_\_\_\_ (Date) \_\_\_\_\_ (Date) \_\_\_\_\_ (Date)

Witnessed (client): *André Steur* Approved (client): *[Signature]*







# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 JOBSE van Nieuwpoortweg 390  
 1031 KN Amsterdam  
 T: +31-20-6343676  
 WWW.DEEP.BV



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: IJmuiden  
 DATE: 1/14/2015

SURVEYOR: NPR & WWE  
 VESSEL: Octans  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	6 bf SW	Continuation Mob.	Mob completed	
Sea state	1.5 Sw			
Visibility	>10 km			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	6 bf SW	waiting on weather		
Sea state	1.6 Sw			
Visibility	>10 km			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward				
Completed today				
Total				

Hours	Mob/	Calibrations			Downtime				
	Demob	Test	Transit	Survey	Other	WoW	Equip.	Vessel	Other
Brought forward	36								
Today	22	2							
Total	58								

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

HSE observations
Mobilization was completed 16 January 2015, not 14 January 2015
Comments client
Comments Deep BV

Checked (Deep BV): *[Signature]* 14/01/2015 {Date} Witnessed (client): *[Signature]* Approved (client): *[Signature]* {Date} {SIGNATURE}







# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

Page 07  
 01-10-2015 10:00:00  
 01-10-2015 10:00:00  
 01-10-2015 10:00:00



PROJECT No: PZ849 SURVEYOR: NPR & WVE  
 CLIENT: RVO VESSEL: Octans  
 LOCATION: Ijmuiden PAGE: 2 of 2  
 DATE: 1/16/2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	6 bf SW	paper work approved	Mob completed	
Sea state	2.4 Height sign.			
Visibility	>10 km			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	5 bf SW	waiting on weather		
Sea state	1-2 Sw	transit to survey area		
Visibility	>10 km			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward				
Completed today				
Total				

Hours	Mob/ Demob	Calibrations				Downtime			
		Test	Transit	Survey	Other	WoW	Equip.	Vessel	Other
Brought forward	82	2	0			0			
Today	8	0	7			9			
Total	90	2	7			9			

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

HSE observations

Comments client  
 WoW in DPR is regarded as weather standby; WoW will be determined in weekly reports

Comments Deep BV

16/01/2015 (Date)  
 Checked (Deep BV): [Signature] Witnessed (client): [Signature] Approved (client): [Signature] 21/01/15



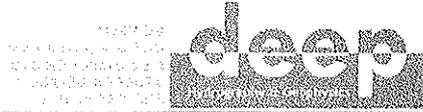






# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



**PROJECT No:** P2849      **SURVEYOR:** NPR & WVE  
**CLIENT:** RVG      **VESSEL:** Octans  
**LOCATION:** {Inuiden}      **PAGE:** 1 of 2  
**DATE:** 19-Jan-15

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	<i>no risks found</i>
Results height check (waterline or benchmark):	<i>executed 13-01-2015</i>
Averaged sound velocity:	<i>1486.20</i>
Results absolute depth check on known object:	<i>n.a.</i>
Results overlap old survey data:	<i>n.a.</i>

Time	Event	Survey area
0:00	<i>continuation of survey</i>	
14:15	<i>SVP reading for Seismic processing</i>	
23:59	<i>EOD</i>	
Statistics on page 2		

19/01/2015

{Date}

Checked (Deep BV):

*[Signature]*

Witnessed (client):

*[Signature]*

Approved (client):

{Date} 19/01/15  
*[Signature]*

YSPGW: 01018

LOGSHEET: 1524-19 Logsheet - Daily progress report offshore.docx





# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

© Deep BV  
 11111111111111111111  
 11111111111111111111  
 11111111111111111111  
 11111111111111111111



PROJECT No: P2849 SURVEYOR: NPR & WVE  
 CLIENT: RVO VESSEL: Octans  
 LOCATION: Ijmuiden PAGE: 2 of 2  
 DATE: 1/20/2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	3 bf SW	start survey	start survey	
Sea state	0.5 Height sign.			
Visibility	>10 km			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	6 bf SW	waiting on weather, restarting at 6:00AM		
Sea state	1 Sw	bunkering for water		
Visibility	>10 km			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	200	36	15	0.00
Completed today	120	21	0	100.00
Total	320	57	15	100.00

Hours	Mob/ Demob	Calibrations				WoW	Downtime		
		Test	Transit	Survey	Other		Equip.	Vessel	Other
Brought forward	90	2	10	44.5		32	1.5		
Today	0	0	0	22		2	0		
Total	90	2	10	66.5		34	1.5		

Consumption	Fuel	Lubes	Water
Brought forward			2000
Used today			
Total remaining			1000

**HSE observations**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Comments client**

Wow in DPR = weather standby; WoW to be determined in WPR

\_\_\_\_\_

\_\_\_\_\_

**Comments Deep BV**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

20/01/2015 (Date)  
 Checked (Deep BV): *[Signature]* Witnessed (client): *[Signature]* Approved (client): *[Signature]* 23/01/15





# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



**PROJECT No:** P2849      **SURVEYOR:** NPR & WVE  
**CLIENT:** RVO      **VESSEL:** Octans  
**LOCATION:** Ijmuiden      **PAGE:** 1 of 2  
**DATE:** 22-Jan-15

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	<i>not risks observed</i>
Results height check (waterline or benchmark):	<i>executed 13-01-2015</i>
Averaged sound velocity:	<i>1486.20</i>
Results absolute depth check on known object:	<i>n.a.</i>
Results overlap old survey data:	<i>n.a.</i>

Time	Event	Survey area
0:00	<i>continuation of survey</i>	
	<i>contact with the office about infill lines</i>	
	<i>risk analysis map based on de ButeStack will be made</i>	
	<i>and used to determine number of infill lines and infill priority area.</i>	
14:00	<i>risk analysis plan send to officie</i>	
	<i>contact with office and client about line plan</i>	
	<i>and duration of infill lines</i>	
16:00	<i>line plan send to office (due to internet problems sending postponed till 18:00)</i>	
23:59	<i>EOD</i>	
Statistics on page 2		

22/01/2015

{Date}

{Date}

Checked (Deep BV):

*[Signature]*

Witnessed (client):

*[Signature]*

Approved (client):

*[Signature]* 23/01/15

WINDREM 121215

01\_01\_15-15-01-07 Logsheet - Daily progress report offshore.docx



# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



**PROJECT No:** P2849      **SURVEYOR:** NPR & WWV  
**CLIENT:** RVO      **VESSEL:** Octans  
**LOCATION:** *Uitsiden Vlissingen*      **PAGE:** 1 of 2  
**DATE:** 23-Jan-15

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	<i>not risks observed</i>
Results height check (waterline or benchmark):	<i>executed 13-01-2015</i>
Averaged sound velocity:	<i>1486.20</i>
Results absolute depth check on known object:	<i>n.a.</i>
Results overlap old survey data:	<i>n.a.</i>

Time	Event	Survey area
0:00	<i>continuation of survey</i>	
15:00	<i>400m X 2000m grid completed (last 12h not QC-ed)</i>	
15:00	<i>start surveying infill lines (southern priority area)</i>	
18:00	<i>Southerly priority area completed</i>	
	<i>transit to Northern priority area</i>	
18:30	<i>continuation of survey</i>	
	<i>weather deteriorates</i>	
23:00	<i>retrieving sparker</i>	
23:30	<i>sparker retrieved</i>	
23:30	<i>transit to anchor area</i>	
Statistics on page 2		

23/01/2015

{Date}

Checked (Deep BV):

*[Signature]*

Witnessed (client):

*[Signature]*

Approved (client):

*[Signature]* 27/01

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



**PROJECT No:** P2849      **SURVEYOR:** NPR & WWE  
**CLIENT:** RVO      **VESSEL:** Octans  
**LOCATION:** Ijmuiden      **PAGE:** 2 of 2  
**DATE:** 1/23/2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	3 bf SW	loading water		
Sea state	0.9 Height sign.	surveying in progress		
Visibility	>10 km			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	6 bf SW	waiting on weather window		
Sea state	0.8 Sw	for infill areas		
Visibility	>10 km			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	440	78	15	0.00
Completed today	90	17	0	
<b>Total</b>	<b>530</b>	<b>95</b>	<b>15</b>	<b>0.00</b>

Hours	Mob/	Calibrations		Transit	Survey	Other	WoW	Downtime		
	Demob	Test						Equip.	Vessel	Other
Brought forward	90	2		10	97.5	0	51	1.5		
Today	0	0		0	23		1	0		
<b>Total</b>	<b>90</b>	<b>2</b>		<b>10</b>	<b>120.5</b>	<b>0</b>	<b>52</b>	<b>1.5</b>		

Consumption	Fuel	Lubes	Water
Brought forward			7000
Used today			1000
<b>Total remaining</b>			<b>6000</b>

HSE observations
Comments client
WoW = weather stand by; actual WoW to be determined in WPR
Comments Deep BV

Checked (Deep BV): *[Signature]*      (Date) 23/01/2015      Witnessed (client): *[Signature]*      Approved (client): *[Signature]*





# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 SURVEYOR: NPR & W/WE  
 CLIENT: RVO VESSEL: Octans  
 LOCATION: Vlissingen PAGE: 1 of 2  
 DATE: 25-Jan-15

### Daily checks

Findings of workplace risk assessment (HSE § 4.1):	<i>not risks observed</i>
Results height check (waterline or benchmark):	<i>executed 13-01-2015</i>
Averaged sound velocity:	<i>1486.20</i>
Results absolute depth check on known object:	<i>n.a.</i>
Results overlap old survey data:	<i>n.a.</i>

Time	Event	Survey area
0:00	<i>waiting on weather</i>	
10:30	<i>loading water</i>	
11:15	<i>transit to Survey area</i>	
11:30	<i>problem with cool-water anchoring of vessel problem solving</i>	
14:00	<i>problem solved transit to survey area</i>	
16:30	<i>arrival at survey area</i>	
16:30	<i>toolbox talk</i>	
16:40	<i>deployment of sparker</i>	
17:00	<i>sparker in the water</i>	
17:20	<i>sailing test line</i>	
18:00	<i>start survey rerun of exces feathering</i>	
23:59	<i>EOD</i>	

Statistics on page 2

25/01/2015

{Date}

Checked (Deep BV):

*[Signature]*

Witnessed (client):

*[Signature]*

Approved (client):

*[Signature]* 24/01/15

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Vlissingen  
 DATE: 1/25/2015

SURVEYOR: NPR & WVE  
 VESSEL: Octans  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	3 bf SW	sailing re-runs	original scope near finished	
Sea state	0.9 Height sign.			
Visibility	>10 km			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	6 bf SW	waiting on weather window		
Sea state	0.8 Sw			
Visibility	>10 km			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	560	95	45	5.00
Completed today	0	0	0	
Total	560	95	45	5.00

Hours	Mob/	Calibrations		Transit	Survey	Other	WoW	Downtime		
	Demob	Test						Equip.	Vessel	Other
Brought forward	90	2		10	120.5	0	76	1.5	0	
Today	0	0		0	6		16.5	0	2.5	
Total	90	2		10	126.5	0	92.5	1.5	2.5	

Consumption	Fuel	Lubes	Water
Brought forward			6000
Used today			
Total remaining			

HSE observations

Comments client

Wow in DPR = weather stand by; actual WoW to be determined in WPR

Comments Deep BV

25/01/2015

(Date)

Checked (Deep BV):

*[Signature]*

Witnessed (client):

*[Signature]*

Approved (client):

*[Signature]* 27/01/15





# FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 SURVEYOR: NPR & WWE  
 CLIENT: RVO VESSEL: Octans  
 LOCATION: Vlissingen PAGE: 1 of 2  
 DATE: 27-Jan-15

**Daily checks**

Findings of workplace risk assessment (HSE § 4.1):	<i>not risks observed</i>
Results height check (waterline or benchmark):	<i>executed 13-01-2015</i>
Averaged sound velocity:	<i>1486.20</i>
Results absolute depth check on known object:	<i>n.a.</i>
Results overlap old survey data:	<i>n.a.</i>

Time	Event	Survey area
0:00	<i>start of day</i>	
8:00	<i>leaving port of Vlissingen</i> <i>transit to survey area</i>	
11:15	<i>toolbox talk</i>	
11:30	<i>deployment of sparker</i>	
12:00	<i>sparker deployed</i> <i>transit to survey line</i>	
12:30	<i>start survey</i>	
23:59	<i>EOD</i>	
Statistics on page 2		

27/01/2015

(Date)

(Date)

Checked (Deep BV):

*[Signature]*

Witnessed (client):

*[Signature]*

Approved (client):

*[Signature]* 30/1/15

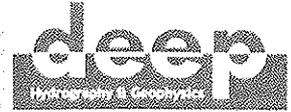






# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

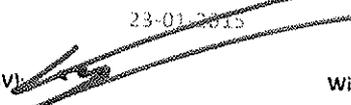


**PROJECT No:** P2849 **PARTY CHIEF:** Koen van het Hekke  
**CLIENT:** Rijksdienst voor Ondernemend **VESSEL:** BREAKER  
**LOCATION:** Den Helder **PAGE:** 1 of 2  
**DATE:** 23-1-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	Toolbox talk prior to equipment deployment
Results height check (waterline or benchmark):	na
Averaged sound velocity:	na
Results absolute depth check on known object:	na
Results overlap old survey data:	na

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - DBR Danielle Brandwijk - SBR Siete Bruinsma	
0:00	SOD. Mobilisation survey equipment. WVI and BMO on shift. - Solved 'unstable' vessel (and sensor) positioning problem in QINSy caused by incorrect timing settings in surface Octans. - Adjusted QINSy driver for Valeport MiniSVS to output measured sound speed values to R2Sonic SIM box. - Checked all offsets and currently known C-O settings in both QINSy database files. - Testing magnetometer depth sensors and altimeters. bNot possible to check calibration values of the spare magnetometer due to low tide in Den Helder. Settings for the first magnetometer have been verified on the 22nd. - Seafastening equipment - Connecting sidescan sonar towfish to winch and preparing for wet test.	
7:50	KHE start shift	
8:00	Test trigger mode vs intergate ( USBL SYSTEM).	
11:55	Main engine problem. Temperature issue.	
12:30	Vessel downtime till 13:15.	
13:15	Departure to calibration area.	
14:25	Toolbox talk USBL frame deployment and SSS/Maggy deployment.	
15:13	Arrived @ calib location. SVP dip.	
16:04	Deployed USBL calibration frame.	
16:15	Start USBL calibration.	
17:30	Completed the usbl calibration. Deployed SSS and Maggy. Start latency check SSS.	
20:15	Completed the latency check.	
20:52	Retrieving USBL frame. USBL frame "buoy rope" stuck under the vessel. Retrieving rope and frame difficult.	
22:58	Retrieving USBL frame not possible, weather is getting bad. Back to Den Helder to retrieve the USBL frame.	
23:59	EOD	

Statistics on page 2

Checked (Deep BV):  {Date} 23-01-2015 Witnessed (client):  Approved (client):  {Date} 23-01-2015

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP  
 DEEP GROUP  
 DEEP GROUP  
 DEEP GROUP  
 DEEP GROUP



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: Rijksdienst voor Ondernemend VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 2 of 2  
 DATE: 23-1-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	SSW 2 <-> 11 m/s	25% calibration	100% mobilisation	
Sea state	0.3 <-> 1.4 m		75% calibration	
Visibility	good			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	NW 10 <-> 13 m/s	Calibrations.		
Sea state	1.4 <-> 2.4 m			
Visibility	good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0	0	0.00
Completed today	0	0	0	0.00
Total	0	0	0	0.00

Hours	Mob/	Calibrations			Other	WoW	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	12.1	0	0	0	0	0	0	0
Today	0	20.25	3	0	0	0	0	0.75	0
Total	35.9	32.35	3	0	0	0	0	0.75	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

HSE observations
Comments client
The USBL calibration was completed yesterday as was the SSS latency test and SSS/Maggie wet tests. During attempts to recover the USBL beacon frame the rope was fouled on the hull. The beacon frame was not brought to deck and remained attached. The vessel returned to Den Helder in deteriorating weather conditions. Earlier in the day the vessel suffered minor engine overheating problems immediately prior to departure.
Comments Deep BV
Finished USBL calibration and latency check.

Checked (Deep BV): (Date) Witnessed (client): (Date) Approved (client): (Date) 24/01/15

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Deventer, The Netherlands  
 Tel: +31 (0) 520 610000  
 Fax: +31 (0) 520 610001  
 E-mail: info@deep.nl  
 www.deep.nl

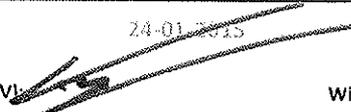
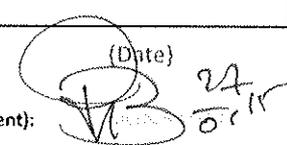


PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: Rijksdienst voor Ondernemend VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 1 of 2  
 DATE: 24-1-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	All okay.
Results height check (waterline or benchmark):	Breaker: 0.17 NAP - RWS 0.14 NAP
Averaged sound velocity:	na
Results absolute depth check on known object:	na
Results overlap old survey data:	na

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - DBR Danielle Brandwijk - SBR Sietse Bruinsma	
0:00	SOD. Transit to Den Helder	
2:45	Arrived at Den Helder	
3:11	Lowered moonpoles for testing.	
3:20	Testing MBESs, Innomar. Both ok. USBL no reception, no beacon found. (waiting for diver to confirm). Reprogrammed SVP probe and improved survey computer/sensor network.	
9:00	KHE and DBR on shift.	
12:00	WVI and BMO finished shift.	
12:00	SBR and MKO start shift.	
13:05	Diver in the water. Checking ships hull for obstructions.	
14:00	No obstruction found by the diver. Preparing MNES and Innomar check and calibration.	
15:30	Planned departure to MBES calibration area: 17:30	
17:45	Departure to Texelstroom. MBES and Innomar calibration.	
19:13	Start MBES calibration.	
22:15	Latency test MB and SBP	
23:10	Finished calibrations Back to Den-Helder	
23:59	EOD	

Statistics on page 2

Checked (Deep BV):  24-01-2015 (Date)  
 Witnessed (client):  (Date)  
 Approved (client):  24-01-15 (Date)

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: Rijksdienst voor Ondernemend VESEL: BREAKER  
 LOCATION: Den Helder PAGE: 2 of 2  
 DATE: 24-1-2015

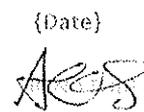
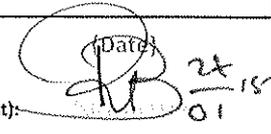
Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NW 9<-> 12 m/s	20% calibration	100% mobilisation 95% calibration	
Sea state	1.8 <-> 2.3 m			
Visibility	good			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	WNW 6<->9 m/s	Absolute depth check and transit to project location.		
Sea state	1.8 <-> 1.2 m			
Visibility	good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0	0	0.00
Completed today	0	0	0	0.00
Total	0	0	0	0.00

Hours	Mob/	Calibrations			Other	WoW	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	32.35	3	0	0	0	0	0.75	0
Today	0	8	4.45	0	0	0	0	11.55	0
Total	35.9	40.35	7.45	0	0	0	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

HSE observations
Incident report regarding the lost of USBL frame send to: DEEP HSE manager - Operation manager - Project manager.
Comments client
MBES Patch Test completed over sandwave field in Waddenzee.
Comments Deep BV
Signed calibrations and tests: Geometry - USBL calibration - Pos check - MBU calibration - Gyro calibration Finished MBES calibration. Finished latency calibration MBES and SBP. No obstruction found by diver.

Checked (Deep BV):  (Date) \_\_\_\_\_  
 Witnessed (client):  (Date) \_\_\_\_\_  
 Approved (client):  (Date) 24/01/15

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

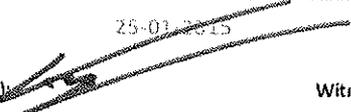


**PROJECT No:** P2849      **PARTY CHIEF:** Koen van het Hekke  
**CLIENT:** Rijksdienst voor Ondernemend      **VESSEL:** BREAKER  
**LOCATION:** Den Helder      **PAGE:** 1 of 2  
**DATE:** 25-1-2015

Daily checks		
Findings of workplace risk assessment (HSE § 4.1):	All okay.	
Results height check (waterline or benchmark):	-0.65 [m] NAP (RWS)	-0.633 [m] NAP (Breaker)
Averaged sound velocity:	na	
Results absolute depth check on known object:	na	
Results overlap old survey data:	na	

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - DBR Danielle Brandwijk - SBR Sietse Bruinsma	
0:00	SOD. Transit to Den Helder	
0:04	Arrived at Den Helder	
7:21	Transit to Ijmuiden	
10:24	Found the lost USBL beacon	
13:24	Arrived at Ijmuiden port. Waiting for lock to open.	
14:40	Start absolute depth check on lock Ijmuiden. Noordersluis.	
15:02	Finished absolute depth check on Noordersluis.	
15:10	Departure to Project Area. (ETA 00:00)	
	During transit: finishing calibration sheets and prepare survey.	
23:59	SBR and MKO finished shift.	
23:59	EOD	

Statistics on page 2

Checked (Deep BV):  25-01-2015 (Date)  
 Witnessed (client):  (Date)  
 Approved (client):  (Date)

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Helke  
 CLIENT: Rijksdienst voor Ondernemend VESEL: BREAKER  
 LOCATION: Den Helder PAGE: 2 of 2  
 DATE: 25-1-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	WNW 9<->11 m/s	5% calibration	100% mobilisation	
Sea state	2.0 <-> 1.5 m		100% calibration	
Visibility	good			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	NW 9<-> 11 m/s	Transit and Survey WFS 1 and 2		
Sea state	1.0 <-> 1.7 m			
Visibility	mod/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0	0	0.00
Completed today	0	0	0	0.00
Total	0	0	0	0.00

Hours	Mob/	Calibrations					Downtime		
	Demob	Test	Transit	Survey	Other	WoW	Equip.	Vessel	Other
Brought forward	35.9	40.35	7.45	0	0	0	0	12.3	0
Today	0	0.3	15	0	0	0	0	0	0
Total	35.9	40.65	22.45	0	0	0	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

HSE observations
Comments client
The vessel left Den Helder and transited south in poor weather towards site, via Ijmuiden.
Comments Deep BV
Finished calibrations.

Checked (Deep BV): {Date} Witnessed (client): {Date} Approved (client): {Date}

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

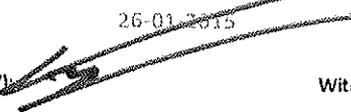
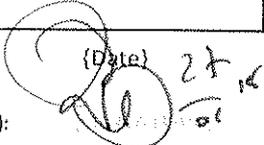


PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: ~~Den Helder~~ Vlissingen PAGE: 1 of 2  
 DATE: 26-1-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	All okay. PPE during deployment equipment.
Results height check (waterline or benchmark):	
Averaged sound velocity:	na
Results absolute depth check on known object:	na
Results overlap old survey data:	na

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - DBR Danielle Brandwijk - SBR Sietse Bruinsma	
0:00	Start of day / Continue slow transit to project location. Weather poor.	
3:15	Arrival in project area, at site. Start WOW (weather standby) Sea state currently found not suitable to deploy sidescan sonar and Minibat from back deck. Decided to wait for weather improvements.	
3:49	Wind strength decreased and sea state better. Start survey ops at site. Preparing sidescan sonar, magnetometer and MiniBat probe for deployment.	
4:20	Measured sound velocity profile using Minibat probe.	
8:00	Weather improved.	
8:10	Fish in the water. Start survey	
13:25	Start retrieving survey spread back on board due to deteriorating weather.	
13:45	Survey spread back on board.	
13:45	Weather conditions no longer suitable for survey. Wave height sig. 1.5m. Expected max wave height 2.8 m. Transfer to Vlissingen Port.	
13:45	Start WOW (weather standby)	
13:45	Start transit to Vlissingen port.	
17:45	Arrival in Vlissingen.	
23:59	EOD	

Statistics on page 2

Checked (Deep BV):  26-01-2015 (Date)  
 Witnessed (client):  (Date)  
 Approved (client):  (Date) 27-01-2015



# FIELD OPERATIONS

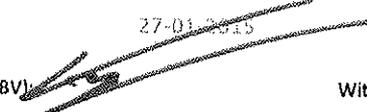
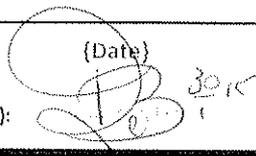
## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



**PROJECT No:** P2849      **PARTY CHIEF:** Koen van het Hekke  
**CLIENT:** RVO      **VESSEL:** BREAKER  
**LOCATION:** Den Helder      **PAGE:** 1 of 2  
**DATE:** 27-1-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	All okay. PPE during deployment equipment.
Results height check (waterline or benchmark):	na
Averaged sound velocity:	na
Results absolute depth check on known object:	na
Results overlap old survey data:	na

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - DBR Danielle Brandwijk - SBR Sietse Bruinsma - MKO Martin Koelman	
0:00	Start of day / weather standby at Vlissingen - data validation - daily equipment checks and data qc	
8:15	Departure to project area.	
12:25	Arrived at survey area. Waiting for weather conditions to improve.	
13:00	Sound velocity measured ( Minibat).	
13:13	Deploying survey equipment. Stop weather standby.	
14:26	Start survey.	
19:24	Sound velocity measurement during survey operation.	
23:59	EOD	

Checked (Deep BV):  27-01-2015 (Date)  
 Witnessed (client):  (Date)  
 Approved (client):  (Date)

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Den Helder  
 DATE: 27-1-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NW 7<-> 11 m/s	8.0 % WFS 1	100% mob and calib	
Sea state	2.2 <-> 1.2 m	0 % WFS 2	10 % WFS 1	
Visibility	good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	SW 8 <-> 17 m/s	Survey WFS 1 and 2		
Sea state	1.2 <-> 2.9 m			
Visibility	mod/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0	0	0.00
Completed today	0	0	0	0.00
Total	0	0	0	0.00

Hours	Mob/	Calibrations			Other	WS	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	40.65	29.7	5.5	0	10.75	0	12.3	0
Today	0	0	4.1	9.5	0	13.25	0	0	0
Total	35.9	40.65	33.8	15	0	24	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

**HSE observations**  
 Toolbox talks have been performed and full/appropriate work PPE worn.

**Comments client**  
 Given the marginal sea state conditions and in particular the NW swell and roll, the data quality was acceptable.

**Comments Deep BV**  
 Survey in WFS1.

Checked (Deep BV): (Date)

Witnessed (client): (Date)

Approved (client): (Date)



# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Den Helder  
 DATE: 28-1-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NW 6<-> 11 m/s	0.5 % WFS 1	100% mob and calib	
Sea state	2.2 <-> 1.1 m	0 % WFS 2	10.5 % WFS 1	
Visibility	good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	WSW 8 <-> 17 m/s	Weather standby.		
Sea state	3.0 <-> 1.6 m			
Visibility	mod/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0	0	0.00
Completed today	0	0	0	0.00
Total	0	0	0	0.00

Hours	Mob/	Calibrations			Other	WS	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	40.65	33.8	15	0	24	0	12.3	0
Today	0	0	5	1.5	0	22.5	0	0	0
Total	35.9	40.65	38.8	16.5	0	46.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

### HSE observations

### Comments client

Total survey line km not reported. To be done.  
 Reported hours today total = 29 h. To be corrected

### Comments Deep BV

Survey in WFS1.

Checked (Deep BV): {Date}

Witnessed (client): {Date}

Approved (client): {Date} 11/2/15

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



**PROJECT No:** P2849      **PARTY CHIEF:** Koen van het Hekke  
**CLIENT:** RVO      **VESSEL:** BREAKER  
**LOCATION:** Den Helder      **PAGE:** 1 of 2  
**DATE:** 29-1-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	No vessel activities
Results height check (waterline or benchmark):	na
Averaged sound velocity:	na
Results absolute depth check on known object:	na
Results overlap old survey data:	na

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - DBR Danielle Brandwijk - SBR Sietse Bruinsma - MKO Martin Koelman	
0:00	Continue weather standby.	
23:59	EOD	

Statistics on page 2

Checked (Deep BV): 29-01-2015      Witnessed (client): {Date}      Approved (client): {Date}

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Den Helder  
 DATE: 29-1-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	W 8 <-> 10 m/s	0 % WFS 1	100% mob and calib	
Sea state	1.0 <-> 1.7 m	0 % WFS 2	10.5 % WFS 1	
Visibility	good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	W 7 <-> 10 m/s	Weather standby.		
Sea state	1.1 <-> 1.7 m			
Visibility	mod/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0	0	0.00
Completed today	0	0	0	0.00
Total	0	0	0	0.00

Hours	Mob/	Calibrations		Transit	Survey	Other	WS	Downtime		
	Demob	Test						Equip.	Vessel	Other
Brought forward	35.9	40.65		38.8	16.5	0	46.5	0	12.3	0
Today	0	0		0	0	0	24	0	0	0
Total	35.9	40.65		38.8	16.5	0	70.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

### HSE observations

### Comments client

### Comments Deep BV

Checked (Deep BV): {Date}

Witnessed (client): {Date}

Approved (client): {Date} 11/15



# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Den Helder  
 DATE: 30-1-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	W 7 <-> 10 m/s	0 % WFS 1	100% mob and calib	
Sea state	1.1 <-> 1.7 m	0 % WFS 2	10.5 % WFS 1	
Visibility	mod/good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	NW 7 <-> 10 m/s	Survey activitie WFS 1		
Sea state	1.1 <-> 1.7 m			
Visibility	mod/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0	0	0.00
Completed today	0	0	0	0.00
Total	0	0	0	0.00

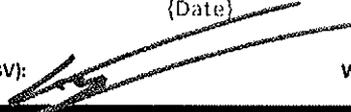
Hours	Mob/	Calibrations			Other	WS	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	40.65	38.8	16.5	0	70.5	0	12.3	0
Today	0	0	0	0	0	24	0	0	0
Total	35.9	40.65	38.8	16.5	0	94.5	0	12.3	0

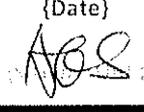
Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

**HSE observations**

**Comments client**

**Comments Deep BV**

Checked (Deep BV):  (Date)

Witnessed (client):  (Date)

Approved (client):  (Date) 11/18



# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 2 of 2  
 DATE: 31-1-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NW 7 <-> 10 m/s	0 % WFS 1	100% mob and calib	
Sea state	1.1 <-> 1.7 m	0 % WFS 2	10.5 % WFS 1	
Visibility	mod/good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	NW 11 <-> 12 m/s	Weather standby		
Sea state	2.2 <-> 2.6 m			
Visibility	mod/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0	0	0.00
Completed today	0	0	0	0.00
Total	0	0	0	0.00

Hours	Mob/	Calibrations					Downtime		
	Demob	Test	Transit	Survey	Other	WS	Equip.	Vessel	Other
Brought forward	35.9	40.65	38.8	16.5	0	94.5	0	12.3	0
Today	0	0	0	0	0	24	0	0	0
Total	35.9	40.65	38.8	16.5	0	118.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

**HSE observations**

**Comments client**

Signature client REP missing

**Comments Deep BV**

Checked (Deep BV): {Date} Witnessed (client): {SIGNATURE} {Date} Approved (client): {Date}



# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Johan van Hassekweg 39D  
 1021 KN Amsterdam  
 T: +31-20-6343676  
 WWW.DEEPBV.NL



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 2 of 2  
 DATE: 1-2-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NW 11 <-> 12 m/s	0 % WFS 1	100% mob and calib	
Sea state	2.2 <-> 2.6 m	0 % WFS 2	10.5 % WFS 1	
Visibility	mod/good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	N 3 <-> 9 m/s	Survey WFS 1		
Sea state	1.3 <-> 1.8 m			
Visibility	mod/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0	0	0.00
Completed today	0	0	0	0.00
Total	0	0	0	0.00

Hours	Mob/	Callibrations					Downtime		
	Demob	Test	Transit	Survey	Other	WS	Equip.	Vessel	Other
Brought forward	35.9	40.65	38.8	16.5	0	118.5	0	12.3	0
Today	0	0	0	0	0	24	0	0	0
Total	35.9	40.65	38.8	16.5	0	142.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

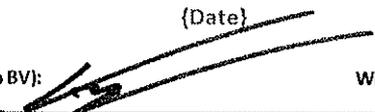
**HSE observations**

**Comments client**

During ongoing comparison and modelling of the sub-bottom and deeper geological data in the DEEP office from the MV Breaker and Seazip Surveyor, respectively, should a vertical hiatus or lack of overlap occur between the two data sets, such that there is a barren sequence without signal return or a theoretical discontinuity, this requires 'flagging' asap.

Signature client REX missing

**Comments Deep BV**

Checked (Deep BV):  (Date) \_\_\_\_\_ (Date) \_\_\_\_\_  
 Witnessed (client): {SIGNATURE} Approved (client):  (Date) \_\_\_\_\_ (Date) \_\_\_\_\_



# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Johan van Hasseltweg 39D  
 1021 KN Amsterdam  
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 WWW.DEEPBV.NL



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 2 of 2  
 DATE: 2-2-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NW 8 <-> 12 m/s	0 % WFS 1	100% mob and calib	
Sea state	1.6 <-> 2.7 m	0 % WFS 2	10.5 % WFS 1	
Visibility	mod/good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	NE 3 <-> 9m/s	Survey WFS 1		
Sea state	1.1 <-> 1.5m			
Visibility	mod/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	85	5.2%	0	0.0
Completed today	0	0.0%	0	0.0
Total	85	5.2%	0.0	0.0

Hours	Mob/	Calibrations			Other	WS	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	40.65	38.8	16.5	0	142.5	0	12.3	0
Today	0	0	1	0	0	23	0	0	0
Total	35.9	40.65	39.8	16.5	0	165.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

**HSE observations**  
 Before departure a vessel safety induction is performed with JGR.

**Comments client**  
 No REP on board

**Comments Deep BV**

Checked (Deep BV): {Date} Witnessed (client): {SIGNATURE} {Date} Approved (client): {Date}

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Johan van Hasseltweg 39D  
 1021 KN Amsterdam  
 T: +31-20-6343676  
 WWW.DEEPBV.NL



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 1 of 2  
 DATE: 3-2-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	PPE used. All OK
Results height check (waterline or benchmark):	na
Averaged sound velocity:	1480.66
Results absolute depth check on known object:	na
Results overlap old survey data:	< 0.1 [m]

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - DBR Danielle Brandwijk - SBR Sietse Bruinsma - JGA Jan Graven	
0:00	Continue transit. Survey crew shift. SBR-JGR finished <--> WVI-BMO start	
4:40	Arrival in project area	
4:45	SVP measured. Toolbox talk.	
5:05	Sidescan sonar and magnetometer in the water.	
5:40	Start survey operations.	
5:50	Start survey line: 11-1100	WFS 1
7:05	Start survey line: 12-1200	WFS 1
9:24	Start survey line: 13-1300	WFS 1
12:02	Start survey line: 14-1400	WFS 1
14:17	Start survey line: 15-1500	WFS 1
16:26	Start survey line: 16-1600	WFS 1
8:01	Start survey line: 17-1700	WFS 1
10:20	Start survey line: 18-1800	WFS 1
11:00	SVP measurement. Average SV: 1480.53	WFS 1
12:00	Survey crew shift. WVI-BMO finished <--> SBR-JGR start	WFS 1
13:08	Start survey line: 19-1900	WFS 1
15:26	Start survey line: 20-2000	WFS 1
18:46	Start survey line: 21-2100	WFS 1
18:47	SVP measurement. Average SV: 1479.55	WFS 1
21:28	Start survey line: 22-2200	WFS 1
23:32	Start survey line: 23-2300	WFS 1
17:45	Start survey line: 27-2700	WFS 1
20:18	Start survey line: 28-2800	WFS 1
22:39	Start survey line: 29-2900	WFS 1
23:59	Continue survey operation.	

Statistics on page 2

03-02-2015

{Date}

{Date}

Checked (Deep BV):

Witnessed (client):

{SIGNATURE}

Approved (client):

{SIGNATURE}

VERSION: 121218

DOCUMENT: 20150203\_SDB\_DEEP\_DAILY PROGRESS REPORT\_KHE\_V01\_F.xlsx

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Johan van Hasseltweg 39D  
 1021 KN Amsterdam  
 T: +31-20-6343676  
 WWW.DEEPBV.NL



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 2 of 2  
 DATE: 3-2-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NE 3<-> 9m/s	17.9 % WFS 1	100% mob and calib	
Sea state	1.1 <-> 1.5m	0 % WFS 2	28.4 % WFS 1	
Visibility	mod/good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	NE 7<-> 8m/s	Survey WFS 1		
Sea state	1.1 <-> 1.4m			
Visibility	good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	85	5.2%	0	0.0
Completed today	151	9.2%	0	0.0
Total	236	14.4%	0.0	0.0

Hours	Mob/	Calibrations		Survey	Other	WS	Downtime		
	Demob	Test	Transit				Equip.	Vessel	Other
Brought forward	35.9	40.65	39.8	16.5	0	165.5	0	12.3	0
Today	0	0	4.75	19.25	0	0	0	0	0
Total	35.9	40.65	44.55	35.75	0	165.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

HSE observations
Toolbox talk performed: equipment deployment.
Comments client
No REP on board
Comments Deep BV
Witnessed box not signed. No client Rep onboard the vessel.

Checked (Deep BV): {Date} Witnessed (client): {SIGNATURE} {Date} Approved (client): {SIGNATURE} {Date} 11/11

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Johan van Hasseltweg 39D  
 1021 KN Amsterdam  
 T: +31-20-6343676  
 WWW.DEEPBV.NL



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 1 of 2  
 DATE: 4-2-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	PPE used. All OK
Results height check (waterline or benchmark):	na
Averaged sound velocity:	1479
Results absolute depth check on known object:	na
Results overlap old survey data:	< 0.2 [m]

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - DBR Danielle Brandwijk - SBR Sietse Bruinsma - JGA Jan Graven	
0:00	Start of day / continuing survey operations in WFS 1	
0:00	Survey crew shift. SBR-JGR finished <--> WVI-BMO start	
0:58	Start survey line: 30-3000	WFS 1
2:00	Start survey line: 24-2400	WFS 1
3:21	Start survey line: 31-3100	WFS 1
4:23	Start survey line: 25-2500	WFS 1
5:32	Start survey line: 32-3200	WFS 1
6:33	Start survey line: 26-2600	WFS 1
7:44	Start survey line: 33-3300	WFS 1
8:49	Start survey line: 37-3700	WFS 1
10:00	SVP measurment. Average: 1480.28.	
10:50	Start survey line: 34-3400	WFS 1
11:51	Start survey line: 38-3800	WFS 1
12:00	Survey crew shift. WVI-BMO finished <--> SBR-JGR start	
12:55	Start survey line: 35-3500	WFS 1
13:58	Start survey line: 39-3900	WFS 1
15:58	Start survey line: 36-3600	WFS 1
16:00	Fire drill.	
17:00	Start survey line: 40-4000	WFS 1
17:56	Start survey line: 45-4500	WFS 1
18:51	Start survey line: 41-4100	WFS 1
19:53	Start survey line: 46-4600	WFS 1
20:45	Toolbox talk performed: SVP measurement.	
20:58	SVP measurment. Average: 1478.31.	
21:20	Start survey line: 42-4200	WFS 1
22:22	Start survey line: 47-4700	WFS 1
23:22	Start survey line: 44-4400	WFS 1
23:59	EOD. Continue survey operation.	
Statistics on page 2		

04-02-2015

{Date}

Checked (Deep BV):

Witnessed (client):

{SIGNATURE}

Approved (client):

{Date} 11/2/15  
 {SIGNATURE}

VERSION: 121218

DOCUMENT: 20150204\_SDB\_DEEP\_DAILY PROGRESS REPORT\_KHE\_V01\_F.xlsx

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Johan van Hasseltweg 39D  
 1021 KN Amsterdam  
 T: +31-20-6343676  
 WWW.DEEPBV.NL



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 2 of 2  
 DATE: 4-2-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NE 7<-> 8m/s	20.38 % WFS 1	100% mob and calib	
Sea state	1.1 <-> 1.4m	0 % WFS 2	48.78 % WFS 1	
Visibility	good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	NE 5<-> 11m/s	Survey WFS 1. Transit to Vlissingen		
Sea state	0.9 <-> 1.7m			
Visibility	good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	236	14.4%	0	0.0
Completed today	170	10.4%	0	0.0
Total	406	24.8%	0.0	0.0

Hours	Mob/ Demob	Calibrations Test	Transit	Survey	Other	WS	Downtime		
							Equip.	Vessel	Other
Brought forward	35.9	40.65	44.55	35.75	0	165.5	0	12.3	0
Today	0	0	0	24	0	0	0	0	0
Total	35.9	40.65	44.55	59.75	0	165.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward	10900		
Used today	1000		
Total remaining	9900		

**HSE observations**  
 Toolbox talk performed: SVP measurement. Fire drill. Survey day-shift not included in the Fire drill activities.

**Comments client**

**Comments Deep BV**

Witnessed box not signed. No client Rep onboard the vessel.

{Date}

{Date}

{Date}

Checked (Deep BV):

Witnessed (client): {SIGNATURE}

Approved (client):

VERSION: 121218

DOCUMENT: 20150204\_SDB\_DEEP\_DAILY PROGRESS REPORT WFE\_V01\_F.xlsx

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Johan van Hasseltweg 39D  
 1021 KN Amsterdam  
 T: +31-20-6343676  
 WWW.DEEPBV.NL



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Den Helder  
 DATE: 5-2-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 1 of 2

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	PPE used. All OK
Results height check (waterline or benchmark):	na
Averaged sound velocity:	1479
Results absolute depth check on known object:	na
Results overlap old survey data:	< 0.2 [m]

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - DBR Danielle Brandwijk - SBR Sietse Bruinsma - JGA Jan Graven	
0:00	Start of day / continuing survey operations in WFS 1	
0:00	Survey crew shift. SBR-JGR finished <--> WVI-BMO start	
0:36	Start survey line: 43-4300	WFS 1
1:49	Start survey line: 48-4800	WFS 1
3:03	Start survey line: 49-4900	WFS 1
5:56	Start survey line: 50-5000	WFS 1
7:00	Start survey line: 51-5100	WFS 1
8:00	Start survey line: 52-5200	WFS 1
9:03	Start survey line: 53-5300	WFS 1
10:03	Start survey line: 54-5400	WFS 1
11:07	Start survey line: 55-5500	WFS 1
12:00	Survey crew shift. WVI-BMO finished <--> SBR-JGR start	
12:04	Start survey line: 56-5600	WFS 1
13:09	Start survey line: 57-5700	WFS 1
14:17	Start survey line: 58-5800	WFS 1
14:48	Weather conditions deteriorating. Start equipment recovery.	
14:48	Start weather standby.	
14:54	Start transit to port.	
19:30	Arrived at port Vlissingen.	
20:00	Demobilisation survey personnel: DBR - JGS -SBR -KHE. WVI and BMO continue night shift: survey equipment maintenance.	
23:59	EOD. continue weather standby.	
Statistics on page 2		

05-02-2015

{Date}

Checked (Deep BV):

Witnessed (client):

{SIGNATURE}

Approved (client):

{Date}

VERSION: 121218

DOCUMENT: 20150205\_SDB\_DEEP\_DAILY PROGRESS REPORT\_KHE\_V01\_F.xlsx

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Johan van Hasseltweg 39D  
 1021 KN Amsterdam  
 T: +31-20-6343676  
 WWW.DEEPBV.NL



PROJECT No: P2849      PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO      VESSEL: BREAKER  
 LOCATION: Den Helder      PAGE: 2 of 2  
 DATE: 5-2-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NE 3<-> 11m/s	9.53 % WFS 1	100% mob and calib	
Sea state	0.9 <-> 1.8m	0 % WFS 2	58.93 % WFS 1	
Visibility	good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	ENE 11<-> 12m/s	Weather standby.		
Sea state	2.2 <-> 2.6m			
Visibility	good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	406	24.8%	0	0.0
Completed today	84	5.1%	0	0.0
<b>Total</b>	<b>489</b>	<b>29.9%</b>	<b>0.0</b>	<b>0.0</b>

Hours	Mob/	Calibrations		Survey	Other	WS	Downtime		
	Demob	Test	Transit				Equip.	Vessel	Other
Brought forward	35.9	40.65	44.55	59.75	0	165.5	0	12.3	0
Today	0	0	0	24	0	0	0	0	0
<b>Total</b>	<b>35.9</b>	<b>40.65</b>	<b>44.55</b>	<b>83.75</b>	<b>0</b>	<b>165.5</b>	<b>0</b>	<b>12.3</b>	<b>0</b>

Consumption	Fuel	Lubes	Water
Brought forward	9900		
Used today	2200		
<b>Total remaining</b>	<b>7700</b>		

**HSE observations**  
 Start equipment recovery at 14:48 as a result of deteriorating weather conditions.

**Comments client**

**Comments Deep BV**  
 Witnessed box not signed. No client Rep onboard the vessel.

Checked (Deep BV): {Date}      Witnessed (client) {SIGNATURE}      Approved (client): {Date}



# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Den Helder  
 DATE: 6-2-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NE 12<-> 14m/s	0 % WFS 1	100% mob and calib	
Sea state	1.9 <-> 2.3m	0 % WFS 2	58.93 % WFS 1	
Visibility	good		0 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	ENE 5<-> 12m/s	Survey operation		
Sea state	0.6 <-> 1.8m			
Visibility	good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	489	29.9%	0	0.0
Completed today	0	0.0%	0	0.0
Total	489	29.9%	0.0	0.0

Hours	Mob/ Demob	Calibrations Test	Transit	Survey	Other	WS	Downtime		
							Equip.	Vessel	Other
Brought forward	35.9	40.65	44.55	83.75	0	165.5	0	12.3	0
Today	0	0	0	0	0	24	0	0	0
Total	35.9	40.65	44.55	83.75	0	189.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward	9900		
Used today	2200		
Total remaining	7700		

<b>HSE observations</b>
<b>Comments client</b>
A quick review of the data collected over the last 3 days confirms that the data quality is generally acceptable. Will review the data with the DEEP QC and Partychief to establish if any re-runs are necessary but the results so far look encouraging.
<b>Comments Deep BV</b>

Checked (Deep BV): {Date}      Witnessed (client): {Date}      Approved (client): {Date}



# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV  
 Bureau van Dijk, 1017 CA Amsterdam, The Netherlands  
 Tel: +31 (0)20 612 2222  
 www.deepbv.nl



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 2 of 2  
 DATE: 7-2-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	N-NE 6<-> 10m/s	9.35 % WFS 1	100% mob and calib	
Sea state	0.6<-> 1.7m	0.002 % WFS 2	68.28 % WFS 1	
Visibility	md/gd		0.002 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	N 7<-> 12m/s	Weather standby.		
Sea state	1..4<-> 2.7m			
Visibility	good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	489	29.9%	0	0.0
Completed today	79	4.8%	0	0.0
Total	568	34.7%	0.0	0.0

Hours	Mob/	Calibrations			Other	WS	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	40.65	44.55	83.75	0	189.5	0	12.3	0
Today	0	0	10	11	0	7.5	0	0	0
Total	35.9	40.65	54.55	94.75	0	197	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward	12400		
Used today	700		
Total remaining	11700		

HSE observations
Start equipment recovery at 15:56 as a result of deteriorating weather conditions.
Comments client
Comments Deep BV
We encountered marginal sea state conditions at the end and start of the day. In-between the marginal sea state conditions we used a workable window of approximate 11 hours. The data quality was acceptable.

Checked (Deep BV): {Date} Witnessed (client): {Date} Approved (client): {Date} 11/2/15

VERSION: 1.1  
 #NA



# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Den Helder  
 DATE: 8-2-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	N 7<-> 12m/s	0.00 % WFS 1	100% mob and calib	
Sea state	1..4<-> 2.7m	0.00	68.28 % WFS 1	
Visibility	good		0.002 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	NW 6<-> 8m/s	Survey WFS 1-2.		
Sea state	1..2<-> 1.4m			
Visibility	md/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	568	34.7%	0	0.0
Completed today	0	0.0%	0	0.0
Total	568	34.7%	0.0	0.0

Hours	Mob/	Calibrations			Other	WS	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	40.65	54.55	94.75	0	197	0	12.3	0
Today	0	0	2	0	0	24	0	0	0
Total	35.9	40.65	56.55	94.75	0	221	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward	11700		
Used today	1400		
Total remaining	10300		

### HSE observations

All OK.

### Comments client

### Comments Deep BV

Checked (Deep BV): {Date}      Witnessed (client): {Date}      Approved (client): {Date}

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 1 of 2  
 DATE: 9-2-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	PPE used. All OK
Results height check (waterline or benchmark):	na
Averaged sound velocity:	1476.64
Results absolute depth check on known object:	na
Results overlap old survey data:	< 0.2 [m]

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - SBR Sietse Bruinsma - JGA Jan Graven - DBR Danille Brandwijk	
0:00	Start of day. Continue weather standby. Transit to project area	
0:00	Survey crew shift. SBR-JGR finished <--> WVI-BMO start	
3:30	Arrival at WFS. Stop weather standby and transit.	
3:34	Sound velocity profile measured (average: 1477.61).	
3:42	Sidescan and magnetometer equipoment in the water	
3:51	Start survey operations at line 69-6900	WFS 1-2
5:02	Start survey line: 70-7000	WFS 1-2
6:09	Start survey line: 71-7100	WFS 1-2
7:14	Start survey line: 72-7200	WFS 1-2
8:14	Start survey line: 73-7300	WFS 1-2
9:17	Start survey line: 74-7400	WFS 1-2
10:15	Start survey line: 75-7500	WFS 1-2
11:22	Start survey line: 76-7600	WFS 1-2
12:00	Survey crew shift. WVI-BMO finished <--> SBR-JGR start	
13:26	Start survey line: 77-7700	WFS 1-2
14:33	Start survey line: 78-7800	WFS 1-2
15:42	Start survey line: 79-7900	WFS 1-2
16:52	Start survey line: 80-8000	WFS 1-2
18:03	Start survey line: 81-8100	WFS 1-2
19:06	Start survey line: 82-8200	WFS 1-2
20:26	Start survey line: 83-8300	WFS 1-2
21:30	Sound velocity profile measured (average: 1476.64).	
21:48	Start survey line: 84-8400	WFS 1-2
22:54	Start survey line: 85-8500	WFS 1-2
23:59	EOD. Continue survey	
Statistics on page 2		

Checked (Deep BV) 09-02-2015 (Date)  
 Witnessed (client) (Date)  
 Approved (client) (Date)

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Den Helder  
 DATE: 9-2-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NW 6 m/s	12.83 % WFS 1	100% mob and calib	
Sea state	1.4<-> 1.2m	5.81 % WFS 2	81.11 % WFS 1	
Visibility	good		5.85 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	N 2<-> 6m/s	Survey WFS 1-2.		
Sea state	0.7<-> 1.2m			
Visibility	good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	568	34.7%	0	0.0
Completed today	153	9.3%	0	0.0
Total	722	44.0%	0.0	0.0

Hours	Mob/	Calibrations			Other	WS	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	40.65	56.55	94.75	0	221	0	12.3	0
Today	0	0	3.5	20.5	0	11.5	0	0	0
Total	35.9	40.65	60.05	115.25	0	232.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward	11700		
Used today	2600		
Total remaining	9100		

### HSE observations

### Comments client

Total hours today = 35.5. If the 11.5 h. WS is a correction of previous days, this should be added in Total and not for the day.

### Comments Deep BV

On 5 February, 8 hours of weather standby were not added to the total weather standby. The 8 weather standby hours are implemented in today's DPR.

Checked (Deep BV): {Date} \_\_\_\_\_  
 Witnessed (client): {Date} \_\_\_\_\_  
 Approved (client): {Date} 10/2/15

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: Den Helder PAGE: 1 of 2  
 DATE: 10-2-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	PPE used. All OK
Results height check (waterline or benchmark):	na
Averaged sound velocity:	1475
Results absolute depth check on known object:	na
Results overlap old survey data:	< 0.2 [m]

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - SBR Sietse Bruinsma - JGA Jan Graven - DBR Danille Brandwijk	
0:00	Start of day. Continue survey operations.	
0:00	Survey crew shift. SBR-JGR finished <-> WVI-BMO start	
0:09	Start survey line: 86-8600	WFS 1-2
1:20	Start survey line: 87-8700	WFS 1-2
2:31	Start survey line: 88-8800	WFS 1-2
3:45	Start survey line: 89-8900	WFS 1-2
4:55	Start survey line: 90-9000	WFS 1-2
6:09	Start survey line: 91-9100	WFS 1-2
7:21	Start survey line: 92-9200	WFS 1-2
8:36	Start survey line: 93-9300	WFS 1-2
9:53	Start survey line: 94-9400	WFS 1-2
11:00	Toolbox meeting SVP measurement.	
11:10	SVP measured (average 1475.16m/s)	
11:22	Start survey line: 95-9500	WFS 1-2
12:00	Survey crew shift. WVI-BMO finished <-> SBR-JGR start	
12:40	Start survey line: 96-9600	WFS 1-2
13:51	Start survey line: 97-9700	WFS 1-2
15:11	Start survey line: 98-9800	WFS 1-2
16:25	Start survey line: 99-9900	WFS 1-2
17:40	Start survey line: 100-10000	WFS 1-2
18:54	Start survey line: 101-10100	WFS 1-2
20:09	Start survey line: 102-10200	WFS 1-2
21:20	Start survey line: 103-10300	WFS 1-2
22:38	Start survey line: 104-10400	WFS 1-2
23:49	SVP measured (average 1474.28m/s)	
23:59	Start survey line: 105-10500	WFS 1-2
23:59	EOD. Continue survey operations.	
	Statistics on page 2	

Checked (Deep BV): 10-02-2015  
 Witnessed (client): (Date)  
 Approved (client): (Date) 10/2/15

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: Den Helder  
 DATE: 10-2-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	NW 3 <-> 5m/s	10.65 % WFS-1	100% mob and calib	
Sea state	1..2 <-> 0.6m	16.55 % WFS-2	91.75 % WFS 1	
Visibility	md/good		22.40 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	E 3 <-> 5m/s	Survey WFS 1-2.		
Sea state	0.3 <-> 0.6m			
Visibility	md/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	722	44.0%	0	0.0
Completed today	223	13.6%	0	0.0
Total	945	57.6%	0.0	0.0

Hours	Mob/	Calibrations			Other	WS	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	40.65	60.05	115.25	0	232.5	0	12.3	0
Today	0	0	0	24	0	0	0	0	0
Total	35.9	40.65	60.05	139.25	0	232.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward	9100		
Used today	1100		
Total remaining	8000		

HSE observations
Toolbox meeting SVP measurement performed. Presented by Willem Visser
Comments client
Two large magnetic anomalies have been found not associated with any known infrastructure or wrecks. Review of the Swathe and sonar data confirms full coverage in this area with both instruments.
Comments Deep BV

Checked (Deep BV): {Date} Witnessed (client): {Date} Approved (client): {Date}

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: WFZ Borssele PAGE: 1 of 2  
 DATE: 11-2-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	PPE used. All OK
Results height check (waterline or benchmark):	na
Averaged sound velocity:	na
Results absolute depth check on known object:	na
Results overlap old survey data:	na

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - SBR Sietse Bruinsma - JGA Jan Graven - DBR Danille Brandwijk	
0:00	Start of day. Continue survey operations.	
0:00	Survey crew shift. SBR-JGA finished <-> WVI-BMO start	
1:26	Start survey line: 106-10600	WFS 1-2
2:49	Start survey line: 107-10700	WFS 1-2
4:08	Start survey line: 108-10800	WFS 1-2
5:30	Start survey line: 109-10900	WFS 1-2
6:50	Start survey line: 110-11000	WFS 1-2
8:12	Start survey line: 111-11100	WFS 1-2
9:34	Start survey line: 112-11200	WFS 1-2
10:45	Sound velocity measurement. Average: 1473.59	
10:56	Start survey line: 113-11300	WFS 1-2
12:00	Survey crew shift. WVI-BMO finished <-> SBR-JGR start	
12:19	Start survey line: 114-11400	WFS 1-2
13:41	Start survey line: 115-11500	WFS 1-2
15:03	Start survey line: 116-11600	WFS 1-2
16:27	Start survey line: 117-11700	WFS 1-2
17:46	Start survey line: 118-11800	WFS 1-2
19:09	Start survey line: 119-11900	WFS 1-2
20:00	Meeting KHE/JGA and Client Rep. Confirmation cables, pipelines and wreck remains.	
20:30	Start survey line: 120-12000	WFS 1-2
21:46	Start survey line: 121-12100	WFS 1-2
23:10	Sound velocity measurment. Average: 1474.46	
23:25	Start survey line: 122-12200	WFS 1-2
23:59	Continue survey operation.	
	Statistics on page 2	

Checked (Deep BV): 11-02-2015 (Date)  
 Witnessed (client): (Date)  
 Approved (client): (Date)

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: WFZ Borssele  
 DATE: 11-2-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	E 3 <-> 5m/s	5.25 % WFS 1	100% mob and calib	
Sea state	0.3 <-> 0.6m	22.4 % WFS 2	97 % WFS 1	
Visibility	md/good		44.5 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	SSW 2 <-> 5m/s	Survey WFS 1-2.		
Sea state	0.1 <-> 0.3m			
Visibility	md/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	945	57.6%	0	0.0
Completed today	228	13.9%	0	0.0
Total	1173	71.5%	0.0	0.0

Hours	Mob/	Calibrations		Survey	Other	WS	Downtime		
	Demob	Test	Transit				Equip.	Vessel	Other
Brought forward	35.9	40.65	60.05	139.25	0	232.5	0	12.3	0
Today	0	0	0	24	0	0	0	0	0
Total	35.9	40.65	60.05	163.25	0	232.5	0	12.3	0

Consumption	Fuel	Lubes	Water
Brought forward	8000		
Used today	800		
Total remaining	7200		

HSE observations
All OK.
Comments client
Comments Deep BV
Conclusion meeting 20:00 hours: Franpipe, Farland and Zeepipe positions are confirmed. Part of the Seamewe is not confirmed, additional crossing will be surveyed. Wreck remains position of 1738 is confirmed. Wreck remains 3671 is not confirmed, additional lines will be surveyed.

Checked (Deep BV): (Date) \_\_\_\_\_

Witnessed (client): (Date) \_\_\_\_\_

Approved (client): (Date) *10/2/15*

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: WFZ Borssele PAGE: 1 of 2  
 DATE: 12-2-2015

### Daily checks

Findings of workplace risk assessment (HSE § 4.1):	PPE used. All OK
Results height check (waterline or benchmark):	no
Averaged sound velocity:	1474.21
Results absolute depth check on known object:	no
Results overlap old survey data:	< 0.2 [m]

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - SBR Sietse Bruinsma - JGA Jan Graven - DBR Danille Brandwijk	
0:00	Start of day. Continue survey operations.	
0:00	Survey crew shift. SBR-JGA finished <--> WVI-BMO start	
0:48	Start survey line: 123-12300	WFS 1
2:10	Start survey line: 124-12400	WFS 1
3:29	Start survey line: 125-12500	WFS 1
4:45	Start survey line: 126-12600	WFS 1
5:00	Start survey line: 179 X 12000	WFS 1
6:35	Start rejected line 16-1600	WFS 1
7:05	Start survey line: 180 X 14000	WFS 1
7:55	Start confirmation lines 3671	WFS 1
8:47	Continue cross lines 180	WFS 1
11:09	Start survey line: Seamewe S	WFS 1
12:00	Survey crew shift. WVI-BMO finished <--> SBR-JGR start	
13:20	Start rejected line 42-4200	WFS 1
14:25	Start survey line: Seamewe N	WFS 1
14:40	Start rejected line 56-5600	WFS 1
16:00	Finished WFA 1	WFS 1
16:04	Sound velocity measurement	
17:27	Start survey line: 127-12700	WFS 2
18:48	Start survey line: 128-12800	WFS 2
20:01	Start survey line: 129-12900	WFS 2
21:13	Start survey line: 130-13000	WFS 2
22:27	Start survey line: 131-13100	WFS 2
23:35	Start survey line: 132-13200	WFS 2
23:59	EOD/continue survey operations.	WFS 2
Statistics on page 2		

12-02-2015

{Date}

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: WFZ Borssele  
 DATE: 12-2-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	SSW 2<-> 5m/s	3 % WFS 1	100% mob and calib	
Sea state	0.1<-> 0.3m	22 % WFS 2	100% WFS 1	
Visibility	md/good		59.5 % WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	SSE 7<-> 12m/s	Survey WFS 2 and weather standby		
Sea state	0.6<-> 1.7m			
Visibility	md/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	1173	71.5%	0	0.0
Completed today	139	8.5%	0	0.0
Total	1312	80.0%	0.0	0.0

Hours	Mob/	Calibrations		Transit	Survey	Other	WS	Downtime		
	Demob	Test						Equip.	Vessel	Other
Brought forward	35.9	40.65	60.05	163.25	0	232.5	0	12.3	0	
Today	0	0	0	24	0	0	0	0	0	
Total	35.9	40.65	60.05	187.25	0	232.5	0	12.3	0	

Consumption	Fuel	Lubes	Water
Brought forward	7200		
Used today	800		
Total remaining	6400		

### HSE observations

All OK.

### Comments client

After a review of the data coverage with KHE (DEEP Party Chief) I can confirm that Area WF1 is considered complete. For avoidance of doubt: it is Deep's resp. to decide & inform if the survey works are completed in accordance with the contract. Final judgement of Client if the scope is completed can and will only be done with approval of the final report

### Comments Deep BV

Finalisation WFS-1 confirmed by: DBR (QC) - KHE (Party Chief) - .R. Birchall (Client Rep)

Checked (Deep BV): \_\_\_\_\_ (Date) \_\_\_\_\_  
 Witnessed (client): \_\_\_\_\_ (Date) \_\_\_\_\_  
 Approved (client): \_\_\_\_\_ (Date) \_\_\_\_\_

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: WFZ Borssele PAGE: 1 of 2  
 DATE: 13-2-2015

### Daily checks

Findings of workplace risk assessment (HSE § 4.1): PPE used. All OK  
 Results height check (waterline or benchmark): na  
 Averaged sound velocity: 1474  
 Results absolute depth check on known object: na  
 Results overlap old survey data: <0.2 [m]

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - SBR Sietse Bruinsma - JGA Jan Graven - DBR Danille Brandwijk	
0:00	Start of day. Continue survey operations.	
0:00	Survey crew shift. SBR-JGA finished <--> WVI-BMO start	
1:37	Start survey line: 133-13300	
2:51	Start survey line: 134-13400	
4:05	Start survey line: 135-13500	
5:16	Start survey line: 136-13600	
6:30	Start survey line: 137-13700	
7:43	Start survey line: 138-13800	
8:54	Start survey line: 139-13900	
10:05	Start survey line: 140-14000	
11:16	Start survey line: 141-14100	
12:00	Survey crew shift. WVI-BMO finished <--> SBR-JGA start.	
12:35	Start survey line: 142-14200	
13:43	Start survey line: 143-14300	
14:55	Stop survey.	
15:20	Equipment on deck. SVP dip.	
15:30	Start transit to Vlissingen for crew change and bunkering fuel.	
18:45	Bunkering fuel and dropping off data.	
19:00	Sietse Bruinsma disembarked.	
20:00	Finished bunkering fuel.	
20:00	Start transit to Project area.	
23:50	Arrived at survey area.	
23:59	EOD. Start survey operations.	
	Statistics on page 2	

13-02-2015

{Date}

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: WFZ Borssele  
 DATE: 13-2-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	SSE 7<-> 12m/s	0 % WFS 1	100% mob and calib	
Sea state	0.6<-> 1.3m	14.4 % WFS 2	100 % WFS 1	
Visibility	md/good		73.91% WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	SSE 6 <-> 10m/s	Survey WFS 2.		
Sea state	0.6<-> 1.3m			
Visibility	md/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	1312	80.0%	0	0.0
Completed today	117	7.2%	0	0.0
<b>Total</b>	<b>1429</b>	<b>87.2%</b>	<b>0.0</b>	<b>0.0</b>

Hours	Mob/	Calibrations			Other	WS	Downtime		
	Demob	Test	Transit	Survey			Equip.	Vessel	Other
Brought forward	35.9	40.65	60.05	187.25	0	232.5	0	12.3	0
Today	0	0	7.25	15	0	0	0	0	1.25
<b>Total</b>	<b>35.9</b>	<b>40.65</b>	<b>67.3</b>	<b>202.25</b>	<b>0</b>	<b>232.5</b>	<b>0</b>	<b>12.3</b>	<b>1.25</b>

Consumption	Fuel	Lubes	Water
Brought forward	6400		
Used today	1400		
<b>Total remaining</b>	<b>5000</b>		

**HSE observations**  
 All OK.

**Comments client**  
 DEEP took advantage of the marginal weather to drop off data.  
 Hours today sum up to 23.5h. Should be 24h

**Comments Deep BV**  
 Back to Vlissingen: bunkering fuel.

Checked (Deep BV): (Date)

Witnessed (client): (Date)

Approved (client): (Date) 10/2/15

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



**PROJECT No:** P2849      **PARTY CHIEF:** Koen van het Hekke  
**CLIENT:** RVO      **VESSEL:** BREAKER  
**LOCATION:** WFZ Borssele      **PAGE:** 1 of 2  
**DATE:** 14-2-2015

### Daily checks

Findings of workplace risk assessment (HSE § 4.1):	PPE used. All OK
Results height check (waterline or benchmark):	na
Averaged sound velocity:	1472
Results absolute depth check on known object:	na
Results overlap old survey data:	<0.2 [m]

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - JGA Jan Graven - DBR Danille Brandwijk	
0:00	Start of day. Continue survey operations.	
0:00	Survey crew shift. KHE-JGA finished <--> WVI-BMO start	
0:05	Equipment deployed. SVP measurement taken. Start survey operations	
0:19	Start surveyline 144-14400	
1:24	Start surveyline 145-14500 to 155-15500	
11:55	SVP measurement taken (AVG 1472.26)	
12:00	Survey crew shift. WVI-BMO finished <--> KHE-JGA start	
12:03	Start surveyline 156-15600	
12:05	Survey crew shift. WVI-BMO finished <--> KHE-JGA start	
12:53	Start surveyline 157-15700	
13:40	Start surveyline 158-15800	
14:31	Start surveyline 159-15900	
15:19	Start survey line 16-16000	
16:06	Start survey line 161-16100	
16:52	Start survey line 162-16200	
17:40	Start survey line 163-16300	
18:28	Start surveyline 164-16400	
19:02	Start surveyline 165-16500	
19:40	Start surveyline 166-16600	
20:19	Start surveyline 167-16700	
20:58	Start surveyline 168-16800	
21:48	Start surveyline 169-16900	
22:27	Start surveyline 170-17000	
22:52	Start surveyline 171-17100	
23:30	Start surveyline 175 X 6000	
23:59	EOD. Continue survey operations.	
	Statistics on page 2	

Checked (Deep BV): 14-02-2015 (Date)  
 Witnessed (client): (Date)  
 Approved (client): (Date)

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: WFZ Borssele PAGE: 2 of 2  
 DATE: 14-2-2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	SSE 7 <-> 12m/s	0 % WFS 1	100% mob and calib	
Sea state	0.6 <-> 1.3m	21 % WFS 2	100 % WFS 1	
Visibility	md/good		95% WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	SSE 6 <-> 10m/s	Survey WFS 2.		
Sea state	0.6 <-> 1.3m			
Visibility	md/good			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	1429	87.2%	0	0.0
Completed today	162	9.8%	0	0.0
Total	1591	97.0%	0.0	0.0

Hours	Mob/	Calibrations			Downtime				
	Demob	Test	Transit	Survey	Other	WS	Equip.	Vessel	Other
Brought forward	35.9	40.65	67.3	202.25	0	232.5	0	12.3	1.25
Today	0	0	0	24	0	0	0	0	0
Total	35.9	40.65	67.3	226.25	0	232.5	0	12.3	1.25

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining	9600		

HSE observations
All OK.
Comments client
Additional swathe lines will be done to infill small gaps in coverage on the banks. An additional cable, not on any charts has been provisionally identified. One out-of-use cable has not been identified on any line. There will also be investigation of two large magnetometer contacts where nothing has been initially identified on the sonar/swathe data. On completion of works intension is to review coverage with DEEP PC and QC to confirm site is complete.
Comments Deep BV
Expecting to finish the survey operation tomorrow. Farland and Zeepipe positions are confirmed. Wreck remains 3658 and 3657 are not confirmed, additional lines will be surveyed. Despite the MBES coverage is within specifications, additional lines will be surveyed on the shallow parts.

Checked (Deep BV): (Date) \_\_\_\_\_  
 Witnessed (client): (Date) \_\_\_\_\_  
 Approved (client): (Date) \_\_\_\_\_

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke  
 CLIENT: RVO VESSEL: BREAKER  
 LOCATION: WFZ Borssele PAGE: 1 of 2  
 DATE: 15-2-2015

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	PPE used. All OK
Results height check (waterline or benchmark):	na
Averaged sound velocity:	1472.66
Results absolute depth check on known object:	na
Results overlap old survey data:	<0.2 [m]

Time	Event	Survey area
	WVI Willem Visser - BMO Bernd Monsma - KHE Koen van het Hekke - JGA Jan Graven - DBR Danille Brandwijk	
0:00	Start of day. Continue survey operations.	
0:00	Survey crew shift. KHE-JGA finished <--> WVI-BMO start	
0:40	Start surveyline 178 X 10000	WFS-2
1:40	Start gaps MBES North bank	WFS-2
2:37	Start Innomarine	WFS-2
3:08	Start Maggyline 012	WFS-2
3:39	Start Confirmation Wreck 3657	WFS-2
4:20	Start Maggyline 022	WFS-2
4:35	Start 173 X 2000	WFS-2
5:19	Start Confirmation Wreck 3658	WFS-2
6:00	Recover survey equipment	
6:15	SVP measurement taken. Sailing to start of line	
6:33	Start MBES Gaps South Bank	WFS-2
10:45	End survey operations	
10:56	Meeting PC-CR: Finalisation WFS 2. Finalisation confirmed.	
11:00	End of field operations. Back to port.	
	Statistics on page 2	

15-02-2015 {Date} {Date}

Checked (Deep BV): Witnessed (client): Approved (client): 15/2

# FIELD OPERATIONS

## LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849  
 CLIENT: RVO  
 LOCATION: WFZ Borssele  
 DATE: 15-2-2015

PARTY CHIEF: Koen van het Hekke  
 VESSEL: BREAKER  
 PAGE: 2 of 2

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	ENE 2<->6 m/s	0 % WFS 1	100% mob and calib	
Sea state	0.6 <-> 0.7m	5 % WFS 2	100 % WFS 1	
Visibility	md/good		100% WFS 2	
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	NA	NA		
Sea state	NA			
Visibility	NA			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	1591	97.0%	0	0.0
Completed today	49	3.0%	0	0.0
Total	1640	100.0%	0.0	0.0

Hours	Mob/	Calibrations			Downtime				
	Demob	Test	Transit	Survey	Other	WS	Equip.	Vessel	Other
Brought forward	35.9	40.65	67.3	226.25	0	232.5	0	12.3	1.25
Today	0	0	0	11	0	0	0	0	0
Total	35.9	40.65	67.3	237.25	0	232.5	0	12.3	1.25

Consumption	Fuel	Lubes	Water
Brought forward	9600		
Used today	400		
Total remaining	9200		

**HSE observations**  
 All OK.

**Comments client**  
 After a review of the data coverage with KHE (DEEP Party Chief) I can confirm that Area WF2 is considered complete. For avoidance of doubt: it is Deep's responsibility to decide & inform if the survey work are completed in accordance with the contract. Final judgement of Client can and will only be done with approval of the final report

**Comments Deep BV**  
 Finalisation WFS-2 confirmed by: DBR (QC) - KHE (Party Chief) - R. Birchall (Client Rep)

15-02-15 (Date)  
 K. Heuve  
 Checked (Deep BV):

(Date)  
 Witnessed (client):

(Date)  
 Approved (client):