



deep
Hydrography & Geophysics

SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

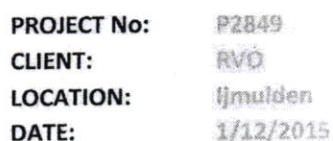
Findings of workplace risk assessment (HSE § 4.1):	<i>assesment done, necessary steps will be taken</i>
Results height check (waterline or benchmark):	<i>n.a.</i>
Averaged sound velocity:	<i>n.a.</i>
Results absolute depth check on known object:	<i>n.a.</i>
Results overlap old survey data:	<i>n.a.</i>

[illegible]

(Dated: _____)

Approved (client):

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



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

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

HSE observations
Comments client
Comments Deep BV

Checked (Deep BV):

Witnessed (client): Jack Shewler

Approved (client): _____

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

GRUP ST
2000 van Borsselem 180
1020 KM Brussel
T: +31-20-624367
WWW.DESPIN.NL



SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

Findings of workplace risk assessment (HSE § 4.1):	<i>assesment done, necessary steps (will be) taken</i>
Results height check (waterline or benchmark):	<i>correct, (see calibration form)</i>
Averaged sound velocity:	<i>n.a.</i>
Results absolute depth check on known object:	<i>n.a.</i>
Results overlap old survey data:	<i>n.a.</i>

[illegible]

{Date}

{Date}

Robert White

Dick Ghomer

Approved (client):

DOCUMENT: 15-04-13 Logsheet - Daily progress report offshore.xlsx

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
Johan van Hesseweg 20D
1021 KN Amsterdam
T: +31-20-6543676
WWW.DEEPBV.NL



PROJECT No: P2849 SURVEYOR: NPR & WWE
CLIENT: RVO VESSEL: Octans
LOCATION: IJmuiden PAGE: 2 of 2
DATE: 1/13/2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	6 bf SW	Continuation Mob.	Physical Mob completed	
Sea state	1.5 Sw		Pos Check completed	
Visibility	>10 km			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	6 bf SW	Gyro calibration & External Audit & 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/ Demob	Calibrations Test	Transit	Survey	Other	WoW	Downtime		
							Equip.	Vessel	Other
Brought forward	12								
Today	24								
Total	36								

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

HSE observations
Comments client
Comments Deep BV

13/01/2015

{Date}

{Date}

Checked (Deep BV):

[Signature]

Witnessed (client):

[Signature]

Approved (client):

{Signature}

VERSION: 121218

DOCUMENT: 15-01-15 Logsheet - Daily progress report offshore.xlsx

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

John van Hestdijkweg 39D
1021 HW Amsterdam
T: +31-20-6444576
WWW.DIEPDE.NL



SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

Findings of workplace risk assessment (HSE § 4.1):	<i>assesment done, necessary steps (will be) taken</i>
Results height check (waterline or benchmark):	<i>executed 13-01-2015</i>
Averaged sound velocity:	<i>n.a.</i>
Results absolute depth check on known object:	<i>n.a.</i>
Results overlap old survey data:	<i>n.a.</i>

[illegible]

{Date}

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
Dobbe van Heesdorpweg 390
1031 KN Amsterdam
T: +31-20-6343676
WWW.DEEP.BV.NL



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/ Demob	Calibrations Test	Transit	Survey	Other	WoW	Downtime		
							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

14/01/2015

{Date}

Checked (Deep BV):

[Signature]

Witnessed (client):

[Signature]

Approved (client):

{Date}

{Signature}

VERSION: 121218

DOCUMENT: 20150115_SDB_DEEP_TBIA_V01_F.xlsx

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BY
John van Houseltweg 390
6021 KN Agnietenpark
T: +31-20-6266626
WWW.DEEPBY.NL



SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

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

[illegible]

{Date}

(Date)

Witnessed (client):

Approved (client):

VERSION 12/2/10

DOCUMENT: 18-01-18 Incident - Daily progress report offshore.xlsx

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
Tolhuysen van Hooftweg 330
1021 KM Amsterdam
T +31-20-6345676
WWW.DEEP.BV.NL



PROJECT No: P2849
CLIENT: RVO
LOCATION: IJmuiden
DATE: 1/15/2015

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

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	6 bf SW		physical Mob completed	
Sea state	2.4 Height sign.			
Visibility	>10 km			
Weather forecast 24 hours		Planned activities for upcoming 24h		
Wind	6 bf SW	waiting on weather improvement and documentation finalisation		
Sea state	1.6 Sw			
Visibility	>10 km			

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

Hours	Mob/	Calibrations		Transit	Survey	Other	WoW	Downtime		
	Demob	Test						Equip.	Vessel	Other
Brought forward	58	2								
Today	24	0								
Total	82	2								

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

HSE observations
Comments client
Comments Deep BV

15/01/2015

{Date}

{Date}

Checked (Deep BV):

Wouter Voute

Witnessed (client):

Diederik Hendrik

Approved (client):

[Signature]

VERSION: 121210

DOCUMENT: 15-01-15 Logsheet - Daily progress report offshore.xlsx

1. The first step in the process of identifying a problem is to recognize that a problem exists. This involves gathering information about the situation and identifying the specific issue that needs to be addressed.



SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

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

[illegible]

Date: _____

Checked (Deep BV):

Witnessed (client):

Approved (client):

1992 1223

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FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849
CLIENT: RVO
LOCATION: IJmuiden
DATE: 1/16/2015

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

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 Test	Transit	Survey	Other	WoW	Downtime		
							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):

(Date) 21/01/15
[Signature]

Printed: 15:28

LOGSHEET: P2849 Logsheet - Daily progress report offshore.xlsx

2.



SURVEYOR: NPR & WVE
VESSEL: Octans
PAGE: 1 of 2

Daily checks	
Findings of workplace risk assessment (HSE § 4.1):	<i>toolbox talk held</i>
Results height check (waterline or benchmark):	<i>executed 13-01-2015</i>
Averaged sound velocity:	<i>n.a.</i>
Results absolute depth check on known object:	<i>n.a.</i>
Results overlap old survey data:	<i>n.a.</i>

[illegible]

Date: _____

Checked (Deep BV):

Witnessed (client): David L. Heiron

Approved (client):

12913

© 2012/2013 11-01-12 (last day) - Daily e-mails: info@offshore.nl

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 SURVEYOR: NPR & WVE
 CLIENT: RVO VESSEL: Octans
 LOCATION: Ijmuiden PAGE: 2 of 2
 DATE: 1/17/2015

Weather conditions		Today's progress	Project progress	Progress accepted
Wind	6 bf SW	start survey	start survey	
Sea state	1.6 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			
Visibility	>10 km			

Total survey line km	Accepted		Rejected	
	km	%	km	%
Brought forward	0	0		0.00
Completed today			15	100.00
Total	0	0		100.00

Hours	Mob/ Demob	Calibrations Test	Transit	Survey	Other	WoW	Downtime		
							Equip.	Vessel	Other
Brought forward	90	2	7	0		9			
Today	0	0	3	8		13			
Total	90	2	10	8		22			

Consumption	Fuel	Lubes	Water
Brought forward			
Used today			
Total remaining			

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

17/01/2015

{Date}

Checked (Deep BV):

[Signature]

Witnessed (client):

[Signature]

Approved (client):

[Signature] 22/01/15

VERSION: 121215

OFFSHORE 14-01-17 Logsheet - Daily progress report offshore.docx

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.



SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

| Daily checks | |
|--|----------------------------|
| Findings of workplace risk assessment (HSE § 4.1): | <i>toolbox talk held</i> |
| Results height check (waterline or benchmark): | <i>executed 13-01-2015</i> |
| Averaged sound velocity: | <i>n.a.</i> |
| Results absolute depth check on known object: | <i>n.a.</i> |
| Results overlap old survey data: | <i>n.a.</i> |

[illegible]

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

APR 1997 1847 11:00 AM - Data not yet received from all four sites

1. The first step in the process is to identify the problem. This involves gathering information about the situation and understanding the needs of the stakeholders involved.



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

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|------------------|--|------------------|-------------------|
| Wind | 6 bf SW | start survey | start survey | |
| Sea state | 1.6 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 | | | |
| Visibility | >10 km | | | |

| Total survey line km | Accepted | | Rejected | |
|----------------------|----------|----|----------|--------|
| | km | % | km | % |
| Brought forward | 0 | 0 | 15 | 0.00 |
| Completed today | 70 | 13 | 0 | 100.00 |
| Total | 70 | 13 | 15 | 100.00 |

| Hours | Mob/ | Calibrations | | | | | Downtime | | |
|-----------------|-------|--------------|---------|--------|-------|-----|----------|--------|-------|
| | Demob | Test | Transit | Survey | Other | WoW | Equip. | Vessel | Other |
| Brought forward | 90 | 2 | 10 | 8 | | 22 | 0 | | |
| Today | 0 | 0 | 0 | 12.5 | | 10 | 1.5 | | |
| Total | 90 | 2 | 10 | 20.5 | | 32 | 1.5 | | |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | |
| Used today | | | |
| Total remaining | | | 2000 |

| HSE observations |
|---|
| |
| |
| |
| Comments client |
| Wow in DPR= weather standby; Wow to be determined
in WPR |
| |
| |
| Comments Deep BV |
| |
| |
| |
| |
| |

18/01/2015

{Date}

(Date)

$$\frac{23}{0.15}$$

Checked (Deep BV):

Witnessed (client):

Approved (client):

WFOU 12/2/82

FOYD 1984: 11, 31, 18, 14, 13. This account report others, etc.

[illegible]

PROJECT No: P2849
CLIENT: BVO
LOCATION: Jmuiden
DATE: 19-Jan-15

SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

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 | continuation of survey | |
| 14:15 | SVP reading for Seismic processing | |
| 23:59 | EOD | |
| Statistics on page 2 | | |

19/01/2015

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

1990 1990

DOI: 10.1002/for

[illegible]

1990年12月
 1991年1月
 1991年2月
 1991年3月
 1991年4月



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

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|------------------|-------------------------------------|-----------------------|-------------------|
| Wind | 3 bf SW | continuation of survey | MC survey in progress | |
| Sea state | 0.5 Height sign. | | | |
| Visibility | >10 km | | | |
| Weather forecast 24 hours | | Planned activities for upcoming 24h | | |
| Wind | 6 bf SW | survey and bunkering for water | | |
| Sea state | 1 Sw | | | |
| Visibility | >10 km | | | |

| Total survey line km | Accepted | | Rejected | |
|----------------------|----------|----|----------|--------|
| | km | % | km | % |
| Brought forward | 70 | 13 | 15 | 100.00 |
| Completed today | 130 | 23 | 0 | |
| Total | 200 | 36 | 15 | 100.00 |

| Hours | Mob/ | Calibrations | | | | | Downtime | | |
|-----------------|-------|--------------|---------|--------|-------|-----|----------|--------|-------|
| | Demob | Test | Transit | Survey | Other | WoW | Equip. | Vessel | Other |
| Brought forward | 90 | 2 | 10 | 20.5 | | 32 | 1.5 | | |
| Today | 0 | 0 | 0 | 24 | | 0 | 0 | | |
| Total | 90 | 2 | 10 | 44.5 | | 32 | 1.5 | | |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | |
| Used today | | | |
| Total remaining | | | 2000 |

[illegible]

19/01/2015

{Date:}

Checked (Deep BV):

Witnessed (client):

Approved (client):

(Date) 23/01/15

1. The first step in the process is to identify the problem. This involves gathering information about the situation and understanding the needs of the stakeholders involved.



SURVEYOR: NPR & WAVE
VESSEL: Octans
PAGE: 1 of 2

| | |
|--|----------------------------|
| Findings of workplace risk assessment (HSE § 4.1): | <i>toolbox talk held</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> |

[illegible]

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

1050 1216

10/10/1997 15:01:26 Luchant Only systems report offshore xbs

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
P.O. Box 10000
1000 AA Amsterdam
T +31 (0)20 486 4200
info@deepbv.nl



PROJECT No: P2849
CLIENT: RVO
LOCATION: IJmuiden
DATE: 1/20/2015

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

| 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
Test | Transit | Survey | Other | WoW | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-----|----------|--------|-------|
| | | | | | | | 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):

{Date} 23/01/15
[Signature]

VERSION: 121210

(DOCUMENT) 15-01-20 Logsheet - Daily progress report offshore V&A

1. **NAME** _____
 2. **ADDRESS** _____
 3. **CITY** _____
 4. **STATE** _____
 5. **ZIP** _____
 6. **PHONE** _____
 7. **DATE** _____
 8. **SIGNATURE** _____
 9. **PRINT NAME** _____
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 215. **PRINT DATE** _____
 216. **PRINT SIGNATURE** _____
 217. **PRINT NAME** _____
 218. **PRINT ADDRESS** _____
 219. **PRINT CITY** _____
 220. **PRINT STATE** _____



PROJECT No: P2849
CLIENT: RVO
LOCATION: IJmuiden
DATE: 21-Jan-15

SURVEYOR: NPR & WVE
VESSEL: Octans
PAGE: 1 of 2

Daily checks

| | |
|--|----------------------------|
| Findings of workplace risk assessment (HSE § 4.1): | <i>toolbox talk held</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 | waiting on weather (transit to anchor area) | |
| 3:00 | arrival at anchor area | |
| | | |
| 9:00 | transit to Sloe haven for water | |
| 11:00 | arrival at Sloe haven loading water | |
| 11:30 | water loaded | |
| 12:30 | waiting on extra spares from Geomarine spares arrive | |
| 13:00 | transit to Survey area | |
| 16:30 | Arrival at Survey area (weather improved Hs <1)
toolbox talk | |
| 17:30 | deployment of sparker | |
| 18:00 | continuation of survey | |
| 22:00 | discussion with Client rep. and MC-operator about infill lines | |
| 23:59 | EOD | |

Statistics on page 2

23/01/2015

{Date}

(Date)

Checked (Deep BV):

Witnessed (client):

Approved (client)

VERSON 124210

© 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681,

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP
HYDROGRAPHY & GEOPHYSICS



PROJECT No: P2849
CLIENT: RVO
LOCATION: Ijmuiden
DATE: 1/21/2015

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

| 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, restarting at 6:00AM | | |
| Sea state | 0.8 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 | |
| Total | 320 | 57 | 15 | 0.00 |

| Hours | Mob/
Demob | Calibrations | | | | | Downtime | | |
|-----------------|---------------|--------------|---------|--------|-------|-----|----------|--------|-------|
| | | Test | Transit | Survey | Other | WoW | Equip. | Vessel | Other |
| Brought forward | 90 | 2 | 10 | 66.5 | 0 | 34 | 1.5 | | |
| Today | 0 | 0 | 0 | 7 | | 17 | 0 | | |
| Total | 90 | 2 | 10 | 73.5 | 0 | 51 | 1.5 | | |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | 8000 |
| Used today | | | |
| Total remaining | | | 8000 |

| |
|--|
| HSE observations |
| |
| |
| |
| Comments client |
| Wow in DPR = weather stand by; Wow to be determined in WPR |
| |
| Comments Deep BV |
| |
| |
| |

21/01/2015

{Date}

Checked (Deep BV):

Udo Vink

Witnessed (client):

Dirk Steurman

Approved (client):

(Signature) 23 15

VERSION: 151214

DOCUMENT: 15-01-01 Logsheet - Daily progress report offshore-1st

100-443887-1000



SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

| | |
|--|----------------------------|
| 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 | continuation of survey

contact with the office about infill lines
risk analysis map based on de ButeStack will be made
and used to determine number of infill lines and infill priority area. | |
| 14:00 | risk analysis plan send to office
contact with office and client about line plan
and duration of infill lines | |
| 16:00 | line plan send to office (due to internet problems sending postponed
till 18:00) | |
| 23:59 | EOD | |

Statistics on page 2

22/01/2015

{Date}

Date

Checked (Deep BV):

Witnessed (client):

Approved (client):

1992 1993

01-01-1990 - 15-01-97 (archivé) - Ouvrage original, non édité, des

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849
 CLIENT: RVO
 LOCATION: IJmuiden
 DATE: 1/22/2015

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

| Weather conditions | Today's progress | Project progress | Progress accepted |
|---|-------------------------------------|------------------|-------------------|
| Wind 3 bf SW
Sea state 0.9 Height sign.
Visibility >10 km | surveying in progress | 78% finished | |
| Weather forecast 24 hours | Planned activities for upcoming 24h | | |
| Wind 6 bf SW
Sea state 0.8 Sw
Visibility >10 km | continuation of survey | | |

| Total survey line km | Accepted | | Rejected | |
|----------------------|----------|----|----------|------|
| | km | % | km | % |
| Brought forward | 320 | 57 | 15 | 0.00 |
| Completed today | 120 | 21 | 0 | |
| Total | 440 | 78 | 15 | 0.00 |

| Hours | Mob/
Demob | Calibrations | | Survey | Other | WoW | Downtime | | |
|-----------------|---------------|--------------|---------|--------|-------|-----|----------|--------|-------|
| | | Test | Transit | | | | Equip. | Vessel | Other |
| Brought forward | 90 | 2 | 10 | 73.5 | 0 | 51 | 1.5 | | |
| Today | 0 | 0 | 0 | 24 | | | 0 | | |
| Total | 90 | 2 | 10 | 97.5 | 0 | 51 | 1.5 | | |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | 8000 |
| Used today | | | 1000 |
| Total remaining | | | 7000 |

| |
|------------------|
| HSE observations |
| |
| |
| |
| Comments client |
| |
| |
| |
| Comments Deep BV |
| |
| |
| |

22/01/2015

{Date}

{Date}

Checked (Deep BV):

Wouter Vester

Witnessed (client):

Dark Shinder

Approved (client):

[Signature] 23/11

VERSION: 12/12/13

DOCUMENT: 10-01-02 Logsheet - Daily progress report offshore.docx

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 SURVEYOR: NPR & WVE
 CLIENT: RVO VESSEL: Octans
 LOCATION: *Uitsluisen 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)

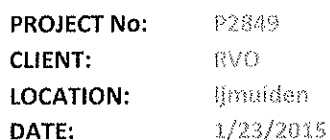
Checked (Deep BV):

Witnessed (client):

Approved (client):

27/01

3



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

| | | | | |
|---------------------------|------------------|-------------------------------------|------------------|-------------------|
| 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 | |
| Total | 530 | 95 | 15 | 0.00 |

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

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | 7000 |
| Used today | | | 1000 |
| Total remaining | | | 6000 |

| HSE observations | |
|---|---|
| <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> 1. Observation description </div> <div style="border: 1px solid black; padding: 5px;"> 2. Action plan </div> | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> 3. Date of observation </div> <div style="border: 1px solid black; padding: 5px;"> 4. Date of action plan </div> |
| Comments client | |
| <div style="border: 1px solid black; padding: 5px;"> 5. Comments client </div> | |
| Comments Deep BV | |
| <div style="border: 1px solid black; padding: 5px;"> 6. Comments Deep BV </div> | |

23/01/2015

Model

12-11-19

Checked (Deep BV):

Witnessed (client):

Approved (client):

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Section 60



PROJECT No: P2849
CLIENT: RVO
LOCATION: Vlissingen
DATE: 24-Jan-15

SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

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 | continuation of transit | |
| 4:30 | arrival at anchor area | |
| 10:00 | transit to Vlissingen port | |
| 10:30 | arrival at vlissingen port | |
| | crew change | |
| | administration QC-ing | |
| 15:00 | loading supplys | |
| | Waiting on weather | |
| 23:59 | EOD | |

Statistics on page 2

Statistics on page 2

24/03/2015

{Date}

Date: _____

Checked (Deep BV):

Witnessed (client):

Approved (client):

2



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

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|------------------|-------------------------------------|---------------------------|-------------------|
| Wind | 3 bf SW | | original scope near | |
| Sea state | 0.9 Height sign. | | finished | |
| 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 | | | | | Downtime | | |
|-----------------|-------|--------------|---------|--------|-------|-----|----------|--------|-------|
| | Demob | Test | Transit | Survey | Other | WoW | Equip. | Vessel | Other |
| Brought forward | 90 | 2 | 10 | 120.5 | 0 | 52 | 1.5 | | |
| Today | 0 | 0 | 0 | 0 | | 24 | 0 | | |
| Total | 90 | 2 | 10 | 120.5 | 0 | 76 | 1.5 | | |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | 6000 |
| Used today | | | 1000 |
| Total remaining | | | 5000 |

| HSE observations | |
|---|--|
| | |
| Comments client | |
| WoW = weather stand by; actual WoW to be determined in WPR
We understand some rejected crosslines of the 400/2000 scope
have been sailed again. Is not mentioned in DPR | |
| Comments Deep BV | |
| | |

24/03/2015

{Date}

(Date)

Checked (Deep BV):

Witnessed (client)

Approved (client):

DOI: 10.1002/for

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



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

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

| Time | Event | Survey area |
|----------------------|---------------------------|-------------|
| 0:00 | waiting on weather | |
| 10:30 | loading water | |
| 11:15 | transit to Survey area | |
| 11:30 | problem with cool-water | |
| | anchoring of vessel | |
| | problem solving | |
| 14:00 | problem solved | |
| | transit to survey area | |
| 16:30 | arrival at survey area | |
| 16:30 | toolbox talk | |
| 16:40 | deployment of sparker | |
| 17:00 | sarker in the water | |
| 17:20 | sailing test line | |
| 18:00 | start survey | |
| | rerun of exces feathering | |
| 23:59 | EOD | |
| 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
Sea state 0.9 Height sign.
Visibility >10 km | sailing re-runs | original scope near finished | |
| Weather forecast 24 hours | Planned activities for upcoming 24h | | |
| Wind 6 bf SW
Sea state 0.8 Sw
Visibility >10 km | waiting on weather window | | |

| 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/
Demob | Calibrations
Test | Transit | Survey | Other | WoW | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|------|----------|--------|-------|
| | | | | | | | 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):

Witnessed (client):

Approved (client):

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
 7. **References**
 8. **Appendix**
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 242. **Supplementary Materials**
 243. **Abbreviations**
 244. **Conflicts of Interest**
 245. **Acknowledgments**



SURVEYOR: NPR & WWE
VESSEL: Octans
PAGE: 1 of 2

| | |
|--|----------------------------|
| 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 | continuation of survey | |
| 2:00 | various re-runs
start infill lines | |
| 9:00 | QC of original scope area
line 181 x 16000 has failed | |
| 10:00 | transit to 181 x 16000 | |
| 11:00 | start line | |
| | weather deteriorates | |
| 12:45 | toolbox talk | |
| 13:30 | retrieving sparker | |
| 13:30 | transit to vissingen | |
| 17:30 | arrival at vissingen (Sloehaven) | |
| | waiting on water | |
| 23:59 | EOD | |

Statistics on page 2

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849
 CLIENT: RVO
 LOCATION: Vlissingen
 DATE: 1/26/2015

SURVEYOR: NPR & WWE
 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 | 1.1 Height sign. | | | |
| Visibility | >10 km | | | |
| Weather forecast 24 hours | | Planned activities for upcoming 24h | | |
| Wind | 6 bf SW | waiting on weather window | | |
| Sea state | 1.1 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 | | | | | Downtime | | |
|-----------------|-------|--------------|---------|--------|-------|------|----------|--------|-------|
| | Demob | Test | Transit | Survey | Other | WoW | Equip. | Vessel | Other |
| Brought forward | 90 | 2 | 10 | 126.5 | 0 | 92.5 | 1.5 | 2.5 | |
| Today | 0 | 0 | 0 | 13.5 | | 10.5 | 0 | | |
| Total | 90 | 2 | 10 | 140 | 0 | 103 | 1.5 | 2.5 | |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | 6000 |
| Used today | | | 1000 |
| Total remaining | | | 5000 |

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

26/01/2015

(Date)

Checked (Deep BV):

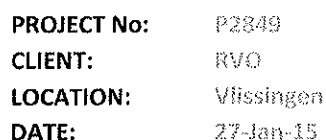
Witnessed (client):

Approved (client):

8/20/2015

11/2/2015

Abstract



SURVEYOR: NPR & W/WE
VESSEL: Octans
PAGE: 1 of 2

| | |
|--|----------------------------|
| 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> |

[illegible]

27/03/2015

{Date}

附錄

Checked (Deep BV):

Witnessed (client):

Approved (client):

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

1. *How do you think about the current situation of the Chinese economy?*

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849 SURVEYOR: NPR & WVE
 CLIENT: RVO VESSEL: Octans
 LOCATION: Vlissingen PAGE: 2 of 2
 DATE: 1/27/2015

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|------------------|-------------------------------------|------------------|-------------------|
| Wind | 5 bf SW | sailing re-runs | original scope | |
| Sea state | 1.1 Height sign. | sail infill lines | finished | |
| Visibility | >10 km | infill lines near finished | | |
| Weather forecast 24 hours | | Planned activities for upcoming 24h | | |
| Wind | 6 bf SW | demobilisation | | |
| Sea state | 1.1 Sw | | | |
| Visibility | >10 km | | | |

| Total survey line km | Accepted | | Rejected | |
|----------------------|----------|----|----------|------|
| | km | % | km | % |
| Brought forward | 560 | 95 | 45 | 5.00 |
| Completed today | 0 | 4 | 0 | |
| Total | 560 | 99 | 45 | 5.00 |

| Hours | Mob/
Demob | Calibrations | | | | | Downtime | | |
|-----------------|---------------|--------------|---------|--------|-------|-------|----------|--------|-------|
| | | Test | Transit | Survey | Other | WoW | Equip. | Vessel | Other |
| Brought forward | 90 | 2 | 10 | 140 | 0 | 103 | 1.5 | 2.5 | |
| Today | 0 | 0 | 0 | 11.5 | | 12.5 | 0 | | |
| Total | 90 | 2 | 10 | 151.5 | 0 | 115.5 | 1.5 | 2.5 | |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | 6000 |
| Used today | | | 1000 |
| Total remaining | | | 5000 |

| |
|--|
| HSE observations |
| |
| |
| Comments client |
| Wow = weather standby; Wow to be determined in WPR's |
| |
| Comments Deep BV |
| |
| |
| |

27/01/2015

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

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



SURVEYOR: NPR & WWE

VESSEL: Octans

PAGE: 1 of 2

| | |
|--|----------------------------|
| 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> |

[illegible]

{Date}

Arthur Vinton

Dick Shindler

{Date}

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
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1021 KN Amsterdam
T: +31-20-6343676
WWW.DEEPBV.NL



PROJECT No: P2849
CLIENT: RVO
LOCATION: Vlissingen
DATE: 1/28/2015

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

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|------------------|-------------------------------------|-------------------------|-------------------|
| Wind | 5 bf SW | sail infill lines | original scope finished | |
| Sea state | 1.1 Height sign. | infill lines finished | infill lines finished | |
| Visibility | >10 km | Demob. Finished | Demob. Finished | |
| Weather forecast 24 hours | | Planned activities for upcoming 24h | | |
| Wind | n.a. | start processing of data | | |
| Sea state | n.a. | | | |
| Visibility | n.a. | | | |

| Total survey line km | Accepted | | Rejected | |
|----------------------|----------|-----|----------|------|
| | km | % | km | % |
| Brought forward | 560 | 99 | 45 | 5.00 |
| Completed today | 0 | 1 | 0 | |
| Total | 560 | 100 | 45 | 5.00 |

| Hours | Mob/
Demob | Calibrations
Test | Transit | Survey | Other | WoW | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | Equip. | Vessel | Other |
| Brought forward | 90 | 2 | 10 | 151.5 | 0 | 115.5 | 1.5 | 2.5 | |
| Today | 12 | 0 | 0 | 3 | | 2 | 0 | | |
| Total | 102 | 2 | 10 | 154.5 | 0 | 117.5 | 1.5 | 2.5 | |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | 5000 |
| Used today | | | 1000 |
| Total remaining | | | 4000 |

| HSE observations |
|---|
| |
| |
| |
| |
| Comments client |
| 'WoW = weather standby, WoW to be determined in WPR's |
| |
| |
| |
| Comments Deep BV |
| |
| |
| |
| |
| |

28/01/2015

{Date}

{Date}

Checked (Deep BV):

[Signature]

Witnessed (client):

{SIGNATURE}

Approved (client):

{SIGNATURE}

VERSION: 121218

DOCUMENT: 15-01-28 Logsheet - Daily progress report offshore.xlsx

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

Project No. P2849
Client: Rijksoverheid
Location: Den Helder
Date: 23-01-2015



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke
CLIENT: Rijksoverheid 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):

Witnessed (client):

Approved (client):

DEEP BV - 100%

DEEP BV - 100% - 100% - 100% - 100% - 100% - 100% - 100% - 100% - 100% - 100%

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:** 2 of 2
DATE: 23-1-2015

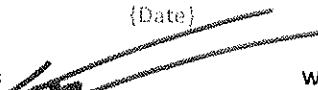
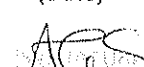
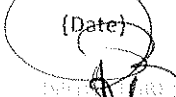
| Weather conditions | | Today's progress | Project progress | Progress accepted | |
|---------------------------|------------------|-------------------------------------|-------------------|-------------------|--|
| Wind | SSW 2 <-> 11 m/s | 25% calibration | 100% mobilisation | | |
| Sea state | 0.3 <-> 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/
Demob | Calibrations
Test | Transit | Survey | Other | WoW | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-----|----------|--------|-------|
| | | | | | | | 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
Boulevard de de Boer 10
1117 CA Schiedamschen
T: +31 (0)20 485 3333
E: 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):

Witnessed (client):

Approved (client):

VERSION: 1.0/0.0

BRANDWIJF: RIJSDIENST VOOR ONDERNEMEND LOGSHEET - DAILY PROGRESS REPORT OFFSHORE - PAGE 1 OF 2

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

Project
Name: P2849
Client: Rijkdienst voor Ondernemend
Location: Den Helder
Date: 24-1-2015



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

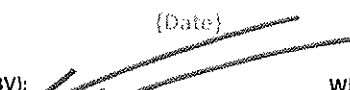
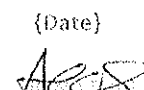

| Weather conditions | | Today's progress | Project progress | Progress accepted | |
|---------------------------|----------------|---|-------------------|-------------------|--|
| Wind | NW 9<-> 12 m/s | 20% calibration | 100% mobilisation | | |
| Sea state | 1.8 <-> 2.3 m | | 95% calibration | | |
| 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/
Demob | Calibrations
Test | Transit | Survey | Other | WoW | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-----|----------|--------|-------|
| | | | | | | | 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

1



| | | | |
|--------------------|------------------------------|---------------------|--------------------|
| 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

Statistics on page 2

Checked (Deep BV):

Witnessed (client):

Approved (client):

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849
 CLIENT: Rijksdienst voor Ondernemend
 LOCATION: Den Helder
 DATE: 25-1-2015

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

| 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/
Demob | Calibrations
Test | Transit | Survey | Other | WoW | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-----|----------|--------|-------|
| | | | | | | | 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):

Witnessed (client):

Approved (client):

VERSION: 1.0.0

DOCUMENT: A-0001 NEW DEEP DAILY PROGRESS REPORT FILE V01 F / 1.0

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
P.O. Box 1000
1000 AA Amsterdam
T +31 (0)20 611 1111
F +31 (0)20 611 1112
E info@deepbv.nl



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

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|----------------|-------------------------------------|-------------------|-------------------|
| Wind | NW 9<-> 11 m/s | 2 % WFS 1 | 100% mobilisation | |
| Sea state | 1.0 <-> 1.7 m | 0 % WFS 2 | 100% calibration | |
| Visibility | md/gd | | | |
| Weather forecast 24 hours | | Planned activities for upcoming 24h | | |
| Wind | W 7<-> 10 m/s | Survey WFS 1 and 2 | | |
| 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/
Demob | Calibrations | Downtime | | | | | | |
|-----------------|---------------|--------------|----------|--------|-------|-------|--------|--------|-------|
| | | Test | Transit | Survey | Other | WoW | Equip. | Vessel | Other |
| Brought forward | 35.9 | 40.65 | 22.45 | 0 | 0 | 0 | 0 | 12.3 | 0 |
| Today | 0 | 0 | 7.25 | 5.5 | 0 | 10.75 | 0 | 0 | 0 |
| Total | 35.9 | 40.65 | 29.7 | 5.5 | 0 | 10.75 | 0 | 12.3 | 0 |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | | | |
| Used today | | | |
| Total remaining | | | |

| HSE observations |
|--|
| Sea state at the time of arrival found not suitable to deploy sidescan sonar and Minibat from back deck. Decided to wait for weather improvements. |
| Comments client |
| Awaiting the report but all verification, trials, tests and calibrations were successfully performed and witnessed. The team completed all initial pre-requisite verifications in IJmuiden at 15:02 on the 25th Jan prior to slow transit south in poor weather to the site. The Breaker reached site at 03:15 hours, but could not initially work due to poor sea state conditions. Survey deployments and operations started at 03:49 Hours. <i>Wow = Weather stand by; actual</i> |
| Comments Deep BV |
| <i>Wow to be determined in WPR</i>
Breaker operational starting 25-01-2015 15:02. Start survey WFS 1 and 2. |

Checked (Deep BV): *[Signature]* (Date) _____ Witnessed (client): *[Signature]* (Date) _____ Approved (client): *[Signature]* (Date) *24-01-15*

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 219. **PRINT CITY** _____
 220. **PRINT STATE** _____



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

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

| 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 | |

Witnessed (client):

Approved (client):



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

| |
|--|
| HSE observations |
| <i>Toolbox talks have been performed and full/appropriate work PPE worn.</i> |
| Comments client |
| <i>Given the marginal sea state conditions and in particular the NW swell and roll, the data quality was acceptable.</i> |
| Comments Deep BV |
| <i>Survey in WFS1.</i> |

(Date) 2/20/18
Approved (client):

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



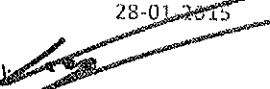
PROJECT No: P2849
CLIENT: RVO
LOCATION: Den Helder
DATE: 28-1-2015

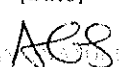
PARTY CHIEF: Koen van het Hekke
VESSEL: BREAKER
PAGE: 1 of 2


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: | Overlap okay. |

| 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 / surveying area WFS1 | |
| 0:35 | End of surveyline 10-1000 / recovery of SSS and maggy
Filling in gaps in SBP data | |
| 1:34 | Stopped survey because of seastate / sailing to Vlissingen. Start WS
- Back-up of recorded surveydata
- Exporting correct Magnetometerdata from surveyfiles
- Validation of multibeamdata | |
| 6:15 | Back at vlissingen
Continue weather standby. | |
| 23:59 | EOD | |
| Statistics on page 2 | | |

Checked (Deep BV):  28-01-2015 {Date}

Witnessed (client):  {Date}

Approved (client):  {Date}

VERSION: 1.0 (13)
AN, A

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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|------|----------|--------|-------|
| | | | | | | | 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

Hydrography & Geophysics
Bathymetry & Seismicity
Marine Geology & Geophysics
Marine Biology & Ecology
Marine Mammals & Fisheries
Marine Pollution & Conservation



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

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

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):

Witnessed (client):

{Date}

AGS

Approved (client):

{Date}

KVH 11/15

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 | | | |

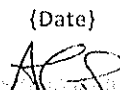
| Total survey line km | Accepted | | Rejected | |
|----------------------|----------|---|----------|------|
| | km | % | km | % |
| Brought forward | 0 | 0 | 0 | 0.00 |
| Completed today | 0 | 0 | 0 | 0.00 |
| Total | 0 | 0 | 0 | 0.00 |


| Hours | Mob/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|------|----------|--------|-------|
| | | | | | | | 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}

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

The company
has been established in 1998
and is now a part of the
Hydrography & Geophysics
division of the
Dutch Coast Guard.



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

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

Daily checks

| | |
|--|------------------------------|
| Findings of workplace risk assessment (HSE § 4.1): | <i>No vessel activities.</i> |
| Results height check (waterline or benchmark): | <i>na</i> |
| Averaged sound velocity: | <i>na</i> |
| Results absolute depth check on known object: | <i>na</i> |
| Results overlap old survey data: | <i>na</i> |

| 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. | |
| | Mobilisation of personnel to MV Breaker. | |
| 23:59 | EOD | |
| Statistics on page 2 | | |

Checked (Deep BV):

30-01-2015

Witnessed (client):

{Date}

AGS

Approved (client):

{Date}

11/11

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

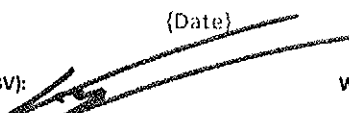
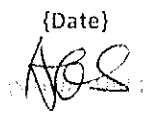

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|-----------------|-------------------------------------|--------------------|-------------------|
| Wind | W 7 <-> 10 m/s | 0 % WFS 1 | 100% mob and calib | |
| Sea state | 1.1 <-> 1.7 m | 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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|------|----------|--------|-------|
| | | | | | | | 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

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

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



PROJECT No: P2849
CLIENT: RVO
LOCATION: Den Helder
DATE: 31-1-2015

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

Daily checks

| | |
|--|------------------|
| Findings of workplace risk assessment (HSE § 4.1): | <i>All okay.</i> |
| Results height check (waterline or benchmark): | <i>na</i> |
| Averaged sound velocity: | <i>na</i> |
| Results absolute depth check on known object: | <i>na</i> |
| Results overlap old survey data: | <i>na</i> |

[illegible]

Statistics on page 2

~~31-01-2015~~

{Date}

Checked {Deep BV}:

Witnessed (client):

(SIGNATURE)

Approved (client):

{Date}

~~SECRET~~

VERSION: 121218

DOCUMENT: 20150131_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
CLIENT: RVO
LOCATION: Den Helder
DATE: 31-1-2015

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

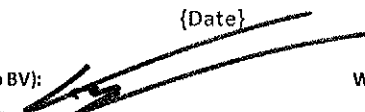

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|------------------|-------------------------------------|--------------------|-------------------|
| Wind | NW 7 <-> 10 m/s | 0 % WFS 1 | 100% mob and calib | |
| Sea state | 1.1 <-> 1.7 m | 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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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}

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

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

| | |
|--|-----------|
| Findings of workplace risk assessment (HSE § 4.1): | <i>na</i> |
| Results height check (waterline or benchmark): | <i>na</i> |
| Averaged sound velocity: | <i>na</i> |
| Results absolute depth check on known object: | <i>na</i> |
| Results overlap old survey data: | <i>na</i> |

[illegible]

~~01-02-2015~~

{Date}

Checked (Deep BV):

Witnessed (client):

{SIGNATURE}

Approved (client):

{Date}

SIGNATURE

VERSION: 121218

DOCUMENT: 20150201_SDB DEEP DAILY PROGRESS REPORT KHE_V01_F.xl/sx

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

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



PROJECT No: P2849
CLIENT: RVO
LOCATION: Den Helder
DATE: 1-2-2015

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

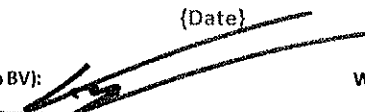

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|------------------|-------------------------------------|--------------------|-------------------|
| Wind | NW 11 <-> 12 m/s | 0 % WFS 1 | 100% mob and calib | |
| Sea state | 2.2 <-> 2.6 m | 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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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. |
| <i>Signature client REX missing</i> |
| Comments Deep BV |
| |

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

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

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

| | |
|--|-----------------------------------|
| Findings of workplace risk assessment (HSE § 4.1): | <i>Vessel induction JGR - PPE</i> |
| Results height check (waterline or benchmark): | <i>na</i> |
| Averaged sound velocity: | <i>na</i> |
| Results absolute depth check on known object: | <i>na</i> |
| Results overlap old survey data: | <i>na</i> |

[illegible]

02-02-2015

{Date}

{Date}

Checked (Deep BV)

Witnessed (client):

{SIGNATURE}

Approved {client}:

STENALIN

VERSION: 121218
#N/A

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

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

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

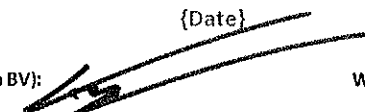
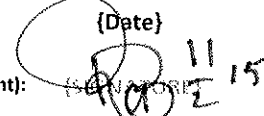
| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|-----------------|-------------------------------------|--------------------|-------------------|
| Wind | NW 8 <-> 12 m/s | 0 % WFS 1 | 100% mob and calib | |
| Sea state | 1.6 <-> 2.7 m | 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 <-> 9 m/s | Survey WFS 1 | | |
| Sea state | 1.1 <-> 1.5 m | | | |
| 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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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}

VERSION: 121215
#N/A

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
Johan van Hasseltweg 39D
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WWW.DEEPBV.NL



PROJECT No: P2849
CLIENT: RVO
LOCATION: Den Helder
DATE: 3-2-2015

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: | 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
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1021 KN Amsterdam
T: +31-20-6343676
WWW.DEEPBV.NL



PROJECT No: P2849
CLIENT: RVO
LOCATION: Den Helder
DATE: 3-2-2015

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

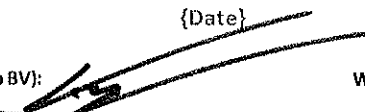
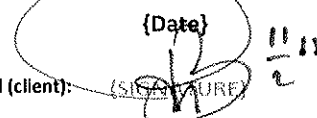
| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|--------------|-------------------------------------|--------------------|-------------------|
| Wind | NE 3<-> 9m/s | 17.9 % WFS 1 | 100% mob and calib | |
| Sea state | 1.1 <-> 1.5m | 0 % 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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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):  {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
CLIENT: RVO
LOCATION: Den Helder
DATE: 4-2-2015

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 | |
| 0:58 | 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}

{SIGNATURE}

VERSION: 121218

DOCUMENT: 20150204_SDB_DEEP_DAILY PROGRESS REPORT_KHE_V01_F.xlsx

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
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PROJECT No: P2849
CLIENT: RVO
LOCATION: Den Helder
DATE: 4-2-2015

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

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|---------------|-------------------------------------|--------------------|-------------------|
| Wind | NE 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):

(Signature)

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
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WWW.DEEP.BV.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}

{SIGNATURE}

VERSION: 121218

DOCUMENT: 20150205_SDB_DEEP_DAILY PROGRESS REPORT_KHE_V01_F.xlsx

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

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

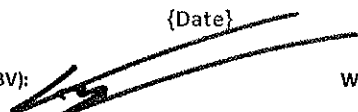
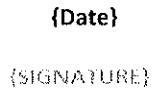
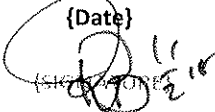
| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|-----------------|-------------------------------------|--------------------|-------------------|
| Wind | NE 3<-> 11m/s | 9.53 % WFS 1 | 100% mob and calib | |
| Sea state | 0.9 <-> 1.8m | 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 |
| 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 | 59.75 | 0 | 165.5 | 0 | 12.3 | 0 |
| Today | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 |
| Total | 35.9 | 40.65 | 44.55 | 83.75 | 0 | 165.5 | 0 | 12.3 | 0 |

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

| 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):  {Date}
 Approved (client):  {Date}

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP
Hydrography & Geophysics
B.V.



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

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

Daily checks

Findings of workplace risk assessment (HSE § 4.1): 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 - DBR
Danielle Brandwijk - SBR Sietse Bruinsma - JGA Jan Graven | |
| 0:00 | Start of day / continuing weather standby. | |
| 23:59 | EOD / continue weather standby. | |
| Statistics on page 2 | | |

Checked (Deep BV):

06-02-2015

Witnessed (client):

{Date}

Approved (client):

{Date}

VERSION 121215

DOCUMENT 20160206-008 DEEP DAILY PROGRESS REPORT KHE V01 F-01

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP
HYDROGRAPHY & GEOPHYSICS
B.V.



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

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

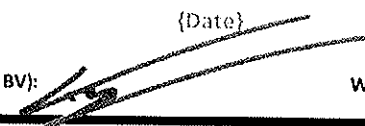

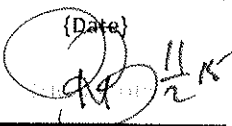
| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|----------------|-------------------------------------|--------------------|-------------------|
| Wind | NE 12<-> 14m/s | 0 % WFS 1 | 100% mob and calib | |
| Sea state | 1.9 <-> 2.3m | 0 % 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 | | | |


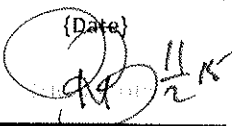
| Total survey line km | Accepted | | Rejected | |
|----------------------|----------|-------|----------|-----|
| | km | % | km | % |
| Brought forward | 489 | 29.9% | 0 | 0.0 |
| Completed today | 0 | 0.0% | 0 | 0.0 |
| Total | 489 | 29.9% | 0.0 | 0.0 |

| Hours | Mob/
Demob | Calibrations | | | | | Downtime | | |
|-----------------|---------------|--------------|---------|--------|-------|-------|----------|--------|-------|
| | | Test | Transit | Survey | Other | WS | 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 | | |

| |
|--|
| HSE observations |
| |
| Comments client |
| 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 neccessaty but the results so far look encouraging. |
| Comments Deep BV |
| |

Checked (Deep BV):  (Date)  (Date)  (Date)

Witnessed (client):  Approved (client): 

VERSION 1.1
DOCUMENT 20100203 SOB DEEP DAILY PROGRESS REPORT AKE VOL 1 F.XIV

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
Wijk aan Zee, Nederland
Postbus 1000
1700 BA Wijk aan Zee
T +31 (0)223 611 111
E info@deep.nl
www.deep.nl



PROJECT No: P2849 PARTY CHIEF: Koen van het Hekke
CLIENT: RVO VESSEL: BREAKER
LOCATION: Den Helder PAGE: 1 of 2
DATE: 7-2-2015

Daily checks

Findings of workplace risk assessment (HSE § 4.1): PPE used. All OK
Results height check (waterline or benchmark): na
Averaged sound velocity: 1477.87 m/s
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 | |
| 0:00 | Start of day | |
| 0:00 | Survey crew shift. SBR-JGR finished <--> WVI-BMO start | |
| 0:05 | Departure from Vlissingen | |
| 5:10 | Arrival in survey area - sound velocity profile measured (average 1477.87 m/s) | |
| 5:32 | Sidescan and magnetometer in the water. | |
| 5:45 | Start survey operations at line 58-5800 | |
| 6:41 | Start survey Line: 59-5900 | WFS 1 |
| 7:36 | Start survey Line: 60-6000 | WFS 1 |
| 8:29 | Start survey Line: 61-6100 | WFS 1 |
| 9:47 | Start survey Line: 62-6200 | WFS 1 |
| 10:35 | Start survey Line: 63-6300 | WFS 1 |
| 11:29 | Start survey Line: 64-6400 | WFS 1 |
| 12:00 | Survey crew shift. WVI-BMO finished <--> SBR-JGR start | |
| 12:30 | Start survey Line: 65-6500 | WFS 1 |
| 13:24 | Start survey Line: 66-6600 | WFS 1 - WFS 2 |
| 14:26 | Start survey Line: 67-6700 | WFS 1 - WFS 2 |
| 15:32 | Start survey Line: 68-6800 | WFS 1 - WFS 2 |
| 16:28 | Equipment recovery. | WFS 1 - WFS 2 |
| 16:35 | Sound velocity profile measured (average 1477.87 m/s) | |
| 16:40 | Start transit to Vlissingen. | |
| 16:40 | Start weather standby. | |
| 21:00 | Arrival in Vlissingen Port. Continue weather standby. | |
| | Demobilize personnel: JGA - KHE - SBR | |
| 23:59 | EOD / continue weather standby. | |
| | Statistics on page 2 | |

Checked (Deep BV):

Witnessed (client):

Approved (client):

VERSION: 02/17/15
#N/A

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
Boulevard de l'Industrie 10
1105 CA Amsterdam, The Netherlands
T +31 (0)20 486 1125
F +31 (0)20 486 1126
info@deepbv.nl



PROJECT No: P2849
CLIENT: RVO
LOCATION: Den Helder
DATE: 7-2-2015

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

| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|-----------------|-------------------------------------|--------------------|-------------------|
| Wind | N-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/
Demob | Calibrations | | | | | Downtime | | |
|-----------------|---------------|--------------|---------|--------|-------|-------|----------|--------|-------|
| | | Test | Transit | Survey | Other | WS | 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

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE

DEEP BV
Dijksterhuis 10, 1017 CA Amsterdam
T +31 (0)20 674 1234
E info@deepbv.nl
www.deepbv.nl



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

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

Daily checks

| | |
|--|---|
| Findings of workplace risk assessment (HSE § 4.1): | All OK. No survey activities or 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 -
SBR Sietse Bruinsma - JGA Jan Graven | |
| 0:00 | Start of day
Continue weather standby. | |
| 17:00 | Mobilize personnel: JGA - KHE- SBR
JGA - SBR start shift. | |
| 22:04 | Departure from Vlissingen
Start transit. | |
| 23:59 | EOD / continue transit | |
| Statistics on page 2 | | |

08-02-2015

{Date}

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

VERSION 121218

DOCUMENT 2014/06 SDE DEEP DAILY PROGRESS REPORT KHE V01 EXIS

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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-----|----------|--------|-------|
| | | | | | | | 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 |
| |

{Date}

Checked (Deep BV):

{Date}

Witnessed (client):

{Date}

Approved (client):

VERSION: 1.0
 DOCUMENT: 20100101-SDS-DEEP-DAILY PROGRESS REPORT (REV. 001) F-4

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 | | |

09-02-2015

{Date}

{Date}

Checked (Deep BV):

Witnessed (client):

Approved (client):

DEEP BV - 10-01-15

D:\PROJECTEN\2014\1501 DEEP DAILY PROGRESS REPORT KHE 10-01-15

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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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
CLIENT: RVO
LOCATION: Den Helder
DATE: 10-2-2015

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: 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):

Witnessed (client):

Approved (client):

VERSION: 1.0

DATE OF ISSUE: 10-02-2015

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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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}

VERSION: 1.0
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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: 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: | 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 Donille 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 measurement. Average: 1474.46 | |
| 23:25 | Start survey line: 122-12200 | WFS 1-2 |
| 23:59 | Continue survey operation. | |
| Statistics on page 2 | | |

11-02-2015
Checked (Deep BV):

{Date}
Witnessed (client):

{Date}
Approved (client):

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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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): na
 Averaged sound velocity: 1474.21
 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 | |
| 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):

VERSION

01-01-2015 1.0.0.0

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

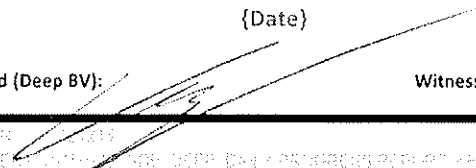
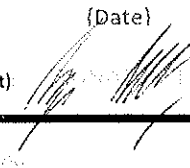
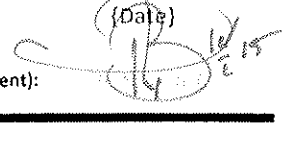
| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|----------------|-------------------------------------|--------------------|-------------------|
| Wind | SSW 2<-> 5m/s | 3 % WFS 1 | 100% mob and calib | |
| Sea state | 0.1<-> 0.3m | 22 % 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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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
 CLIENT: RVO
 LOCATION: WFZ Borssele
 DATE: 13-2-2015

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: | 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):

VERSION: 1.0/1.1

OPDRACHT: 13-02-2015. REP DEEP DAILY PROGRESS REPORT AND LOGSHEET

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 |
| Total | 1429 | 87.2% | 0.0 | 0.0 |

| Hours | Mob/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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 |
| Total | 35.9 | 40.65 | 67.3 | 202.25 | 0 | 232.5 | 0 | 12.3 | 1.25 |

| Consumption | Fuel | Lubes | Water |
|-----------------|------|-------|-------|
| Brought forward | 6400 | | |
| Used today | 1400 | | |
| Total remaining | 5000 | | |

| |
|---|
| 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
CLIENT: RVO
LOCATION: WFZ Borssele
DATE: 14-2-2015

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: | 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):

Witnessed (client):

Approved (client):

Version: 0.0.0

Project: WFZ Borssele - DEEP Daily Progress Report 14-2-2015

FIELD OPERATIONS

LOGSHEET - DAILY PROGRESS REPORT OFFSHORE



PROJECT No: P2849
CLIENT: RVO
LOCATION: WFZ Borssele
DATE: 14-2-2015

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

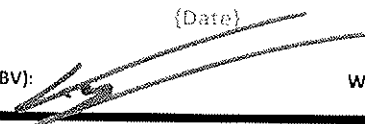


| Weather conditions | | Today's progress | Project progress | Progress accepted |
|---------------------------|-----------------|-------------------------------------|--------------------|-------------------|
| Wind | SSE 7<-> 12m/s | 0 % WFS 1 | 100% mob and calib | |
| Sea state | 0.6<-> 1.3m | 21 % 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/
Demob | Calibrations
Test | Transit | Survey | Other | WS | Downtime | | |
|-----------------|---------------|----------------------|---------|--------|-------|-------|----------|--------|-------|
| | | | | | | | 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) _____

VERSION 1.0

DEEP - DAILY PROGRESS REPORT OFFSHORE

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: 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: 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 Innomarline | 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):

VERSION: 1.0/1.0

TO: CLIENT / FROM: DEEP / DATE: 15-02-2015 / TIME: 11:00

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 | | Transit | Survey | Other | WS | Downtime | | |
|-----------------|-------|--------------|------|---------|--------|-------|----|----------|--------|-------|
| | Demob | Test | | | | | | 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 is 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. Heuvel
Checked (Deep BV):

(Date)
Witnessed (client):

(Date)
Approved (client):