


PL685 - Laushornet

# Final Well Report Exploration Section B Drilling





35/4-3 and 35/4-U-2

Deepsea Nordkapp



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# Final Well Report - Laushornet 35/4-U-2 and 35/4-3

Approvals according to Aker BP D&W Document Approval Matrix					
		Role	Name	Signature	Date
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# 1 Executive summary

The Laushornet 35/4-3 well was drilled by Aker BP as operator on behalf of the PL685 Licence Group. The 35/4-3 well was an HPHT exploration well drilled. The well was drilled, appraised, plugged back and abandoned with the Odfjell Deepsea Nordkapp semi-submersible drilling unit in April-May 2022.

## 1.1 General

The Laushornet prospect is located in PL685 (North Viking Graben) in block 35/4 (Fig. 1.1). The permit was awarded in 8<sup>th</sup> February 2013 (APA 2012 round) and partners are Aker BP (Operator 40%), Wellesley (40%) and Petoro (20%). The license agreed to drill the Laushornet prospect in May 2018.

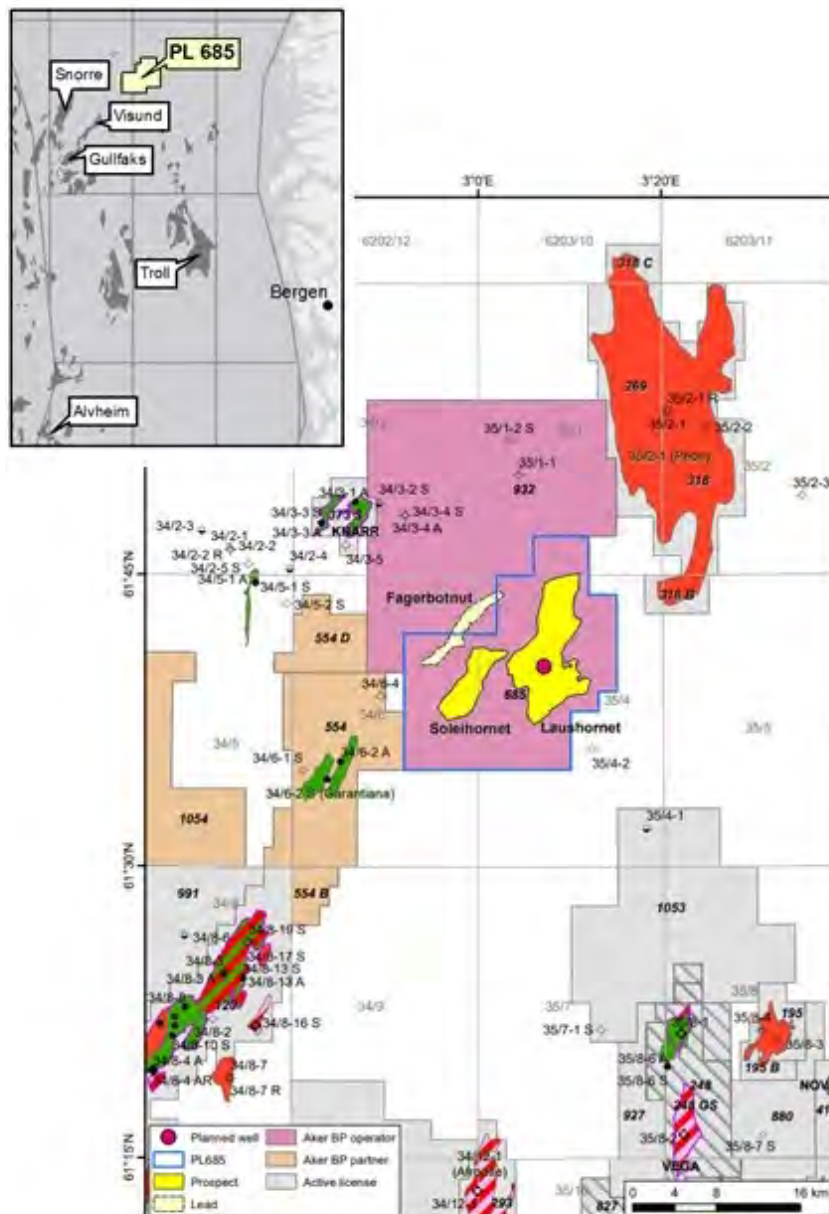



Fig. 1.1 Well Location

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The 35/4-3 Laushornet exploration well was drilled to explore the hydrocarbon potential and acquire data from the Lower Jurassic Cook formation. The 35/4-3 well had a frontier character to it, given its location in a more axial location in the North Viking Graben and relatively far away from previously drilled wells and the burial depth of the reservoir.

Deepsea Nordkapp left the Hanz location on 4<sup>th</sup> April 2022 at 01:30 and entered the Laushornet 500 m zone on 6<sup>th</sup> April 2022 at 07:00. The 35/4-U-2 shallow gas pilot hole was spudded on 7<sup>th</sup> April 2022 at 03:30. No shallow gas or shallow water flow was encountered at the pilot hole location. The pilot hole was plugged back and DSN moved over the Laushornet PWL.

The 35/4-3 exploration well was spudded on 8<sup>th</sup> April 2022 at 04:15. The well was drilled according to plan with a 36" x 30" conductor at 505.13 m MD RKB, a 20" surface casing at 1156.21 m MD RKB, a 13 5/8" intermediate casing at 3081.28 m MD RKB and a 9 7/8" production casing set at 4140.62 m MD RKB. An 8 1/2" reservoir section was drilled to evaluate the Cook reservoir. Wireline logging was acquired across the Cook Formation, around 93 m thick, of which 67 m was sandstone with moderate to good reservoir quality. Three wireline runs, including petrophysical logs and pressure points, VSP and sidewall coring, were run to determine the hydrocarbon potential and reservoir properties in the Cook formation. No hydrocarbons were encountered. Reservoir pressure was measured at 912 bar / 2.00 sge with a maximum temperature recorded at 157 °C (HPHT classification).

The open hole was plugged back with three cement plugs. The cement plug from open hole to inside the 9 7/8" casing was verified as barrier against the Cook reservoir by being dressed off, tagged and pressure tested. The 9 7/8" casing was cut and pulled at 1639.1 m MD RKB. The 13 5/8" casing was cut and pulled at 1050.1 m MD RKB. A cement plug was placed from 1040 to 940 m MD RKB inside the 20" surface casing on top of a verified 20" EZSV plug. The BOP was disconnected and pulled to surface. A Netguard was installed on the wellhead prior to demobilise the rig (the wellhead will be cut in a rig chase campaign).

Deepsea Nordkapp left the 500 m zone at Laushornet location on 17<sup>th</sup> May 2022 at 16:15.


## 1.2 Highlights

### **35/4-U-2 shallow gas pilot hole:**

- All objectives achieved
- No shallow hazards encountered
- Competent formation for surface casing
- Re-use the 8 1/2" pilot hole BHA from Hanz
- Excellent ROP in pilot hole – new record in area (70m/hr)
- Data acquired as per plan

### **35/4-3 Laushornet:**

- Well design – setting depth of different casing strings vs uncertainty in PPF
- Well trajectory enabled drilling of a "simple" HPHT well – vertical, down on the structure and away from major geological hazards
- Reservoir drill-in procedure – no measurable influx taken when drilling statically underbalanced into a permeable sand
- Excellent communication in team during operations – Alliance and EXPRES
- Ability to turn rig during running of conductor – DSN on DP during top holes

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- LPWHH set with less than 1°
- Efficient Top Hole sections ahead of AFE
- 20" surface casing cemented with 1270 lpm for the 1<sup>st</sup> time on DSN (1270 lpm is the maximum flowrate that can be achieved on DSN due to 2" iron on cement unit)
- Efficient 16 1/2" section drilled in one run – one of the best runs in the Tampen area
- Efficient 12 1/4" section drilled in one run – better than offset wells
- Textbook running and cementing of the 9 7/8" casing – no losses
- Updated HPHT procedures worked as intended – good improvements/learnings from Grefsenkollen incorporated into procedures
- 8 1/2" HPHT section performed efficiently and ahead of AFE with all tools operating throughout the section
- BaraECD 3.3 used successfully for HPHT section
- Stripping annular-ram successfully despite hard banding on 5" DP
- Reduction of BSS personnel due to use of remote system (16 1/2" section: from 10 to 8 engineers, 12 1/4" section: from 8 to 6 engineers and 8 1/2" section: from 6 to 4 engineers)
- Quick and efficient P&A ahead of AFE
- DSN batch mixer used for the 1<sup>st</sup> time on the open hole P&A plugs due to high density slurry – slurry mixed and pumped at 2.10 sg with success
- Entire operation of pressure testing 20" EZSV, mixing and spotting the open hole to surface cement plug remotely controlled from the Aker BP OCC in Jättåvågen


## 1.3 Lowlights

### **35/4-U-2 shallow gas pilot hole:**

- None

### **35/4-3 Laushornet:**

- Clean up wellhead after drilling the 26" section due to significant amount of cuttings around the LPWHH (covering ports) - 5.25 hrs NPT
- Used more lubrication mud than required due to manual operations of lubrication pump
- iBOP leaking on pressure test - 2 hrs NPT
- High attenuation on wired jar stand - 1 hr NPT
- Losses encountered while running / cementing 13 5/8" intermediate casing
- Failed upper and lower annular preventers pressure test due to tear in WBRRT seal - 3.5 hrs NPT
- Unable to release ACME thread on EDPHOT for BSR pressure test - 11.25 hrs NPT
- Missing buffered ballooning data after connection – fingerprinting
- Unable to strip 5" DP through annular
- Vippeslips frame did not fit the rotary table (8 1/2" section – 5" DP)
- Spent many hours drilling out cementing plugs
- Well control incident - 60.75 hrs NPT
- Unable to communicate with LWD tools - 3.5 hrs
- Lost Communication with seismic guns - 2.25 hrs NPT
- Issues with top drive elevator - 2 hrs NPT
- Broken roller on BOP trolley - 6 hrs NPT

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- Geochemical sampling failure - tins were not filled according to process (not enough head room was left in the tins for gas accumulation)


## 1.4 Opportunities

### **35/4-U-2 shallow gas pilot hole:**

- Evaluate to drill pilot hole in low boulder risk area with PDC bit (better ROP on Hanz pilot hole)
- Continue to displace well before cementing
- Consider to update procedure to start cementing based on automatic density measurement, instead of manual measurement
- Consider to skip pilot hole and drill with RMR in areas with low shallow gas risk

### **35/4-3 Laushornet:**

- Consider using a cuttings exhaust system to blow cuttings away from wellhead
- For surface casing, consider heavier cement than 1.51 sg used in operation to avoid u-tube situation in water depth similar to Laushornet
- Consider to update OBM checklist
- Consider to standardize LOT plots
- Consider to reduce slightly mud weight in the 16 1/2" section
- Include sufficient weight below plug (20-30 MT) when using EDPHOT to test BOP pipe rams – done on Storjo with success (following Laushornet experience)
- Consider to update fingerprinting data relevant to temperature every 300 to 400 m (flowcheck and PBU)
- Update L4 procedure for HPHT drilling - done before Storjo exploration well (see [5 References](#))
- All BHA/bit packages sent offshore should include a bit breaker
- Consider to run 4" open ended stinger without floats for P&A
- HPHT cement plug – consider to reduce % excess or pump and pull

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## 2 General information and results

### 2.1 HSE, well objectives and results

The Laushornet 35/4-3 exploration well was delivered with extremely high efficiency and with no accidents and no harm to people or the environment.

Table 2.1 Well KPI and Targets Summary

	KPI	Target	Result
HSE	Zero HSE incident	• Zero HSE incidents	• 0
	HIPO	• Zero HIPO	• 0
	Dropped object	• Zero dropped object	• 0
	Well control incident	• Zero well control incidents	• 0
Quality	Data gathering	• As described in Data Acquisition Plan	• 97.3%
	Well placement	• Stay on trajectory • Well placement within target	• 100%
	Well integrity	• Well barrier elements verified as per plan • Acceptable 20", 13 5/8" and 9 7/8" casing, cement and shoe integrity, confirmed by job performance	• 100% (all barriers tagged and pressure tested as per plan, good casing, cement and shoe integrity for all strings)
	Completion	• N/A	• N/A
Productivity	Drill well within AFE	• 54.75 days (Dry hole, no WL included)	• 43.61 days – including WL

Note that two non-recordable incidents occurred during the operations: one dropped object to sea and one well control incident. Both incidents were classified with low consequence, i.e. incidents in Category D and C accordingly (Cat. A & B impact the KPI).

- Synergi case #235207 - During use of the ROV an empty "Pelican" box fell to sea while opening the ROV hatch. Incident is Classified as *near miss* due to no potential to personnel or vessel since the hatch is placed below/beneath the semisubmersible rig.
- Synergi case #242226 – Well control incident, NOROG 135 Green – Low HC or water influx volume/rate; *Aker BP Category C*.

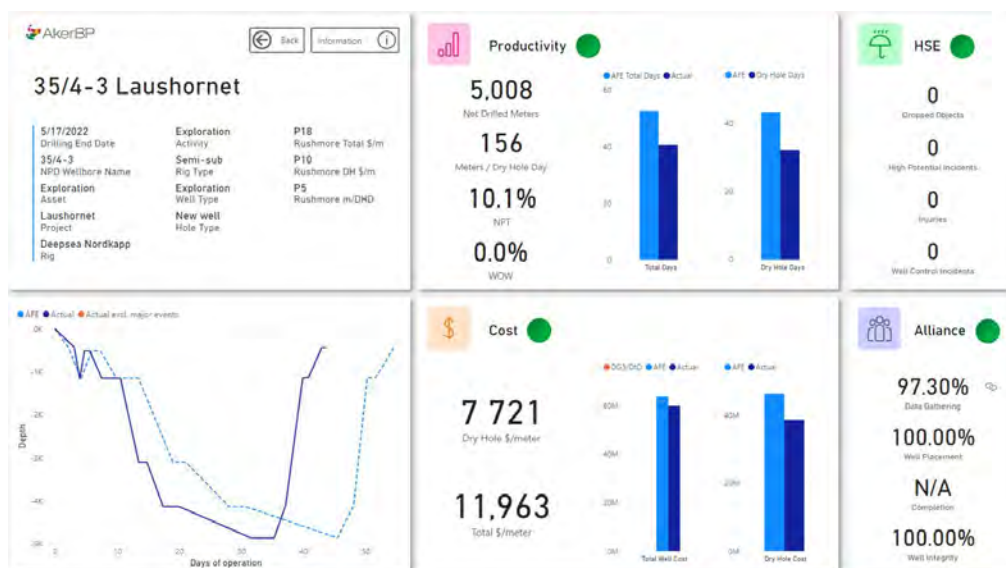



Fig. 2.1 Laushornet Well Scorecard

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## 2.2 Basic well data

Table 2.2 Basic Well Data

Basic well data	
Well no.	35/4-3
Field	Laushornet
Licence	PL685
Partners	Aker BP ASA (Operator): 40% Wellesley (Partner): 40% Petoro (Partner): 20%
Well classification	Exploration / HPHT
Well profile	Vertical (max 3.75°)
Rig name	Deepsea Nordkapp
Rig type	Semi-submersible
Drilling contractor	Odfjell Drilling
Elevation rotary table	32.65 m
Start date	4 <sup>th</sup> April 2022 at 01:30 (rig move)
Spud date	8 <sup>th</sup> April 2022 at 04:15
End date	17 <sup>th</sup> May 2022 at 16.15
Total days (rig move, pilot hole, drill well and P&A)	43.61 days
Well slot coord (Subsea)	6 837 802.30 m N, 506 313.70 m E
Water depth	398.55 m
RKB to seabed	431.20 m
Well total depth	4707.10 m MD RKB

## 2.3 Area and field location map

The exploration well 35/4-3 Laushornet is located in block 35/4 (see [Fig. 2.2](#)).

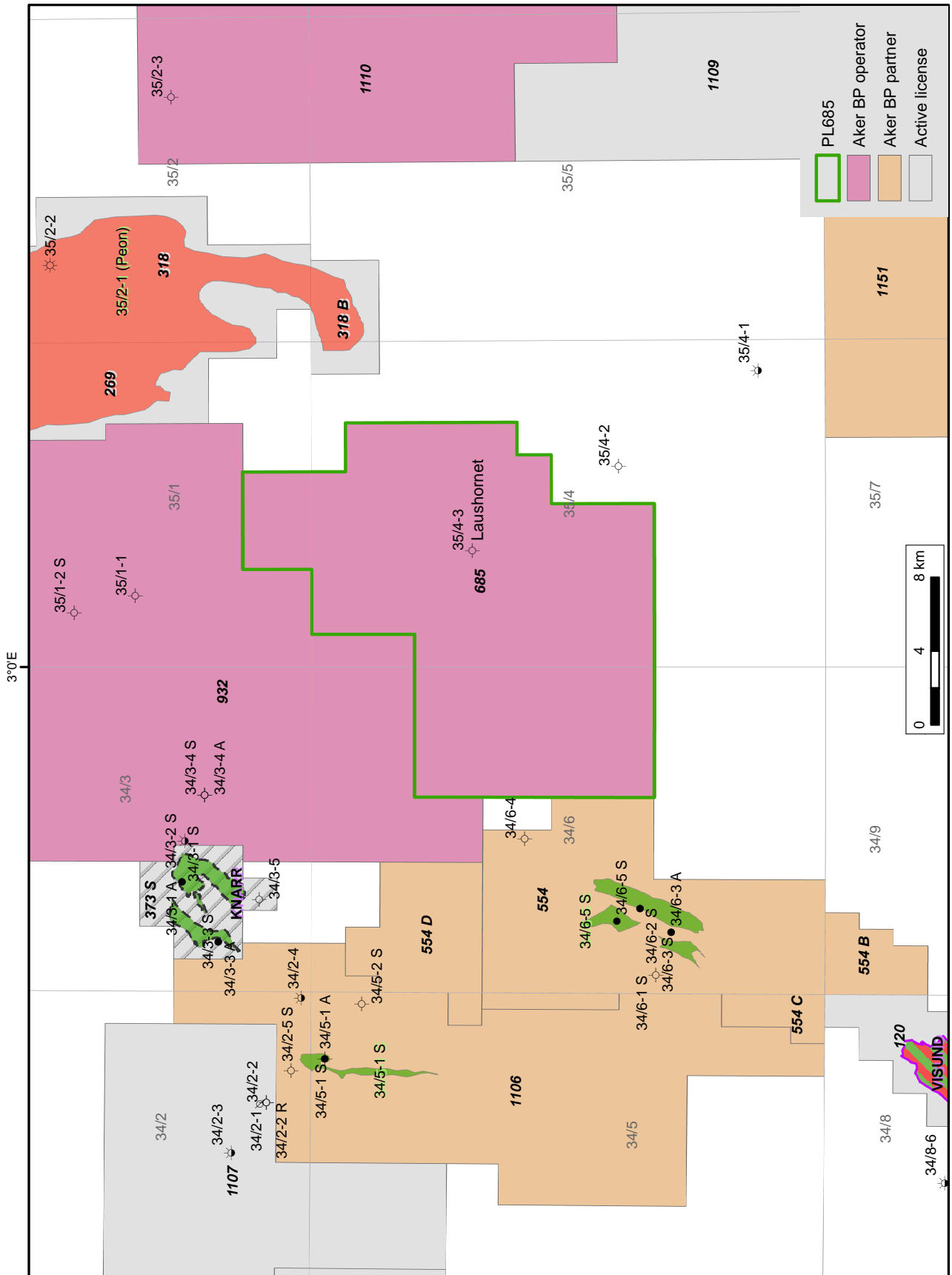


Fig. 2.2 Overview Map of PL685 License Block

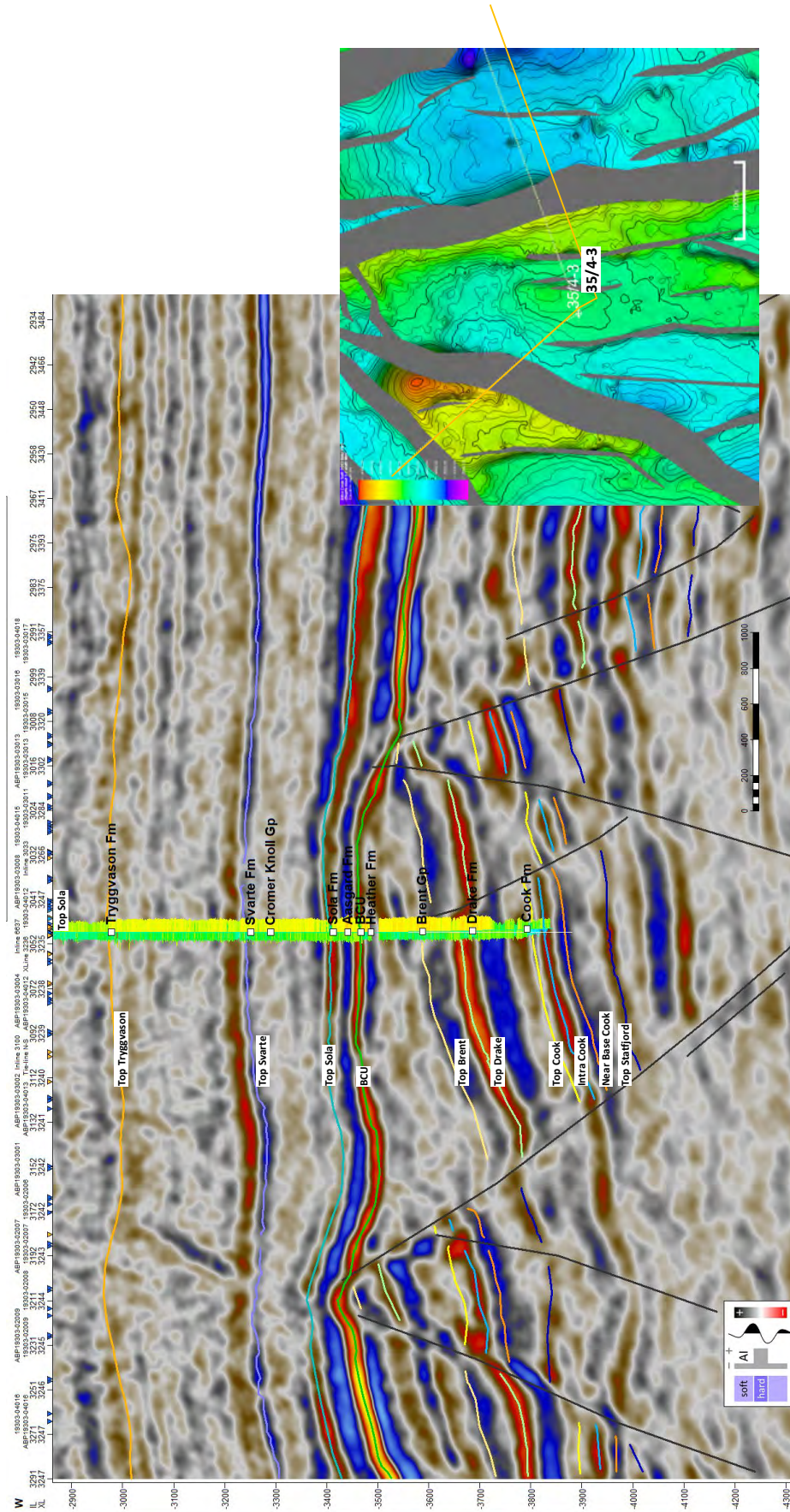


Fig. 2.3 Laushornet Reservoir Cross Section

## 2.4 Time distribution

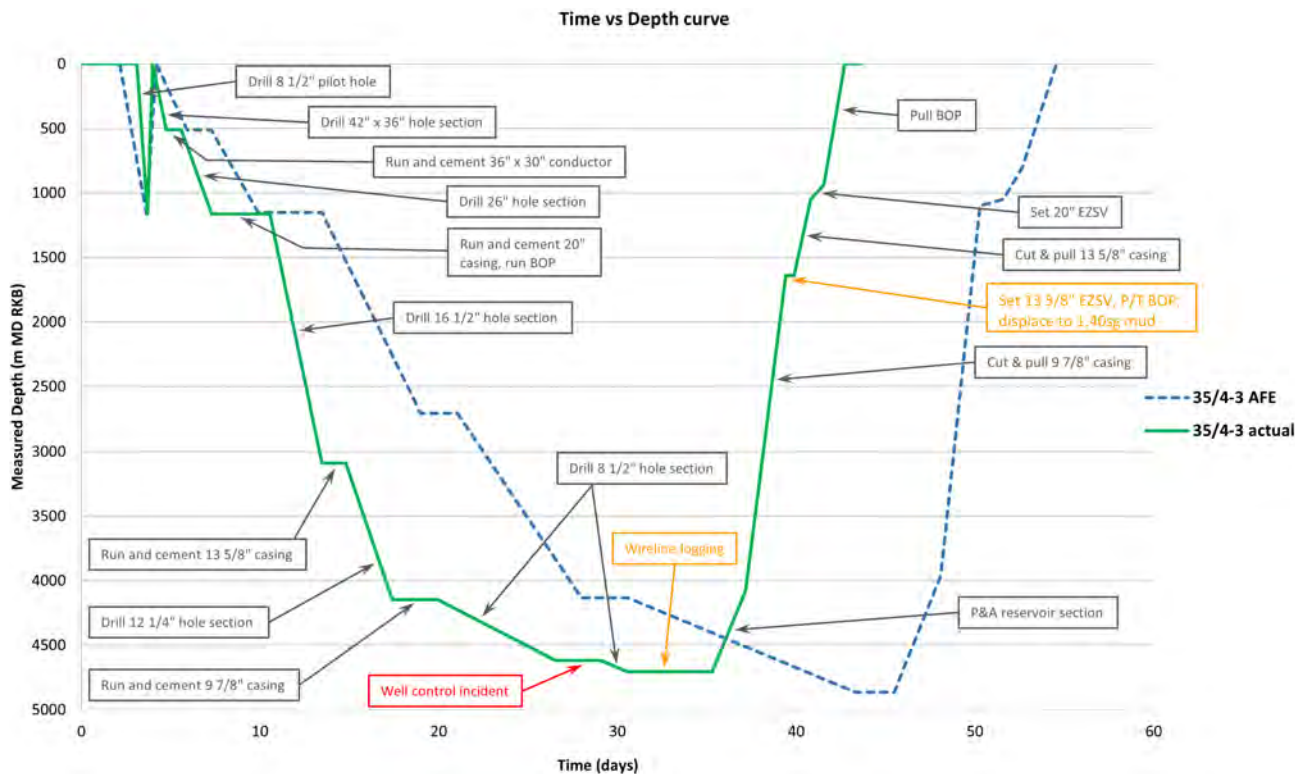



Fig. 2.4 35/4-3 Time-Depth Chart

Table 2.3 35/4-3 Time Breakdown

Time breakdown	Days	%
AFE	54.75	N/A
Actual	43.61	N/A
Productive	39.50	90.57
NPT	4.11	9.43
WOW	0.00	0.00
Additional scope (not included in AFE) *	6.25	14.33

\* *Additional scope: rig move from Hanz, IBWM carried out online, wireline logging, setting of 13 5/8" EZSV and ESD testing*

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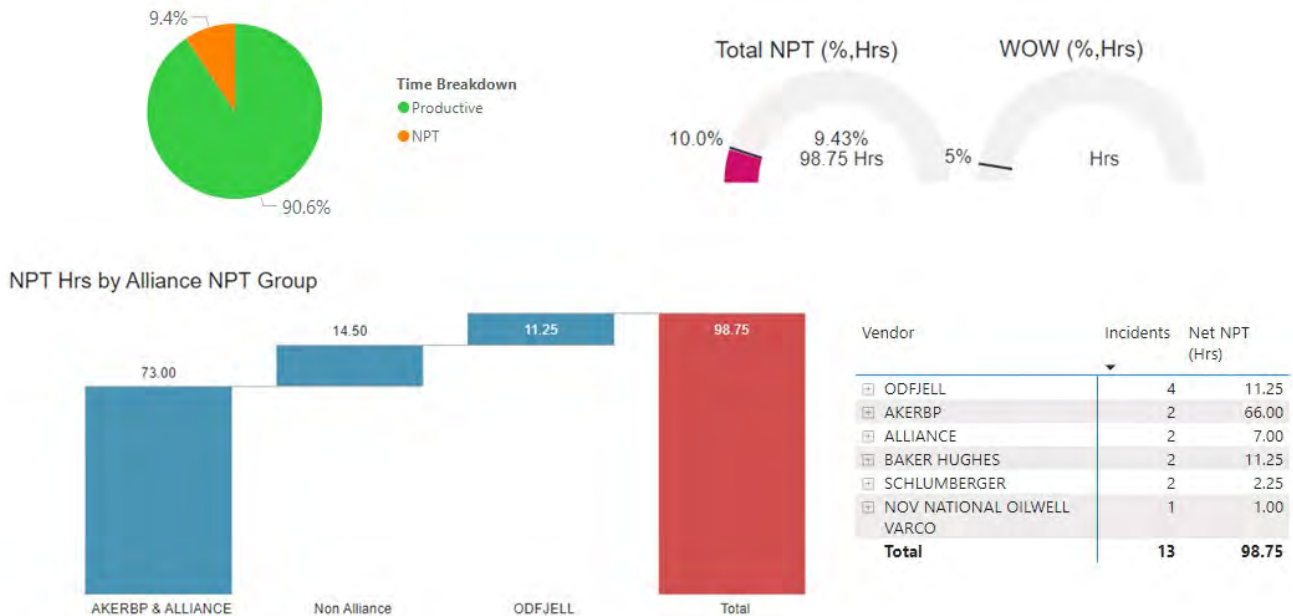


Fig. 2.5 35/4-3 Time Breakdown

## 2.5 Drilling cost summary


The costs presented in [Table 2.4](#) are estimated final costs and will be updated once all the invoices from rig chase campaign to post-well studies have been settled.

Table 2.4 Drilling Cost Summary

Activity	AFE	Final cost	Comment on variance
Planning cost for detailed engineering	30.65 MNOK	37.40 MNOK	Due to planning over several years
HPHT preparedness <sup>1)</sup>	33 MNOK	20 MNOK	BOP modification was done offline as much as possible
Operations mob/demob	15 MNOK	24 MNOK	Rig move from Hanz instead of Grefenskollen (+53 NM to travel)
Well operations	463.35 MNOK	426.55 MNOK	Well drilled 11 days ahead of plan Includes MLC bonus of ± 42 MNOK Includes additional scope not included in AFE <sup>2)</sup>
SUM	542.00 MNOK	507.95 MNOK	

<sup>1)</sup> DSN upgrades (mainly installation of second annular on BOP) and HPHT training shared between 3 wells in the "HPHT" campaign.

<sup>2)</sup> Additional scope: IBWM carried out online, wireline logging, setting of 13 5/8" EZSV and ESD testing

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## 2.6 Exemptions and non-conformities

Table 2.5 Non-Conformities

Regulation / Policy	Synergi Report	Observation / Deviation
51-000556 - Technical requirements for Casing Design NORSOK D-010	# 236467	The 13 5/8" casing has been pressure tested to a pressure below the SIWP + 35 bar kill margin
51-000556 - Technical requirements for Casing Design NORSOK D-010	# 232262	The 9 7/8" casing has been pressure tested to a pressure below the SIWP + 35 bar kill margin
51-000559 - Technical requirements for Well Control	# 238282	Kick intensity (0.05 sg) not added on top of high case pore pressure estimate

## 2.7 List of abbreviations

Table 2.6 List of Abbreviations


Abbreviation	Description
AFE	Authorization For Expenditure
BHA	Bottom Hole Assembly
BSR	Blind Shear Ram
CART	Cam-Activated Running Tool
CP	Conductor Pipe
CRTI	Casing Running Tool Internal grip
CTT	Cuttings Transport Tank
DC	Drill Collar
DP	Dynamic Positioning
DSN	DeepSea Nordkapp
DW	Drill Water
ECD	Equivalent Circulating Density
EDPHOT	Emergency Drill Pipe Hang Off Tool
EMW	Equivalent Mud Weight
EWS	Early Warning System
FIT	Formation Integrity Test
HIPO	High POtential
HO	Hole Opener
HPHT	High Pressure High Temperature
HPWHH	High Pressure WellHead Housing
HSE	Health, Safety, Environment
HST	Hydraulic Setting Tool
HWDP	Heavy Weight Drill Pipe
IBOP	Inside BlowOut Preventer
IBWM	In-Between Well Maintenance
KPI	Key Performance Indicator
LAP	Lower Annular Preventer
LOT	Leak-Off Test
LPWHH	Low Pressure WellHead Housing
LWD	Logging While Drilling
MD	Measured Depth
MST	Mechanical Setting Tool
MWD	Measuring While Drilling
NPT	Non Productive Time
NSP	Nominal Seat Protector
OAS	Operator Assist System



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Abbreviation	Description
OBM	Oil Base Mud
OCC	Onshore Collaboration Center
P&A	Plug and Abandonment
PADPRT	Pressure Assisted Drill Pipe Running Tool
PBU	Pressure Build Up
PTTT	Plug Type Test Tool
PWL	Primary Well Location
RA	RadioActive
RKB	Rotary Kelly Bushing
RMR	Riserless Mud Recovery
ROP	Rate Of Penetration
ROPS	Remotely Operated Pull-in System
ROV	Remotely Operated Vehicle
RPM	Revolutions Per Minute
RSS	Rotary Steerable Systems
SICP	Shut-In Casing Pressure
SIDPP	Shut-In Drill Pipe Pressure
SIWP	Shut-In Wellhead Pressure
SPP	StandPipe Pressure
SRT	Seal Retrieval Tool
SW	Sea Water
TD	Total Depth
TOC	Top Of Cement
TTOC	Theoretical Top Of Cement
UAP	Upper Annular Preventer
UPR	Upper Pipe Ram
VSP	Vertical Seismic Profiling
WB	Wear Bushing
WBRRT	Wear Bushing Run Retrieval Tool
WDP	Wired Drill Pipe
WOB	Weight On Bit
WOW	Wait On Weather
X/O	Crossover

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# 3 Well status

## 3.1 Final well schematic

Fig. 3.1 and Fig. 3.2 show respectively the Laushornet "As-built" schematic and permanent P&A schematic.

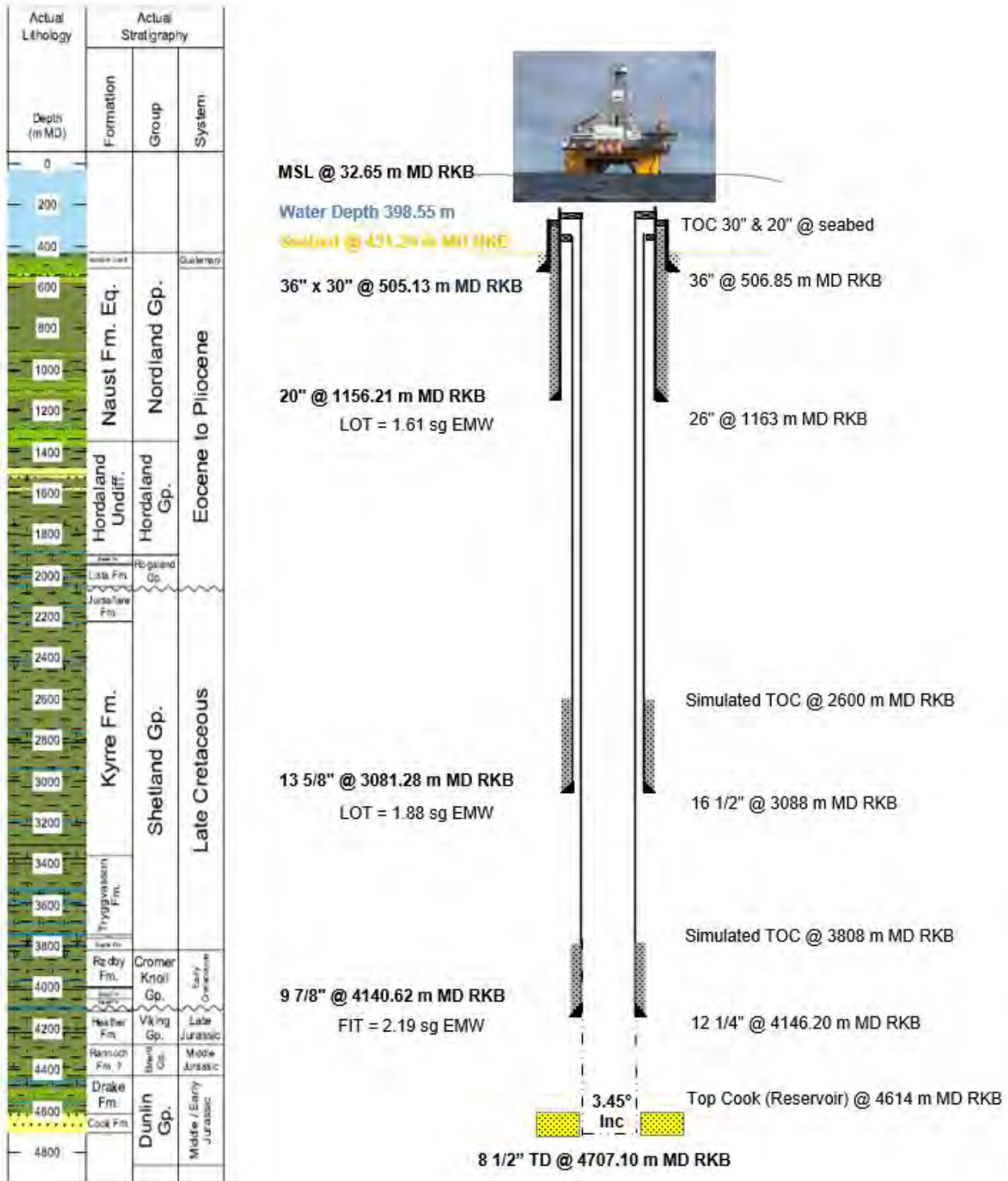


Fig. 3.1 35/4-3 As-built Schematic

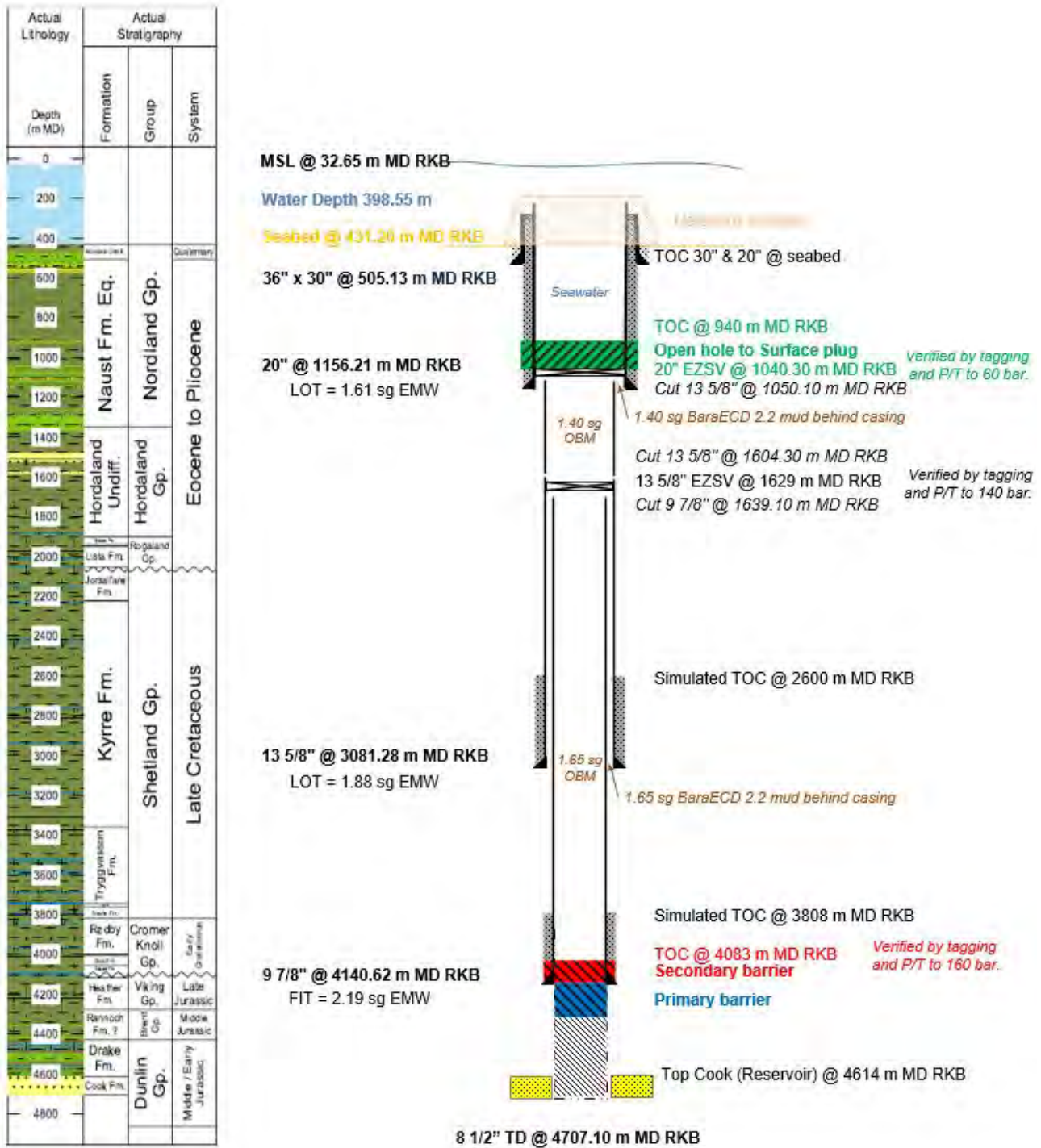


Fig. 3.2 35/4-3 P&A Schematic

The netguard will be removed and the wellhead cut and pulled in a rig chase campaign. This campaign is planned to take place in Q4 2022.



## 3.2 Well profile

### **35/4-U-2 shallow gas pilot hole:**

The 35/4-U-2 pilot hole was drilled vertical from 431.20 to 1163 m MD RKB.

Maximum inclination: 1.16° at 915.50 m MD RKB.

Maximum offset from vertical: 6.89 m.

### **35/4-3 Laushornet:**

The 35/4-3 exploration well is a vertical drilled from 431.20 to 4707.10 m MD RKB.

Maximum inclination: 3.75° at 4505.90 m MD RKB (see [Fig. 3.3](#)).

Maximum offset from vertical: 15.68 m.



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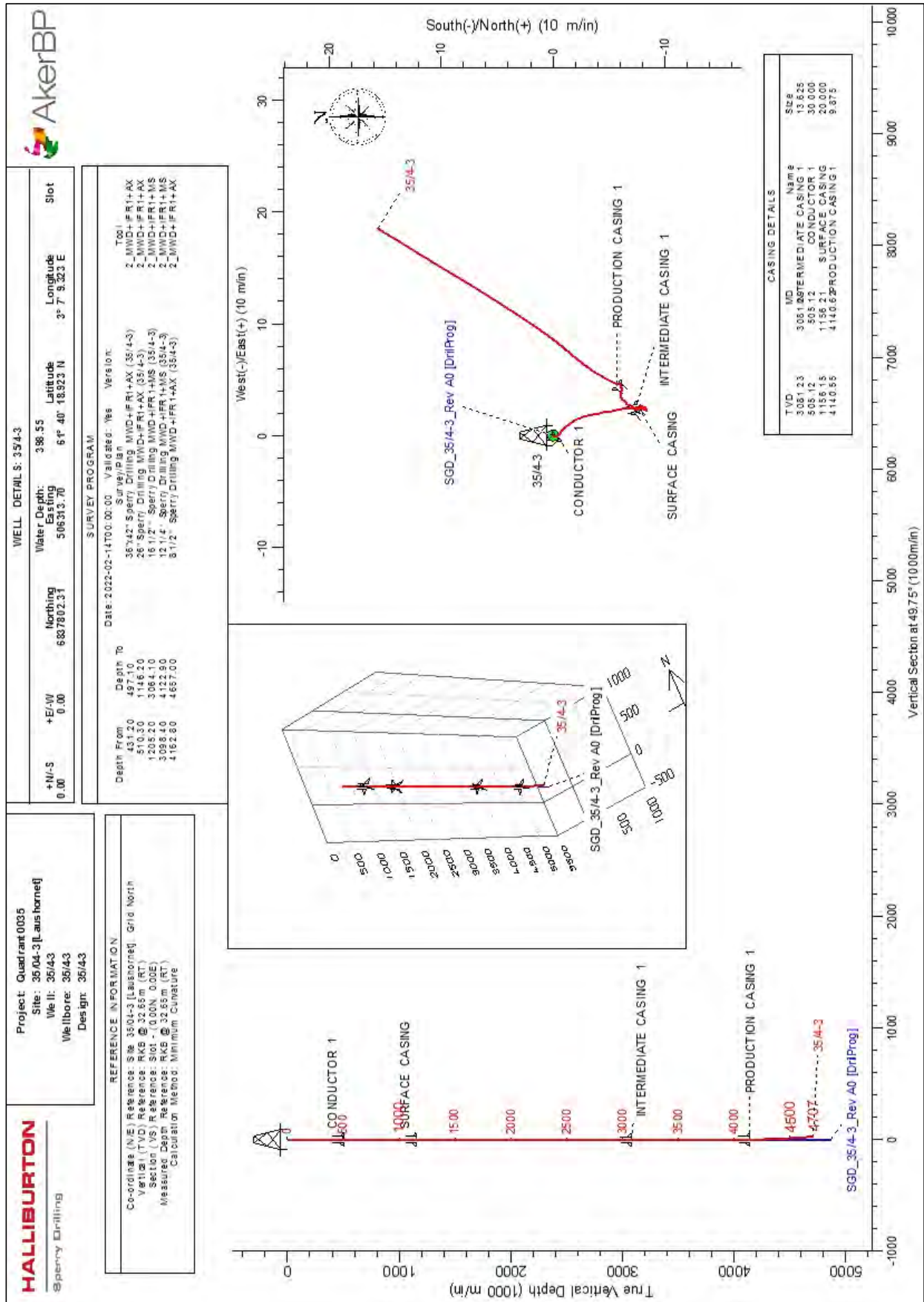



Fig. 3.3 35/4-3 Well Profile

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### 3.3 Well barrier schematic

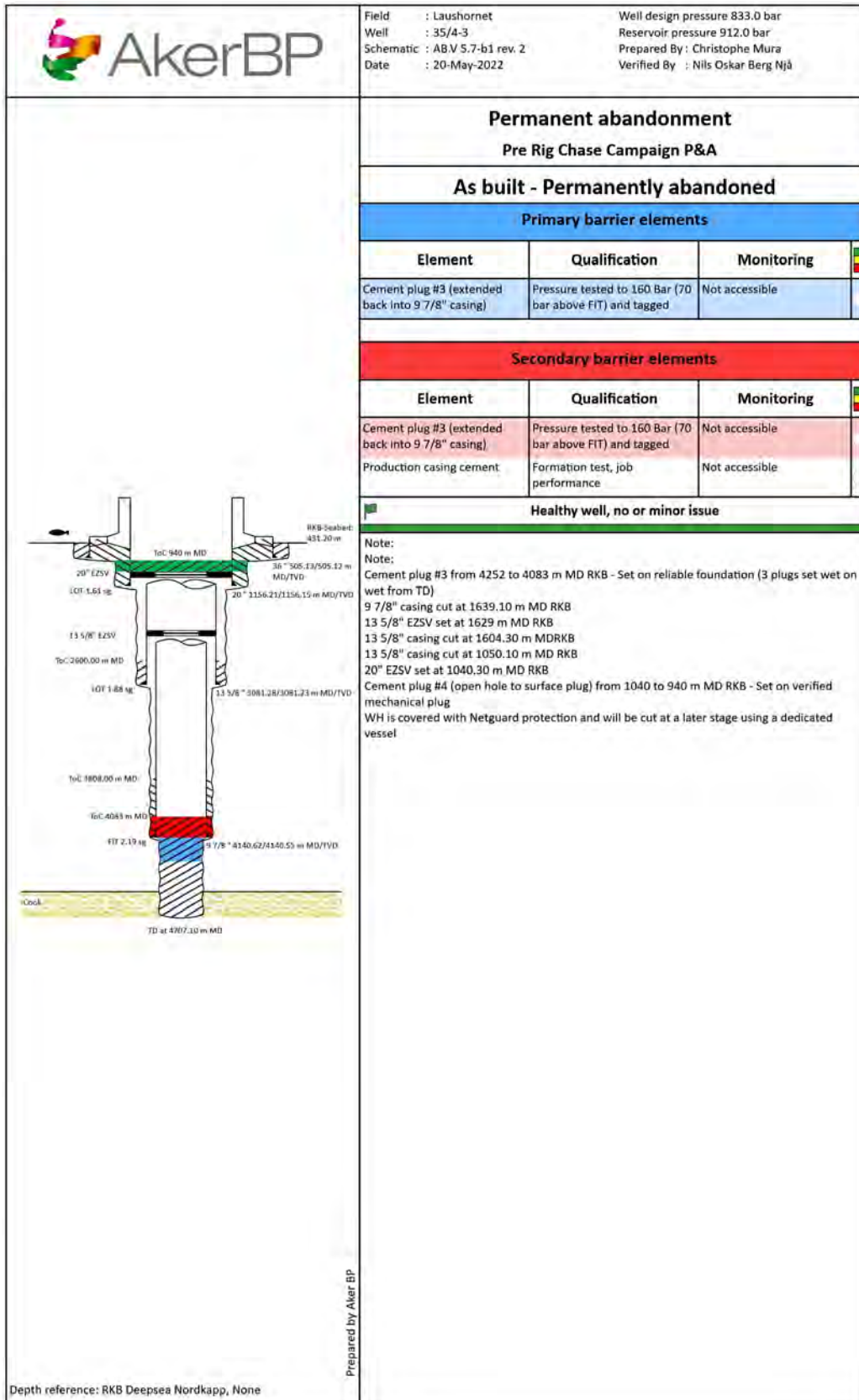


Fig. 3.4 35/4-3 Well Barrier Schematic



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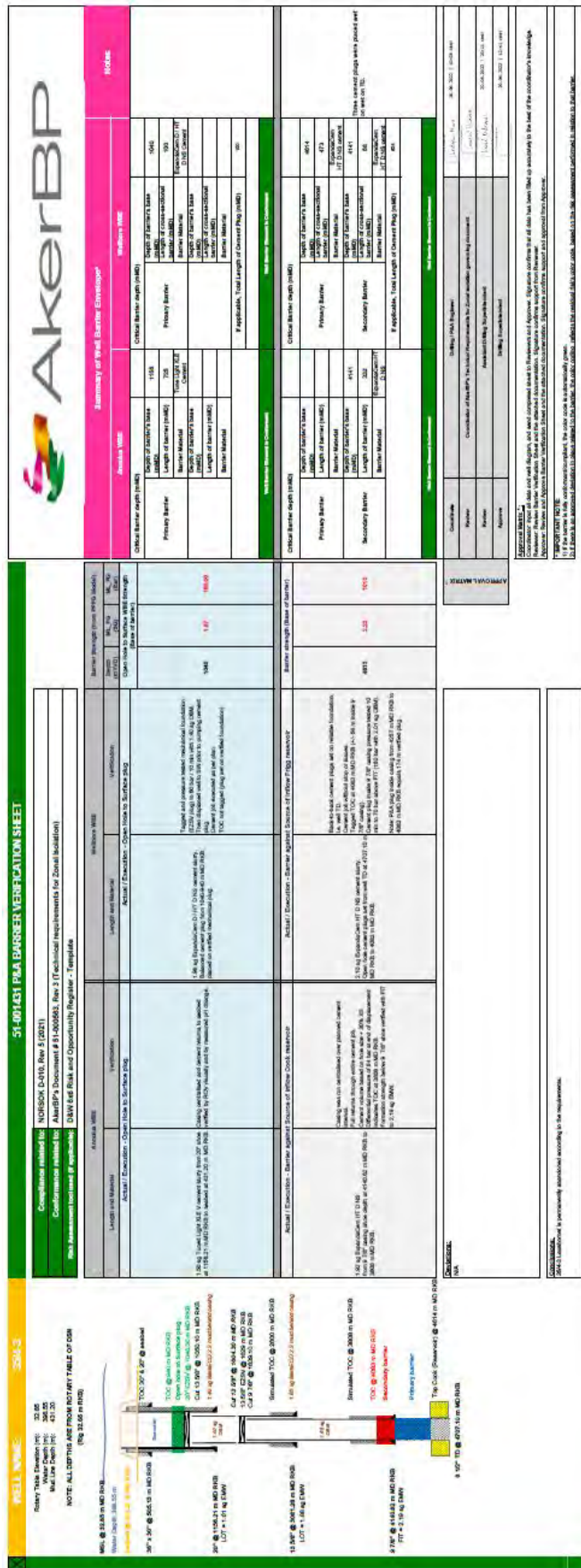



Fig. 3.5 P&A Well Barrier Verification Sheet

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### 3.4 Well integrity tests

Table 3.1 Well Integrity Tests Summary

Casing size	Pressure test [bar]	Date of pressure test	LOT/FIT	Date of LOT/FIT
20" surface casing	110	12.04.2022	LOT = 1.61 sg EMW	15.04.2022
13 5/8" intermediate casing	455	18.04.2022	LOT = 1.88 sg EMW	19.04.2022
9 7/8" production casing	500	23.04.2022	FIT = 2.19 sg EMW	25.04.2022
Deep P&A barrier	160	11.05.2022	N/A	N/A
Open hole to surface plug	60	15.05.2022	N/A	N/A

Test charts can be found in appendices [6.3 LOT / FIT](#) and [6.4 Pressure tests](#).

### 3.5 Wellhead details

A Baker Hughes MS-700 wellhead was installed during the 35/4-3 Laushornet exploration well operations. The 13 5/8" and 9 7/8" casing hangers were retrieved during the P&A operations. The 36" LPWHP and 18 3/4" HPWHP (ref. Fig. 3.6) have been left in place and will be removed during a rig chase campaign.

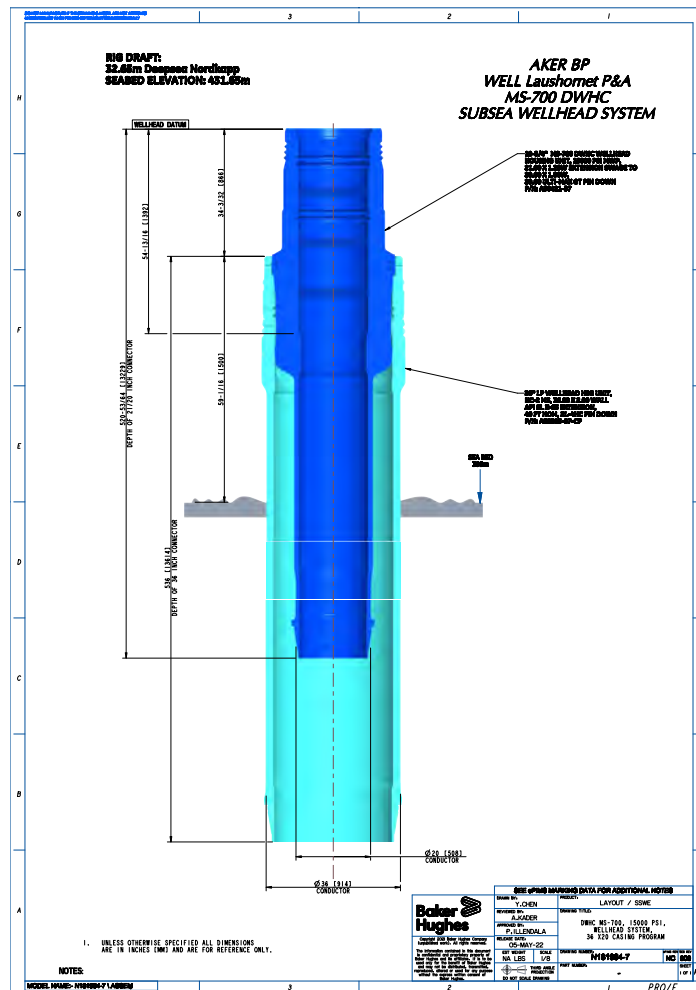


Fig. 3.6 MS-700 DWHC Subsea Wellhead System



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Table 3.2 Wellhead Details

Component	Description	Working pressure [psi]	Internal hanging capacity [MM ft-lbs]	Capacity [MM ft-lbs]
LOW PRESSURE WELLHEAD HOUSING	WELLHEAD HSG UNIT, HC-2 MS, 36.00 X 2.00 WALL API 5L X-65 EXTENSION, 40 FT NOM, 36 X 2 RL-4HC PIN DOWN	1000	4	4
X-OVER JOINT	TUBULAR-CROSSOVER/ REDUCER JT, 36 X 2.000 RL-4HC BOX X 30 X 1.500 ALT-2-HT BOX, API 5L-X65, 40 FT			
HIGH PRESSURE WELLHEAD HOUSING	WELLHEAD HSG UNIT, WELDMENT, DWHC MS-700, 18.750, 15000 PSI MWP, 21.00 X 1.25W API 5L X56 EXTENSION, W/21.00 X 1.25W BY 20.00 X 1.000W SWAGE, 20.00 ULTI-MAX PIN DOWN	15000	7.1 Capacity (3.0 hanging capacity + 4.1 Pressure)	5.25
CASING HANGER MS-700	CASING HGR, MS-700, 18.750 X 13.625 NOMINAL, 13.625 88.20 LB/FT VAM 21 BOX, 10000 PSI MP, W/ TAPERED SEAL POCKET, FOR 13.500 HGR STACK-UP SYSTEM, NACE, 3 IN. EXTENDED OAL FOR ADDITIONAL THREAD RE-CUT	10000	1	N/A
CASING HANGER MS-700	CASING HANGER, MS-700, 18.750 X 9.875, 9.875 66.9 LB/FT VAM 21 BOX, 13020 PSI MWP, WITH TAPERED SEAL POCKET, ALLOY 625 INLAY TUBING HANGER BORE, NACE MR-01-75, FOR 13.500 HANGER STACK UP SYSTEM	15000	1	N/A

As per conductor analysis, the 36" section of the conductor was extended with a 40 ft X/O joint to ensure the Alt-2 x ST2 X/O was set inside competent formation.

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## 3.6 Mud

Table 3.3 Drilling Fluids Summary

Wellbore	Section	Mud type	Mud weight [sg]	Comments
35/4-U-2	8 1/2" pilot hole	Seawater and sweeps	1.03 sg	Displaced to 1.40 sg bentonite mud at TD Hole in good condition
35/4-3	42" x 36" hole	Seawater and sweeps	1.03 sg	Displaced to 1.40 sg bentonite mud at TD Hole in good condition
35/4-3	26" hole	Seawater and sweeps	1.03 sg	Displaced to 1.40 sg KCl/ GEM/polymer mud at TD BHA completely balled up on surface
35/4-3	16 1/2" hole	BaraECD 2.2 OBM	1.40 sg	Hole in good condition
35/4-3	12 1/4" hole	Bara ECD 2.2 OBM	1.64 -1.65 sg	Weighted up to 1.65 sg at 3802 m MD RKB based on ESD Hole in good condition
35/4-3	8 1/2" hole	BaraECD 3.3 OBM	1.925 - 2.01 sg (MW50)	Weighted up to 1.99 sg MW50 after well control incident at 4618 m MD RKB Weighted up to 2.01 sg MW50 based on ESD after taking pressure points Excellent performance of mud - stable after several days static during WL logging

After reviewing offset data, it was decided to change from KCl/GEM to bentonite displacement mud in pilot hole and 42" x 36" section. This solution helped reduce cost and discharge of yellow chemicals.

For the 8 1/2" reservoir section, the planned XP-07 mud system was replaced by BaraECD 3.3 OBM due to concerns about the low temperature rheology. It was discovered that the 4 °C and 20 °C rheologies were very high and could lead to risk of ECD spikes and issues with gelled up mud in the service lines. The late change in planned mud system was handled well from all involved parties, mud weight was stable at all times (also during low circulation and static periods), no issues with cold rheologies and high gels, successfully took pressure points, indicating good filtercake/fluid loss. The BaraECD 3.3 was re-used on Storjo with success.

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## 3.7 Cement

Table 3.4 Cement Programme Summary


Casing/operation	Setting depth [m MD]	TOC [m MD]	Cement type	Slurry density [sg]	Volume [m <sup>3</sup> ] / excess [%]	Losses, cement log and other details
8 1/2" pilot hole plug	1163 - 913	913 (estimated)	ExpandaCem D NS	1.90	11.9 / 30%	Cement pumped through 8 1/2" pilot hole BHA -> use filter unit
36" x 30" conductor pipe	505.13	431.20 (seabed)	Tuned Light XLE V	1.51	69.6 / 300%	Cement job according to plan Cement verified at seabed
20" surface casing	1156.21	431.20 (seabed)	Tuned Light XLE V	1.50	225.7 / 100%	Cement job according to plan Cement verified at seabed
13 5/8" intermediate casing	3081.28	2600 (simulated)	ExpandaCem D NS	1.92	25.1 / 30%	Lost 26 m <sup>3</sup> while pumping spacer Lost 190 m <sup>3</sup> while displacing cement Pressures indicating cement in annulus TOC calculated on lift pressure to 2600 m MD RKB
9 7/8" production casing	4140.62	3808 (simulated)	ExpandaCem HT D NS	1.91	15.5 / 30%	Cement job according to plan TOC calculated on lift pressure to 3808 m MD RKB
Primary and secondary barrier towards reservoir (three plugs)	4707 - 4083	4083 (tagged)	ExpandaCem HT D NS	2.10	9.1 / 10% (each plug)	Observed 20 MT overpull while POOH of plug #1 Cement job according to plan Tagged and pressure tested
20" open hole to surface plug	1040 - 940	940 (estimated)	ExpandaCem D NS / ExpandaCem HT D NS	1.98	17.2 / 0%	Cement job remotely controlled from Aker BP's OCC Cement job according to plan

All the cement jobs on the Laushornet exploration well were carried out with the help of the OAS.

The 20" surface casing was cemented with 1270 lpm for the 1<sup>st</sup> time on DSN. 1270 lpm is the maximum flowrate that can be achieved on DSN due to 2" iron on cement unit.


Establish pre-13 5/8" cement job circulation with full returns at 750 lpm. Staged up flow to 1000-1200 lpm and losses started, so reduced back to 500 lpm with marginal loss rate and went straight to cement job. Performed the cement job with 20% returns. 92% loss rate observed during displacement. Observed cement lift pressure from 53 bar to 84 bar. Observed plug bump on strokes equivalent to 96.5% efficiency. No back-flow. Hard cement drilled in the shoetrack. It is thought that mud was lost to "low Sh<sub>min</sub>" sand zone between 1482 - 1590 m MD RKB. A post job simulation was run to estimate TOC. TOC is simulated at 2600 m MD RKB based on the 31 bar pressure increase recorded.

Observed very stable parameters at 800 lpm during cementing with OAS. When increasing flowrate to 850 lpm the system struggles to maintain 1.92 sg density.

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DSN batch mixer was used for the 1<sup>st</sup> time on the open hole P&A plugs due to high density slurry. Slurry was mixed and pumped at 2.10 sg with success.

The entire operation of pressure testing 20" EZSV, mixing and spotting the 17.2 m<sup>3</sup> 1.98 sg surface cement plug was remotely controlled from Aker BP's OCC in Jättåvågen. The job was performed over VSAT with an average latency of 600 ms that proves the system is designed and can work on a semisubmersible unit with quite a bit of network latency.

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## 4 Section summaries

### 4.1 Overall description

The Laushornet exploration well 35/4-3 was drilled and abandoned in 43.61 days (including rig move, pilot hole, drilling and evaluating the reservoir, P&A and demobilisation).

Table 4.1 35/4-3 Operations Summary

Operation	Start time	Productive [hrs]	Non-productive [hrs]	% NPT	WOW [hrs]	% WOW	Total [hrs]	Total [days]
Mobilize	04.04.2022 @ 01:30	74.50	0	0	0	0	74.50	3.10
Drilling pilot hole	07.04.2022 @ 04:00	21	0	0	0	0	21	0.88
Drilling	08.04.2022 @ 01:00	660.50	90.75	11.95	0	0	751.25	31.30
Permanent P&A	09.05.2022 @ 08:15	148.25	2	1.33	0	0	150.25	6.26
Demobilize	15.05.2022 @ 14:30	43.75	6	12.06	0	0	49.75	2.07
<b>Total well</b>		<b>948</b>	<b>98.75</b>	<b>9.43</b>	<b>0</b>	<b>0</b>	<b>1046.75</b>	<b>43.61</b>

### 4.2 Rig mobilisation

DSN on contract after exiting 25/10-U-8 Hanz 500 m zone at 01:30 hrs on 4<sup>th</sup> April 2022. Start rig move to 35/4-U-2 Laushornet location. DSN transited to the Laushornet location in operational draft. She sailed 160 NM in 53.5 hrs with an average speed of 3 knots (limited by IBWM). Entered Laushornet 500 m zone at 07:00 hrs on 6<sup>th</sup> April 2022. Initiated DP trails and completed same at 10:00. Pressure tested TDX auto and IBOPs to 20/1034 bar for 5/10 min. Observed issues getting test on IBOP, changed IBOP and re-tested OK. ROV completed seabed survey. Installed marker bouys and subsea basket at main well location, confirmed 0.73 m from target. Performed shallow gas tabletop with bridge. Drifted DP in derrick after previous cement job and performed dropped object check in derrick. Meanwhile complete IBWM.

Table 4.2 Rig Mobilisation Details

Rig mobilisation	Actual
Section objective	<ul style="list-style-type: none"> <li>Sail to Laushornet location</li> <li>Position rig to drill 35/4-U-2 pilot hole</li> <li>Perform "As Found" ROV survey</li> <li>Perform DP calibration</li> <li>M/U BHA for pilot hole and top hole sections</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>None of the risks occurred</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>Most of the IBWM performed offline</li> </ul>
Lowlights	<ul style="list-style-type: none"> <li>Average rig move speed: 3 knots limited by IBWM</li> </ul>
Opportunities	<ul style="list-style-type: none"> <li>N/A</li> </ul>



## 4.3 Drill 8 1/2" pilot hole

Run to seabed with 8 1/2" pilot hole BHA to 423 m MD RKB with ROV following bit to seabed. Tested wired telemetry as per NOV procedures. Tagged seabed with tide corrected depth at 430.5 m at 04:00 hrs on 7<sup>th</sup> April 2022. Confirmed spud location with Fugro. Preliminary fix 0.73 m from planned spud location (tolerance +/- 5m).

Spud pilot hole by washing in with 1500 lpm. Washed in hole from 430.5 to 446.3 m MD RKB. Initiated rotation and staged up parameters as formation firming up, drilling from 446.3 to 498 m MD RKB.

Parameters: 1500-1800 lpm; SPP 40-70 bar; 30-80 RPM; Torque 3-5 kNm; WOB 1-3 MT; ROP: 10-60 m/hr, drilling with SW and sweeps; ECD: 1.03-1.09 sg; drilled using WDP telemetry.

Obtained first survey with MWD just below seabed, inclination recorded at 0.53°, pumping 4 m<sup>3</sup> sweeps mid stand and before connection stand. Drilled 8 1/2" shallow gas pilot hole from 498 m to 595 m MD RKB.

Parameters: 2000-2100 lpm; SPP 65-80 bar; 80-120 RPM; torque 5-6 kNm; WOB 1-7 MT; ROP inst: 33-65 m/hr; ROP average: 38.8 m/hr; ECD: 1.05-1.11 sg; drilled using WDP telemetry; pumped 4 m<sup>3</sup> sweeps mid stand and before connection.

At 595 m MD RKB, pumped 2 x 4 m<sup>3</sup> sweeps and performed 30 min flow check below sand unit in Naust Unit Formation (as per plan). No flow observed by ROV, well static. Maintained 15 RPM and nudged string during flow check.


Drilled 8 1/2" shallow gas pilot hole from 595 m MD RKB to TD at 1163 m MD RKB. ROV monitoring well on sonar: no shallow gas or shallow water flow. Formations firmed up below 605 m MD RKB. Needed to go toward 160 RPM – this and the ROP 80-120 m/hr (av. = 80 m/hr) was due to the high WOB and the build tendency. The BHA (esp with 430m water/air depth) had a decent build tendency. Limited ROP inst. to +/- 100 m/hr and increased RPM to 160 to combat build trend with high WOB (<1.2 degree inclination).

Parameters: 2100 lpm; SPP 80-105 bar; 120-160 RPM; torque 5-12 kNm; WOB: 7-14 MT; ROP inst: 83-115 m/hr; ROP average: 68.8 m/hr; ECD: 1.07-1.29 sg; drilled using WDP telemetry; pumped 4 m<sup>3</sup> sweeps mid stand and before connection.

At TD, took survey - distance to plan: 11.81 m, north: 7.13 m, east: 9.43 m. Pumped 2 x 5 m<sup>3</sup> sweeps to clean hole with 30 RPM. Performed 30 min. flow check at TD for shallow gas: no sign of gas observed by ROV, well static. Maintained 15 RPM and nudged string during flow check. Displaced well to 1.40 sg bentonite mud with 2100 lpm and 30 RPM. Performed short check trip to verify hole in good condition and spaced out for cement job.

Mixed and pumped 11.9 m<sup>3</sup> of 1.90 sg ExpandaCem D NS slurry with 700 lpm through filter unit. Displaced cement to standpipe manifold with 400 l DW. Displaced sponge balls to drill floor with 500 l DW. Lined over to mud pumps and displaced cement with 5.8 m<sup>3</sup> of 1.40 sg WBM. Displaced with 1500 lpm and 30 RPM. Pulled out of hole to 898 m MD RKB and circulated BU with 1.40 sg WBM at 2100 lpm. Pulled out of hole from 898 to 420 m MD RKB, above seabed. Hole in good condition.

Moved rig off pilot hole location to the main well location. Pulled and L/D 8 1/2" BHA to deck. Bit grading: 1-1-WT-A-E-I-PN-TD.

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Operations on the 8 1/2" pilot hole ended on 7<sup>th</sup> April 2022 at midnight.

Table 4.3 Drill 8 1/2" Pilot Hole Details

Drill 8 1/2" pilot hole		Actual
Section objective	<ul style="list-style-type: none"> <li>Verify no shallow gas or shallow water flow at the planned well location</li> <li>Confirm setting depth of surface casing</li> <li>Perform data acquisition for top holes</li> <li>Isolate and establish barriers against any source of inflow</li> </ul>	<ul style="list-style-type: none"> <li>All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Loss of rig position due to DP issues</li> <li>Shallow gas and shallow water</li> <li>Boulders and hard formations</li> <li>Stuck pipe</li> <li>Unable to maintain section vertical</li> </ul>	<ul style="list-style-type: none"> <li>No shallow gas or shallow water encountered</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>No shallow hazards encountered</li> <li>Competent formation for surface casing</li> <li>Re-use the 8 1/2" pilot hole BHA from Hanz with no issues (successfully cemented through BHA 4 times)</li> <li>Data acquired as per plan</li> <li>New ROP record in the area (average ROP = 70.4 m/hr)</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>N/A</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>Consider to update procedure to start cementing based on automatic density measurement (instead of manual measurement)</li> <li>Consider to use a PDC bit with Machete cutters to test this type of bit in future pilot holes in this area since formation is highly interbedded</li> <li>Consider to skip pilot hole and drill with RMR system when no risk of shallow gas</li> </ul>	

Table 4.4 8 1/2" Bit Summary

BIT DATA							
Bit Number	: 1	Nozzles	: 3x18				
Bit Size	(in) : 8.500	TFA	(in2) : 0.7455				
Manufacturer	: HDBS	Dull Grade In	: NEW				
Model	: SR12DR	Dull Grade Out	: 1-1-WT-A-E-I-PN-TD				
Serial Number	: 13196213						

PERFORMANCE Section A							
Parameter	Min	Max	Avg	Activity	Hours	BHA Weight	(mton)
WOB (mton)	: 1	: 12	: 6	Drilling	: 12.75	in Air (Total)	: 35.91
RPM (rpm)	: 29	: 160	: 112	Reaming	: 0.00	in Mud (Total)	: N/A
Flow (lpm)	: 1543	: 2141	: 2012	Circ-Other	: 2.00	in Air (Bel Jars)	: 17.00
SPP (bara)	: 39	: 107	: 78	Total	: 14.75	in Mud (Bel Jars)	: N/A

COMMENTS
Drilling hours: 10.4 Circulating hours: 13.4 Krevs: 83.9 ROP: 70.4 m/hr



## 4.4 Drill 42" x 36" section

Picked up 17 1/2" x 26" x 36" x 42" spud BHA. Adjusted rig heading to 315°. Ran to seabed with spud BHA. ROV followed spud assembly from 350 m to seabed. Tagged seabed (tide corrected depth: 431.2 m MD RKB, i.e. 0.8 m from plan). Confirmed spud location with Fugro: final fix 0.68 m from spud location.

Spud well. Drilled 17 1/2" x 26" x 36" x 42" hole from 431.2 to 463 m MD RKB. Staged up parameters as formation firming up.

Parameters: 1000-4500 lpm; SPP: 5-120 bar; RPM: 20-80; torque: 2-10 kNm; WOB: 0.5-3 MT; instantaneous ROP: 5-40 m/hr; average ROP: 18.2 m/hr; drilled using mud pulse telemetry; drilled with SW & sweeps.

Filled string and started washing in with 1000 lpm. Observed 2.5 MT weight increase after 2.4 m (corresponding to boulder-buster embedding into seabed) and initiated rotation 20-30 RPM. Took survey with MWD below seabed, recorded inclination of 0.36°. Drilled 17 1/2" x 26" x 36" x 42" hole from 463 to TD at 509.5 m MD RKB.

Parameters: 4500 lpm; SPP: 120-125 bar; RPM: 60-80; torque: 6-17 kNm; WOB: 2-8 MT; instantaneous ROP: 1-10 m/hr; average ROP: 6.4 m/hr; pumping sweeps mid stand and before connections.

Performed 7 surveys to check inclination, all below 1° requirement. First survey: 0.39° at 439.8 m MD RKB. Last survey 0.5° at 497.1 m MD RKB. Formation firmed up with depth. Observed some vibration when 42" HO entered seabed, adjusted RPM as per vibration. Cleaned the hole by pumping 40 m<sup>3</sup> Hi-vis pill with bit at TD with 4500 lpm. Displaced pill with SW. Re-tagged bottom to confirm no fill. Displaced well to 1.40 sg bentonite WBM (1.5 x hole volume).

Pulled up off bottom and flow checked well for 10 min, well static. POOH with BHA to seabed. Observed 5-10 MT overpull at 481 m MD RKB (42" HO exiting seabed) and 462 m, otherwise hole in good condition. Topped up well with 1.40 sg WBM to approximately 10 m below seabed. Pulled above seabed and flushed BHA. Pulled out of sea with BHA and L/D top hole BHA. Balling observed on stabilizers and boulder buster. Bit grading: 1-1-WT-A-E-I-NO-TD. Boulder buster and hole opener grading: NO-A-TD.


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Table 4.5 Drill 42" x 36" Section Details

Drill 42" x 36" section	Actual	
Section objective	<ul style="list-style-type: none"> <li>Ensure that rig is positioned within <math>\pm 10</math> m of spud coordinates</li> <li>Drill 42" x 36" hole to section TD</li> </ul>	<ul style="list-style-type: none"> <li>All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Hole not vertical, LPWHH inclination higher than requirement (<math>&lt; 1.0^\circ</math>)</li> <li>Incorrect spud location outside <math>\pm 5</math> m tolerance</li> <li>Boulders</li> <li>Surface vibrations and associated DROPs</li> <li>Personnel injury due to handling of heavy equipment</li> <li>Well instability due to soft sediments</li> <li>Awareness of pipe buckling and 42" HO lateral movement</li> <li>Loss of rig position due to DP issues</li> </ul>	<ul style="list-style-type: none"> <li>No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>ROP better than expected: average ROP = 10.4 m/hr</li> <li>Kept low inclination throughout section (<math>&lt; 1^\circ</math>)</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>BHA make up affected by adverse weather conditions</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>N/A</li> </ul>	

Table 4.6 17 1/2" Bit Summary

BIT DATA							
Bit Number	:	1	Nozzles	:	3x20,1x18		
Bit Size (in)	:	17.500	TFA (in2)	:	1.1689		
Manufacturer	:	HDBS	Dull Grade In	:	NEW		
Model	:	SR32RC	Dull Grade Out	:	0-0-NO-A-E-I-NO-TD		
Serial Number	:	13246060					

PERFORMANCE Section A								
Parameter	Min	Max	Avg	Activity	Hours	BHA Weight	(mton)	Daily Activity Start and End Depths do not correlate with Drilling Activity. Cannot calculate Orient, Rot values.
WOB (mton)	0	9	3	Drilling	9.00	in Air (Total)	44.57	
RPM (rpm)	0	80	58	Reaming	0.00	in Mud (Total)	N/A	
Flow (lpm)	1000	4500	3372	Circ-Other	1.25	in Air (Bel Jars)	23.23	
SPP (bara)	4	126	81	Total	10.25	in Mud (Bel Jars)	N/A	


  

COMMENTS
Drilling hours: 7.5hrs Circulating hours: 9.7hrs Krevs: 32.9krevs Avg ROP: 10.4 m/hr

## 4.5 Run and cement 36" x 30" conductor

Ran 30" conductor through rotary. Picked up conductor shoe and verified float - OK. Picked up and ran two intermediate joints with OWS and Vetco confirming O-rings and lock ring fully engaged on connections. Picked up and ran 30" crossover joint (ST-2 box down x ALT-2 pin up). Ran 36" crossover joint. Changed handling equipment from 30" to 36". Picked up and ran 36" crossover joint (ALT-2 box down x RL-4HC box up). Changed handling equipment and installed LPWHH. Run LPWHH through rotary down to moonpool.

Installed ball valves on CART, verified ball valves open. Ran into sea with conductor on 5 1/2" HWDP landing string to 420 m MD RKB. Closed ball valves on CART with ROV. Ran in hole with

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conductor on HWDP landing string to 505.2 m MD RKB. Used ROV sonar to assist stabbing in hole. Hole in good condition running in with no set down weights. Verified LPWHH stick up vs. marker buoys: 1.60 m. Verified gyro reading within spec: 0.27 ° pitch; 0.34 ° roll.

Circulated SW in preparation for cement job. Checked for leaks at CART / ball valves: no leaks observed.

Mixed and pumped 69.6 m<sup>3</sup> 1.51 sg Tuned Light XLE V cement. Pumped slurry with 1000 lpm using OAS. ROV sniffer recorded pH of 10.1-12 towards end of cement job. Displaced cement with 1.02 sg EcoSpacer and seawater plus 20.5 m<sup>3</sup> SW (500 l underdisplacement). Closed IBOP immediately upon completing displacement.

WOC while monitoring conductor stick-up and inclination. Observed conductor stick-up at 1.45 m when displacement completed. Adjusted stick-up to 1.85 m and monitored for tide. Cement samples firming up after 4 hrs with firm cement after 5 hrs. Reading on conductor after 5 hrs: stick-up = 1.7 m, pitch = 0 °, roll = -0.2 °. Released CART and took final reading on conductor.

Slacked off weight while monitoring for conductor movement. Final reading did not change when releasing CART: stick-up 1.7 m (LPWHH datum at 429.5 m), pitch = 0 °, roll = -0.2 °. Moved rig 10 m off well location, pulled out and laid down 36" CART.

Table 4.7 Run and Cement 36" x 30" Conductor Details

Run and cement 36" x 30" conductor	Actual
Section objective	<ul style="list-style-type: none"> <li>Run and cement 36" x 30" conductor with 1.5 m stick up, inclination &lt; 1 ° and 300 % excess cement to provide structural strength to support the surface casing and BOP.</li> <li>Isolate possible unconsolidated shallow formations.</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Unable to find hole and stab conductor</li> <li>Unable to get conductor to TD</li> <li>Heavy lifts and use of manual handling equipment</li> <li>Personnel injury due to handling of heavy equipment</li> <li>Landing 36" LPWHH with more than 1° inclination</li> <li>Rig movement, resulting in grouting</li> <li>Loss of rig position due to DP issues</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>Bentonite displacement mud used with great success (late change based on offset data)</li> <li>Cement job carried out with the help of the OAS</li> <li>Successful cement job without innerstring</li> </ul>
Lowlights	<ul style="list-style-type: none"> <li>N/A</li> </ul>
Opportunities	<ul style="list-style-type: none"> <li>Install gyro / ball valves with moonpool horseshoe or consider if it could be installed on drillfloor</li> <li>When drilling exploration wells in area with limited offset wells, CPTs are needed for quality control of the site survey</li> <li>Continue CP cementing without inner string</li> <li>Consider to use cement heavier than 1.51 sg used in operation to avoid u-tube situation in water depth similar to Laushornet</li> </ul>



## 4.6 Drill 26" section

Picked up 26" mud motor BHA and ran in sea to above LPWHH. Stabbed 26" bit into LPWHH and RIH to one stand above TTOC. Skidded rig back to well location. Washed in hole to tagged cement, washed down with SW at 1000 lpm (30 RPM). Tagged with 6 MT at 503.8 m MD RKB, deeper than TTOC as anticipated due to U-tube/water depth.

Drilled float shoe and clean-out rat hole. Drilled float shoe in 45 minutes. Cleaned out rat hole in stages of 1 m. Wiped shoe track and pumped 10 m<sup>3</sup> sweep to clean out debris.

Drilled 26" section from 509 to 516 m MD RKB. Drilled with restricted parameters until BHA exit conductor.

Parameters: 4000 lpm; SPP: 120-130 bar; RPM: 40 at surface, 160 at bit; torque: 3-6 kNm; WOB: 1-4 MT; instantaneous ROP: 2-25 m/hr; average ROP: 14 m/hr; drilling with mud pulse telemetry; using seawater and sweeps.

Drilled 26" section from 516 to 655 m MD RKB with restricted parameters initially until BHA out of conductor, then staged up ROP from 20-25 m/hr to 60 m/hr, increasing flow to 4200 lpm and surface rotation to 60 RPM.

Parameters: 4000-4500 lpm; SPP: 120-160 bar; RPM: 40-80 at surface, 160-215 at bit; torque: 5-10 kNm; WOB: 1-10 MT; instantaneous ROP: 1-80 m/hr; average ROP: 23.2 m/hr; drilling with mud pulse telemetry; pumping 10 m<sup>3</sup> sweep each single and spotted sweep around BHA on connections.

Observed hard formation in interbedded formation from 562 to 585 m MD RKB (similar to pilot hole) with ROP dropping off. ROP increased when exiting interbedded formation at 585 m MD RKB, with ROP increasing to 60-80 m/hr. Monitored well for verticality, with hole inclination increasing out of conductor to 1.19° at 565 m MD RKB. Projected distance to pilot hole at 650 m MD RKB was 21.5 m.


Drilled 26" section from 655 m MD RKB to section TD at 1163 m MD RKB.

Parameters: 4500 lpm; SPP: 160-200 bar; RPM: 80-100 at surface, 215-235 at bit; torque: 9-25 kNm; WOB: 8-20 MT; instantaneous ROP: 25-80 m/hr; average ROP: 41.1 m/hr over entire section.

Performed TD survey. Wellpath 8 m from plan (North 7.66 m, West 2.56 m) with inclination of 0.26° degree 25 m away from pilot hole.

Circulated clean with seawater and sweeps, two bottoms-up and displaced to 1.40 sg KCl WBM. Performed flow check – well static.

Pulled out of hole from 1130 m MD RKB. Experienced drag and overpull from first stand when starting to pull. Attempted to work pipe and wipe tight area with 20 MT overpull at 1102 m MD RKB several times with no success. Attempted to work pipe and wiped through with up to 30 MT overpull without success. Set down 20 MT before sliding down.

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Lubricated out of hole with 26" drilling assembly from 1106 to 950 m MD RKB. Attempted to lubricate out with 500 lpm and no rotation, observed 25 MT overpull. Increased lubrication flowrate to 1000 lpm and initiated 20 RPM, with 3-25 kNm torque. Pulled through and ran back in hole to drift, OK.

Attempted to resume POOH at 1082 m MD RKB - observed overpulls and sticky conditions. Lubricated out of hole with 500 lpm and 20 RPM to 950 m MD RKB with torque dropping off. Monitored for overpull, torque and SPP increase. Hole in good condition every time BHA RIH, no significant set down weights observed.

Pulled out of hole to above LPWHH with 26" drilling BHA. Pulled on elevators from 900 m MD RKB, no further issues observed. Topped up well with 1.40 sg WBM at 446 m MD RKB. Observed string and BHA completely balled up when at surface. Observed significant amount of cuttings around LPWHH covering ports. Pulled out of sea and laid down 26" drilling BHA. Skidded rig 10 m off location. Bit grading: 1-0-WT-G-F-I-NO-TD.

Cleaned around LPWHH and cementing ports with 3 1/2" diverter shoe stinger on 5 1/2" string. Stabbed stinger into all quadrants around the wellhead. Set down 2-3 MT, cleaned debris (hard cutting and gumbo) with 4000 lpm and 10 RPM. Cleaned and flushed with 80 m<sup>3</sup> excess bentonite mud. Cleared up all LPWHH circulation ports during cleaning run. Pulled out of sea and laid down stinger.

Table 4.8 Drill 26" Section Details

Drill 26" section		Actual
Section objective	<ul style="list-style-type: none"> <li>• Drill out 30" conductor shoe</li> <li>• Drill 26" hole to section TD at 1163 m TVD RKB and provide sufficient formation integrity for drilling 16 1/2" section to planned TD</li> </ul>	<ul style="list-style-type: none"> <li>• All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>• Boulders and hard formation (compromising directional control / vibration/ risk of bit damage)</li> <li>• Proximity risk / communication with shallow gas pilot hole</li> <li>• Bit balling</li> <li>• Stuck pipe / tight hole</li> <li>• Loss of rig position due to DP issues</li> </ul>	<ul style="list-style-type: none"> <li>• No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>• Good ROP over the entire section</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>• Observed significant amount of cuttings around LPWHH covering ports - spent 5.25 hours cleaning around the LPWHH</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>• Consider using a cuttings exhaust system to blow cuttings away from wellhead</li> </ul>	


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Table 4.9 26" Bit Summary

BIT DATA							
Bit Number	:	2	Nozzles	:	3x20,1x18		
Bit Size (in)	:	26.000	TFA (in2)	:	1.1689		
Manufacturer	:	HDBS	Dull Grade In	:	NEW		
Model	:	SR16DRC	Dull Grade Out	:	0-1-WT-G-F-I-NO-TD		
Serial Number	:	13484028					

PERFORMANCE Section A							
Parameter	Min	Max	Avg	Activity	Hours	BHA Weight	(mton)
WOB (mton)	1	21	13	Drilling	19.50	in Air (Total)	52.46
RPM (rpm)	20	100	81	Reaming	2.25	in Mud (Total)	45.59
Flow (lpm)	3500	4500	4359	Circ-Other	4.50	in Air (Bel Jars)	28.71
SPP (bara)	98	198	169	Total	26.25	in Mud (Bel Jars)	24.95

COMMENTS
Drilling hours: 10.9hrs Circulating hours: 24.6hrs Total Krevs: 254.9krevs (54.1 Off Bottom and 200.8 On Bottom). Avg ROP: 41.1 m/hr

## 4.7 Run and cement 20" surface casing

Rigged up for running 20" surface casing. Made up and racked back cement head stand. Rigged up 20" elevators, bails and 20" slips.


Made up shoe joint and landing collar, installing 4x anti-rotation keys on shoe track joint. Made up 3x centralized 129# joints as per tally, installing 2x anti-rotation keys. Ran 20" surface casing as per tally filling each joint with 1.40 sg KCI WBM. Ran 20" casing to above LPWHH and stabbed into LPWHH. Several attempts to stab in required due to rig movement. Finally stabbed into LPWHH with assistance from ROV.

Ran in hole with 20" casing to 30" conductor shoe at 505.20 m MD RKB. Filled each joint with 1.40 sg KCI WBM. Monitored casing running with ROV at LPWHH. No damage observed on centralizers entering the well (from pushing through rotary).

Continued to run 20" casing as per tally at 8 joints/hr, filling each joint with 1.40 sg KCI WBM. No restrictions observed while running casing in open hole. Made up crossover joint. Picked up 18 3/4" HPWHH with running CART and made up to crossover joint. Picked up HPWHH and engaged 3x rotation keys on wellhead Ulti-Max connection. Ran 20" casing on 5 1/2" HWDP landing string. No restrictions observed while running casing to setting depth.

Made up cement stand and established circulation with 500 - 1800 lpm SW. Ran and landed 18 3/4" HPWHH as per Baker instruction. Took 30 MT overpull on HPWHH to confirm latched in place. HPWHH datum = 428.64 m MD RKB.

Staged up circulation with seawater to 3000 lpm. Pumped 31.6 m<sup>3</sup> of 1.20 sg EcoSpacer at 3000 lpm. Dropped dart for bottom wiper plug, observed wiper plug shear with +/- 95 bar after 2.8 m<sup>3</sup> pumped. Pumped 184.7 m<sup>3</sup> of lead 1.50 sg Tuned Light XLE V slurry at steady 1270 lpm with OAS. Observed bottom plug bypass with +/- 104 bar after pumping approximately 125 m<sup>3</sup> cement. Pumped 41 m<sup>3</sup> of tail 1.50 sg Tuned Light XLE V slurry at steady 1270 lpm with OAS. Dropped dart for upper wiper plug, displaced cement with 3500 l drill water and observed wiper

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plug shear with +/- 77 bar after 2.8 m<sup>3</sup> pumped. Displaced cement with seawater at 4000 lpm. Reduced rate to 3500 lpm towards the end of the displacement due to 100 bar pump pressure. Reduced further to 1500 lpm after 6600 strokes to bump plug. Returns on seabed throughout cement job. Observed plug bump after 7087 strokes (97.2% efficiency). Pressure tested 20" casing by increasing pressure from FCP at 78 bar to 110 bar for 10 min, OK. Verified floats holding, OK. Observed for cement build-up around wellhead - no significant build-up seen. ROV sniffer recorded pH of 13.1.

Released CART with 5 RH turns and pulled free with 2 MT overpull. Pulled out of sea with 5 1/2" HWDP landing string and CART.

Moved rig 25 m off location and started anchor handling.

Table 4.10 Run and Cement 20" Surface Casing Details

Run and cement 20" surface casing		Actual
Section objective	<ul style="list-style-type: none"> <li>Run and cement surface casing at required depth for next section</li> <li>Pressure test casing to 110 bar with 1.03 sg SW</li> <li>Ensure structural support for installing BOP</li> </ul>	<ul style="list-style-type: none"> <li>All objectives met</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Stuck casing</li> <li>Unable to get cement to seabed (losses while cementing)</li> </ul>	<ul style="list-style-type: none"> <li>No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>Landed surface casing as planned and cement verified at seabed</li> <li>1.61 sg LOT achieved for next section</li> <li>20" surface casing cemented with 1270 lpm for the 1<sup>st</sup> time on DSN</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>ROV required to stab 20" surface casing into LPWHH due to weather</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>N/A</li> </ul>	

## 4.8 Run BOP and riser

Rigged up BOP and riser handling equipment. Meanwhile completed anchor handling.

Ran BOP to seabed. Performed test of kill and choke lines to 20/850 bar with BOP below splash. Tested BOP lines above HPWHH to 20/850 bar. Made up ROPS, slip joint and linding joint. Tested lines with ROPS made up. Connected tension ring and gator lock to slip joint. Skidded rig and landed BOP on the wellhead, setting down 60 T on wellhead and activated latch function. Performed 50 T overpull test. Stroked out slip joint. Laid down landing joint and made up diverter.

The riser was run with an average running speed of 2.54 jts/hr.

Rigged down BOP and riser handling equipment.

Offline, performed test on wellhead connector to 20/110 bar for 5/60 min. Observed minor leak off trend. Bled off pressure and lined up down choke line only, repeated test to 20/110 bar for 5/60 minute. Repeated connector test (3<sup>rd</sup> test) to 20/ 110 bar for 5/60 min (required by Odfjell due to minor bleed-off trend).


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Table 4.11 Run BOP and Riser Details

Run BOP and riser		Actual
Section objective	<ul style="list-style-type: none"> <li>• Run BOP and marine riser</li> <li>• Install anchor lines</li> </ul>	<ul style="list-style-type: none"> <li>• All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>• Heavy equipment</li> <li>• Manual handling</li> <li>• Dropped objects</li> </ul>	<ul style="list-style-type: none"> <li>• No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>• Performed 60 min connector test offline</li> <li>• Anchors handling done offline</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>• Repeated 60 min connector test due to minor bleed-off trend (however all testing done offline)</li> <li>• Leaking IBOP on top drive – 2 hrs NPT</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>• Install all anchor lines offline while running the BOP and riser when water depth allows to drill top holes in DP mode</li> </ul>	

## 4.9 Drill 16 1/2” section

Picked up 16 1/2” iCruise BHA. Performed wired telemetry testing as per NOV. Observed poor signal when testing wired telemetry (high attenuation on DC/jar stand). Troubleshoot by laying out one joint and re-testing. Found issue in below jar and laid out same (1 hr downtime). Continued to run in hole with 16 1/2” iCruise BHA on 5 1/2” WDP to 1106 m MD RKB. Filled pipe and broke circulation with SW. Established circulation with SW at 2000 lpm and tagged TOC at 1134.5 m MD RKB with 5 MT. Displaced well from SW to 1.40 sg BaraECD 2.2. Drilled on plug set - struggled with lower plug, varied parameters 20-120 RPM, torque 2-10 kNm, 3500-4500 lpm and 2-12 MT. Drilled cement in shoetrack and cleaned out rat hole. Spent a total of 3.3 hours to drill out the shoetrack with 2.5 hours spent on the wiper plug set.

Drilled 3 m of new formation from 1163 to 1166 m MD RKB with 3500 lpm and 80 RPM. Pulled back into 20” casing shoe and circulated cement cuttings well above BHA. Confirmed even mud weight 1.40 sg in/out and performed LOT to 1.61 sg EMW. Pumped 396 litres to a pressure of 38.5 bar. Observed line break over after 23.4 bar (EMW = 1.61 sg). Held for 20 minutes, good LOT.


Drilled 16 1/2” section from 1166 to 1495 m MD RKB. Reduced ROP to 60 m/hr for cuttings handling due to clogged cuttings conveyor screw B when brought into service.

Parameters: 4200-4400 lpm; SPP: 280-320 bar; RPM: 100-120; torque: 12-20 kNm; WOB: 2-8 MT; MW: 1.40 sg; ECD: 1.42-1.43 sg; ESD: 1.39-1.42 sg; instantaneous ROP: 50-80 m/hr; average ROP: 53.5 m/hr; drilled using WDP telemetry; hole cleaning: average 14 m drilled/skip; max gas: 0.5 %.

Drilled 16 1/2” section from 1495 to 1846 m MD RKB. Increased ROP to 80 m/hr after cuttings conveyor screw B problem solved. Started mud cooler at 1594 m MD RKB with 25% efficiency, increased to 50% at 1682 m MD RKB.

Parameters: 4200-4400 lpm; SPP: 300-340 bar; RPM: 120; torque: 12-22 kNm; WOB: 6-12 MT; MW: 1.40 sg; ECD: 1.43-1.44 sg; ESD: 1.42-1.43 sg; instantaneous ROP: 50-80 m/hr; average ROP: 58.5 m/hr; drilled using WDP telemetry; hole cleaning: average 13 m drilled/skip; max gas: 0.7 %.

Drilled 16 1/2” section from 1846 to 2139 m MD RKB. Observed top Balder fm. at 1906 m MD RKB.

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Parameters: 4400 lpm; SPP: 340-355 bar; RPM: 120; torque: 18-22 kNm; WOB: 10-14 MT; MW: 1.40 sg; ECD: 1.43-1.44 sg; ESD: 1.42-1.43 sg; instantaneous ROP: 30-80 m/hr; average ROP: 48.9 m/hr; drilled using WDP telemetry; hole cleaning: average 13 m drilled/skip; max gas: 0.6 %.

Drilled 16 1/2" section from 2139 to 2433 m MD RKB. Observed top Kyrre fm. at 2224 m MD RKB. Observed more erratic torque and slight elevation in gas reading while drilling Kyrre fm. (up to 3.2%). Started rig degassers.

Parameters: 4400 lpm; SPP: 350-365 bar; RPM: 120; torque: 18-24 kNm; WOB: 10-16 MT; MW: 1.40 sg; ECD: 1.43-1.44 sg; ESD: 1.42-1.43 sg; instantaneous ROP: 30-80 m/hr; average ROP: 49 m/hr; drilled using WDP telemetry; hole cleaning: average 14 m drilled/skip.

Drilled 16 1/2" section from 2433 to 2909 m MD RKB. Observed erratic torque and intermittent limestone stringers through Kyrre fm. Adjusted RPM based on medium stick-slip while drilling interval.

Parameters: 4300-4400 lpm; SPP: 360-370 bar; RPM: 120-140; torque: 20-32 kNm; WOB: 10-16 MT; MW: 1.40 sg; ECD: 1.42-1.43 sg; ESD: 1.41-1.42 sg; instantaneous ROP: 20-70 m/hr; average ROP: 39.6 m/hr; drilled using WDP telemetry; hole cleaning: average 13 m drilled/skip; max gas: 2.3 - 5.7 %.

Drilled 16 1/2" section from 2909 section TD at 3088 m MD RKB. Continued to observe erratic torque and intermittent limestone stringers through Kyrre fm.

Parameters: 4300-4400 lpm; SPP: 365-370 bar; RPM: 140; torque: 24-30 kNm; WOB: 14-16 MT; MW: 1.40 sg; ECD: 1.41-1.42 sg; ESD: 1.40-1.41 sg; instantaneous ROP: 20-40 m/hr; average ROP: 28.3 m/hr; drilled using WDP telemetry; hole cleaning: average 13 m drilled/skip; max gas: 1.3 %.

A total of 970.3 MT of OBM contaminated cuttings was generated in the entire 16 1/2" hole section. A total of 52 CTT tanks and 6 skips was filled. All OBM contaminated cuttings were sent to shore for treatment and disposal. 183 m<sup>3</sup> of ENVIROMUL/BaraECD mud was used as cuttings/lubrication mud for cuttings transfer from rig to vessel.

Performed TD survey. Wellpath 7.5 m from plan (7.39 m South, 2.34 m East). The hole was circulated clean at TD with 4400 lpm. The string was reciprocated over a stand and rotated with 45 RPM. The riser was boosted with 1200 lpm after racking back the first stand. LWD temperature (PWD and EWR) while circulating clean was 75 °C. Pumped 3x bottoms up, observed cuttings tailing off after 2.5x bottoms up.

Performed 10 min flowcheck with 10 RPM. Pulled out of hole with 16 1/2" iCruise BHA to surface - no issues. Laid down 16 1/2" iCruise BHA. Bit grading 2-1-CT-A-X-I-WT-TD.


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Table 4.12 Drill 16 1/2" Section Details

Drill 16 1/2" section		Actual
Section objective	<ul style="list-style-type: none"> <li>• Drill out 20" surface casing shoe</li> <li>• Perform LOT</li> <li>• Drill 16 1/2" hole to section TD in one run</li> </ul>	<ul style="list-style-type: none"> <li>• All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>• Swelling clays</li> <li>• Cutting handling and transfer</li> <li>• Elevated gas in mud levels</li> </ul>	<ul style="list-style-type: none"> <li>• No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>• Drilled 16 1/2" section in one run with average ROP of 49.7 m/hr - one of the best run in the Tampen area</li> <li>• BaraECD 2.2 OBM used successfully in 16 1/2" hole section (no issues with reactive shales, MW stable at all times, good hole cleaning)</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>• High attenuation on wired jar stand - 1 hr NPT</li> <li>• Conveyor plugged up during drilling of 16 1/2" section with 80 m/hr</li> <li>• Used more lubrication mud than required due to manual operations of lubrication pump</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>• Consider to update OBM checklist</li> <li>• Consider to reduce mud weight slightly in the 16 1/2" section</li> <li>• Update Odfjell procedure - complete all required surface tests prior to exposing new hole</li> <li>• Consider to standardize LOT plots</li> <li>• Update BSS procedure when "changing over/bring on" 2<sup>nd</sup> conveyor and blowers</li> <li>• Consider to use a better quality lubrication mud to reduce transfer time from rig to vessel</li> <li>• Continue to use 16 1/2" bit (instead of 17 1/2") where applicable</li> <li>• Continue to use BaraECD 2.2 OBM in future wells in the Tampen area</li> </ul>	

Table 4.13 16 1/2" Bit Summary

BIT DATA							
Bit Number	: 3	Nozzles	: 5x16,4x14				
Bit Size (in)	: 16.500	TFA (in2)	: 1.5831				
Manufacturer	: HALLIBURTON	Dull Grade In	: NEW				
Model	: GTi66WMKHOs	Dull Grade Out	: 2-1-CT-A-X-I-WT-TD				
Serial Number	: 13711504						

PERFORMANCE Section A							
Parameter	Min	Max	Avg	Activity	Hours	BHA Weight (mton)	
WOB (mton)	: 3	: 16	: 11	Drilling	: 43.75	in Air (Total)	: 58.23
RPM (rpm)	: 100	: 140	: 120	Reaming	: 3.50	in Mud (Total)	: 47.94
Flow (lpm)	: 3500	: 4400	: 4314	Circ-Other	: 6.75	in Air (Bel Jars)	: 32.52
SPP (bara)	: 204	: 369	: 338	Total	: 54.00	in Mud (Bel Jars)	: 26.77


  

COMMENTS
Drilling cement hours: 3.5hrs Drilling formation hours: 38.8 hrs Circulating hours: 52.5hrs Avg ROP: 49.7 m/hr

## 4.10 Run and cement 13 5/8" casing

Ran in hole with the Vortex sub and WBRRT. Latched onto NSP and pulled free with 92 MT overpull (expected to pull with 11 MT). Pulled the NSP above the BOP and jetted the wellhead and BOP 3 times with 2000 lpm while boosting riser. Pulled NSP to surface - observed rubber donut from 20" plug set on top of NSP. Made up cement head and racked back same.

Rigged up to run 13 5/8" casing.

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Picked up and ran shoe track stand. Ran 13 5/8" casing stands as per tally and according to surge calculations. Observed returned volumes deviating from 800-900 m MD RKB with running speed of 70 m/min, equivalent to 1.48 sg surge. Broke circulation and took up/down weights at 20" casing shoe. Continued running the 13 5/8" casing and observed dynamic loss trend continuing - reduced running speed accordingly. Dynamic losses while running in hole with casing at 1.46 sg equivalent MW (running speed 6 m/min). Approximate loss rate equivalent to closed end displacement of a 13 5/8" stand. Spike in losses observed when passing sand zone at 1574-1591 m MD RKB. No static losses or wellbore breathing observed. Total losses while running 13 5/8" casing to casing hanger: 113 m<sup>3</sup>. Loss rate 2.5-3.3 m<sup>3</sup>/std constant trend since passing 1590 m MD RKB.

Installed 13 5/8" casing hanger/PADPRT assembly. Observed 2 m<sup>3</sup> increase on trip tank while picking up 13 5/8" PADPRT. Ran in hole with 13 5/8" casing on landing string. Observed partial losses when establishing 200-500 lpm for landing casing hanger. Ran in cement stand to land casing hanger and set off 10 MT with shoe at 3072 m MD RKB. Picked-up and re-attempted to land. Checked bullseye and rig position, set off 10 MT at 3072.5 m MD RKB. Estimated 16 m of fill from TD. Increased circulation to 750 lpm to wash down to setting depth. Observed steady progress while washing in hole with 750 lpm. Reached casing setting depth, landed casing hanger and set down all casing weight. Performed 45 MT overpull test on casing and confirmed PADPRT free. Total losses while running casing to landing hanger was 125 m<sup>3</sup>.

Established pre-cement job circulation with full returns at 750 lpm. Staged up flow to 1000-1200 lpm and losses started again, so reduced back to 500 lpm with marginal loss rate and went straight to cement job. Pumped 31.6 m<sup>3</sup> of 1.45 sg EcoSpacer at 1000 lpm. Observed 26.2 m<sup>3</sup> lost while pumping spacer. Mixed and pumped 25.1 m<sup>3</sup> of 1.92 sg ExpandaCem D NS slurry with OAS - 80% loss rate while pumping cement. Dropped ball for bottom wiper plug, observed wiper plug shear with +/- 45 bar after 1150 l pumped. Dropped dart for upper wiper plug, displaced cement with 3500 l DW and observed wiper plug shear with +/- 207 bar after 2.7 m<sup>3</sup> pumped. Displaced cement with 1.40 sg OBM at 2000 lpm - lost 190 m<sup>3</sup> during displacement (92% loss rate). Reduced displacement rate to 1000 lpm before bottom plug landing, however, did not observe bottom plug bypass. Observed cement lift pressure from 53 to 84 bar. Estimated TOC based on lift pressure: 2600 m MD RKB. Observed plug bump on strokes equivalent to 96.5% efficiency. Pressured up to 120 bar and held for 5 minutes and verified floats were holding. Observed 6 m<sup>3</sup> increase on annulus while holding 120 bar and checking for backflow.

Note: It was planned to pressure test the 13 5/8" intermediate casing to 455 bar on bump. In order to do so, high strength SSR plug sets were purchased for Laushornet. However, it was found out late in the planning process that the PADPRT tool is limited to 344 bar. It is therefore not possible to pressure test the casing on the bump even with a high strength SSR plug set.

Set 13 5/8" seal assembly as per Baker procedure. Closed UPR and applied 35/241 bar to confirm seal set. Bled off pressure and opened UPR. Applied 45 MT overpull and released PADPRT from seal assembly. Maintained 45 MT overpull, closed UPR and pressure tested seal assembly to 20/528 bar for 5/10 min - OK. Opened UPR and pulled PADPRT free. Pulled out of hole with PADPRT.

Ran in hole with Vortex sub & WBRRT. Set down 10 MT to install the 13 5/8" WB. Dropped 2 7/8" drift, pulled out of hole with Vortex assembly and laid down WBRRT.


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Table 4.14 Run and Cement 13 5/8" Casing Details

Run and cement 13 5/8" casing	Actual	
Section objective	<ul style="list-style-type: none"> <li>Retrieve NSP</li> <li>Run and cement 13 5/8" intermediate casing at required depth to achieve enough kick tolerance for drilling the 12 1/4" section</li> <li>Test 13 5/8" casing to section design pressure of 455 bar</li> <li>Set and test 13 5/8" seal assembly</li> </ul>	<ul style="list-style-type: none"> <li>All objectives met</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Unable to run 13 5/8" casing to planned setting depth</li> <li>Losses when running casing</li> <li>Losses during cementing</li> </ul>	<ul style="list-style-type: none"> <li>Losses experienced when running and cementing 13 5/8" casing</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>Estimated 400+ m cement column based on job performance despite losses</li> <li>1.88 sg LOT achieved for next section</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>Losses encountered while running / cementing 13 5/8" intermediate casing</li> <li>CRTi arrives on the rig without the mud saver</li> <li>Pulled NSP free with 92 MT</li> <li>Could not pressure test 13 5/8" intermediate casing to 455 bar on bump due to limitation on PADPRT</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>Do not use high strength plug sets (PADPRT has lower pressure rating)</li> <li>Consider Superfill shoe to reduce surge pressure during casing running</li> </ul>	

## 4.11 Drill 12 1/4" section


Picked up 12 1/4" RSS BHA. Observed no response on resistivity when programming tools. Contacted onshore support and agreed to continue RIH and reset tool in conjunction with next NOV wired pipe test. Performed 13 5/8" casing test to 20/455 bar for 5/10 min offline while picking up 12 1/4" RSS BHA.

Ran in hole with 12 1/4" RSS BHA on 5 1/2" WDP to one stand above TTOC (Handled RA sources and tested wired telemetry when RIH as per NOV). Established 2500 lpm and washed in hole to tag top of cement at 3049 m MD RKB. Displaced well from 1.40 sg OBM to 1.65 sg OBM as per displacement plan.

Drilled out 13 5/8" shoetrack in 3.83 hours. Struggled to drill plug set, varied parameters for 2 hours before deciding to mash plugs by cycling WOB up to 12 MT. Drilled shoe track cement with 26 m/hr and 3000 lpm. Drilled through 13 5/8" casing shoe. Reamed back into 13 5/8" shoe to ensure free. Cleaned out 16 1/2" rat hole and drilled 3 m of new formation from 3088 to 3091 m MD RKB. Confirmed MW in/out at 1.66 sg and performed LOT. Observed pressure break off at 67.5 bar, equivalent to 1.88 sg EMW. Held pressure for 10 min, good LOT.

Drilled 12 1/4" section from 3091 to 3307 m MD RKB. Observed ECD spikes in interval from 3263-3288 m MD RKB up to 1.78 sg. WSG evaluated returns from ECD spike area at BU, re-worked cuttings. Performed "HPHT fingerprinting light", calibrated EWS. Reduced MW50 from 1.65 sg to 1.64 sg towards 3307 m MD RKB to reduce ESD/ECD from 1.68/1.71 sg.

Parameters: 3400 lpm; SPP: 350-365 bar; RPM: 120-160; torque: 20-30 kNm; WOB: 14-18 MT; MW50: 1.65 sg; ECD: 1.68-1.71 sg; ESD: 1.65-1.68 sg; instantaneous ROP: 20-60 m/hr; average ROP: 35 m/hr; drilled with WDP telemetry; hole cleaning: average 15 m drilled/skip; max gas: 0.8 %.

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Drilled 12 1/4" section from 3307 to 3527 m MD RKB. Observed top Trygvason fm. at 3351 m MD RKB. Performed "HPHT fingerprinting light" from 3432 to 3478 m MD RKB with 3600 lpm for two connections.

Parameters: 3400-3600 lpm; SPP: 350-390 bar; RPM: 130-140; torque: 20-28 kNm; WOB: 8-16 MT; MW50: 1.64 sg; ECD: 1.68-1.70 sg; ESD: 1.66-1.68 sg; instantaneous ROP: 30-60 m/hr; average ROP: 36.6 m/hr; drilled with WDP telemetry; hole cleaning: average 17 m drilled/skip; max gas: 1.2 %.

Drilled 12 1/4" section from 3527 to 3730 m MD RKB. Started rig degasser at 3640 m MD RKB when observing 1.7 % gas. Observed ECD spikes of 1.86-1.90 sg around 3665 m MD RKB. Realtime pore pressure estimated at 1.37 sg at 3680 m MD RKB. Formation temperature vs. EWR reading at 3725 m: deltaT = 25.5°C below formation temperature. Mud cooler was not used throughout the 12 1/4" section. Varied RPM according to stick-slip readings.

Parameters: 3400 lpm; SPP: 350-365 bar; RPM: 140-160; torque: 20-25 kNm; WOB: 10-16 MT; MW50: 1.64 sg; ECD: 1.68-1.69 sg; ESD: 1.65-1.66 sg; instantaneous ROP: 20-60 m/hr; average ROP: 33.8 m/hr; drilled with WDP telemetry; hole cleaning: average 20 m drilled/skip; max gas: 2.3 %.

Drilled 12 1/4" section from 3730 m to section TD at 4144 m MD RKB. Observed Rødby fm. at 3762 m MD RKB. Reduced ROP at 3900 m MD RKB as per "HPHT light" procedures to have one pumps off event at a time in annulus. Observed BCU at 4095 m MD RKB. Real-time pore pressure estimated to 1.50 sg at total depth. Varied RPM according to stick-slip readings. Circulating temperature at total depth measured by LWD at 109 °C. Prognosed static temperature estimated at 137.6 °C at 4144 m MD RKB.

Parameters: 3400 lpm; SPP: 360-370 bar; RPM: 130-145; torque: 12-27 kNm; WOB: 2-14 MT; MW50: 1.65 sg; ECD: 1.68-1.69 sg; ESD: 1.65-1.66 sg; instantaneous ROP: 20-50 m/hr; average ROP: 26.7 m/hr; drilled with WDP telemetry; hole cleaning: average 18-20 m drilled/skip; max gas: 4.6 %.

A total of 333 MT of OBM contaminated cuttings was generated through the 12 1/4" section. A total of 57 skips was filled. All OBM contaminated cuttings were sent to shore for treatment and disposal. 54 m<sup>3</sup> of ENVIROMUL mud was required as cuttings/lubrication mud in the section.

Circulated one bottoms up. Performed 10 minute flowcheck with 10 RPM. Re-established hole cleaning parameters and checked for fill before racking stand. Racked stand and continued circulating clean. Started boosting riser with 1400 lpm. Continued circulating hole clean with 3400 lpm and 45 RPM. Observed cuttings tailing off after 2 bottoms up. Monitored well response from bottoms up with pumps off during flowcheck at TD. No indication of gas. Circulated a total of 2.7 x bottoms up.

Lubricated out of hole with 750 lpm to 13 5/8" casing shoe. Observed 10 MT overpull at 3854 m MD RKB with BHA in interbedded Rødby formation (limestone stringers). Ran back in hole and pulled past on 2<sup>nd</sup> attempt. Observed 1.71 sg surge when running back in hole on PWD. Observed 15 MT overpull at 3821 m MD RKB with BHA in interbedded Rødby formation (limestone stringers). Ran back in hole and pulled past on 2<sup>nd</sup> attempt. Observed 1.62 sg swab when pulling overpull on PWD. Overall hole in good condition.

Performed flow check at 13 5/8" shoe. Pulled out of hole to surface and laid down 12 1/4" RSS BHA. Bit grading 1-1-NO-A-X-I-WT-TD.


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Table 4.15 Drill 12 1/4" Section Details

Drill 12 1/4" section	Actual	
Section objective	<ul style="list-style-type: none"> <li>Drill 12 1/4" hole to section TD</li> <li>Optimise section TD on finding a good casing point</li> </ul>	<ul style="list-style-type: none"> <li>All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Geological uncertainty - Agat sand</li> <li>Well control - elevated pressure</li> <li>Elevated gas in mud levels expected</li> <li>Riser margin compromised towards end of section</li> </ul>	<ul style="list-style-type: none"> <li>No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>Drilled 12 1/4" section in one run with average ROP of 36.8 m/hr - better than offset wells</li> <li>Net Weight to Weight record when drilling 12 1/4" hole - average of 2.32 mins</li> <li>8" iCruise performed well holding vertical throughout the run (aligned to the target verticality in a complex fault bounded structure)</li> <li>Very good data quality even at higher ROP (wDP)</li> <li>Realtime pore-pressure prediction service assisted in keeping mud weight low in 12 1/4" section</li> <li>Good performance from Bara ECD 2.2 OBM</li> <li>Good use of MW50, MWESD in 12 1/4" section</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>N/A</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>Consider to upgrade lubrication mud properties (increase viscosity to improve cuttings transfer)</li> <li>Mud cooler not required for this kind of water depth (399 m at PWL) - cooling of the mud in the riser and a relatively moderate flowrate (3400 -3600 lpm) is enough to control the downhole temperature</li> <li>Consider to lubricate string out to 13 5/8" shoe</li> <li>Evaluate to stop doing TD surveys on all sections unless absolutely critical for AC or target</li> </ul>	

Table 4.16 12 1/4" Bit Summary

BIT DATA							
<b>Bit Number</b>	:	4	<b>Nozzles</b>	:	2x16,1x15,7x14		
<b>Bit Size (in)</b>	:	12.250	<b>TFA (in2)</b>	:	1.6176		
<b>Manufacturer</b>	:	HDBS	<b>Dull Grade In</b>	:	NEW		
<b>Model</b>	:	GTi76WRKOs	<b>Dull Grade Out</b>	:	1-1-NO-A-X-I-DL-TD		
<b>Serial Number</b>	:	13623712					

PERFORMANCE Section A							
Parameter	Min	Max	Avg	Activity	Hours	BHA Weight	(mton)
<b>WOB (mton)</b> :	5	17	12	<b>Drilling</b> :	33.25	<b>in Air (Total)</b> :	60.12
<b>RPM (rpm)</b> :	130	160	140	<b>Reaming</b> :	6.00	<b>in Mud (Total)</b> :	47.50
<b>Flow (lpm)</b> :	3375	3600	3405	<b>Circ-Other</b> :	4.50	<b>in Air (Bel Jars)</b> :	32.93
<b>SPP (bara)</b> :	352	390	362	<b>Total</b> :	43.75	<b>in Mud (Bel Jars)</b> :	26.02

COMMENTS
Drilling cement hours: 2.0 hrs Drilling formation hours: 28.7 hrs Circulating hours: 45.0hrs Total Krevs: 308.3 krevs Avg ROP: 36.8 m/hr



## 4.12 Run and cement 9 7/8" casing

Ran in hole with the Vortex sub and WBRRT. Washed wellhead area and latched onto 13 5/8" WB (sat down 7 MT) as per Baker procedures. Pulled 13 5/8" WB free with 50 MT overpull. Pulled the 13 5/8" WB above the BOP and jetted the wellhead and BOP 3 times with 2000 lpm while boosting riser with 1500 lpm. Pulled 13 5/8" WB to surface and racked back Vortex stand. Made up cement head and racked back same.

Rigged up for running 9 7/8" casing.

Picked up and ran shoe track stand. Ran 9 7/8" casing stands on CRTI as per tally and according to surge calculations. Broke circulation and took up/down weights prior to running into open hole. Continued running the 9 7/8" casing in open hole. Maximum casing running speed in cased hole: 72 jts/hr.

Installed 9 7/8" casing hanger/PADPRT assembly. Ran in hole with 9 7/8" casing on landing string. Ran in cement stand to land casing hanger and set down 7 MT with shoe at 4140.6 m MD RKB. Performed 45 MT overpull test on casing and confirmed PADPRT free.


Established pre-cement job circulation with full returns at 200 lpm. Staged up flow to 1500 lpm - no losses. Mixed and pumped 28.9 m<sup>3</sup> of 1.75 sg EcoSpacer at 1500 lpm. Dropped ball for bottom wiper plug. Mixed and pumped 15.5 m<sup>3</sup> of 1.91 sg ExpandaCem HT D NS slurry at 700 lpm with OAS. Observed bottom wiper plug shear with +/- 150 bar after 1.5 m<sup>3</sup> pumped. Dropped dart for upper wiper plug (dart did not drop from remote panel), displaced cement with 3500 l DW and observed wiper plug shear with +/- 175 bar after 2.8 m<sup>3</sup> pumped. Displaced cement with 1.65 sg OBM at 1500 lpm. Reduced rate to 1000 lpm after 8000 strokes, however, did not observe bottom plug bypass. Observed cement lift pressure from 77 to 84 bar. Estimated TOC based on lift pressure: 3808 m MD RKB. Observed plug bump on strokes equivalent to 96.5% efficiency. Pressured up to 140 bar and held for 5 minutes and verified floats were holding. Again, it was not possible to pressure test the 9 7/8" production casing on the bump because of the limitations of the PADPRT tool.

Set 9 7/8" seal assembly as per Baker procedure. Closed UPR and applied 35/241 bar to confirm seal set. Bled off pressure and opened UPR. Applied 45 MT overpull and released PADPRT from seal assembly. Maintained 45 MT overpull, closed UPR and pressure tested seal assembly to 20/767 bar for 5/10 min - OK. Opened UPR and pulled PADPRT free. Pulled out of hole with PADPRT.

Changed saver sub and manual IBOP from 5 1/2" wDP to 5" DP. Pressure tested IBOP to 20/767 bar for 5/10 min - OK.

Ran in hole with Vortex sub & WBRRT. Set down 10 MT to install the 9 7/8" WB. Pressure tested upper and lower annular preventers against WBRRT to 20/483 bar for 5/10 min - no go. Pulled WBRRT free from 9 7/8" WB and re-landed same. Re-attempted to pressure test annulars - inconclusive results on low pressure test due to leaking seals on WBRRT. Washed wellhead twice with 1800 lpm, pulled out of hole with WBRRT and laid down same - observed tear in WBRRT seal with a piece of swarf. Decision made to pressure test upper and lower annular preventers against PTTT. Made up and ran in hole with PTTT. Pressure tested upper and lower annular preventers against PTTT to 20/483 bar for 5/10 min - OK. Pulled out with PTTT.

Made up and ran in hole with EDPHOT/PTTT assembly and landed PTTT in wellhead. Pressure tested pipe rams to 20/767 bar for 5/10 min - OK. Unable to release ACME thread (easy back out

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sub) on EDPHOT for BSR test. Pulled out of hole with EDPHOT/PTTT assembly to inspect ACME pin. Observed EDPHOT barely hanging on ACME pin when reaching rotary table. EDPHOT/PTTT dropped back into the well when making contact with the side of the rotary table (due to rig movement / weather conditions). Broke out ACME sub and ran in hole with NC50 pin to retrieve EDPHOT as per Baker procedures. Tagged EDPHOT/PTTT assembly and engaged EDPHOT. Observed weight gain equivalent to weight of EDPHOT/PTTT assembly. Pulled out to surface with EDPHOT/PTTT assembly and laid out EDPHOT and PTTT.

Pressure tested 9 7/8" casing to 20/500 bar for 5/10 min while discussing way forward. Decision to re-run the EDPHOT/PTTT assembly with weight below the PTTT.


Picked up Vortex tool, 6 3/4" DC and 5" HWDP and ran in hole. Washed wellhead and BOP 3 times with 2000 lpm while boosting riser with 1500 lpm. Made up EDPHOT/PTTT assembly, ran in hole and landed PTTT in wellhead. Closed upper pipe ram and disconnect EDPHOT at the ACME thread (several attempts required). Pulled out of hole with Easy Back-Out sub and laid down same. Pressure tested BSR to 20/767 bar for 5/10 min - OK. Re-tested UPR to 20/500 bar for 5/10 min to ensure no damage from exposure to rotation while attempting to release the EDPHOT - OK. Ran in hole with NC50 pin, engaged EDPHOT and pulled out of hole with assembly. Laid out EDPHOT, PTTT and Vortex tool.

Table 4.17 Run and Cement 9 7/8" Casing Details

Run and cement 9 7/8" casing		Actual
Section objective	<ul style="list-style-type: none"> <li>Retrieve 13 5/8" WB</li> <li>Ensure 9 7/8" casing shoe is set below BCU in order to provide a sufficiently strong shoe to drill the HPHT section</li> <li>Test 9 7/8" casing to section design pressure of 500 bar</li> <li>Set and test 9 7/8" seal assembly</li> </ul>	<ul style="list-style-type: none"> <li>All objectives met</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Unable to run 9 7/8" casing to planned setting depth</li> <li>Losses while running casing</li> <li>Losses during cementing, unable to achieve integrity for drilling next section</li> <li>No riser margin</li> </ul>	<ul style="list-style-type: none"> <li>No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>Textbook running and cementing of the 9 7/8" casing – no losses</li> <li>9 7/8" casing run at max speed of 72 jts/hr (unrestricted / cased hole)</li> <li>Estimated 300+ m cement column based on job performance</li> <li>2.19 sg FIT achieved for next section</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>Failed upper and lower annular preventers pressure test due to tear in WBRRT seal - 3.5 hrs NPT</li> <li>Issues with EDPHOT/PTTT assembly during BOP pressure test - 11.25 hrs NPT</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>Do not use high strength plug sets (PADPRT has lower pressure rating)</li> <li>Consider to add a magnet to the Vortex stand</li> <li>Include sufficient weight below PTTT (20-30 MT) or look into alternative hang off system (ACME vs J-slot system)</li> </ul>	

## 4.13 Drill 8 1/2" section

Picked up 8 1/2" rotary BHA. The string had double floats as per L4 procedure for HPHT drilling. Ran in hole with 8 1/2" rotary BHA on 5" drill pipe to 3803 m MD RKB. Built modified drilling stand for the HPHT section. Ran in hole with 8 1/2" rotary BHA to one stand above the TTOC. Broke circulation, washed in hole with 1000 lpm and tagged TOC at 4093 m MD RKB with 3 MT.

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Displaced well from 1.65 sg BaraECD 2.2 to 1.925 sg (MW50) BaraECD 3.3 mud as per displacement plan with 1800 lpm. Performed HPHT fingerprinting following the fingerprinting plan. As per the planned fingerprinting exercises, lined up and closed UAP and attempted to strip down 5" drill pipe through UAP - nogo with max weight 30 MT. Made second attempt with LAP - nogo when it should be possible to strip through with pipe ranging from 5" through 5 7/8". Decision made to pull out and inspect pipe - observed markings and scratched below tooljoint (hard banding). Tested different stripping method stripping tooljoint through BOP by alternating LAP and UPR and equalising pressure - updated stripping procedure.

Drilled out 9 7/8" shoetrack in 10.2 hrs. Struggled to drill plug set, it took 8.3 hrs to drill out the cementing plugs. Drilled shoe track and 9 7/8" casing shoe. The rathole was cleaned out in steps - observed several torque spikes when reaming back to shoe. Drilled 3 m of new formation from 4145 to 4148 m MD RKB. Pumped back into shoe and performed 30 min PBU test - no pressure buildup recorded. Performed FIT to 2.19 sg EMW.

Drilled 8 1/2" section from 4148 to 4172 m MD RKB. Observed low ROP - attempted to vary parameters without success. Back-reamed from 4172 to 4095 m MD RKB. Circulated bottoms up with 1800 lpm and 120 RPM while reciprocating BHA above landing collar. Reamed down to TD - no restriction.

Parameters: 1400-1600 lpm; SPP: 227-283 bar; RPM: 40-120; torque: 7 kNm; WOB: 4-12 MT; MW50: 1.93 sg; ECD: 2.031 sg; ESD: 1.952 sg; instantaneous ROP: 0-5 m/hr; average ROP: 2.7 m/hr; drilled using mud pulse telemetry; max gas: 0.5 %.

Drilled 8 1/2" section from 4172 to 4199 m MD RKB. Observed sudden increase in ROP and drop in WOB at 4182 m MD RKB, once roller reamer exited the 9 7/8" casing shoe.

Parameters: 1400 lpm; SPP: 227-229 bar; RPM: 120-140; torque: 7-10 kNm; WOB: 9-12 MT; MW50: 1.93 sg; ECD: 2.031 sg; ESD: 1.950-1.952 sg; instantaneous ROP: 1-15 m/hr; average ROP: 7.7 m/hr; drilled using mud pulse telemetry; max gas: 1.3 %.


Drilled 8 1/2" section from 4199 to 4356 m MD RKB. Experienced slow drilling - varied parameters without success. Back-reamed from 4350 to 4311 m MD RKB with 1438 lpm and 140 RPM.

Parameters: 1200-1600 lpm; SPP: 230-300 bar; RPM: 80-140; torque: 10-12 kNm; WOB: 2-12 MT; MW50: 1.92+ sg; ECD: 2.033-2.085 sg; ESD: 1.942-1.956 sg; instantaneous ROP: 1-25 m/hr; average ROP: 9.1 m/hr; drilled using mud pulse telemetry; max gas: 1.95 %.

Drilled 8 1/2" section from 4356 to 4452 m MD RKB. Experienced intermittent ROP - varied parameters without success, reamed part of stand. Reamed stand with 1600 lpm and 133 RPM - observed limited change in well condition after reaming.

Parameters: 1200-1800 lpm; SPP: 239-359 bar; RPM: 130-140; torque: 8-12 kNm; WOB: 8-15 MT; MW50: 1.92+ sg; ECD: 2.050-2.084 sg; ESD: 1.944-1.956 sg; instantaneous ROP: 0-15 m/hr; average ROP: 5.6 m/hr; drilled using mud pulse telemetry; max gas: 3.5 %.

Drilled 8 1/2" section from 4452 to 4556 m MD RKB. Experienced slow drilling - varied parameters and reamed to improve ROP. Circulated well whilst treating the mud system to reduce mud weight to 1.92+ sg (MW50).

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Parameters: 1600-1800 lpm; SPP: 290-359 bar; RPM: 100-140; torque: 9-13 kNm; WOB: 8-15 MT; MW50: 1.93-1.94 sg; ECD: 2.044-2.087 sg; ESD: 1.944-1.957 sg; instantaneous ROP: 1-15 m/hr; average ROP: 5.5 m/hr; drilled using mud pulse telemetry; max gas: 2.9 %.

Drilled 8 1/2" section from 4556 to 4601 m MD RKB. Observed washpipe leaking - changed out same while monitoring the well on trip tank.


Parameters: 1600-1800 lpm; SPP: 292-359 bar; RPM: 140; torque: 8-9 kNm; WOB: 8-12 MT; MW50: 1.92+ sg; ECD: 2.034-2.063 sg; ESD: 1.941 sg; instantaneous ROP: 1-15 m/hr; average ROP: 3.9 m/hr; drilled using mud pulse telemetry; max gas: 1.95 %.

Drilled 8 1/2" section from 4601 to 4618 m MD RKB. Observed drilling break at 4614 m MD RKB. Continued controlled drilling to 4618 m MD RKB with 0-1 MT WOB. Stopped drilling at 4618 m MD RKB after concluding that the reservoir had been penetrated. Pulled up to 4607 m MD RKB with 1600 lpm and 140 RPM. Closed LAP as per HPHT procedure and lined up to monitor PBU on choke line. Monitored well on choke line. Observed pressure build up to 16.5 bar. Pressured up string to open float and equalize SICP and SIDPP - same pressure on both sides indicating no influx in annulus. Continued to monitor the well. SICP stabilised at 20 bar. Pumped open floats and confirmed SICP = SIDPP.

Parameters: 1600 lpm; SPP: 290-300 bar; RPM: 140; torque: 8-9 kNm; WOB: 8-10 MT; MW50: 1.92+ sg; ECD: 2.04 sg; ESD: 1.941 sg; instantaneous ROP: 1-15 m/hr; average ROP: 3.4 m/hr; drilled using mud pulse telemetry; max gas: 1.8 %.

Started to circulate the well with 1<sup>st</sup> cycle of Drillers Method with 1.93 sg (MW50) BaraECD 3.3 at 20 spm maintaining 10 bar safety margin. Meanwhile prepared 1.97 sg (MW50) kill mud. Circulated 1.1 x bottoms up - observed max gas: 1.69 % after MGS. No choke adjustments required when circulating out gas. Performed mud samples every 30 min - no water increase recorded in mud. Shut in pressures after circulating BaraECD 3.3: SIDPP = 31 bar and SICP = 31 bar. Continued with 2<sup>nd</sup> cycle of Drillers Method with 1.97 sg (MW50) kill mud at 20 spm. Stopped circulating after 12160 strokes and closed in well as per well control procedure: SIDPP = 10 bar and SICP = 12 bar. Bled off and observed well on choke line - pressure built up to 7.8 bar. Prepared 1.99 sg (MW50) kill mud. Carried out 3<sup>rd</sup> cycle of Drillers Method at 20 spm. After 15000 strokes, stopped circulation, closed choke: SIDPP = 10 bar and SICP = 10 bar. Bled off and performed PBU - pressure built up to 7.9 bar. Bled off pressure (70 l recorded) and monitored well - pressure built up to 7.9 bar. Bled off pressure (71 l recorded) and carried out 3<sup>rd</sup> PBU - pressure built up to 4.6 bar. Bled off pressure (27 l recorded) and monitored well with open choke taking returns to strip tank. It was concluded (based on Hornet plot established after the 3<sup>rd</sup> PBU monitoring) that the last PBU was the result of temperature effects on mud and it was not require to drill ahead with 1.99 sg (MW50) OBM. Closed choke and monitored PBU - no pressure. Opened choke - no returns. Displaced riser to 1.99 sg (MW50) mud and rigged down kill hose. Opened BOP and washed down to TD with 1100 lpm. Circulated bottoms up, last third of well volume circulated through choke with closed BOP according to L4 procedure for HPHT drilling - max gas observed: 2.2 %. Flowchecked well on strip tank - well stable. Opened BOP and displaced well back to 1.97 sg (MW50) OBM with 1120 lpm. Flowchecked well - well static.

Drilled 8 1/2" section from 4618 to 4676 m MD RKB. Pulled of bottom to take a pressure point at 4645.7 m MD RKB sensor depth. Unable to communicate with tool - flow rate below minimum flow rate to downlink. Changed nozzles on downlink skid and took three pressure points at 4645.7, 4651.9 and 4647 m MD RKB sensor depth - pressure recorded: 1.995 sg. Took decision to increase MW from 1.96 to 1.97 sg (MW50) to obtain 2.01 sg ESD. Circulated until 1.97 sg (MW50) mud received at shakers.

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Parameters: 1100 lpm; SPP: 155-172 bar; RPM: 80-100; torque: 6-12 kNm; WOB: 2-9 MT; MW50: 1.97+ sg; ECD: 2.047-2.061 sg; ESD: 1.978-2.014 sg; instantaneous ROP: 1-10 m/hr; average ROP: 4.6 m/hr; drilled using mud pulse telemetry; max gas: 2.4 %.

Drilled 8 1/2" section from 4676 to TD at 4707 m MD RKB. Max. downhole temperature recorded: 116 °C. Circulated hole clean with 1100 lpm - max gas: 1.2 %. Observed ESD: 2.020 sg EMW. Performed 30 min flowcheck - well stable. Performed short trip to 4523 m MD RKB as per L4 procedure for HPHT drilling - tight spots encountered at 4676 and 4645 m MD RKB. Flowchecked well - OK. Ran in hole with 8 1/2" rotary BHA on 5" drill pipe to 4676m MD RKB. Performed 30 min flowcheck as per L4 procedure for HPHT drilling - well stable.

Parameters: 1100 lpm; SPP: 168-172 bar; RPM: 80-100; torque: 6-14 kNm; WOB: 2-8 MT; MW50: 1.97+ sg; ECD: 2.076-2.081 sg; ESD: 2.015 sg; instantaneous ROP: 1-10 m/hr; average ROP: 5.0 m/hr; drilled using mud pulse telemetry; max gas: 0.35 %.

A total of 72 MT of OBM contaminated cuttings was generated through the 8 1/2" section. A total of 15 skips were filled. All OBM contaminated cuttings were sent to shore for treatment and disposal. 4.8 m<sup>3</sup> of ENVIROMUL mud was required as cuttings/lubrication mud in the HPHT section.

Circulated bottoms up with 1100 lpm with open BOP. After 2/3 of bottoms up circulated, closed LAP and continued to circulate bottoms up through choke and kill lines at 500 lpm - max gas: 1.12 %. Observed ESD: 2.029 sg EMW. It was decided not to increase MW for tripping the drilling assembly out of the hole based on the ESD value. Later analysis showed that the ESD reading of 2.029 sg was wrongly interpreted from the PWD as the pumps were carefully staged up after the short trip, giving a false sense of security (MW was increased later during wireline logging operations). Flowchecked well - well stable. Pumped out of hole to 4025 m MD RKB (inside 9 7/8" casing shoe) with 1000 lpm. Flowchecked well - static. Pulled out of hole with 8 1/2" rotary BHA to surface. Flowchecks performed at 1615 and 714 m MD RKB indicated a stable well. Racked back 8 1/2" rotary BHA. Observed clay packed on shank above bit and stabilisers. Roller reamers in good shape. Bit grading 1-1-WT-A-X-I-NO-TD.


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Table 4.18 Drill 8 1/2" Section Details

Drill 8 1/2" section		Actual
Section objective	<ul style="list-style-type: none"> <li>Drill 8 1/2" hole to well TD in one run</li> <li>Evaluate hydrocarbon potential of the Cook Formation</li> </ul>	<ul style="list-style-type: none"> <li>All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Well control</li> <li>Riser margin / adverse weather conditions</li> <li>Poor LOT / compromised kick tolerance</li> <li>Pore pressure higher or lower than expected - loss or kick</li> <li>Wellbore breathing</li> <li>Tool failures - high temperature environment</li> </ul>	<ul style="list-style-type: none"> <li>Well control incident</li> <li>Actual pore pressure met the high case estimate</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>Good performance from Bara ECD 3.3 OBM</li> <li>Good use of MW50, MWESD in 8 1/2" section</li> <li>Good performance with HPHT LWD tools with positive pulser for real time telemetry - drilled reservoir section in one run with 200 circulating hours and 270 total downhole hours</li> <li>Obtained formation pressure in tight formation with GeoTap® confirmed by subsequent wireline run</li> <li>Minimum vibrations detected with rotary BHA (roller reamer?)</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>Vippeslips (to run 5" drill pipe) frame did not fit the rotary table</li> <li>Very low ROP when roller reamer inside the 9 7/8" shoetrack</li> <li>Unable to strip 5" drill pipe through annular preventers</li> <li>Change out leaking washpipe - 1.25 hrs NPT</li> <li>Well control incident - 60.75 hrs NPT</li> <li>Unable to communicate with LWD tools - 3.5 hrs NPT</li> <li>Erroneous density readings from 4640 m MD RKB</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>Consider to update fingerprinting data relevant to temperature every 300 to 400 m (flowcheck and PBU)</li> <li>Update L4 procedure for HPHT drilling</li> <li>All BHA/bit packages sent offshore should include a bit breaker</li> <li>Review roller reamer experience (hanging inside shoetrack?)</li> </ul>	

Table 4.19 8 1/2" Bit Summary

BIT DATA					
Bit Number	:	5	Nozzles	:	4x13,1x12
Bit Size (in)	:	8.500	TFA (in2)	:	0.6289
Manufacturer	:	HALLIBURTON	Dull Grade In	:	NEW
Model	:	GTI55WMKHO	Dull Grade Out	:	1-1-WT-A-X-I-NO-TD
Serial Number	:	13571902			

PERFORMANCE Section A							
Parameter	Min	Max	Avg	Activity	Hours	BHA Weight	(mton)
WOB (mton)	3	15	8	Drilling	: 104.25	in Air (Total)	: 27.97
RPM (rpm)	40	140	118	Reaming	: 15.75	in Mud (Total)	: 20.96
Flow (lpm)	1090	1800	1445	Circ-Other	: 32.00	in Air (Bel Jars)	: 19.53
SPP (bara)	158	355	256	Total	: 152.00	in Mud (Bel Jars)	: 14.64

COMMENTS
Total circulating hours: 204hr Drilling hours: 77.6 hr Meters drilled: 561 m Average ROP: 7.2 m/hr



## 4.14 Open hole wireline logging

Rigged up wireline equipment.

Picked up and made up wireline tool string #1A (QAIT-HLDS-APS-HXPT-GR - petrophysical logs and pressure points). Ran in hole with wireline tool string to 4707 m MD RKB. Logged repeat pass and main pass - OK. Observed issues with Minitron (neutron log) and completed main pass without neutron log. Observed overpull at 4625 and 4249 m MD RKB when pulling tool string into the 9 7/8" casing. Waited for confirmation of depths for pressure points. Performed 8 pressure tests of which 6 were successful. Pore pressure in reservoir: +/- 1.99 sg. Pulled out with wireline tool string to surface. Observed wireline tool string stuck at 4609 m MD RKB. Pulled to max tension of 12000 lbs several times and tool string came free after several attempts. Checked tool string for H<sub>2</sub>S - no H<sub>2</sub>S measured. Laid down tool string.

Picked up and made up wireline tool string #1B (VSP). Decision made to increase mud weight from 1.98 to 2.01 sg (MW50) based on pore pressure and static mud weight values from first wireline run. Rigged down wireline equipment. Broke out and laid down wireline tool string #1D.

Picked up and ran in hole with 8 1/2" clean out BHA to 4654 m MD RKB. Washed down and tagged TD at 4707 m MD RKB. Circulated bottoms up through open BOP. Closed BOP to circulate the last third of bottoms up through kill and choke lines. Observed even mud weight of 1.98 sg (MW50) at the end of circulation. Weighted up mud from 1.98 to 2.01 sg (MW50) with 1100 lpm, reciprocating string and 30 RPM. ESD measured at 2.038 sg. Pumped out of hole with 8 1/2" clean out BHA with 1100 lpm from 4700 m MD RKB to 3280 m MD RKB. Flowchecks performed at 9 7/8" casing shoe and 3280 m MD RKB indicated a stable well. Pulled out of hole with 8 1/2" clean out BHA to surface and racked back assembly in derrick. Deployed airguns in sea while pulling out of hole with assembly.

Rigged up wireline equipment.

Picked up and made up wireline tool string #1B (VSP). Ran in hole with wireline tool string to 4135 m MD RKB (inside 9 7/8" casing shoe). Observed communication issues between airguns and control panel - performed fault finding - communication re-established. Ran in hole with wireline tool string #1B to 4694 m MD RKB. Performed VSP logging from 4634 to 4268 m MD RKB. Observed lost communication with seismic guns. Replaced umbilical cord on surface and performed VSP logging from 4634 m MD RKB to seabed (total of 71 stations covered). Pulled out of hole and laid out wireline tool string #1B.

Picked up and made up wireline tool string #1C (sidewall coring). Ran in hole with wireline tool string to 4690 m MD RKB. Performed correlation pass from 4690 m MD RKB and cut cores as per wireline programme - 34 coring stations (average of 2.4 cores/hr). Pulled out of hole with wireline tool string #1C from 4135 m MD RKB to surface with restricted pulling speed of 1830 m/hr to allow pressure in cores to bleed off and laid out wireline tool string #1C. Checked tool string for H<sub>2</sub>S - no H<sub>2</sub>S measured. Laid down core barrel - 33 cores out of the 34 coring stations recovered.

Rigged down wireline equipment.


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Table 4.20 Open Hole Wireline Logging Details

Open hole wireline logging		Actual
Section objective	<ul style="list-style-type: none"> <li>Evaluate reservoir fluids and rock properties of the Cook formation</li> </ul>	<ul style="list-style-type: none"> <li>All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Fluid sampling – possible 20 ppm H<sub>2</sub>S</li> <li>Manual handling of wireline tools in red zone</li> <li>Lost objects in well</li> <li>Unable to get WL to required depth</li> <li>Differential sticking in open hole</li> <li>Wellbore stability</li> </ul>	<ul style="list-style-type: none"> <li>No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>All Logging Objectives achieved with good data quality</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>Lost Communication with seismic guns – Replaced umbilical cord on surface and issue resolved - 2.25 hrs NPT</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>Define dry hole WL scope early in the planning phase</li> </ul>	


## 4.15 Plug and abandonment

Pick-up 3 1/2" mule shoe and 4" cement stinger and ran in hole 4" cement stinger on 5" DP to 4704 m MD RKB. Circulating bottoms up with 200-1200 lpm and 20-50 RPM. Observed increasing gas level. Closed BOP and continued to circulate bottoms up, taking returns through choke and poorboy degasser. Max gas in mud at end of bottoms up: 2.58%. Performed flow check with 10 RPM - stable well. Conditioned mud prior to the cement job with 1100 lpm and 30 RPM. Pumped 13.6 m<sup>3</sup> of 2.07 sg Ecospacer II with 1100 lpm. Mixed and pumped 9.1 m<sup>3</sup> of 2.10 sg ExpandaCem HT D NS cement slurry (including 10% XS) with batch mixer at 700 lpm. Displaced cement in place with 36.5 m<sup>3</sup> of 2.01 sg OBM with 1000 lpm. Pulled stinger wet out of cement from 4704 to 4479 m MD RKB. Observed overpull while pulling out of plug - applied 15-25 RPM to minimize overpull. Circulated out excess cement with 1000 lpm. Diverted a total of 42 m<sup>3</sup> interface to slop. Weighted up cement slurry in batch mixer to 2.10 sg. Pumped 13.6 m<sup>3</sup> of 2.07 sg Ecospacer II with 1100 lpm. Mixed and pumped 9.1 m<sup>3</sup> of 2.10 sg ExpandaCem HT D NS cement slurry (including 10% XS) with batch mixer at 700 lpm. Displaced cement in place with 34.5 m<sup>3</sup> of 2.01 sg OBM with 1000 lpm. Pulled stinger wet out of cement from 4479 to 4254 m MD RKB with 20 RPM. Circulated out excess cement with 1030 lpm. Diverted a total of 32 m<sup>3</sup> interface to slop. Pumped 13.6 m<sup>3</sup> of 2.07 sg Ecospacer II with 1000 lpm. Mixed and pumped 10 m<sup>3</sup> of 2.10 sg ExpandaCem HT D NS cement slurry (including 20% XS) with batch mixer at 700 lpm. Displaced cement in place with 32.5 m<sup>3</sup> of 2.01 sg OBM with 1000 lpm. Pulled stinger wet out of cement from 4254 to 4020 m MD RKB with 20 RPM. Circulated out excess cement with 1000 lpm. Diverted a total of 37 m<sup>3</sup> interface to slop. Flowchecked well for 30 min - OK. Pulled out of hole with 4" cement stinger.

Picked up and made up 8 1/2" dress-off BHA. Ran in hole to 3520 m MD RKB. Waited on cement for 2.5 hrs until 2000 psi confirmed on UCA. Ran in hole with 8 1/2" dress-off BHA to 3967 m MD RKB. Washed down with 600 lpm to 4070 m MD RKB - no firm cement observed. Circulated 1.6 x bottoms up with 1100 lpm to check for cement in returns - none observed. Washed down with 1000 lpm and tagged cement at 4080 m MD RKB with 5MT. Dressed off cement plug #3 to 4083 m MD RKB with 1000 lpm, 40 RPM and 3-5 MT WOB. Pressure tested cement plug #3 to 20 / 160 bar for 5 / 10 min - OK. End of HPHT mode on DSN at 22.30 hrs on 11<sup>th</sup> May 2022.

Displaced well to 1.65 sg (MW50) BaraECD 2.2 OBM with 2800 lpm. Flowchecked well - static. Pulled out of hole and racked back the 8 1/2" dress-off BHA.

Picked up and made up 9 7/8" cutter BHA. Ran in hole same on 5" DP to 1197 m MD RKB. Picked up and made up WBRRT to string and ran in hole to 1609 m MD RKB. Retrieved 9 7/8" WB with 41 MT. Re-landed 9 7/8" WB, closed LAP and cut 9 7/8" casing at 1639.1 m MD RKB

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with 1000 lpm. Observed pressure drop to 60 bar indicating successful cut of casing. Performed flowcheck via choke line - OK. Opened LAP and flowchecked well on trip tank - well stable. Released 9 7/8" WB with 11 MT. Dropped 2" ball and activated circulation sub. Pulled out of hole with combined 9 7/8" cutter / WBRRT BHA to 1243 m MD RKB. Laid down WBRRT and 9 7/8" WB. Continued to pull out of hole POOH with 9 7/8" cutter BHA and laid down same.


Picked up and made up combined SRT and spear assembly. Ran in hole to 413 m MD RKB and landed SRT in seal assembly. Closed LAP and pulled 9 7/8" seal assembly free with 15 MT overpull. Monitor pressure build up, bled off and flowchecked well with closed BOP - OK. Opened LAP and flowchecked well - OK. Pulled SRT with seal assembly above BOP - observed 3 MT overpull when SRT passed the open LAP. Circulated annulus volume to 1.65 sg BaraECD 2.2 OBM. Dropped 1 7/8" activation dart and activated spear with 300-500 lpm. Pulled 9 7/8" casing free without overpull. Flowchecked well - well stable. POOH with 9 7/8" seal assembly and 9 7/8" casing from 1639 to 1279 m MD RKB - struggled to pull 9 7/8" casing hanger through BOP until LAP rubber element fully retracted. Laid down SRT and 9 7/8" seal assembly. Continued to pull out of hole with spear assembly. Released spear from 9 7/8" casing. Changed handling equipment to recover 9 7/8" casing in stands. Broke out and laid down 9 7/8" casing hanger. Pulled out of hole with 9 7/8" casing to surface. 33 stands of 9 7/8" casing racked back (including last double with casing stump). Rigged down casing handling equipment.

Experienced issues with top drive elevator not latching properly. Replaced same with backup.

Picked up and made up 13 5/8" EZSV to MST. Ran in hole same on 5" DP to 1630 m MD RKB. Washed setting area with 500 lpm. Set 13 5/8" EZSV at 1629 m MD RKB and released MST with 22 MT overpull. Tagged top of EZSV at 1629 m MD RKB with 5 MT. Pressure tested 13 5/8" EZSV and UPR to 20 / 140 bar for 5 / 10 min - OK. Pressure tested BOP to 20 / 110 bar for 5 / 10 min - OK. Displaced well to 1.40 sg BaraECD 2.2 OBM with 3100 lpm. Flowchecked well - well stable. Pulled out of hole with MST and laid down same.

Picked up and made up 13 5/8" cutter assembly. Ran in hole same on 5" DP to 1130 m MD RKB. Made up 14 1/2" stabiliser to string and ran in hole to 1584 m MD RKB. Landed 14 1/2" stabiliser in wellhead with cutter at 1604.3 m MD RKB. Closed LAP and cut 13 5/8" casing at 1604.3 m MD RKB with 800 lpm. Observed pressure drop to 30 bar indicating successful cut of casing. No change in active. Performed flowcheck via choke line - OK. Opened LAP and flowchecked well on trip tank - static. Pulled out of hole with 13 5/8" cutter assembly to 1204 m MD RKB and laid down 14 1/2" stabiliser. Pulled out of hole and spaced out assembly to position knives at 1050.1 m MD RKB. Activated compensator, closed UAP (pulled tool joint tight against UAP) and cut 13 5/8" casing at 1050.1 m MD RKB with 800-1000 lpm. Observed pressure drop to 45 bar. No change in active. Performed flowcheck via choke line - OK. Opened UAP and flowchecked well on trip tank - static. Dropped 2" ball and activated circulation sub. Pulled out of hole with 13 5/8" cutter assembly to 445 m MD RKB. Washed wellhead and BOP with 2300 lpm. Continued to pull out of hole POOH with 13 5/8" cutter assembly and laid down same. Observed normal wear on knives.

Picked up and made up combined SRT and spear assembly. Ran in hole to 410 m MD RKB and landed SRT in seal assembly. Closed LAP and pulled 13 5/8" seal assembly free with 15 MT overpull. Monitor pressure build up, bled off and flowchecked well with closed BOP - static. Opened LAP and flowchecked well - OK. Pulled SRT with seal assembly above BOP. Dropped 1 7/8" activation dart and activated spear with 300-600 lpm. Pulled 13 5/8" intermediate casing free without overpull. Flowchecked well - OK. POOH with 13 5/8" seal assembly and 13 5/8" casing from 1010 to 670 m MD RKB - observed 3 MT drag when 13 5/8" casing hanger passed UAP. Laid down SRT and 13 5/8" seal assembly. Continued to pull out of hole with spear assembly.

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Released spear from 13 5/8" intermediate casing. Rigged up 13 5/8" casing handling equipment. Broke out and laid down 13 5/8" casing hanger. Pulled out of hole with 13 5/8" casing to surface. 16 stands of 13 5/8" casing racked back (including casing stump). Rigged down casing handling equipment.

Picked up and made up 20" EZSV to HST. Ran in hole same on 5" DP to 1040 m MD RKB. Set 20" EZSV at 1040.3 m MD RKB and released HST. Tagged top of EZSV at 1040.3 m MD RKB with 5 MT. Pressure tested 20" EZSV to 20 / 60 bar for 5 / 10 min - OK. Displaced well to seawater with 3500 lpm. Mixed and pumped 17.2 m<sup>3</sup> of 1.98 sg ExpandaCem D NS cement slurry at 650 lpm. Displaced cement in place with 6.7 m<sup>3</sup> of seawater with 900 lpm. The cement job was performed remotely by cementers in the OCC in the Stavanger office. Pulled HST to 900 m (1 stand above TTOC). Circulated out 1.2 x bottoms up with 3400 lpm. Pulled out of hole with HST and laid down same.

Picked up Vortex tool and washed riser and BOP with 2500 lpm and 20 RPM to 430 m MD RKB. Pulled out of hole with Vortex from 430 m MD RKB to surface. Racked back same.

Rigged up for pulling BOP and riser. Pulled diverter and laid down same to deck. Disconnected BOP and pulled clear of wellhead. Skidded rig 18 m aft (meanwhile: performed "as-left" survey with ROV). Hung off tension ring. Pulled slip joint and ROPS. Pulled BOP on marine riser from 377 to 60 m MD RKB. Pulled BOP to surface and secured same in under hull carrier. Observed damages on the BOP trolley roller - changed out BOP trolley roller with a new one causing 6 hrs NPT (meanwhile: deployed net guard and installed same over the wellhead). Pulled boost joint. Rigged down riser and BOP handling equipment.

The wellhead is planned to be cut and pulled in a rig chase campaign.


Table 4.21 Plug and Abandonment Details

Plug and abandonment		Actual
Section objective	<ul style="list-style-type: none"> <li>Permanently plug and abandon wellbore</li> <li>Isolate and establish barriers against source of inflow</li> </ul>	<ul style="list-style-type: none"> <li>All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Well Control</li> <li>Cement job quality on barrier plugs</li> </ul>	<ul style="list-style-type: none"> <li>No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>Successfully placed cement plugs - tagged and pressure tested</li> <li>DSN batch mixer used for the 1<sup>st</sup> time due to high density slurry – slurry mixed and pumped at 2.10 sg with success</li> <li>Two cuts in 13 5/8" casing in same run, using a 14 1/2" stab as landing point for the first cut and closing the BOP as a compensating point on 2<sup>nd</sup> cut</li> <li>Remotely pressure tested 20" EZSV and cemented the surface P&amp;A plug</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>Some overpull seen pulling out from P&amp;A plug #1</li> <li>Pulled wet on all cement plugs - indicating suboptimal cement placement technique</li> <li>Tagged TOC plug #3 deeper than planned but still inside the required depth</li> <li>Replaced top drive elevator with backup - 2 hrs NPT</li> <li>Repaired damaged BOP trolley roller - 6 hrs NPT</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>Consider to run 4" open ended stinger without floats for P&amp;A</li> <li>HPHT cement plug – consider to increase % XS or pump and pull</li> <li>Evaluate deep cut when cement losses occurred during casing cement operations</li> </ul>	

## 4.16 Rig demobilisation

Completed "as-left" survey with ROV while pulling BOP to surface.

Performed yearly ESD tests 2 and 3 (ESD test 1 was carried out while waiting on cement).


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Released anchor lines using RAR system and performed anchor handling with Normal Prosper and Island Vanguard vessels.

Exited Laushornet 500 m zone at 16:15 hrs on 17<sup>th</sup> May 2022.

Table 4.22 Rig Demobilisation Details

Rig demobilisation	Actual	
Section objective	<ul style="list-style-type: none"> <li>Perform "as-left" survey</li> <li>Sail from Laushornet location to Storjo location in ops draft</li> </ul>	<ul style="list-style-type: none"> <li>All objectives achieved</li> </ul>
Key risks	<ul style="list-style-type: none"> <li>Adverse weather</li> </ul>	<ul style="list-style-type: none"> <li>No issues experienced</li> </ul>
Highlights	<ul style="list-style-type: none"> <li>ESD test 1 performed while waiting on cement (open hole to surface plug)</li> </ul>	
Lowlights	<ul style="list-style-type: none"> <li>N/A</li> </ul>	
Opportunities	<ul style="list-style-type: none"> <li>N/A</li> </ul>	

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## 5 References

Table 5.1 References

Document number	Document title	Link
7F8039EF-22AD-4C96-9B89-4C6FEDEC9192	Laushornet Drilling Program	<a href="#">Laushornet Drilling Program</a>
HNI-60-O-RP-132	Halliburton EoWR - Laushornet - Well 35/4-3 - Deepsea Nordkapp	<a href="#">Halliburton End of Well Report - 354-3 PL685 Laushornet.pdf</a>
	Baker Hughes EoWR - Laushornet	<a href="#">BHGE Cut and Pull FWR</a>
	Laushornet Geology Final Well Report	
L4-MODU-DSN-B-PR-347	L4 Procedure - HPHT Deepsea Nordkapp	<a href="#">Odfjell L4 procedure - HPHT DSN</a>



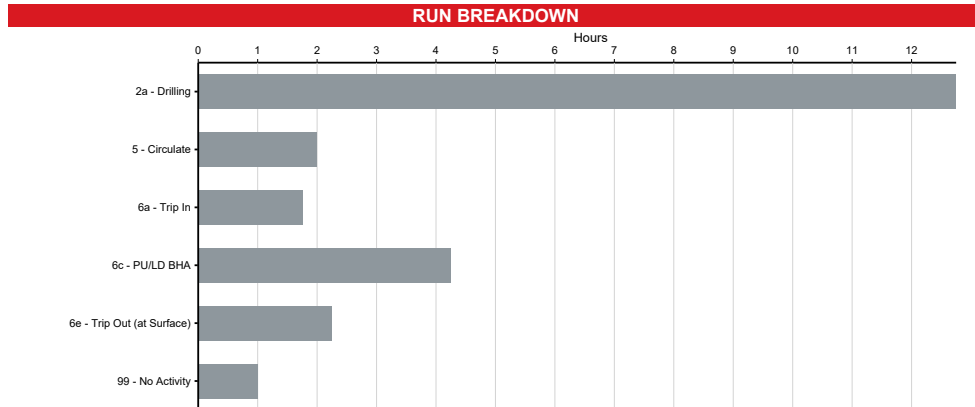
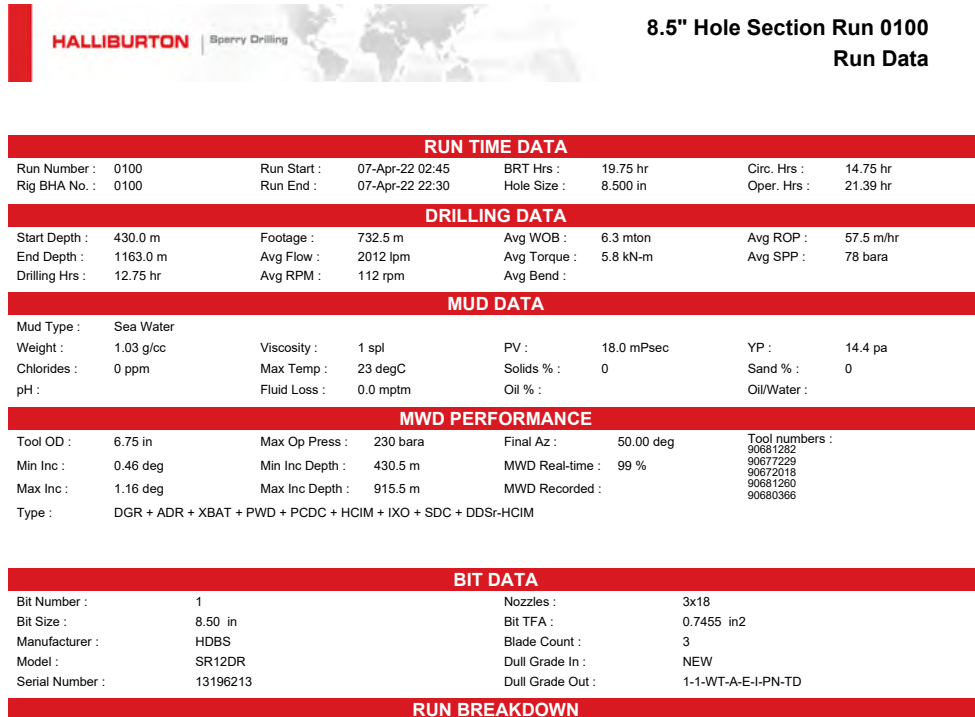
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# 6 Appendix

## 6.1 BHA

### *Run 0100 - 8 1/2" pilot hole*



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## 8.5" Hole Section Run 0100 Run Summaries

### BHA Objective

The objectives of the well and the section are:

- De-risk shallow gas and shallow water flow
- Optimize 20" surface casing depth ~ 1150 mTVD
- Provide LWD data acquisition

### BHA Run Summary

#### BHA HANDLING AND RIH

Prior to sailing to this location, the BHA was picked up in the Aux rig floor in four pieces, and racked with a Lift sub on it to optimizing the handling time in the Main.

The BHA was then picked up while arriving at the new location, and ran in sea without any issues.

#### DRILLING

Tagged seabed at 430.5m md and started washing down with 1500 lpm until resistance seen with up to 2 tons WOB at 446 m. Started rotation 30 rpm, increasing in steps to 120 rpm as per RAP. The ROP was increase with 20 m/hr increments until 120 m/hr.

Typical drilling parameters 2100 lpm, 75 bar SPP, 120 rpm, 6-7 kNm torque. WOB in the Naust Formation sands was 3-7 tons, doing 100 m/hr ROP.

Typical drilling parameters from Naust formation to TD 2100 lpm, 90-100 bar SPP, 140-160 rpm, 6-8 kNm torque. WOB was 8-13 tons, doing 80-120 m/hr ROP. The inclination of the whole was kept below 1.2deg with these parameters, ending up 11.8m from the plan at TD.

#### CEMENTING THROUGH BHA AND POOH

After TD, the well was circulated clean before doing a flow check. Pulser was disabled, and the downlink skid isolated before initiating the cement job.

At surface, no visual wear on BHA components was seen. All stabilizers and bit were in gauge.

### BHA Recommendations

Was proven that the PDC Bit GTi55WMKFHs with 4D Shaped Machete Cutters delivered very good ROPs on high/low WOB, is highly recommended to test this type of bit in futures pilot holes in this area since it is a highly interbedded formation and it will perform better while using lower WOB that the required by the TCI bit used.

### MWD Run Summary

Rotary BHA consisted of DGR-ADR-XBAT-PCDC-PWD-Jetpulse-HCIM-IXO with Wired Drill Pipe telemetry and JetPulser for backup telemetry system. Downlink via IXO worked perfectly throughout the entire run. Nozzle size 18 was used in the Geospan downlink skid. During run, tested downlink via downlink skid and it worked OK as intended.

On surface retrieved full dataset form tool memory.



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HALLIBURTON | Sperry Drilling

8.5" Hole Section Run 0100  
BHA Detail

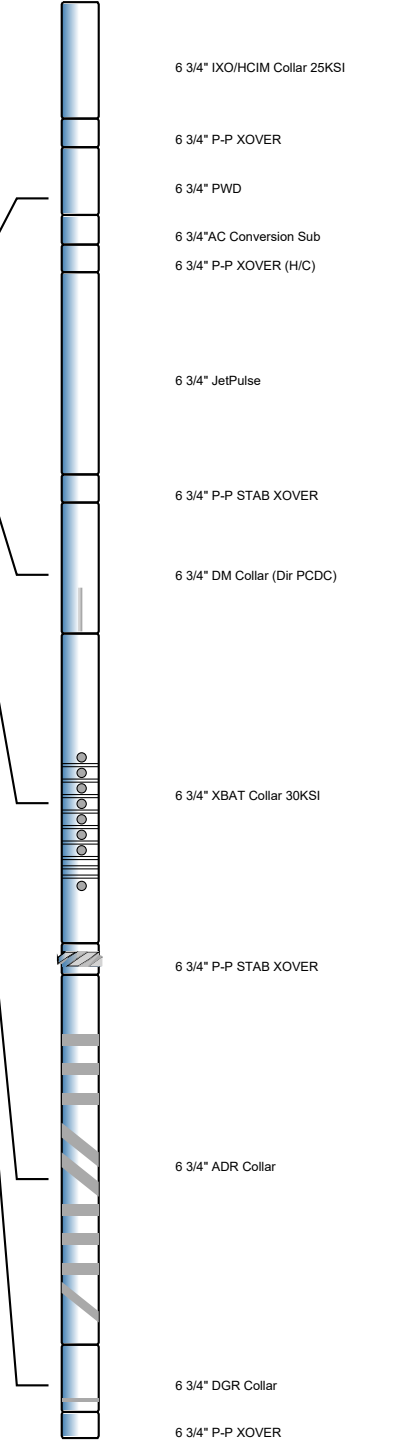
BOTTOM HOLE ASSEMBLY									
Item	Description	Serial	OD (in)	ID (in)	Gauge (in)	Weight (kgpm)	Top Conn	Length (m)	Cum Length (m)
1	SR12DR 437W Tricone Bit	13196213	8.50	2.00	8.50	271.9	P 4-1/2" REG	0.26	0.26
2	8 3/8" Near Bit Stabilizer	OWS-STAB-9419	6.75	2.88	8.38	148.6	B NC 50	2.10	2.36
3	6 3/4" P-P XOVER	90681282	6.75	3.00		156.4	P NC 50	0.52	2.88
4	6 3/4" DGR Collar	90681282	6.75	1.92		145.5	B NC 50	1.34	4.22
5	6 3/4" ADR Collar	90681282	6.75	1.92		162.8	B NC 50	7.37	11.59
6	6 3/4" P-P STAB XOVER	90677229	6.75	3.00	8.38	145.6	P NC 50	0.63	12.22
7	6 3/4" XBAT Collar 30KSI	90677229	6.75	1.91		145.4	B NC 50	6.17	18.39
8	6 3/4" DM Collar (Dir PCDC)	90672018	6.75	3.13		153.9	B NC 50	2.61	21.00
9	6 3/4" P-P STAB XOVER	90681260	6.75	3.00	8.38	181.6	P NC 50	0.56	21.56
10	6 3/4" JetPulse	90681260	6.75	1.92		162.1	B NC 50	4.03	25.59
11	6 3/4" P-P XOVER (H/C)		6.75	3.00		156.4	P NC 50	0.55	26.14
12	6 3/4"AC Conversion Sub	90680366	6.75	3.00		156.4	P NC 50	0.59	26.73
13	6 3/4" PWD	90680366	6.75	1.91		143.3	B NC 50	1.35	28.08
14	6 3/4" P-P XOVER		6.75	3.00		156.4	P NC 50	0.57	28.65
15	6 3/4" IXO/HCIM Collar 25KSI	90680366	6.75	1.92		225.2	B NC 50	2.32	30.97
16	6 3/4" V1/2 Sub NC50 P x DS50 B	90680366	6.75	1.92		161.1	B 5" DS50	1.19	32.16
17	6 3/4" Wired Float Sub w/NPFV	3073204-02	6.75	1.92		166.8	B 5" DS50	1.27	33.43
18	8 3/8" Wired Stabilizer	68868-3	6.75	2.88	8.38	148.6	B 5" DS50	1.72	35.15
19	10 x 6.75" - Drill Collar		6.75	2.75		121.3	B 5" DS50	93.62	128.77
20	6-1/2" Wired Jar	SFDJ-650-4085793	6.50	3.00		132.4	B 5" DS50	11.82	140.59
21	3 x 6.75" - Drill Collar		6.75	2.75		121.3	B 5" DS50	28.18	168.77
22	6-3/4" Wired Accelerator	478-65065-00	6.63	2.75		205.6	B 5" DS50	12.48	181.25
23	1 x 6.75" - Drill Collar		6.75	2.75		121.3	B 5" DS50	9.36	190.61
24	6 3/4" X-Over Sub DS50 P x wTT550 B	OWS-3256419-01	6.75	3.25		139.4	B 5.5" wTT550	0.87	191.48
25	12 x wHWD 5 1/2"		5.50	3.50		89.7	B 5.5" wTT550	112.63	304.11
26	Drill Pipe 5.5 in, 21.9 ppf, S, wTT550, P		5.50	4.78		37.2	B 5.5" wTT550	966.76	1270.87




**8.5" Hole Section Run 0100  
MWD Schematic**

**MWD SENSORS**

<b>SDC</b>		
	Power	Two Negative Pulsar Batteries
	Choke Size	12
	Software	3.35
	Firmware	2.14
	Valve Insert	171538
<b>HCIM</b>		
	SW Version	98.43
<b>PWD</b>		
	Sensor Distance	27.06m
	SN Insert	11558232
	SW Version	4.64
<b>PCDC</b>		
	Sensor Distance	19.56m
	SN Insert	13381412
	SW Version	6.43
<b>XBAT</b>		
	Sensor Distance	15.01m
	SN Sub	11976011
	SN Transmitter	116793
	Sequence File	32:M9_D4_Q4
	Software	xbat 1.4.7-1
<b>ADR</b>		
	Sensor Distance	7.52m
	Sensor ID	7244
	Firmware	427.000
<b>DGR</b>		
	Sensor Distance	3.41m
	SN Insert	11368554



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35/4-U-2  
Run 0100  
Deepsea Nordkapp

**8 1/2" SR12DR**  
13196213



Run date: 07-Apr-22

Parameters	
Depth in	430 mMD
Depth Out	1163 mMD
Interval	733 m
ROP	70.5 m/hr
WOB	1 – 12 MT
RPM	29 – 160
Flow (lpm)	1543 – 2141
Inc in/out	0/1



Dull Grade
HDBS
1
1
WT
A
E
I
ER
TD

**Dull Comments;** The inserts show very minor wear. No damages observed. Some erosion seen on the cones due to high ROP

**Formation;** Nordland

**Lithology;** Claystone and Sandstone

**Drilling comments;** RIS and tagged seabed at 430.5mMD. Washed down to 446mMD before staging up parameters. Drilled to TD at 1163mMD with controlled ROP. Displaced to 1.40sg WBM and cemented while POOH.

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## Final Well Report for exploration well Laushornet 35/4-3

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### Run 0100 - 42" x 36" hole section

HALLIBURTON | Sperry Drilling

### 36" x 42" Hole Section Run 0100 Run Data

#### RUN TIME DATA

Run Number :	0100	Run Start :	08-Apr-22 02:45	BRT Hrs :	38.25 hr	Circ. Hrs :	10.25 hr
Rig BHA No. :	0100	Run End :	09-Apr-22 17:00	Hole Size :	36.000 in	Oper. Hrs :	17.50 hr

#### DRILLING DATA

Start Depth :	431.2 m	Footage :	78.5 m	Avg WOB :	3.0 mton	Avg ROP :	10.4 m/hr
End Depth :	509.5 m	Avg Flow :	3372 lpm	Avg Torque :	8.2 kN-m	Avg SPP :	81 bara
Drilling Hrs :	9.00 hr	Avg RPM :	58 rpm	Avg Bend :			

#### MUD DATA

Mud Type :		Viscosity :	1 spl	PV :	1.0 mPsec	YP :	0.2 pa
Weight :	1.03 g/cc	Max Temp :	7 degC	Solids % :	0	Sand % :	0
Chlorides :	0 ppm	Fluid Loss :	0.0 mptm	Oil % :		Oil/Water :	0:100
pH :	10.0						

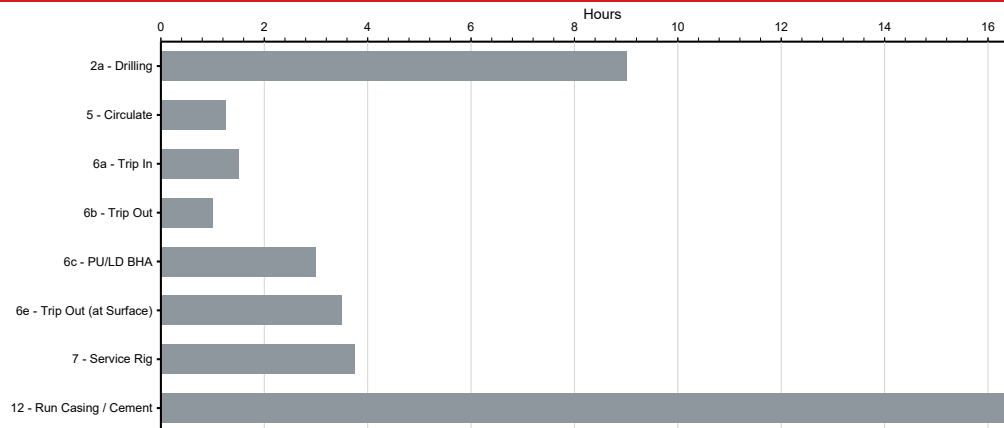
#### MWD PERFORMANCE


Tool OD :	9.50 in	Max Op Press :	125 bara	Final Az :	152.20 deg	Tool numbers :	90681337
Min Inc :	0.00 deg	Min Inc Depth :	431.2 m	MWD Real-time :	100 %		
Max Inc :	0.77 deg	Max Inc Depth :	450.1 m	MWD Recorded :			
Type :	PCDC + PCM + Pos Pulser						

#### BIT DATA

Bit Number :	1	Nozzles :	3x20,1x18
Bit Size :	17.50 in	Bit TFA :	1.1689 in2
Manufacturer :	HDBS	Blade Count :	3
Model :	SR32RC	Dull Grade In :	New
Serial Number :	13246060	Dull Grade Out :	0-0-NO-A-E-I-NO-TD

#### RUN BREAKDOWN



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### BHA Objective

The objectives of the section are:

- Spud well with 17 1/2" x 26" x 36" x 42" BHA
- Drill 17 1/2" x 26" x 36" x 42" hole to +/- 508.33 m TVD (17 1/2" TD) to give approximately 1.5 m 36" rathole below 30" shoe (planned setting depth 504.63 m TVD)
- Displace well to 1.40 sg displacement mud

### BHA Run Summary

BHA was picked up without issues and RIH as per tally. The seabed was tagged at 431.2mMD tide corrected. Later, wash down operations initiated with 1000lpm, 4bars and up to 1ton WOB, getting about 25m/hr instantaneous ROP. After 2.4m in the ground, restriction was seen by showing higher WOB up to 2.3tons, consequently, it was decided to start rotation at 30rpms before continue drilling. Parameters were changed gradually as the formation was getting firmer, having 2200lpm and 40rpms at the moment of the first survey taken which was at the seabed (sensor depth). This survey showed an inclination of 0.36deg that was within the range proposed (<1deg).

Parameters were staged up until reach target values of 4500lpm and 80rpms, trying to keep the WOB as low as possible while getting decent ROPs. Range of WOB used was between 0 to 9tons by the end of the section, and ROPs were 40m/hr at the beginning of the section and 6-8m/hr towards TD. Surface torque values were between 2.6kNm close to seabed and up to 13kNm at TD. Total depth was called at 509.1m.

From 460mMD, 15m<sup>3</sup> of sweeps were pumped at mid stand and prior to connection, showing good results. No Gas was seen by the ROV sonar.

Geometrically, the whole was kept vertical while applying the parameters mentioned, showing a maximum inclination of 0.77deg and ending 0.43m from the plan at TD.

At surface the tools were inspected and in good conditions, grading the boulder buster as NO-A-TD as well as the hole opener.

### MWD Run Summary

Rotary BHA with hole opener with PositivePulser-PCM-PCDC for directional monitoring only. Manchester decoding was used with 0.5 hz frequency, detection was good with a minimum flow of 2200lpm. All attempted surveys were within specs, none of them had to be retaken.




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HALLIBURTON | Sperry Drilling

36" x 42" Hole Section Run 0100  
BHA Detail

BOTTOM HOLE ASSEMBLY									
Item	Description	Serial	OD (in)	ID (in)	Gauge (in)	Weight (kgpm)	Top Conn	Length (m)	Cum Length (m)
1	Tricone Bit SR32RC 515M	13246060	9.50	3.00	17.50	323.6	P 7-5/8" REG	0.42	0.42
2	26x36" Boulder Buster	OWS-HO-3626	9.50	3.00	36.00	407.8		4.63	5.05
3	9 1/2" Pony Drill Collar	OWS-DC-1095	9.50	3.00		322.8	B 7-5/8" REG	2.62	7.67
4	9 1/2" Hockey Pony Collar	OWS-DC-1426	9.50	3.00		323.6	B 7-5/8" REG	3.51	11.18
5	9 1/2" DWD HOC Directional	11267333	9.50	4.00		295.8	B 7-5/8" REG	4.66	15.84
6	9 1/2" Downhole Screen	13083247	9.50	3.00		323.6	B 7-5/8" REG	2.27	18.11
7	9 1/2" Pony Collar (3m)	OWS-DC-1137	9.50	3.00		323.6		2.85	20.96
8	3 x 9 1/2" Spiral Drill Collar		9.50	3.00		322.8	B 7-5/8" REG	28.17	49.13
9	9 1/2" Extension Sub	OWS-DC-4157	9.50	3.00		322.8	B 7-5/8" REG	1.64	50.77
10	42" HDBS HO, 42" in	OWS-HO-4207	9.50	3.00	42.00	407.8		3.94	54.71
11	Float Sub w/ NPFV	OWS-FS-813	9.50	3.00		335.1	B 7-5/8" REG	0.59	55.30
12	1 x 9 1/2" Drill Collar	NCAB-04200	9.50	3.00		486.8	B 7-5/8" REG	9.24	64.54
13	X-Over Sub P 7 5/8" Reg x B 6 5/8" Reg	OWS-XOS-3841	9.50	3.00		323.6		0.83	65.37
14	8 1/8" Megaton Acc, 8 1/8" in	MHE-81-2471	8.13	3.00		214.3		10.71	76.08
15	4 x 8 1/4" Drill Collar, 6 5/8 REG		8.25	2.81		239.6		36.87	112.95
16	Xover Sub P 6 5/8" x B TT550	OWS-CRXOS-004	8.00	2.88		222.0	B 5.5" TT550	1.12	114.07
17	12 x 5 1/2" HWDP, TT550		5.50	3.25		89.7		110.99	225.06
18	Drill Pipe 5.5 in, 21.9 ppf, S, wTT550, P		5.50	4.78		37.2		287.57	512.63

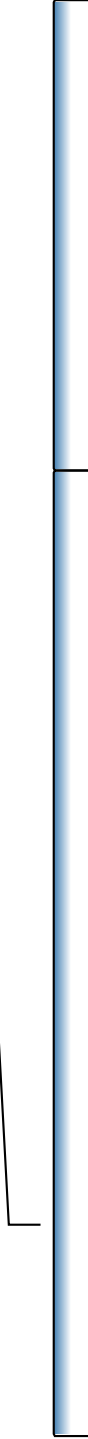
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**36" x 42" Hole Section Run 0100  
MWD Schematic**

**MWD SENSORS**

<b>Pos Pulser</b>		
Pulser	BootlessMark 10 Short Stroke	
Impeller		35 deg
Stator		25 deg
Orifice		1.950 in
Standoff		0.559 in
Oil type		Jet Oil II
Pulser		11024481
<b>PCDC</b>		
Sensor Distance		12.20m
SN Insert		13390839
SW Version		6.43



9 1/2" Downhole Screen

9 1/2" DWD HOC Directional



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17 1/2" SR32RC

13246060

35/4-3

Run 0100

Deepsea Nordkapp

Run date: 08-Apr-22

Parameters	
Depth in	431 mMD
Depth Out	510 mMD
Interval	79 m
ROP	10.5 m/hr
WOB	3 - 9 MT
RPM	58 - 80
Flow (lpm)	1000 - 4500
Inc in/out	0.0/0.5



Top View



Side View

Dull Grade
HDBS
0
0
NO
A
EEE
I
NO
TD

**Dull Comments;** The inserts show no wear or damages. No damages observed to the bit body

**Formation;** Nordland

**Lithology;** Claystone and Sandstone


**Drilling comments;** RIS with 17 1/2" x 26" x 36" x 42" BHA. The seabed was tagged at 431.2mMD tide corrected. Later, wash down operations initiated with 1000lpm, 4bars and up to 1ton WOB, getting about 25m/hr instantaneous ROP. After 2.4m in the ground, restriction was seen by showing higher WOB up to 2.3tons, consequently, it was decided to start rotation at 30rpms before continue drilling. Parameters were changed gradually as the formation was getting firmer, having 2200lpm and 40rpms at the moment of the first survey taken which was at the seabed (sensor depth). This survey showed an inclination of 0.36deg that was within the range proposed (<1deg).

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**Run 0200 - 26" hole section**



**26" Hole Section Run 0200  
Run Data**

**RUN TIME DATA**

Run Number : 0200	Run Start : 09-Apr-22 18:45	BRT Hrs : 37.75 hr	Circ. Hrs : 22.52 hr
Rig BHA No. : 0200	Run End : 11-Apr-22 08:30	Hole Size : 26.000 in	Oper. Hrs : 40.45 hr

**DRILLING DATA**

Start Depth : 509.0 m	Footage : 653.5 m	Avg WOB : 13.1 mton	Avg ROP : 33.5 m/hr
End Depth : 1163.0 m	Avg Flow : 4359 lpm	Avg Torque : 14.6 kN-m	Avg SPP : 169 bara
Drilling Hrs : 15.85 hr	Avg RPM : 81 rpm	Avg Bend :	

**MUD DATA**

Mud Type : Oil-Based	Weight : 1.03 g/cc	Viscosity : 1 spl	PV : 21.0 mPsec	YP : 4.8 pa
Chlorides : 0 ppm	Max Temp : 16 degC	Solids % : 0	Sand % : 0	
pH : 9.0	Fluid Loss : 0.0 mptm	Oil % : 0.00	Oil/Water :	

**MWD PERFORMANCE**

Tool OD : 9.50 in	Max Op Press : 170 bara	Final Az : 158.02 deg	Tool numbers : 90676058 90677658 90667226
Min Inc : 0.48 deg	Min Inc Depth : 1146.2 m	MWD Real-time : 73 %	
Max Inc : 1.20 deg	Max Inc Depth : 637.4 m	MWD Recorded :	
Type : PWD + PCDC + HCIM + SDC + DDSr-HCIM			

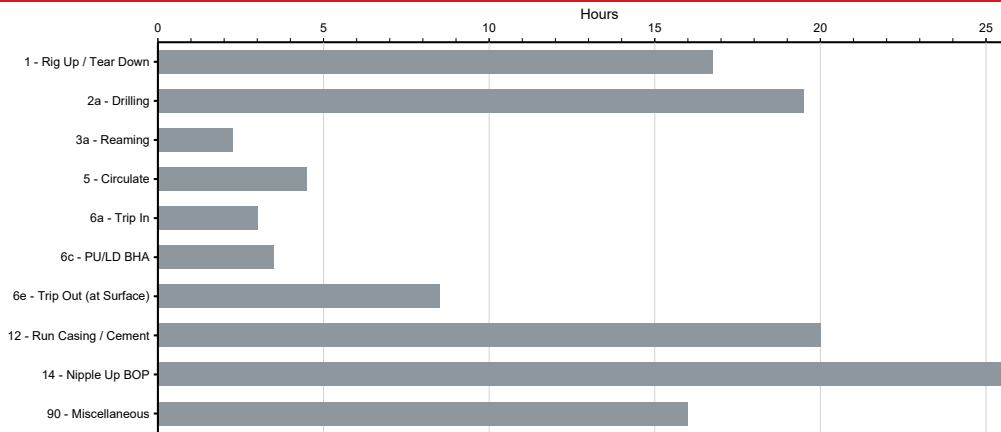
**BIT DATA**

Bit Number : 2	Nozzles : 3x20,1x18
Bit Size : 26.00 in	Bit TFA : 1.1689 in2
Manufacturer : HDBS	Blade Count : 3
Model : SR16DRC	Dull Grade In : New
Serial Number : 13484028	Dull Grade Out : 0-1-WT-G-F-I-NO-TD

**MOTOR DATA**

Motor Number : 2	Lobe : 6:7	Bend : 0.78 deg
Motor Size : 9.625 in	Stage : 5.0	- type Adjustable
Manufacturer : Sperry Drilling	Type : Performance	- distance: 2.26 m
Model : SperryDrill		
Serial Number : 11022738	9 5/8" SperryDrill Lobe 6/7 - 5.0 stg	

**RUN BREAKDOWN**





## Final Well Report for exploration well Laushornet 35/4-3

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HALLIBURTON | Sperry Drilling

## 26" Hole Section Run 0200 Run Summaries

### BHA Objective

- Drill out 30" conductor shoe
- Drill 26" hole to section TD at 1163 m TVD

### BHA Run Summary

#### BHA HANDLING AND RIH

The BHA was made up without issues in 2 modules, being the 2nd one premade using previously the bucking machine.

#### DRILLING

The string was RIS and then RIH to tag the theoretically top of cement at 503.8m. The behavior shown by the operation suggested that no cement was found and the component tagged was the casing shoe. The depth where the shoe was found was 0.8m shallower, keeping this difference until the end of the rat hole. Parameters indicated that no cement was found even below the casing shoe, showing some WOB and differential pressure on the motor only when the 26in bit hit the beginning of the 17 ½" rat hole. Shoe was reamed without issues.

New formation started to be drilled using following parameters: 3500lpm, 40rpms and 2-4tons WOB, getting around 30m/hr and 2-3kNm of surface torque, SPP off bottom was 94bars and 1-2bars of differential pressure on the motor was applied.

Typical drilling parameters 4500 lpm, 158-165 bar SPP(7Bar Motor Differential Pressure), 40-80 rpm, 4-12 kNm torque. WOB in the Naust Formation sands was 2-8 tons, with controlled ROP to 60 m/hr.

Typical drilling parameters from Naust formation to TD, 4500 lpm, 173-198 bar SPP(25 Bar Motor Differential Pressure), 80-100 rpm, 5-21 kNm torque. WOB 5-21 tons, doing 60-100 m/hr ROP. The inclination of the whole was kept below 0.8deg with these parameters, ending up 8.08m from the plan at TD.

While rotating the motor between 40-60 SRPM was observed a small building tendency, while rotating with 80 SRPM was observed that the BHA was holding angle and slightly right hand turn tendency, finally when the SRPM were increased to 100 rpm was observed a drop angle tendency that allow us to hold well's verticality and trajectory without the need to perform any sliding mode drilling.

#### CIRCULATING AND POOH

After TD, the well was circulated clean before doing a flow check. Pulser was disabled, and the downlink skid isolated before initiating the cement job.

At surface, No other visual wear on BHA components. All stabilizers and bit were in gauge.

### BHA Recommendations

- If a vertical control is planned with a Mud Motor with a bend housing setting of 0.78 deg is recommended to start with 100 SRPM as earlier as possible to keep well's verticality from the beginning of the run.
- It might be beneficial to run an Under Gauge Stabilizer Sleeve on the motor compared to the second string stabilizer to get a pendulum BHA.
- In order to minimize our exposure to the red zone before measuring the rigfloor Toolface Offset, the Bend Housing scribe line was projected to the top of the 25 ¾" String Stab in the riser deck.
- To keep optimizing the operations was decided to premade the module 3 (25 ¾" String Stab/Float Sub) plus the 7 5/8"Reg P x DC58 B X-Over and the DC58 Lift Sub on top of the Module 2(JetPulser/HCIM/PCDC/PWD) using the bucking machine reducing 3 connections in the rigfloor.
- If is permissible perform final download on deck before picking tools to the rig floor as was done in this BHA.

### MWD Run Summary

Pick up and RIH with SDC-HCIM-PCDC-PWD-Mud Motor BHA. Tagged cement at 505m. Started pumps and established detection to drill cement, shoe track and rat hole. Detection was below 30% until 650m. It improved as we drilled deeper. A few of the surveys were out of limits on GTotal due to movement of the string before connection, and had to be retaken. Downlinking worked as intended when it was needed, at the beginning and end of the run. Used #22 choke size throughout the section.




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HALLIBURTON | Sperry Drilling

26" Hole Section Run 0200  
BHA Detail

BOTTOM HOLE ASSEMBLY									
Item	Description	Serial	OD (in)	ID (in)	Gauge (in)	Weight (kgpm)	Top Conn	Length (m)	Cum Length (m)
1	26in Tricone Bit SR16DRC - 445W	13484028	9.50	3.00	26.00	323.6	P 7-5/8" REG	0.58	0.58
2	9 5/8" SperryDrill Lobe 6/7 - 5.0 stg	11022738	9.62	6.14		266.5	B 7-5/8" REG	9.18	9.76
3	25 3/4" String Stabilizer	OWS-STAB-9823	9.50	3.00	25.75	323.6	B 7-5/8" REG	2.23	11.99
4	9 1/2" PWD	12335447	9.50	2.38		317.3	B 7-5/8" REG	1.30	13.29
5	9 1/2" HCIM Collar	12310379	9.50	2.38		316.5	B 7-5/8" REG	2.33	15.62
6	9 1/2" DM Collar	11869561	9.50	4.13		310.1	B 7-5/8" REG	2.78	18.40
7	9 1/2" P-P X-Over Sub	90676058	9.50	3.50		165.2	P 7-5/8" REG	0.53	18.93
8	9 1/2" JetPulse	90676058	9.50	1.92		237.5	B 7-5/8" REG	4.34	23.27
9	25 3/4" String Stabilizer	OWS-STAB-9790	9.50	3.00	25.75	323.6	B 7-5/8" REG	2.31	25.58
10	9 1/2" Float Sub w/ NPFV	PDT-10079	9.50	3.00		323.6	B 7-5/8" REG	1.03	26.61
11	X-Over Sub 7 5/8" REG x DC 58	OWS-CRXOS-001	9.50	3.00		323.6	B 6.625" DC58	1.22	27.83
12	10 x Spiral Drill Collar 8 in, DC58		8.00	2.88		222.0		93.45	121.28
13	Jar NOV ShockForce	SFDJ-800-0003	8.28	2.75		214.3	B 6.625" DC58	12.07	133.35
14	3 x Wired Spiral Drill Collar 8 in, DC58		8.00	2.88		222.0		28.17	161.52
15	8 1/8" NOV Intensifier	4538-2946405	8.28	2.75		214.3		12.61	174.13
16	1 x Wired Spiral Drill Collar 8 in, DC58		8.00	2.88		222.0		9.29	183.42
17	X-Over Sub DC 58 P x TT550 B		8.00	3.00		219.1	B 5.5" TT550	1.01	184.43
18	12 x 5 1/2" Wired HWDP TT550		5.50	3.25		89.7		110.64	295.07
19	5 1/2" Wired DP TT550 to Surface		5.50	4.78		37.2		867.83	1162.90

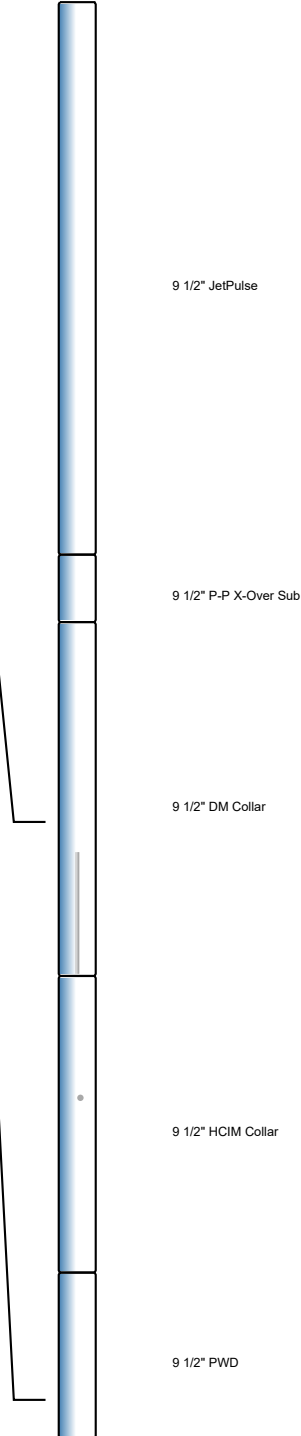
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**26" Hole Section Run 0200  
MWD Schematic**

**MWD SENSORS**

<b>SDC</b>		
Power	Two Negative Pulsar Batteries	
Choke Size	12	
Software	3.35	
Firmware	2.14	
Valve Insert	11942453	
<b>HCIM</b>		
SW Version	98.43	
<b>PCDC</b>		
Sensor Distance	16.83m	
SN Insert	12059442	
SW Version	6.43	
<b>PWD</b>		
Sensor Distance	12.29m	
SN Insert	12475553	
SW Version	4.64	





Aker BP ASA  
End of Well Report 35/4-3 PL685 Laushornet



35/4-3  
26" SR16DRC

Run 0200

13484028

Deepsea Nordkapp

Run date: 09-Apr-22

Parameters	
Depth in	510 mMD
Depth Out	1163 mMD
Interval	653 m
ROP	59.9 m/hr
WOB	1 - 21 MT
RPM	20 – 100
Flow (lpm)	3500 – 4500
Inc in/out	0.65 / 0.28



Top View



Side View

Dull Grade	
HDBS	
	0
	0
	WT
	G
	EEF
	I
	NO
	TD

**Dull Comments;** The inserts show very minor wear. No damages to the bit body. The bearing seal has failed on one cone, hence bit will be scrapped.

**Formation;** Nordland

**Lithology;** Claystone and Sandstone

**Drilling comments;** RIH with the 26" motor BHA and tagged TOC at 504mMD. Drilled out cement, float and shoe. Drilled on to observe hard formations from 562-585mMD(Potential boulders, much lower ROP vs pilot at same area). Drilled on with high controlled ROP to TD at 1163mMD. Circulated clean and POOH to surface.

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	<p align="center"><b>Final Well Report for exploration well Laushornet 35/4-3</b></p>	<p>Version: Draft Page: 68 of 141</p>
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**Run 0300 - 16 1/2" hole section**




**16.5" Hole Section Run 0300**  
**Run Data**

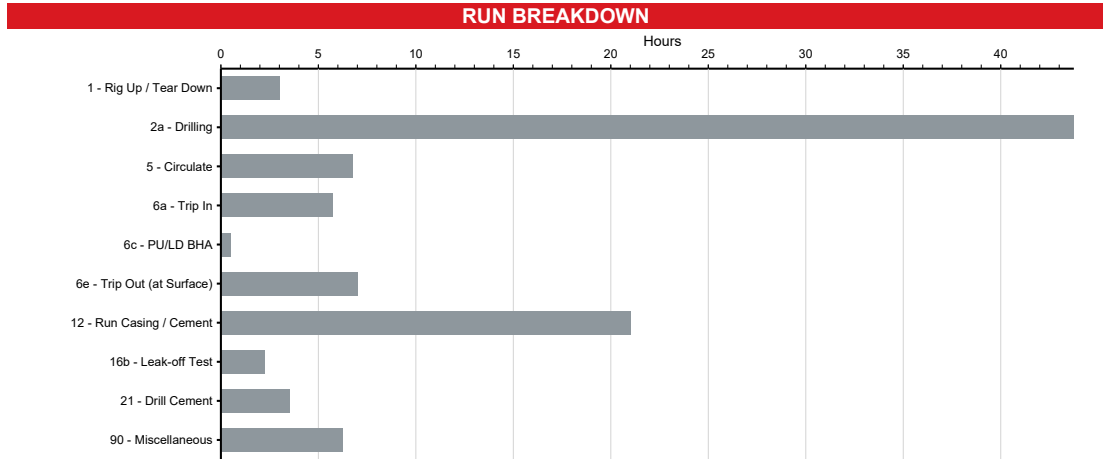
RUN TIME DATA					
Run Number :	0300	Run Start :	14-Apr-22 15:30	BRT Hrs :	68.25 hr
Rig BHA No. :	0300	Run End :	17-Apr-22 11:45	Hole Size :	16.500 in
				Circ. Hrs :	49.00 hr
				Oper. Hrs :	67.25 hr

DRILLING DATA					
Start Depth :	1163.0 m	Footage :	1925.0 m	Avg WOB :	11.5 mton
End Depth :	3088.0 m	Avg Flow :	4314 lpm	Avg Torque :	20.2 kN-m
Drilling Hrs :	43.75 hr	Avg RPM :	120 rpm	Avg Bend :	0.0 N-m
				Avg ROP :	44.0 m/hr
				Avg SPP :	338 bara

MUD DATA					
Mud Type :	Oil-Based				
Weight :	1.39 g/cc	Viscosity :	1 spl	PV :	26.0 mPsec
Chlorides :	16951 ppm	Max Temp :	85 degC	Solids % :	17.9
pH :		Fluid Loss :	2.6 mptm	Oil % :	60
				YP :	6.7 pa
				Sand % :	0.1
				Oil/Water :	74:26

MWD PERFORMANCE					
Tool OD :	9.50 in	Max Op Press :	477 bara	Final Az :	27.53 deg
Min Inc :	0.00 deg	Min Inc Depth :	2079.4 m	MWD Real-time :	100 %
Max Inc :	0.33 deg	Max Inc Depth :	1314.9 m	MWD Recorded :	100 %
Type :	DGR + iCruise + EWR-P4D + XBAT + PWD + PCDC + HCIM + IXO + SDC + DDS-IXO				Tool numbers :
					13132928
					90673880
					90683179
					90681773
					90683708
					90682112
					90681608

BIT DATA			
Bit Number :	3	Nozzles :	5x16,4x14
Bit Size :	16.50 in	Bit TFA :	1.5831 in2
Manufacturer :	HALLIBURTON	Blade Count :	7
Model :	GT166WMKHOS	Dull Grade In :	New
Serial Number :	13711504	Dull Grade Out :	2-1-CT-A-X-I-WT-TD





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HALLIBURTON | Sperry Drilling

16.5" Hole Section Run 0300  
Run Summaries

**BHA Objective**

Drill out 20" wiper plugs / cement and float shoe  
Drill 16 1/2" hole to section TD at 3088 m while maintaining verticality.

**BHA Run Summary**

**BHA HANDLING AND RIH**

The BHA was made up without issues in 2 modules (one module made in AUX and other one in the bucking machine).

**DRILLING**

The string was RIH and tagged top of cement at 1134.5m. Drilling commenced pumping 4000lpm and 60rpms showing 253bars, 6kNm of surface torque and applying 3tons WOB. Soon after the drilling of the plugs started, parameters were changed by reducing the flow rate to 3500lpm and a little bit later to 2500lpm. Once plugs were drilled through, flow was increased again to 3500lpm to drill the shoe track from 1136.5m down to 1154.5 where the shoe was tagged. Rat hole was drilled without issues and 3m of new formation drilled before a LOT was performed successfully to 1.61sg.

Section drilling started on controlled parameters at 4000lpm, 100rpms and 7tons WOB, getting 267bars surface pressure, 55m/hr ROP and 14kNm surface torque. Flow rate was increased at 1185m to 4400lpm and RPMs were increased from 100 to 120 at 1282m and ROP was increased to 80m/hr at the same time. Due to problems to handle cuttings on surface, the ROP was reduced from 80m/hr to 60m/hr at 1330m.

BHA was successfully holding verticality without using vertical cruise control, showing maximum inclination of 0.33deg inclination. Nevertheless, vertical cruise was engaged at 1320m and after that the inclination was reduced to < 0.1 Deg throughout the majority of the run. No high duty cycles where needed by the iCruise, on average less than 10% was used.

Typical drilling parameters 4350 lpm, 365 bar SPP, 120-140 rpm, 12-18T WOB, 18-27 kNm torque with controlled Max ROP of 80 m/hr. Getting closer to TD formation was firming up and ROP was about 25 m/hr with 12T WOB.

**CIRCULATING AND POOH**

TD was called on depth at 3088m after which the hole was circulated clean (4400 lpm / 383 Bar) and the BHA was POOH without any restrictions observed. Once at surface the BHA was found in good conditions with no visual wear on BHA components. The bit was graded 2-1-CT-A-X-I-WT-TD.

**BHA Recommendations**

BHA performed very well – no special recommendations.

**MWD Run Summary**

Pick up and RIH with IXO-HCIM-SDC-XBAT-PWD-EWRP4D-DGR-PCDC-ICruise BHA. Tagged cement at 1134m. Started pumps and established parameters for drilling cement, shoe track and rat hole. Pulser was disabled for most of the run as the wired drillpipe gave good data for the whole run. Jet Pulser was tested in few intervals to verify operation. Two geospan downlink were sent during the run to verify operation both succesful with a nozzle of #22. Had a good VPA of 500 towards the end of the run. A few of the surveys were out of limits on GTotal due to movement of the string before connection.

Connection practice caused depth errors and LWD data gaps of 0.5-0.7m at connections.

RT Sonic data was provided for pore pressure predictions.

Due to network limitations, the the data deliverables to town sufferd some delay.



Final Well Report for exploration well  
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HALLIBURTON | Sperry Drilling

16.5" Hole Section Run 0300  
BHA Detail

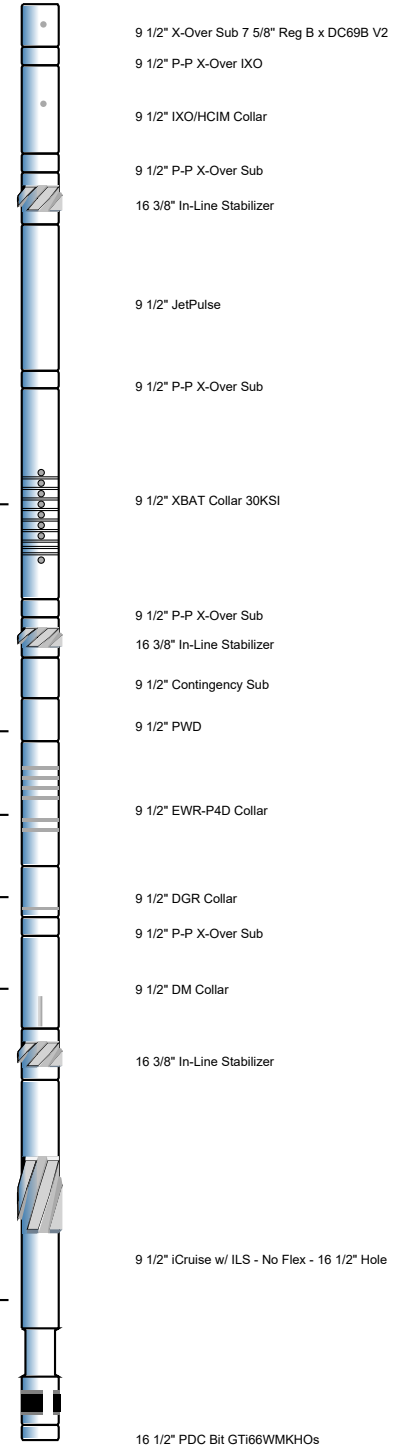
BOTTOM HOLE ASSEMBLY									
Item	Description	Serial	OD (in)	ID (in)	Gauge (in)	Weight (kgpm)	Top Conn	Length (m)	Cum Length (m)
1	16 1/2" PDC Bit GTi66WMKH0s	13711504	9.50	3.00	16.50	1179.6	P 7-5/8" REG	0.45	0.45
2	9 1/2" iCruise w/ ILS - No Flex - 16 1/2" Hole	13132928	9.50	6.00	15.88	306.0	B 7-5/8" REG	10.28	10.73
3	16 3/8" In-Line Stabilizer	SBD 107239	9.50	2.37	16.38	300.2	B 7-5/8" REG	1.53	12.26
4	9 1/2" DM Collar	90683179	9.50	4.13		310.1	B 7-5/8" REG	2.76	15.02
5	9 1/2" P-P X-Over Sub	90681773	9.50	3.50		165.2	P 7-5/8" REG	0.56	15.58
6	9 1/2" DGR Collar		9.50	2.38		300.2	B 7-5/8" REG	1.52	17.10
7	9 1/2" EWR-P4D Collar		9.50	2.38		315.5	B 7-5/8" REG	3.72	20.82
8	9 1/2" PWD	90681773	9.50	2.38		317.3	B 7-5/8" REG	1.28	22.10
9	9 1/2" Contingency Sub	90683708	9.50	3.50		165.2	P 7-5/8" REG	1.21	23.31
10	16 3/8" In-Line Stabilizer	SBD 106952	9.50	2.37	16.38	300.2	B 7-5/8" REG	1.20	24.51
11	9 1/2" P-P X-Over Sub	13047924	9.50	3.50		165.2	P 7-5/8" REG	0.54	25.05
12	9 1/2" XBAT Collar 30KSI	90683708	9.50	2.38		295.8	B 7-5/8" REG	6.28	31.33
13	9 1/2" P-P X-Over Sub	90681608	9.50	3.50		165.2	P 7-5/8" REG	0.52	31.85
14	9 1/2" JetPulse	90681608	9.50	1.92		237.5	B 6-5/8" REG	4.36	36.21
15	16 3/8" In-Line Stabilizer	SBD 115413	9.50	2.37	16.38	300.2	B 7-5/8" REG	1.55	37.76
16	9 1/2" P-P X-Over Sub	90682112	9.50	3.50		165.2	P 7-5/8" REG	0.56	38.32
17	9 1/2" IXO/HCIM Collar	90682112	9.50	2.38		316.5	B 7-5/8" REG	2.63	40.95
18	9 1/2" P-P X-Over IXO	13120188	9.50	3.50		165.2	P 7-5/8" REG	0.55	41.50
19	9 1/2" X-Over Sub 7 5/8" Reg B x DC69B V2	13488778	9.50	2.38		316.5	B 9.5" DC69	1.27	42.77
20	X-Over Sub NOV P: DC69 B: DC58	90682112	9.50	3.00		323.6	B 8" DC58	1.16	43.93
21	8" Wired Float Sub w/ NP Valve	OWS-3885232-01-02	8.00	3.00		218.8	B 8" DC58	1.52	45.45
22	String Stabilizer 16 3/8" wired	HT1200610-4	8.00	3.00	16.38	218.8	B 8" DC58	2.35	47.80
23	9 x Spiral Drill Collar 8 in, DC58		8.00	2.88		222.0	B 8" DC58	84.07	131.87
24	Drilling Jar, 8" Wired Jar DC58	SFDJ-800-0003	8.12	2.88		222.0	B 8" DC58	12.07	143.94
25	3 x Spiral Drill Collar 8 in, DC58		8.00	2.88		222.0	B 8" DC58	28.17	172.11
26	8" Wired Acc DC58	4538-2946405	8.12	2.88		222.0	B 8" DC58	12.61	184.72
27	1 x Spiral Drill Collar 8 in, DC58		8.00	2.88		222.0	B 8" DC58	9.29	194.01
28	X-Over Sub NOV P:DC58 B:TT550	36256316-01	8.00	3.00		219.1	B 5.5" TT550	1.01	195.02
29	16 x 5 1/2 in Wired HWDP TT550		5.50	3.25		78.4	B 5.5" TT550	149.17	344.19
30	5 1/2 in Wired DP to Surface TT550		5.50	4.78		37.2	B 5.5" TT550	2361.19	2705.38



**16.5" Hole Section Run 0300  
MWD Schematic**

**MWD SENSORS**

<b>SDC</b>		
	Power	Two Negative Pulser Batteries
	Choke Size	12
	Software	3.35
	Firmware	2.14
	Valve Insert	13416056
<b>HCIM</b>		
	SW Version	98.43
<b>XBAT</b>		
	Sensor Distance	27.87m
	SN Sub	12059953
	SN Transmitter	12413892
	Sequence File	2:M9_D4
	Software	xbat 1.4.7-1
<b>PWD</b>		
	Sensor Distance	21.11m
	SN Insert	11576491
	SW Version	4.64
<b>EWR-P4D</b>		
	Sensor Distance	18.62m
	SN Insert	12034465
	SW Version	2.52
<b>DGR</b>		
	Sensor Distance	16.17m
	SN Insert	12351712
<b>PCDC</b>		
	Sensor Distance	13.44m
	SN Insert	11295951
	SW Version	6.43
<b>iCruise GM</b>		
	Sensor Distance	4.17m
	Serial Num	13132928



Aker BP ASA  
End of Well Report 35/4-3 PL685 Laushornet

35/4-3  
Run 0300  
**16 1/2" GTI66WMKHOS**  
13711504  
**Deepsea Nordkapp**

Run date: 14-Apr-22

Parameters	
Depth in	1163 mMD
Depth Out	3088 mMD
Interval	1925 m
ROP	49.7 m/hr
WOB	3 – 16 MT
RPM	100 – 140
Flow (lpm)	3500 – 4400
Inc in/out	0.21 / 0.10



Top View



Side View

Dull Grade
HDBS
1
2
BT
S
X
I
DL
TD

**Dull Comments;** The cutting structure show a combination of broken cutters and green cutters (no wear or damage) – Hence no abrasive or thermal wear seen. Some cutters in the cone show signs of overloading (high WOB during drill-out) and cutters on the shoulder show impact damages

**Formation;** Nordland, Hordaland, Rogaland (Balder) & Shetland (Jorsalfare & Kyrre)

**Lithology;** Claystone, Sandstone & Limestone, all interbedded with stringers

**Drilling comments;** RIH and tagged TOC at 1134.5mMD. Drilled out plugs but struggled with lower plug (most likely where cutters in cone were damaged), cleaned ratihole and performed LOT (1.61sg EMW). Drilled to TD with controlled ROP, lower ROP observed in Shetland using similar parameters as above. 50-60m/hr in overburden and 30-40m/hr through Shetland. Circulated BU at TD and POOH to surface.

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## Final Well Report for exploration well Laushornet 35/4-3

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### Run 0400 - 12 1/4" hole section

**HALLIBURTON** | Sperry Drilling

### 12.25" Hole Section Run 0400 Run Data

#### RUN TIME DATA

Run Number :	0400	Run Start :	18-Apr-22 23:00	BRT Hrs :	59.50 hr	Circ. Hrs :	43.75 hr
Rig BHA No. :	0400	Run End :	21-Apr-22 10:30	Hole Size :	12.250 in	Oper. Hrs :	60.72 hr

#### DRILLING DATA

Start Depth :	3088.0 m	Footage :	1058.0 m	Avg WOB :	12.4 mton	Avg ROP :	31.8 m/hr
End Depth :	4146.0 m	Avg Flow :	3405 lpm	Avg Torque :	22.4 kN-m	Avg SPP :	362 bara
Drilling Hrs :	33.25 hr	Avg RPM :	140 rpm	Avg Bend :			

#### MUD DATA

Mud Type :	Oil-Based	Viscosity :	0 spl	PV :	33.0 mPsec	YP :	7.7 pa
Weight :	1.65 g/cc	Max Temp :	114 degC	Solids % :	26	Sand % :	0.10
Chlorides :	14633 ppm	Fluid Loss :	0.0 mptm	Oil % :	54	Oil/Water :	75:25
pH :							

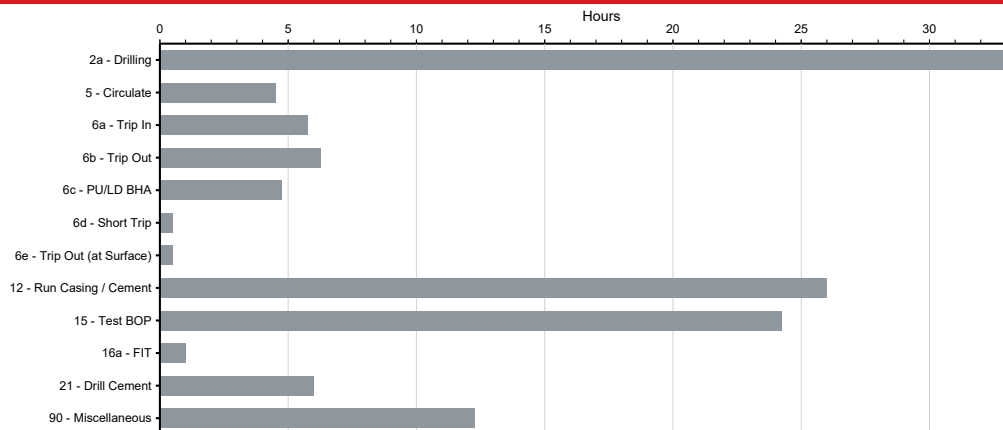
#### MWD PERFORMANCE

Tool OD :	8.00 in	Max Op Press :	915 bara	Final Az :	152.38 deg	Tool numbers :
Min Inc :	0.06 deg	Min Inc Depth :	4122.9 m	MWD Real-time :	100 %	IC8050
Max Inc :	0.41 deg	Max Inc Depth :	3134.2 m	MWD Recorded :	100 %	90673805
Type :	DGR + iCruise + EWR-P4 + ALD + CTN + XBAT + PWD + PCDC + HCM + FDC + IXO + DDSr-DGR + DDSr-IXO					90680812
						90675710
						90683371
						90680814
						90677916

#### BIT DATA

Bit Number :	4	Nozzles :	2x16,1x15,7x14
Bit Size :	12.25 in	Bit TFA :	1.6176 in2
Manufacturer :	HDBS	Blade Count :	7
Model :	GT176WRKOs	Dull Grade In :	NEW
Serial Number :	13623712	Dull Grade Out :	1-1-NO-A-X-I-DL-TD

#### RUN BREAKDOWN





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HALLIBURTON | Sperry Drilling

12.25" Hole Section Run 0400  
Run Summaries

BHA Objective

Objectives

- Drill out 13 3/8" wiper plugs / cement and float shoe
- Drill 12 1/4" hole to section TD at 4146 m while maintaining verticality.

BHA Run Summary

BHA HANDLING AND RIH

The BHA was made up without issues in 2 modules (one module made in AUX and other one in the bucking machine).

DRILLING

The string was RIH and tagged top of cement at 3049m. Drilling commenced pumping 3000lpm and 60rpms showing 250bars, 6kNm of surface torque and applying 3tons WOB. No cement was found on top of the plugs (9m was anticipated). Progress was slow with almost no response on torque when drilling the plugs. Mashing up the plugs was needed with tagging with 12T WOB (no rotation) and afterwards slowly initiate rotation (starting with 5 RPM). Afterwards lowering the flow drastically to 1000lpm was also used for a short while just to get some progress going. Both actions worked fine as was seen afterwards on the shakers (stroke counters where zeroed when mashing started). Cement was drilled without issues (11m/hr with 4T WOB). Shoe was tagged at 3077.4m and drilled with 80 RPM – 3400 LPM.

Rat hole was cleaned out in steps. Torque spikes where observed with bit going trough the shoe area. After drilling 3m formation a LOT was performed successfully to 1.88sg.

Section drilling started with 3400lpm, 140rpms and 17tons WOB, getting 355bars surface pressure, 60m/hr ROP and 25kNm surface torque. Around 3270m some ECD spikes where seen and WOB was decreased to 15T which gave about 40-50m/hr ROP. On average ROP was about 45m/hr till 3900m after which ROP was slowed down to 25m/hr for HPHT procedures until TD was reached at 4146mMD.

Vertical cruise was used during the entire run. Maximum inclination recorded was 0.32 Deg. No high duty cycles where needed by the iCruise, on average about 10-25% was used.

Typical drilling parameters used: 3380 lpm, 365 bar SPP, 120-140 rpm, 12-15T WOB, 18-27 kNm torque.

CIRCULATING AND POOH

TD was called on depth at4146m MD after which the hole was circulated clean (3380 lpm / 355 Bar) and the BHA was POOH without two small restrictions observed. Once at surface the BHA was found in good conditions with no visual wear on BHA components. The bit was in very good condition with only one delaminated cutter on the gauge. 1-1-NO-A-X-I-DL-TD

BHA statistics:

Drilling cement hours: 2.0 hrs  
Drilling formation hours: 28.7 hrs  
Circulating hours: 45.0hrs  
Total Krevs: 308.3 krevs  
Avg ROP: 36.8 m/hr

MWD Run Summary

Pick up and RIH with IXO-HCIM-SDC-XBAT-PWD-EWRP4-ALD-CTN-DGR-PCDC-ICruise BHA. Tagged cement at 3049m. Started pumps and established parameters for drilling cement, shoe track and rat hole. Performed LOT to 1.88g/cc.

Pulser was disabled for most of the run as the wired drillpipe gave good data for the whole run. Jet Pulser was tested in few intervals to verify operation.

Downlink had a #22 nozzle and was tested twice during the run. It gave VPA of 622 mid run.

After POOH the Odfjell Drilling noticed a mismatch on their pipe tally and the TD became 2.23m deeper. All files and data were reprocessed and corrected.

Connection practice caused depth errors and LWD data gaps of 0.5-0.7m at connections.



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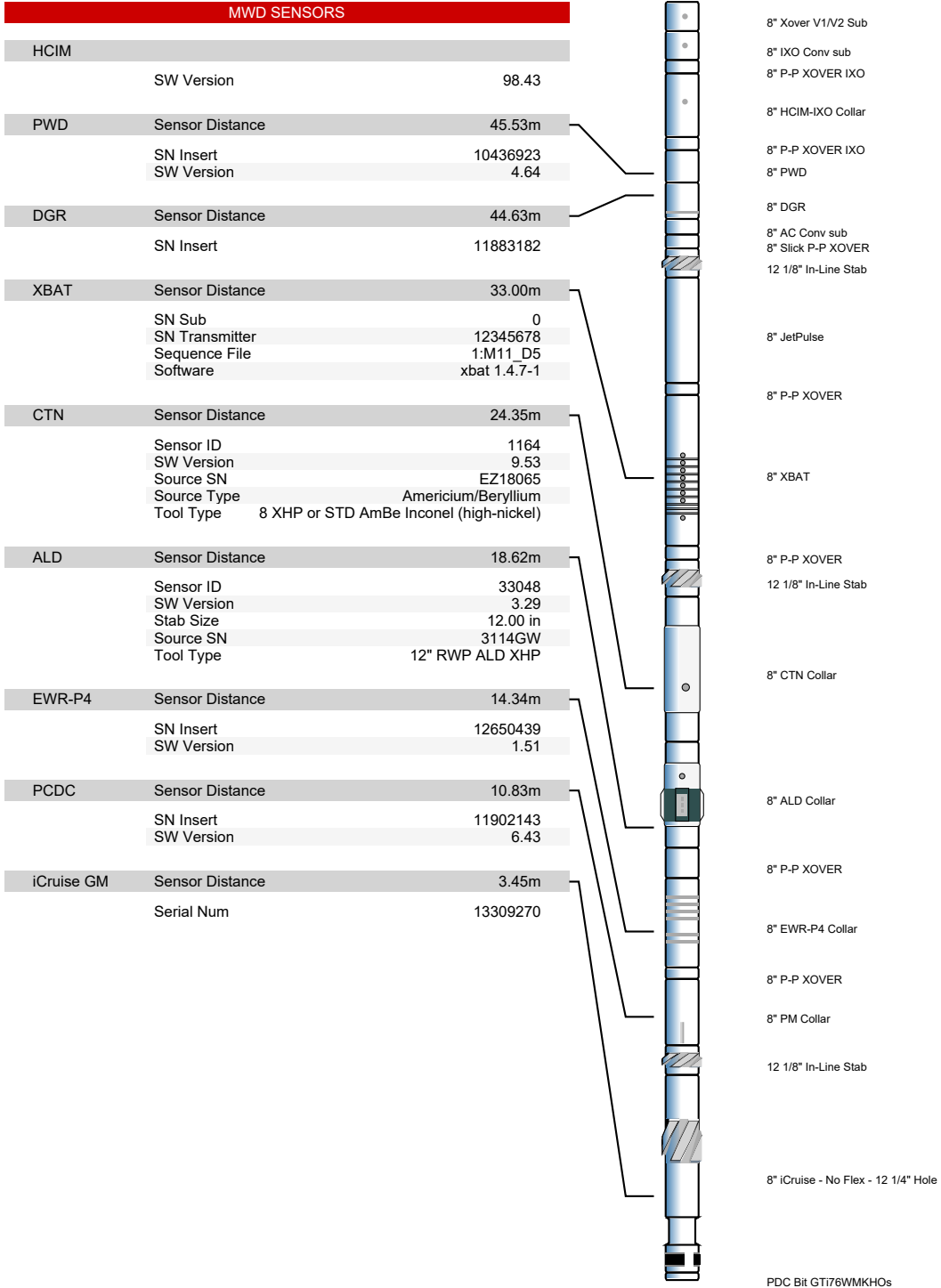
12.25" Hole Section Run 0400  
BHA Detail

BOTTOM HOLE ASSEMBLY									
Item	Description	Serial	OD (in)	ID (in)	Gauge (in)	Weight (kgpm)	Top Conn	Length (m)	Cum Length (m)
1	PDC Bit GTi76WMKHOs	13623712	8.00	3.25	12.25	262.9	P 6-5/8" REG	0.31	0.31
2	8" iCruise - No Flex - 12 1/4" Hole	13309270	8.00	5.45	11.88	183.9	B 6-5/8" REG	8.13	8.44
3	12 1/8" In-Line Stab	SBD103798	8.00	2.37	12.12	197.9	B 6-5/8" REG	1.22	9.66
4	8" PM Collar	11842352	8.00	3.50		219.4	B 6-5/8" REG	2.73	12.39
5	8" P-P XOVER	12525667	8.00	3.25		249.1	P 6-5/8" REG	0.47	12.86
6	8" EWR-P4 Collar	11906406	8.00	2.00		224.7	B 6-5/8" REG	3.68	16.54
7	8" P-P XOVER	13051255	8.00	3.25		226.3	P 6-5/8" REG	1.25	17.79
8	8" ALD Collar	11308995	8.00	2.38	12.00	271.4	P 6-5/8" IF	4.36	22.15
9	8" CTN Collar	11548435	8.00	2.38		236.6	B 6-5/8" REG	5.97	28.12
10	12 1/8" In-Line Stab	SBD107290	8.00	2.38	12.13	218.8	B 6-5/8" REG	1.52	29.64
11	8" P-P XOVER	12455581	8.00	3.25		225.6	P 6-5/8" REG	0.57	30.21
12	8" XBAT	11443777	8.00	2.38		194.5	B 6-5/8" REG	6.21	36.42
13	8" P-P XOVER	11535807	8.00	3.25		249.1	P 6-5/8" REG	0.49	36.91
14	8" JetPulse	12665496	8.00	1.92		237.5	B 6-5/8" REG	4.34	41.25
15	12 1/8" In-Line Stab	SBD107069	8.00	2.37	12.12	197.9	B 6-5/8" REG	1.20	42.45
16	8" Slick P-P XOVER	13408566	8.00	3.25		249.1	P 6-5/8" REG	0.57	43.02
17	8" AC Conv sub	SS1119267-9	8.00	3.25		249.1	P 6-5/8" REG	0.64	43.66
18	8" DGR	12045928	8.00	2.37		203.1	B 6-5/8" REG	1.50	45.16
19	8" PWD	12755281	8.00	2.38		199.1	B 6-5/8" REG	1.33	46.49
20	8" P-P XOVER IXO	SBD101511	8.00	3.25		249.1	P 6-5/8" REG	0.54	47.03
21	8" HCIM-IXO Collar	13203930	8.00	1.92		223.1	B 6-5/8" REG	2.62	49.65
22	8" P-P XOVER IXO	12335234	8.00	3.25		249.1	P 6-5/8" REG	0.55	50.20
23	8" IXO Conv sub	13018212	8.00	1.92		223.1	B 6-5/8" REG	1.19	51.39
24	8" Xover V1/V2 Sub	13391239	8.00	1.92		223.1	B 8" DC58	1.20	52.59
25	8" Wired Float Sub w/ NP Valve	OWS331739401	7.92	3.00		218.8	B 8" DC58	1.53	54.12
26	12" String Stabilize wired	OWS351868514	8.00	2.38	12.00	218.8	B 8" DC58	1.60	55.72
27	10 x Spiral Drill Collar 8 in		8.00	2.88		222.0	B 8" DC58	93.18	148.90
28	8" Drilling Jar Wired	SFDJ-800-000-3	8.12	2.88		222.0	B 8" DC58	12.07	160.97
29	3 x Spiral Drill Collar 8 in		8.00	2.88		222.0	B 8" DC58	28.17	189.14
30	8" Wired Acc	4538-2946405	8.12	2.88		222.0	B 8" DC58	12.61	201.75
31	1 x Spiral Drill Collar 8 in		8.00	2.88		222.0	B 8" DC58	9.29	211.04
32	X-Over Sub	36256316-01	8.00	3.00		219.1	B 5.5" TT550	1.01	212.05
33	16 x 5 1/2" Wired HWDP		5.50	3.25		89.7	B 5.5" TT550	146.91	358.96
34	Drill Pipe 5.5 in, 21.9 ppf, S, wTT550, P		5.50	4.78		37.2	B 5.5" TT550	2726.47	3085.43



## 12.25" Hole Section Run 0400

### MWD Schematic





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## 12 1/4" GTI76WRKOS 13623712

35/4-3  
Run 0400  
Deepeat Nordkapp

Run date: 18-Apr-22

Parameters	
Depth in	3088 mMD
Depth Out	4146 mMD
Interval	1058 m
ROP	36.8 m/hr
WOB	5 - 17 MT
RPM	130 – 160
Flow (lpm)	3375 – 3600
Inc in/out	0.17/0.23



Top View



Side View

Dull Grade
HDBS
0
0
NO
A
X
I
DL
TD

**Dull Comments:** The cutting structure show no wear or damage, except 2x gauge cutters have been delaminated (most likely due to impact inside casing/shoe).

**Formation;** Shetland (Kyrre & Tryggvason), Cromer Knoll (Rødby) & Viking (Heather)

**Lithology;** Claystone and Limestone with stringers

**Drilling comments;** RIH and tagged TOC at 3049mMD. Struggled to drill out plugs, hence decided to mash plugs with up to 12MT. Cleaned ratihole and performed LOT (1.88sg EMW). Drilled controlled 30-40m/hr down to 3935mMD. Initiated "HPHT Light" and drilled to TD at 4144mMD with 20-30m/hr. Circulated clean and POOH to surface

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**Run 0500 - 8 1/2" hole section**



**8.5" Hole Section Run 0500  
Run Data**

**RUN TIME DATA**

Run Number : 0500	Run Start : 24-Apr-22 03:00	BRT Hrs : 273.00 hr	Circ. Hrs : 152.00 hr
Rig BHA No. : 0500	Run End : 05-May-22 12:00	Hole Size : 8.500 in	Oper. Hrs : 278.52 hr

**DRILLING DATA**

Start Depth : 4146.0 m	Footage : 561.0 m	Avg WOB : 8.4 mton	Avg ROP : 5.4 m/hr
End Depth : 4707.0 m	Avg Flow : 1445 lpm	Avg Torque : 7.9 kN-m	Avg SPP : 256 bara
Drilling Hrs : 104.25 hr	Avg RPM : 118 rpm	Avg Bend :	

**MUD DATA**

Mud Type : Oil-Based	Viscosity : 0 spl	PV : 36.0 mPsec	YP : 5.3 pa
Weight : 1.96 g/cc	Max Temp : 145 degC	Solids % : 36	Sand % : 0.10
Chlorides : 5017 ppm	Fluid Loss : 0.0 mptm	Oil % : 57	Oil/Water : 81:19
pH :			

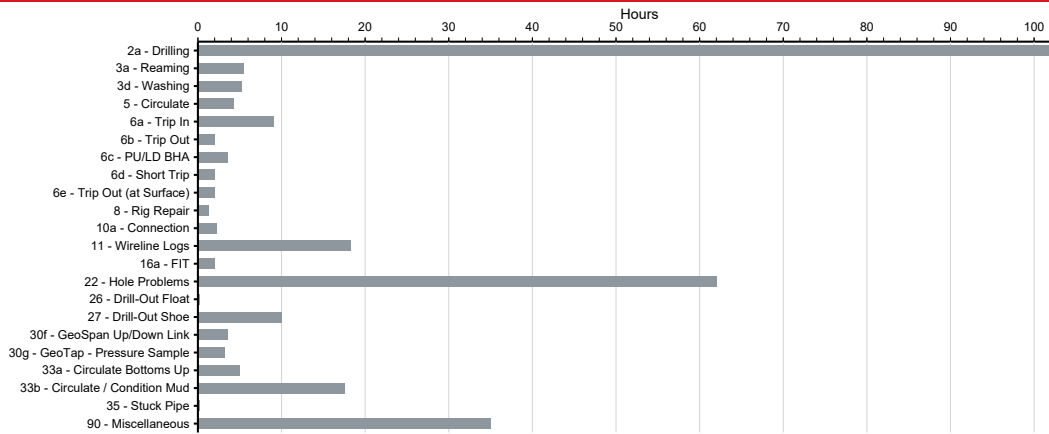
**MWD PERFORMANCE**

Tool OD : 6.75 in	Max Op Press : 2251 bara	Final Az : 32.03 deg	Tool numbers :
Min Inc : 0.39 deg	Min Inc Depth : 4162.8 m	MWD Real-time : 95 %	90683175
Max Inc : 3.75 deg	Max Inc Depth : 4505.9 m	MWD Recorded : 100 %	90684505
Type : GM + EWR-Solar + ALD + CTN + BAT + GeoTap + PWD-FTWD + DM + HCIM + TM + Pos Pulser + DDSr-HCIM			90680270
			90683908
			90683266

**BIT DATA**

Bit Number : 5	Nozzles : 4x13,1x12
Bit Size : 8.50 in	Bit TFA : 0.6289 in2
Manufacturer : HALLIBURTON	Blade Count : 6
Model : GTI55WMKHO	Dull Grade In : New
Serial Number : 13571902	Dull Grade Out : 1-1-WT-A-X-I-NO-TD

**RUN BREAKDOWN**





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8.5" Hole Section Run 0500  
Run Summaries

**BHA Objective**

Drill out 9-7/8" casing shoe track to 4140m, clean 12 ¼" rat hole to 4146m and continue drilling 8 ½" hole following HPHT procedures to expected total depth 4864m, using Rotary BHA + LWD.

**BHA Run Summary**

**RUNNING IN HOLE**

The BHA came on board in 6 modules and was made up in the MAIN derrick, after which the final download was done, radioactive sources installed before continuing as per tally. Established circulation and washed down with 1000lpm until tagging top of cement at 4067m. Displaced to 1.95 sg and performed HPHT fingerprinting as per RAP fingerprint procedure.

**DRILL OUT SHOE TRACK**

Used 8 hours drilling the wiper plugs (special HPHT type) and landing collar. Experienced little to no progress, varied parameters 1-6 tons WOB with 30-100 rpm. Increased WOB to 10 tons and continued working bit with both high rotation (100 rpm) and low rotation (30-40rpm), finally breaking through. No cement below the landing collar. Drilled the shoe in 20 min (100 rpm, 3 tons) without any problems. Plugs, landing collar and shoe were all found 4m shallow.

Cleaned out the rat hole in 2m intervals (no cement) and drilled 3m new formation prior to performing a LOT (leak-off test).

**DRILLING FORMATION**

Drilling 8.5in section hole started at 4148m, staying on low side of RPM (60–100) giving little to no progress. The parameters were adjusted, and an average of 3 m/hr drilling continued for approx. 25 m before pumping a short trip back to above the landing collar. Drilling continued with 4 m/hr and after pulling off bottom again, an ROP of 15 m/hr was achieved by using 6–12 tons WOB.

The RPM was increased to 160 after the roller reamer got out of the 9 7/8" casing shoe. The 15 m/hr ROP target was increased to 25 m/hr at 4290m, but dropped quickly to almost zero at 4395m. Several attempts were made with various drilling parameters trying to get the bit to drill.

After drilling only 10m in 5 hours time, the decision was made to POOH, but just before the driller picked off bottom the ROP went up to 15 m/hr with only 6 Ton WOB.

Drilling continued for another one and a half stand when the ROP dropped again to max. 5 m/hr. The standpipe pressure fluctuated when having more than 12–15 Ton WOB. Drilling continued with very erratic ROP over time. Observed drilling break at 4614m. Continued drilling to 4617m before closing the BOP. Performed flow check and monitored pressure build up. Killed well by using drillers' method.

Continued drilling to 4675m to perform pressure point. Difficulties downlinking (low flow) was resolved by changing from an 18/32 to a 22/32 nozzle in the Geo-Span. Performed three pressure points.


Continued drilling to 4696m. Over pull and not able to rotate while making connection. Continued circulating and pulled free with 30T over pull. Reamed the stand for one bottoms up.

Continued drilling to 4707m where the geologist called TD.

**POOH**

Performed check trip to the shoe and back. No pressure points were taken while POOH. Lubricated back into the shoe. A flow check was performed before POOH. Flow checked the well with BHA below BOP prior to resume the trip to surface.

At surface, BHA components including the bit were found in good shape. The Geo-Span downlink skid started with an 18/32 nozzle which worked well for the first part of the section, but was changed to a 22/32 when using reduced flowrates, giving a VPA mean of +/- 600.

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## 8.5" Hole Section Run 0500 Run Summaries continued

The tool memory was read and the BHA laid out offline in the Aux, while rearranging and preparing for possible wiper trip.

### OFFICIAL NUMBERS

Total circulating hours: 204hr  
Drilling hours: 77.6 hr  
Meters drilled: 561 m  
Average ROP: 7.2 m/hr

### BHA Recommendations

Results from the pressure points taken by Geotap confirmed to be spot on and correct when comparing them to pressure points/permeability taken with wireline. Minimal supercharging affect.

RT ESD avg measurement can get affected by pump pressure if circulation started up very slowly.

The downlink nozzle was changed during circulation, with 212bar on the standpipe.

### MWD Run Summary

P/U and RIH with P4M-QBAT-FTWD-HCIM-EWRP4-ALD-CTN-GM (SOLAR Tools) rotary assembly.

The RT sonic data was processed in town and updated in the offshore database in intervals or when requested by the wellsite geologist.

Mud Pulse telemetry-only, as downhole temperature exceeds wired drillpipe operation limits.

Auto ballooning mode activated throughout the run to record pressure changes during connections and other pumps off events. Encountered a couple issues related to the way the P4M mud pulse system governs Pumps on status. During SCR's the tool turned on with the highest SCR flow which interrupted the ballooning mode. Furthermore the transmission delay of 60sec was not always enough for the pressure fluctuations to settle enough, and we lost the first part of the ballooning data.

As per calculated hydraulic it was used #18 nozzle generating 568 VPA throughout most of the run. Due to wellbore condition and high ECD it was decided to reduce flow rate to 1100 lpm, and this new scenario deteriorated downlink transmission. Based on PWD downhole downlink parameters it was decided to increase nozzle to #22. With a larger nozzle 3 pressure tests were performed with perfect downlink performance.

Tools were setup with a flowrate between 1400lpm to 1800lpm. Good data detection was achieved with much lower flow (1020lpm). And downlinking were performed at 1090lpm. This made it possible to continue drilling to TD with low flow and ECD close to upper limit.

FE sensors worked very well throughout the 11.5 days long run, except for the bottom part of the reservoir where the density tool gave an erratic response. Due to slower ROP than planned (avg. 7.2m/hr), and well control situation, this run lasted longer than initially planned. This caused the resistivity tool to reach full memory 30m before TD. The customer was informed about the EWR memory fill several days in advance.

3 pressure points successfully performed, but not conclusive according to geologist's expectations. So, it was decided to declare TD at 4707 m MD and run wireline for further reservoir evaluation. However Pressure points performed by wireline showed same results as tests performed by the Geotap tool.

Visual inspection for pad condition and stabilizers showed no excessive wear. All memory retrieved successfully.



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8.5" Hole Section Run 0500  
BHA Detail

BOTTOM HOLE ASSEMBLY									
Item	Description	Serial	OD (in)	ID (in)	Gauge (in)	Weight (kgpm)	Top Conn	Length (m)	Cum Length (m)
1	GTi55WMKHO	13571902	6.50	2.50	8.50	281.9	P 4-1/2" REG	0.30	0.30
2	Bit Sleeve 8 1/32" UG	12967487	6.50	2.50	8.45	130.5	B NC 50	0.31	0.61
3	6 3/4" GM Collar	12359028	6.75	3.13		153.9	B NC 50	2.79	3.40
4	6 3/4" P-P STAB XOVER	SBD100272	6.75	3.00	8.38	181.6	P NC 50	0.62	4.02
5	6 3/4" EWR-P4	11264264	6.75	2.00		155.2	B NC 50	3.53	7.55
6	6 3/4" ALD	11240891	6.75	1.92	8.50	155.2	P NC 50	4.92	12.47
7	6 3/4" CTN	12814786	6.75	1.91		152.2	B NC 50	3.60	16.07
8	6 3/4" HCIM	11627372	6.75	1.92		151.3	B NC 50	2.02	18.09
9	6 3/4" GEO-TAP	11373926	6.75	1.91	8.25	157.9	B NC 50	8.40	26.49
10	6 3/4" QBAT	11980871	6.75	1.91		145.4	B NC 50	6.74	33.23
11	8 3/8" In-Line Stabilizer	SBD110509	6.75	1.92	8.37	174.1	B NC 50	1.56	34.79
12	6 3/4" MWD HOC (Pulser, TM, Directional)	11711513	6.90	3.25		148.4	B NC 50	4.68	39.47
13	6 3/4" NM Screen Sub	675-868	6.75	3.00		148.4	B NC 50	2.17	41.64
14	6 3/4" Float Sub w/ HT NP Valve	SBD108269	6.75	2.81		149.8	B NC 50	0.84	42.48
15	6 3/4" Float Sub w/ HT NP Valve	12340331	6.75	2.81		149.8	B NC 50	0.85	43.33
16	8 1/2" Roller Reamer	XM1306	6.75	2.81	8.50	149.7	B NC 50	1.60	44.93
17	4 x 6 1/2" Spiral Drill Collar		6.50	2.81		148.2	B NC 50	37.37	82.30
18	10 x HWDP		5.00	3.00		76.8	B 5" NC50 Vam Eis	92.07	174.37
19	6 3/4" UltiTorq Hydraulic Jar	MHJE 66 2454	6.73	2.56		133.0	B NC 50	9.13	183.50
20	3 x HWDP		5.00	3.00		76.8	B 5" NC50 Vam Eis	27.31	210.81
21	6 3/4" UltiTorq Accelerator	MHE 66 2053	6.73	2.56		133.0	B NC 50	12.13	222.94
22	5 x HWDP		5.00	3.00		76.8	B 5" NC50 Vam Eis	45.66	268.60
23	Drill Pipe 5 in, 19.5 ppf, S, NC-50 VAM EIS, P		5.00	4.28		33.6	B 5" NC50 Vam Eis	4600.90	4869.50



**8.5" Hole Section Run 0500  
MWD Schematic**

**MWD SENSORS**

**Pos Pulser**

Pulser	BootlessMark 10 Short Stroke
Impeller	35 deg
Stator	42 deg
Orifice	1.750 in
Standoff	2.000 in
Oil type	Jet Oil II
Pulser	11252526

**HCIM**

SW Version	98.43
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**DM**

Sensor Distance	35.91m
SN Insert	13331693
SW Version	8.60

**BAT**

Sensor Distance	29.82m
SN Sub	11980871
SN Transmitter	111
MIT File	QBAT_ggss_m12_d5.mit

**GeoTap**

Sensor Distance	20.03m
Tool SN	12183394
Probe SN	12106545

**CTN**

Sensor Distance	13.27m
Sensor ID	1217
SW Version	9.54
Source SN	0130NN
Source Type	Americium/Beryllium
Tool Type	6-3/4 XHP AmBe Inconel (high-nickel)

**ALD**

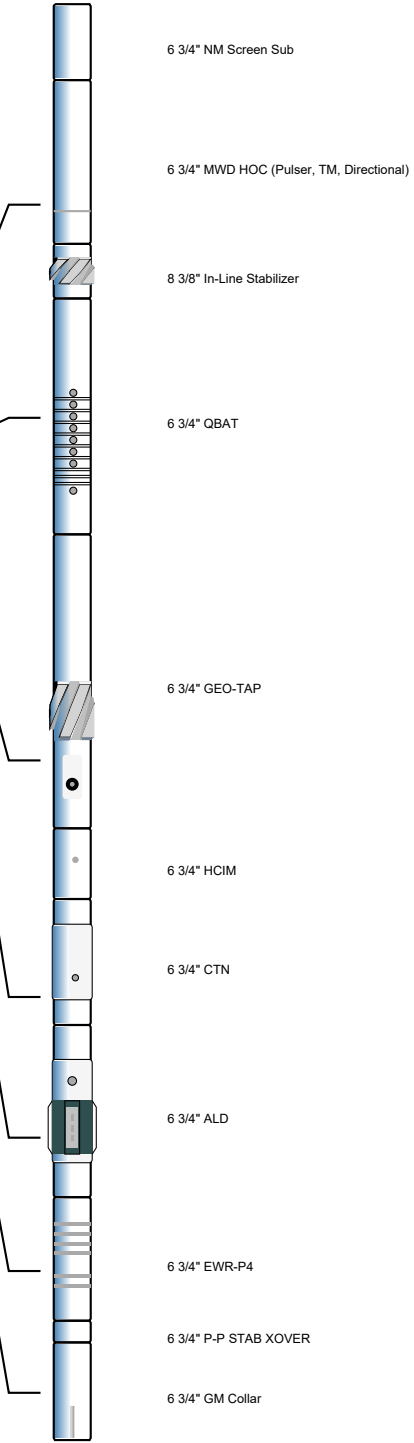
Sensor Distance	9.25m
Sensor ID	35010
SW Version	3.29
Stab Size	8.13 in
Source SN	49337B
Tool Type	8 1/4" Sleeve ALD HP

**EWR-Solar**

Sensor Distance	5.44m
SN Insert	11129120
SW Version	5.55

**GM**

Sensor Distance	1.96m
SN Insert	910923





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35/4-3

Run 0500

Deepsea Nordkapp

8 1/2" GTI55WMKHO  
13571902



Run date: 24-Apr-22

Parameters	
Depth in	4146 mMD
Depth Out	4707 mMD
Interval	561 m
ROP	7.2 m/hr
WOB	3 - 15 MT
RPM	40 - 140
Flow (lpm)	1090 - 1800
Inc in/out	0.22 / 3.38



Dull Grade
HDBS
1
1
NO
A
X
I
BT
TD

**Dull Comments;** Cutting structure show a few minor BT in the nose area and BU positions. Rest of the cutting structure show no wear or damages

**Formation;** Viking (Heather), Brent (Rannoch) & Dunlin (Drake & Cook)

**Lithology;** Claystone, Sandstone & Limestone with stringers

**Drilling comments;** RIH and tagged TOC at 4093mMD. HPHT plug-set, hence spent more than 8 hours drilling out. Cleaned out and performed FIT (2.20sg). Tight well, hence no reports available. Drilled to TD with varying ROP, some issues with roller reamers hanging on shoe and packing off during drilling due to high MW and sticky claystones. Reached TD in one run.

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## Final Well Report for exploration well Laushornet 35/4-3

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### Run 0600 - 8 1/2" clean out run

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### 8.5" Hole Section Run 0600 Run Data

#### RUN TIME DATA

Run Number : 0600	Run Start : 06-May-22 08:30	BRT Hrs : 30.00 hr	Circ. Hrs : 14.25 hr
Rig BHA No. : 600	Run End : 07-May-22 14:30	Hole Size : 8.500 in	Oper. Hrs : 27.79 hr

#### DRILLING DATA

Start Depth : 4707.0 m	Footage : 0.0 m	Avg WOB : 0.0 mton	Avg ROP : 0.0 m/hr
End Depth : 4707.0 m	Avg Flow : 1100 lpm	Avg Torque : 0.0 kN-m	Avg SPP : 160 bara
Drilling Hrs : 0.00 hr	Avg RPM : 30 rpm	Avg Bend :	

#### MUD DATA

Mud Type : Oil-Based	Viscosity : 0 spl	PV : 44.0 mPsec	YP : 3.4 pa
Weight : 1.98 g/cc	Max Temp : 139 degC	Solids % : 36.00	Sand % : 0.25
Chlorides : 5017 ppm	Fluid Loss : 0.0 mptm	Oil % : 56.00	Oil/Water : 89:11
pH :			

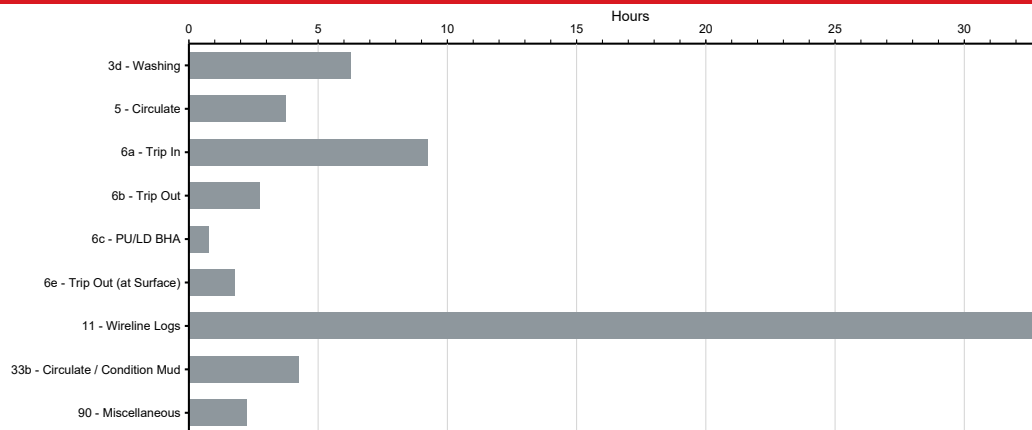
#### MWD PERFORMANCE

Tool OD : 6.75 in	Max Op Press : 2252 bara	Final Az : 0.00 deg	Tool numbers :
Min Inc : 0.00 deg	Min Inc Depth : 0.0 m	MWD Real-time : 92 %	90680270
Max Inc : 0.00 deg	Max Inc Depth : 0.0 m	MWD Recorded : 100 %	90684506
Type : GM + ALD + CTN + GeoTap + PWD-FTWD + DM + HCIM + TM + Pos Pulser + DDSr-HCIM			90683266
			90683176

#### BIT DATA

Bit Number : 6	Nozzles : 4x13,1x12
Bit Size : 8.50 in	Bit TFA : 0.6289 in2
Manufacturer : HALLIBURTON	Blade Count : 6
Model : GTI55WMKHO	Dull Grade In : 1-1-WT-A-X-I-NO-TD
Serial Number : 13571902	Dull Grade Out : 1-1-WT-A-X-I-NO-TD

#### RUN BREAKDOWN





### BHA Objective

Wiper trip to TD and increase mud weight from 1.99 to 2.01 sg (MW50).

### BHA Run Summary

#### RUNNING IN HOLE

Picked up The BHA in Main. Used bit and near-bit sleeve stab from previous drilling assembly plus MWD combination of primary and backup equipment to be able to monitor ECD.

#### WASHING AND CIRCULATING

Washed down from the shoe to TD with 300lpm and 20 rpm without any obstructions. Tagged bottom as expected at 4707m. Circulated and weighed up mud to 2.01 sg (MW50) before pulling out.

#### POOH

Pump OOH to 3300m. Flow checks were performed before and during POOH.

At surface, BHA components including the bit were found in good shape. The Geo-Span downlink skid had a 22/32 nozzle which worked well with reduced flowrates, giving a VPA mean of +/- 700.

The BHA was racked straight as a whole in the derrick (Solar tools automatically shut down at lower temperatures) for later reading and laying out offline in the Aux.

### BHA Recommendations

BHA performed very well – no special recommendations.

### MWD Run Summary

It has been decided to M-U and RIH clean out BHA to increase mud weight to 2.01 sg. Ran BHA with LWD sensors for ESD / ECD monitoring and evaluating wellbore stability. Due to slow standpipe pressure stabilization on staging up pumps it was not possible to decoded ESD readings on start-up list requiring to send "survey pumps-on" downlink command to retrieve it.



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8.5" Hole Section Run 0600  
BHA Detail

BOTTOM HOLE ASSEMBLY									
Item	Description	Serial	OD (in)	ID (in)	Gauge (in)	Weight (kgpm)	Top Conn	Length (m)	Cum Length (m)
1	GTi55WMKHO	13571902	6.50	2.50	8.50	281.9	P 4-1/2" REG	0.30	0.30
2	Bit Sleeve 8 1/32" UG	12967487	6.50	2.50	8.45	130.5	B NC 50	0.31	0.61
3	6 3/4" GM Collar	12359028	6.75	3.13		153.9	B NC 50	2.79	3.40
4	6 3/4" Pin-pin sub		6.75	1.92		166.8	P NC 50	1.00	4.40
5	6 3/4" ALD Collar 175C 30KSI	11647879	6.75	1.92	8.50	155.2	P NC 50	3.95	8.35
6	6 3/4" CTN Collar 175C 30KSI	11988589	6.75	1.91		152.2	B NC 50	3.57	11.92
7	6 3/4" HCIM	13152561	6.75	1.92		151.3	B NC 50	2.07	13.99
8	6 3/4" GEO-TAP	11373926	6.75	1.91	8.25	157.9	B NC 50	8.40	22.39
9	8 3/8" In-Line Stabilizer	SBD104719	6.75	1.92	8.37	174.1	B NC 50	1.23	23.62
10	6 3/4" MWD HOC (Pulser, TM, Directional)	12059943	6.90	3.25		148.4	B NC 50	4.77	28.39
11	6 3/4" NM Screen Sub	675-1398	6.75	3.00		148.4	B NC 50	2.00	30.39
12	6 3/4" Float Sub w/ HT NP Valve	SBD108276	6.75	2.81		149.8	B NC 50	0.84	31.23
13	6 3/4" Float Sub w/ HT NP Valve	12340327	6.75	2.81		149.8	B NC 50	0.69	31.92
14	4 x 6 1/2" Spiral Drill Collar		6.50	2.81		148.2	B NC 50	37.37	69.29
15	10 x HWDP		5.00	3.00		76.8	B 5" NC50 Vam Eis	92.07	161.36
16	6 3/4" Jar	MHJE 66 2454	6.73	2.56		133.0	B NC 50	9.13	170.49
17	3 x HWDP		5.00	3.00		76.8	B 5" NC50 Vam Eis	27.31	197.80
18	6 3/4" Accelerator	MHE 66 2053	6.73	2.56		133.0	B NC 50	12.13	209.93
19	5 x HWDP		5.00	3.00		76.8	B 5" NC50 Vam Eis	45.66	255.59
20	Drill Pipe 5 in, 19.5 ppf, S, NC-50 VAM EIS, P		5.00	4.28		33.6	B 5" NC50 Vam Eis	4600.90	4856.49



**8.5" Hole Section Run 0600  
MWD Schematic**

**MWD SENSORS**

**Pos Pulser**

Pulser	Bootless Mark 9 Long Stroke
Impeller	35 deg
Stator	42 deg
Orifice	1.750 in
Standoff	1.000 in
Oil type	Jet Oil II
Pulser	11050332

**HCIM**

SW Version	98.43
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**DM**

Sensor Distance	24.97m
SN Insert	13343860
SW Version	8.60

**GeoTap**

Sensor Distance	15.93m
Tool SN	12183394
Probe SN	12106545

**CTN**

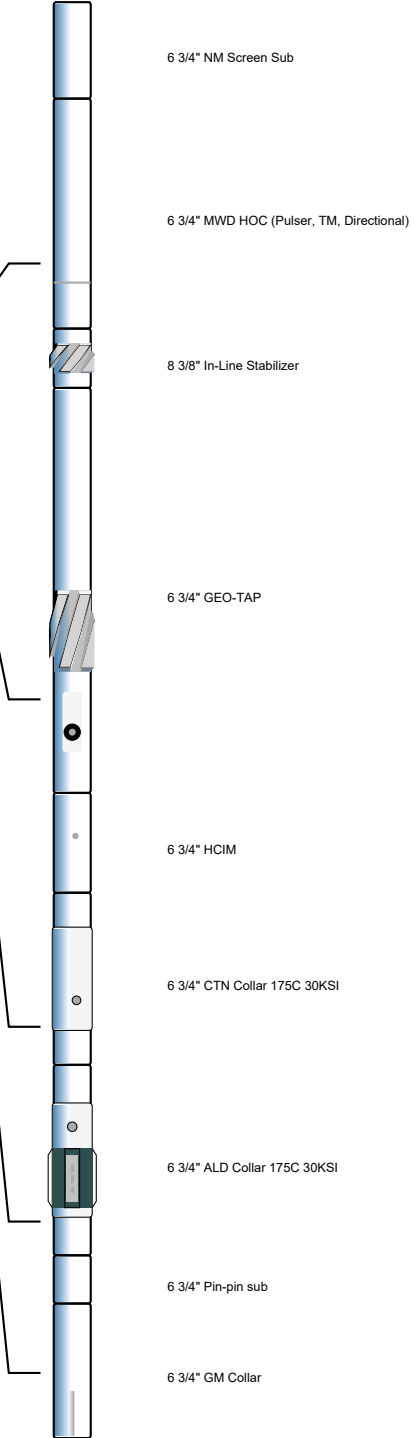
Sensor Distance	9.14m
Sensor ID	1191
SW Version	9.54
Source SN	0
Source Type	Americium/Beryllium
Tool Type	6-3/4 XHP AmBe Inconel (high-nickel)

**ALD**

Sensor Distance	5.10m
Sensor ID	32296
SW Version	3.29
Stab Size	8.13 in
Source SN	0
Tool Type	8 1/4" Sleeve ALD HP

**GM**

Sensor Distance	1.96m
SN Insert	910923





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End of Well Report 35/4-3 PL685 Laushornet

35/4-3

Run 0500

Deepsea Nordkapp

8 1/2" GTI55WMKHO  
13571902



Run date: 24-Apr-22

Parameters	
Depth in	4146 mMD
Depth Out	4707 mMD
Interval	561 m
ROP	7.2 m/hr
WOB	3 - 15 MT
RPM	40 - 140
Flow (lpm)	1090 - 1800
Inc in/out	0.22 / 3.38



Dull Grade
HDBS
1
1
NO
A
X
I
BT
TD

**Dull Comments;** Cutting structure show a few minor BT in the nose area and BU positions. Rest of the cutting structure show no wear or damages

**Formation;** Viking (Heather), Brent (Rannoch) & Dunlin (Drake & Cook)

**Lithology;** Claystone, Sandstone & Limestone with stringers

**Drilling comments;** RIH and tagged TOC at 4093mMD. HPHT plug-set, hence spent more than 8 hours drilling out. Cleaned out and performed FIT (2.20sg). Tight well, hence no reports available. Drilled to TD with varying ROP, some issues with roller reamers hanging on shoe and packing off during drilling due to high MW and sticky claystones. Reached TD in one run.

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	<b>Final Well Report for exploration well Laushornet 35/4-3</b>	Version: Draft Page: 90 of 141
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**Combined 9 7/8" spear and SRT assembly**

Operator:	Aker BP									 Baker Oil Tools <b>BHA SHEET</b>
Well:	Laushornet									
Field/Rig:	Deepsaa Nordkapp									
Job no:	21-9790									
Date:	02.05.2022									
Run no:	2									
Comments:	Pull 9 7/8" seal assy and casing Max Pull 150Ton on Hyd spear.									
	Description	Conn	M/U KnM	OD Inch	ID Inch	FN LENGTH	FN OD	Serial Number	Length meter	
	5 dp	NC 50 Box NC 50 Pin								
	X-Over	NC 50 Box 5 1/2" FH Pin								
	5 1/2" Pupjoint	5 1/2" FH Box NC 50 Pin								
	Velco SRT Landing point 439.37m	NC 50 Box NC 50 Pin								
	5 1/2" Pupjoint	NC 50 Box 5 1/2" FH Pin								
	X-Over	5 1/2" FH Box NC 50 Box								
	1 stand 5" DP	NC 50 Box NC 50 Pin								
	Bit depth when setting spear approx 435.3 m									
	5" Pupjoint	NC50 Box NC 50 Pin			6 5/8"	3"	0,17	6 5/8"		
	6 1/2" Lub Bumper sub	NC50 Box NC 50 Pin			6 1/2"	3 1/8"	0,37	6 1/4"		
	6 1/4" Hyd spear for 9 7/8" casing Catch: 8,25-0,105" Max pull 150 ton	NC50 Box NC 50 Pin			8 1/4"	NA	0,48	6 3/8"		
	9 5/8" Spear packoff	NC50 Box NC 50 Pin			8 1/4"	2"	0,25	6 1/2"		
	6 5/8" Bullnose	NC50 Box			6 5/8"	2 3/4"	0,33	6 5/8"		
	Prepared by:		Tenga		Isdal				TOTAL LENGTH:	0,00
	Prepared by sign								Baker WBI representative	
Verified by sign								Customer representative		



Final Well Report for exploration well  
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**13 5/8" cutter assembly**

Operator:	Aker BP									 Baker Oil Tools <b>BHA SHEET</b>
Well:	Laushornet									
Field/Rig:	Deepeaa Nordkapp									
Job no:	21-9790									
Date:	13.05.2022									
Run no:										
Comments:	Cut 13 5/8" casing @ 1605m. and 1050m. & Pull wear Bushing Stab landingpoint: 429,7 m									
		Description	Conn	M/U KnM	OD Inch	ID Inch	FN LENGTH	FN OD	Serial Number	Length meter
		5" DP to surface								
		5" Pupjoint	NC50 Box NC50 Pin		6 5/8"	2 3/4"	0,31	6 5/8"		
		X-over	NC50 Box 6 5/8" reg Pin		8 1/4"	2 7/8"	0,68	8 1/4"		
		14 1/2" Stabilizer Landing point: 429,7m	6 5/8" reg Box 6 5/8" reg Pin		14 1/2"	3"	0,61	9 1/2"		
		X-over	6 5/8" reg Box NC50 Pin		8"	2 7/8"	0,66	6 1/2"		
		5" Pupjoint	NC50 Box NC50 Pin		6 5/8"	3 1/4"	0,30	6 5/8"		
		First str of DP spacer on the 5" HWDP (as sp in NC 50)			Casing collars: 1041,5m-1056,7m					
		5" DP spacer cut @ 1605 m 1147,23 m. = Cut at 1505,23 m	Casing collars: 1611,5m-1593,4m				spacer needed from top of for cutting compensated @ 1050 m with top joint under casing			
		5" Pupjoint Basket: CBX 144	NC50 Box <i>not BB</i> NC50 Pin		6 5/8"	2 13/16"	0,42	6 5/8"		
		6 3/4" Float sub non ported	NC50 Box NC50 Pin		6 1/2"	2 1/4"	0,48	6 1/2"		
		6 1/2" Circ sub drop 2" ball, shear +/- 120bar	NC50 Box NC50 Pin		6 1/2"	1 7/8"	0,63	6 1/2"		
		6 1/2" Motor ultra X-treme 1000-2500rpm / 90-220 rpm 0,00rev/L Max Diff pressure 75bar	NC50 Box 4 1/2" Reg Box		7 7/8"	N/A	0,51	6 3/4"		
		X-Over	4 1/2" Reg Pin NC50 Pin		6 1/2"	2 1/2"	slick	6 1/2"		
		5" Pup Joint	NC50 Box NC50 Pin		6 1/2"	3 1/4"	0,31	6 1/2"		
		X-over	NC50 van els box 6 5/8" REG p		8"	2 7/8"	0,59	6 5/8"		
		String Magnet	6 5/8" REG b 6 5/8" REG p		9 1/4"	3"	0,53	7 3/4"		
		12 1/4" Stabilizer	6 5/8" REG b 6 5/8" REG p		12 1/4"	2 13/16"	0,62	8"		
		11 3/4" Hercules Cutter 24/32 nozzle 3 1/2" knives pinpin sub	6 5/8" REG b 6 5/8" REG p 6 5/8" REG p		11 3/4"	na	0,37	10,00		
		12 1/4" Taper Mill	6 5/8" REG b		12 1/4"	3"	0,51	8"		
		P/U L/D							BTM to knives	-4,20
		Prepared by:	Tenga		Skontorp		TOTAL LENGTH:			-4,20
		Prepared by sign							Baker WBI representative	
		Verified by sign							Customer representative	






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**Combined 13 5/8" spear and SRT assembly**

Operator:	Aker BP									 Baker Oil Tools <b>BHA SHEET</b>
Well:	Laushornet									
Field/Rig:	Deepsaa Nordkapp									
Job no:	21-9790									
Date:	13.05.2022									
Run no:	4									
Comments:	BHA# 4 Pull 13 5/8" seal assy and casing									
	Landing point 429,37m									
Description	Conn	M/U	OD	ID	FN	FN	Serial	Length		
		KnM	Inch	Inch	LENGTH	OD	Number	meter		
5 1/2" Landing string	NC 50 Box NC 50 Pin									
X-Over	NC 50 Box 5 1/2" FH Pin									
5 1/2" Pupjoint	5 1/2" FH Box NC 50 Pin									
Velco SRT Landing point 429,37m	NC 50 Box NC 50 Pin									
5 1/2" Pupjoint	NC 50 Box 5 1/2" FH Pin									
X-Over	5 1/2" FH Box NC 50 Box									
5" DP spaceout	NC 50 Box NC 50 Pin									
Bit depth when setting spear approx 435,5 m										
5" Pupjoint	NC50 Box NC 50 Pin		6 1/2"	3 1/4"	0,21	6 5/8"				
6 1/2" Lub Bumper sub	NC50 Box NC 50 Pin		6 1/2"	3 1/8"	0,36	6 1/2"				
Hyd spear for 13 5/8" csg Catch: 11,500-12,500" Max pull 150 ton	NC50 Box NC 50 Pin		8"	NA	0,44	6 3/8"				
X-over	NC50 box 6 5/8" REG pin		8 1/4"	2 13/16"	0,48	6 5/8"				
13 3/8" Spear packoff	6 5/8" REG box 6 5/8" REG pin		12 1/8"	2 3/4"	0,24	7 3/4"				
7 3/4" Bullnose	6 5/8" REG Box		7 3/4"	3 1/2"	0,36	7 3/4"				
Prepared by:	Tenge		Skontorp		TOTAL LENGTH:			0,00		
Prepared by sign							Baker WBI representative			
Verified by sign							Customer representative			





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## 6.2 Casing tally lists

### 36" x 30" conductor pipe

Date: 07.04.2022		36" x 30" Conductor Tally 35/4-3 Laushornet										Prepared by: ODE Checked by: DSV		AS RUN	
Size OD inch	Weight ppf	Grade	Nom Pipe ID inch	Avg. Cap lit/m	Onshore tally #	Type	Serial number	Eff length [m]	Cum. Length [m]	Full length [m]	MU Loss	HKLD in Mud [mt]	Comments	Depth Btm of Jnt	Depth Top of Jnt
36 (2")	726.24	X-65	32	518.87	204	Shoe joint	5429247-1	12.185	12.185	12.442	0.257	85.6	ST-2 Pin up	505.125	492.940
30 (1.5")	456.57	X-66	27	369.39	101	30"	5988278-1	12.427	24.612	12.684	0.257	100.3	ST-2 Pin/box	492.940	480.513
30 (1")	310.00	X-52	28	397.26	103	30"	5359878-6	12.453	37.065	12.710	0.257	105.1	ST-2 Pin/box	480.513	468.060
					201	30" (30"x1.5" to 30"x1") XO	5429280-2	12.610	49.675	13.060	0.450	109.9	AL-T-2 Pin up x ST-2 Box down Full joint is 1.5" WT. XO from 1.5" to 1" WT starts 0.257 m from bottom	468.060	455.450
					N/A	36" (36"x2" to 30"x1.5") XO		13.190	62.865	13.190	0.000	114.862	RL-4HC Box up x ALT-2 Box down XO from 30" to 36" starts 0.85 m from bottom	455.450	442.260
						Extension joint (36"x2")		11.850	74.715			157.440	RL-4HC pin down	442.260	430.410
						36" WHH		0.910	75.625			158.249		430.410	429.500
						RT-Handling pup		5.195	80.820					429.500	424.305
						Landing string 5 1/2" HWDP LLS		424.305	505.125					424.305	0.000
						Check sum		505.125							
						Depth		505.125							
															0
															Stick up above drillfloor

17 1/2" TD =	509.050
36" TD / Rat Hole =	506.850
Shoe setting depth, m MID RT =	505.125
Water depth, m =	398.550
RT - Seabed, m =	431.200
RT - MSL, m =	32.650

WH stickup above sea floor = 1.700  
IMW SG = 1.400  
Buoyancy Factor = 0.823  
Block weight = 91.000

Offshore #	Onshore#	Back up joints	Location	Eff length [m]
		X	On boat	
		X	On boat	
		Fixed shoe	On boat	
		Intermediate joint	On boat	

428.84



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**20" surface casing**

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WELL: 35/4-3 Laushornet

20" Casing Tally

AS-RUN

<b>TD 26" HOLE</b>	<b>1 163.0</b>
SHOE SETTING DEPTH	1 156.21
Landing Collar	1 137.17
Total shoe track length	19.04
Rathole	6.79
<b>TOP 36" WHH</b>	<b>429.500</b>
Mud Weight SG	1.40
Buoyancy Factor	0.823
Block weight	92.0

Running order	Rig joint #	Effective Length	Cumulative Length	COMMENTS	Depth to Btm of Joint
1	Shoe Prim (1603)	0.870	0.87	Float shoe joint (Full Length) (Centralized) (Bay 2)	1156.21
		12.056	12.926		1155.34
		6.111	19.04		1143.28
2	LC Prim (1602)	0.461	19.50	Landing collar joint (Centralized) (Bay 5)	1137.17
		6.280	25.78		1136.71
3	1501	12.091	37.87	Centralizer (Marked with two white bands on Boxend) - (Bay 1)	1130.43
4	1502	12.091	49.96	Centralizer (Marked with two white bands on Boxend) - (Bay 1)	1118.34
5	1503	12.100	62.06	Centralizer (Marked with two white bands on Boxend) - (Bay 1)	1106.25
6	1521	12.031	74.09	Slick (Bay 4 port to starboard)	1094.15
7	1515	12.038	86.13	Slick (Bay 4 port to starboard)	1082.12
8	1556	11.946	98.08	Centralizer (Bay 1 port to starboard)	1070.08
9	1516	12.033	110.11	Slick (Bay 4 port to starboard)	1058.13
10	1512	12.033	122.14	Slick (Bay 4 port to starboard)	1046.10
11	1551	12.031	134.17	Centralizer (Bay 1 port to starboard)	1034.07
12	1514	12.034	146.21	Slick (Bay 4 port to starboard)	1022.04
13	1522	12.032	158.24	Slick (Bay 4 port to starboard)	1010.00
14	1545	12.035	170.27	Centralizer (Bay 1 port to starboard)	997.97
15	1523	12.031	182.30	Slick (Bay 4 port to starboard)	985.93
16	1524	12.031	194.34	Slick (Bay 4 port to starboard)	973.90
17	1546	12.032	206.37	Centralizer (Bay 1 port to starboard)	961.87
18	1517	12.034	218.40	Slick (Bay 4 port to starboard)	949.84
19	1518	12.582	230.98	Slick (Bay 4 port to starboard)	937.81
20	1547	12.035	243.02	Centralizer (Bay 1 port to starboard)	925.22
21	1519	12.034	255.05	Slick (Bay 4 port to starboard)	913.19
22	1520	12.034	267.09	Slick (Bay 4 port to starboard)	901.16
23	1550	12.035	279.12	Centralizer (Bay 2 port to starboard)	889.12
24	1528	12.036	291.16	Slick (Bay 4 port to starboard)	877.09
25	1529	12.033	303.19	Slick (Bay 4 port to starboard)	865.05
26	1544	12.032	315.22	Centralizer (Bay 2 port to starboard)	853.02
27	1530	12.034	327.26	Slick (Bay 4 port to starboard)	840.99
28	1531	12.034	339.29	Slick (Bay 4 port to starboard)	828.95
29	1560	12.031	351.32	Centralizer (Bay 2 port to starboard)	816.92
30	1525	12.032	363.35	Slick (Bay 4 port to starboard)	804.89
31	1526	12.035	375.39	Slick (Bay 4 port to starboard)	792.85
32	1561	12.034	387.42	Centralizer (Bay 2 port to starboard)	780.82
33	1513	12.031	399.45	Slick (Bay 4 port to starboard)	768.79
34	1527	12.034	411.49	Slick (Bay 4 port to starboard)	756.75
35	1558	12.580	424.07	Centralizer (Bay 2 port to starboard)	744.72
36	1538	12.034	436.10	Slick (Bay 4 port to starboard)	732.14
37	1539	12.035	448.14	Slick (Bay 4 port to starboard)	720.11
38	1549	12.032	460.17	Centralizer (Bay 2 port to starboard)	708.07
39	1536	12.031	472.20	Slick (Bay 4 port to starboard)	696.04
40	1537	12.035	484.23	Slick (Bay 4 port to starboard)	684.01
41	1559	12.030	496.26	Centralizer (Bay 2 port to starboard)	671.97
42	1534	12.025	508.29	Slick (Bay 4 port to starboard)	659.94
43	1535	12.007	520.30	Slick (Bay 4 port to starboard)	647.92
44	1557	12.031	532.33	Centralizer (Bay 2 port to starboard)	635.91
45	1532	12.583	544.91	Slick (Bay 4 port to starboard)	623.88
46	1533	12.032	556.94	Slick (Bay 4 port to starboard)	611.30
47	1553	12.588	569.53	Centralizer (Bay 2 port to starboard)	599.27
48	1542	12.032	581.56	Slick (Bay 4 port to starboard)	586.68
49	1543	11.958	593.52	Slick (Bay 4 port to starboard)	574.65
50	1554	12.034	605.55	Centralizer (Bay 2 port to starboard)	562.69
51	1540	12.037	617.59	Slick (Bay 4 port to starboard)	550.65
52	1541	12.033	629.62	Slick (Bay 4 port to starboard)	538.62
53	1555	12.034	641.66	Centralizer (Bay 2 port to starboard)	526.58
54	1508	12.029	653.69	Slick (Bay 3 port to starboard)	514.55
55	1509	12.034	665.72	Slick (Bay 3 port to starboard)	502.52
56	1552	12.033	677.75	Centralizer (Bay 2 port to starboard)	490.49
57	1510	12.002	689.76	Slick (Bay 3 port to starboard)	478.45
58	1511	12.025	701.78	Slick (Bay 3 port to starboard)	466.43
59	XO Prim (1605)	12.696	714.48	20" Ulti-max GT RL-4S XO joint. (Bay 5)	454.43
HP WHH	Below top 36" WHH	12.230	726.71	18 3/4" HPWHH	441.73
	Top 36" LPWHH	0.000	726.71		429.50
	HPWH above 36" LPWHH	0.860	727.57		428.64
<b>18 3/4" Wellhead datum</b>					428.64
	Running tool	3.890	731.46	5 1/2" FH box up	424.75
	LS	424.750	1156.21		0.00
			Check sum	Stick-up above RKB (Final TBC Odffjell)	0.000



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**13 5/8" intermediate casing**

Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String WT In Mud incl TDX (MT)	COMMENTS	Depth to Btm of Joint
1	Shoe Prim (806)	Shoe		0.646	0.65	53	95.1		3051.282
	Intermediate (801)	Intermediate		10.834	11.48	113	97.6		3050.636
2	LC Prim (808)	Pup joint below LC P-110 VAM 21 KW CWD-S		4.060	25.30	163	98.8		3057.929
		Pup joint above LC P-110 VAM 21 KW CWD-S		0.774	29.08				3052.973
				5.931	34.91				3052.203
3	722	VAM 21 KW CWD-S	CS	12.724	47.63	222	100.1	Centralizer 1x	3046.374
4	723	VAM 21 KW CWD-S		12.776	60.41	281	101.5	Centralizer 1x	3033.650
5	720	VAM 21 KW CWD-S		12.777	73.19	341	102.9	Centralizer 1x	3020.874
6	716	VAM 21 KW CWD-S		12.777	85.96	400	104.3	Centralizer 1x	3008.097
7	543	VAM 21 KW CWD-S	C8	12.511	98.47	459	105.6		2995.320
8	706	VAM 21 KW CWD-S		12.733	111.21	518	107.0	Centralizer 1x	2982.809
9	562	VAM 21 KW CWD-S		12.654	123.86	577	108.4		2970.076
10	707	VAM 21 KW CWD-S	C7	12.773	136.63	636	109.8	Centralizer 1x	2957.422
11	544	VAM 21 KW CWD-S		12.629	149.26	695	111.1		2944.649
12	711	VAM 21 KW CWD-S		12.777	162.04	755	112.5	Centralizer 1x	2932.020
13	551	VAM 21 KW CWD-S	C6	11.998	174.04	810	113.8		2919.243
14	717	VAM 21 KW CWD-S		12.775	186.81	870	115.2	Centralizer 1x	2907.245
15	653	VAM 21 KW CWD-S		12.768	199.58	929	116.5		2894.470
16	710	VAM 21 KW CWD-S	C5	12.771	212.35	989	117.9	Centralizer 1x	2881.702
17	539	VAM 21 KW CWD-S		12.220	224.57	1046	119.2		2868.931
18	704	VAM 21 KW CWD-S		11.963	236.53	1101	120.5	Centralizer 1x	2856.711
19	530	VAM 21 KW CWD-S	C4	12.473	249.01	1160	121.9		2844.748
20	705	VAM 21 KW CWD-S		12.778	261.79	1219	123.3	Centralizer 1x	2832.275
21	528	VAM 21 KW CWD-S		12.096	273.88	1275	124.6		2819.487
22	709	VAM 21 KW CWD-S	C3	12.778	286.66	1335	126.0	Centralizer 1x	2807.401
23	504	VAM 21 KW CWD-S		12.777	299.44	1394	127.3		2794.623
24	719	VAM 21 KW CWD-S		12.775	312.21	1454	128.7	Centralizer 1x	2781.846

**13-5/8" Casing Tally  
Laushornet**

By: OJE  
Well: Laushornet  
Saved: 16.04.2022

Size OD	Weight	Grade	Conn	Torq Min	Torq Opt	Torq Max
13 5/8	88.20	P-110 (SHOE TRACK)	VAM 21 KW CWD-S	40.250	44.750	49.250
13 5/8	88.20	P-110 (STANDS)	VAM 21 KW CWD-S	40.250	44.750	49.250

**FINAL**

ID 16 1/2" HOLE	3 088.00
SHOE SETTING DEPTH	3 081.28
Landing Collar	3 052.21
Total shoe track length	29.08
Radius	6.72
WH DATUM	428.64
HOP = WH DATUM + 1.39 m	430.03
Mud Weight SG	1.40
Buoyancy Factor	0.82
Block weight	95.00
Mud Pump Eff (5'-1/2" 96.5%) /stroke	16.91



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Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String WT in Mud incl TDX (MT)	COMMENTS	Depth to Btm of Joint
25	509	VAM 21 KW CWD-S	C2	12.614	324.83	1513	130.1		2769.071
26	708	VAM 21 KW CWD-S		12.776	337.60	1572	131.5	Centralizer 1x	2756.457
27	503	VAM 21 KW CWD-S		12.772	350.37	1632	132.8		2743.691
28	718	VAM 21 KW CWD-S	C1	12.727	363.10	1691	134.2	Centralizer 1x	2730.909
29	508	VAM 21 KW CWD-S		12.772	375.87	1750	135.6		2718.182
30	550	VAM 21 KW CWD-S		12.225	388.10	1807	136.9		2705.410
31	558	VAM 21 KW CWD-S	60	12.202	400.30	1864	138.2		2693.185
32	559	VAM 21 KW CWD-S		12.019	412.32	1920	139.5		2680.983
33	547	VAM 21 KW CWD-S		12.233	424.55	1977	140.8		2668.964
34	548	VAM 21 KW CWD-S	59	12.295	436.85	2034	142.2		2656.731
35	549	VAM 21 KW CWD-S		12.255	449.10	2091	143.5		2644.436
36	555	VAM 21 KW CWD-S		12.531	461.63	2150	144.8		2632.181
37	556	VAM 21 KW CWD-S	58	12.451	474.08	2208	146.2		2619.650
38	557	VAM 21 KW CWD-S		12.448	486.53	2266	147.5		2607.199
39	545	VAM 21 KW CWD-S		12.175	498.71	2322	148.8		2594.751
40	546	VAM 21 KW CWD-S	57	12.243	510.95	2379	150.2		2582.576
41	554	VAM 21 KW CWD-S		12.438	523.39	2437	151.5		2570.333
42	677	VAM 21 KW CWD-S		12.775	536.16	2497	152.9		2557.895
43	703	VAM 21 KW CWD-S	56	12.518	548.68	2555	154.2		2545.120
44	676	VAM 21 KW CWD-S		12.777	561.46	2614	155.6		2532.602
45	668	VAM 21 KW CWD-S		12.604	574.06	2673	157.0		2519.825
46	667	VAM 21 KW CWD-S	55	12.772	586.83	2733	158.4		2507.221
47	678	VAM 21 KW CWD-S		12.678	599.51	2792	159.7		2494.449
48	655	VAM 21 KW CWD-S		12.776	612.29	2851	161.1		2481.771
49	666	VAM 21 KW CWD-S	54	12.774	625.06	2911	162.5		2468.995
50	665	VAM 21 KW CWD-S		12.772	637.83	2970	163.9		2456.221
51	600	VAM 21 KW CWD-S		12.779	650.61	3030	165.2		2443.449
52	599	VAM 21 KW CWD-S	53	12.669	663.28	3089	166.6		2430.670
53	654	VAM 21 KW CWD-S		12.775	676.06	3148	168.0		2418.001
54	597	VAM 21 KW CWD-S		11.955	688.01	3204	169.3		2405.226
55	657	VAM 21 KW CWD-S	52	12.774	700.79	3263	170.7		2393.271
56	656	VAM 21 KW CWD-S		12.777	713.56	3323	172.0		2380.497
57	602	VAM 21 KW CWD-S		12.774	726.34	3382	173.4		2367.720
58	601	VAM 21 KW CWD-S	51	12.777	739.11	3442	174.8		2354.946
59	598	VAM 21 KW CWD-S		12.681	751.79	3501	176.2		2342.169
60	542	VAM 21 KW CWD-S		12.533	764.33	3559	177.5		2329.488
61	541	VAM 21 KW CWD-S	50	12.157	776.48	3616	178.8		2316.955
62	540	VAM 21 KW CWD-S		12.226	788.71	3673	180.2		2304.798
63	501	VAM 21 KW CWD-S		12.772	801.48	3732	181.5		2292.572
64	502	VAM 21 KW CWD-S	49	12.775	814.26	3792	182.9		2279.800
65	521	VAM 21 KW CWD-S		12.772	827.03	3851	184.3		2267.025
66	529	VAM 21 KW CWD-S		12.426	839.46	3909	185.6		2254.253
67	512	VAM 21 KW CWD-S	48	12.561	852.02	3967	187.0		2241.827
68	513	VAM 21 KW CWD-S		12.774	864.79	4027	188.4		2229.266



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Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String WT in Mud incl TDX (MT)	COMMENTS	Depth to Btm of Joint
69	660	VAM 21 KW CWD-S		12.774	877.56	4086	189.7		2216.492
70	659	VAM 21 KW CWD-S	47	12.776	890.34	4146	191.1		2203.718
71	538	VAM 21 KW CWD-S		12.337	902.68	4203	192.5		2190.942
72	511	VAM 21 KW CWD-S		12.771	915.45	4263	193.8		2178.605
73	658	VAM 21 KW CWD-S	46	12.777	928.23	4322	195.2		2165.834
74	671	VAM 21 KW CWD-S		12.773	941.00	4382	196.6		2153.057
75	510	VAM 21 KW CWD-S		12.770	953.77	4441	198.0		2140.284
76	669	VAM 21 KW CWD-S	45	12.709	966.48	4500	199.3		2127.514
77	670	VAM 21 KW CWD-S		12.776	979.25	4560	200.7		2114.805
78	515	VAM 21 KW CWD-S		11.510	990.76	4614	202.0		2102.029
79	520	VAM 21 KW CWD-S	44	12.621	1003.38	4672	203.3		2090.519
80	507	VAM 21 KW CWD-S		12.773	1016.16	4732	204.7		2077.888
81	526	VAM 21 KW CWD-S		12.544	1028.70	4790	206.1		2065.125
82	527	VAM 21 KW CWD-S	43	12.572	1041.27	4849	207.4		2052.851
83	514	VAM 21 KW CWD-S		12.774	1054.05	4908	208.8		2040.089
84	525	VAM 21 KW CWD-S		12.709	1066.76	4967	210.2		2027.235
85	651	VAM 21 KW CWD-S	42	12.676	1079.43	5026	211.5		2014.526
86	652	VAM 21 KW CWD-S		12.773	1092.21	5086	212.9		2001.850
87	522	VAM 21 KW CWD-S	41	12.757	1104.96	5145	214.3		1989.077
88	523	VAM 21 KW CWD-S		11.781	1116.74	5200	215.6		1976.320
89	524	VAM 21 KW CWD-S		12.645	1129.39	5259	216.9		1964.539
90	661	VAM 21 KW CWD-S		12.231	1141.62	5316	218.3		1951.894
91	664	VAM 21 KW CWD-S	40	12.776	1154.40	5375	219.6		1939.663
92	663	VAM 21 KW CWD-S		12.774	1167.17	5435	221.0		1926.887
93	673	VAM 21 KW CWD-S		12.610	1179.78	5494	222.4		1914.113
94	519	VAM 21 KW CWD-S	39	12.558	1192.34	5552	223.7		1901.503
95	662	VAM 21 KW CWD-S		12.144	1204.48	5609	225.0		1888.945
96	517	VAM 21 KW CWD-S		12.560	1217.04	5667	226.4		1876.801
97	518	VAM 21 KW CWD-S	38	12.561	1229.60	5726	227.8		1864.241
98	672	VAM 21 KW CWD-S		12.774	1242.38	5785	229.1		1851.680
99	675	VAM 21 KW CWD-S		12.771	1255.15	5845	230.5		1838.906
100	674	VAM 21 KW CWD-S	37	12.745	1267.89	5904	231.9		1826.135
101	516	VAM 21 KW CWD-S		12.406	1280.30	5962	233.2		1813.390
102	589	VAM 21 KW CWD-S		12.730	1293.03	6021	234.6		1800.984
103	593	VAM 21 KW CWD-S	36	12.628	1305.66	6080	236.0		1788.254
104	594	VAM 21 KW CWD-S		12.405	1318.06	6138	237.3		1775.626
105	588	VAM 21 KW CWD-S		12.671	1330.73	6197	238.7		1763.221
106	591	VAM 21 KW CWD-S	35	12.682	1343.41	6256	240.0		1750.550
107	592	VAM 21 KW CWD-S		12.769	1356.18	6315	241.4		1737.868
108	585	VAM 21 KW CWD-S		12.774	1368.96	6375	242.8		1725.099
109	586	VAM 21 KW CWD-S	34	12.617	1381.57	6433	244.2		1712.325
110	587	VAM 21 KW CWD-S		12.618	1394.19	6492	245.5		1699.708



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Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String WT in Mud incl TDX (MT)	COMMENTS	Depth to Btm of Joint
111	684	VAM 21 KW CWD-S		12.776	1406.97	6552	246.9		1687.090
112	573	VAM 21 KW CWD-S	33	12.274	1419.24	6609	248.2		1674.314
113	584	VAM 21 KW CWD-S		12.741	1431.98	6668	249.6		1662.040
114	681	VAM 21 KW CWD-S		12.776	1444.76	6728	251.0		1649.299
115	682	VAM 21 KW CWD-S	32	12.777	1457.54	6787	252.4		1636.523
116	683	VAM 21 KW CWD-S		12.243	1469.78	6844	253.7		1623.746
117	596	VAM 21 KW CWD-S		12.128	1481.91	6901	255.0		1611.503
118	679	VAM 21 KW CWD-S	31	12.771	1494.68	6960	256.4		1599.375
119	680	VAM 21 KW CWD-S		12.774	1507.45	7019	257.8		1586.604
120	690	VAM 21 KW CWD-S		12.774	1520.23	7079	259.1		1573.830
121	574	VAM 21 KW CWD-S	30	12.530	1532.76	7137	260.5		1561.056
122	595	VAM 21 KW CWD-S		12.413	1545.17	7195	261.8		1548.526
123	687	VAM 21 KW CWD-S		12.778	1557.95	7255	263.2		1536.113
124	688	VAM 21 KW CWD-S	29	12.772	1570.72	7314	264.6		1523.335
125	689	VAM 21 KW CWD-S		12.775	1583.49	7374	266.0		1510.563
126	564	VAM 21 KW CWD-S		12.527	1596.02	7432	267.3		1497.788
127	685	VAM 21 KW CWD-S	28	12.778	1608.80	7491	268.7		1485.261
128	686	VAM 21 KW CWD-S		12.775	1621.57	7551	270.1		1472.483
129	575	VAM 21 KW CWD-S		12.455	1634.03	7609	271.4		1459.708
130	576	VAM 21 KW CWD-S		12.451	1646.48	7667	272.8		1447.253
131	563	VAM 21 KW CWD-S	27	12.044	1658.52	7723	274.1		1434.802
132	570	VAM 21 KW CWD-S		12.773	1671.30	7782	275.4		1422.758
133	572	VAM 21 KW CWD-S	26	12.772	1684.07	7842	276.8		1409.985
134	571	VAM 21 KW CWD-S		12.320	1696.39	7899	278.2		1397.213
135	581	VAM 21 KW CWD-S		12.707	1709.10	7958	279.5		1384.893
136	582	VAM 21 KW CWD-S	25	12.619	1721.72	8017	280.9		1372.186
137	583	VAM 21 KW CWD-S		12.716	1734.43	8076	282.3		1359.567
138	698	VAM 21 KW CWD-S		12.587	1747.02	8135	283.6		1346.851
139	699	VAM 21 KW CWD-S	24	12.774	1759.79	8195	285.0		1334.264
140	700	VAM 21 KW CWD-S		12.721	1772.51	8254	286.4		1321.490
141	578	VAM 21 KW CWD-S		12.629	1785.14	8313	287.7		1308.769
142	579	VAM 21 KW CWD-S	23	12.742	1797.88	8372	289.1		1296.140
143	697	VAM 21 KW CWD-S		12.776	1810.66	8431	290.5		1283.398
144	702	VAM 21 KW CWD-S		12.774	1823.43	8491	291.9		1270.622
145	590	VAM 21 KW CWD-S	22	12.671	1836.11	8550	293.2		1257.848
146	577	VAM 21 KW CWD-S		12.370	1848.48	8607	294.6		1245.177
147	568	VAM 21 KW CWD-S		12.465	1860.94	8666	295.9		1232.807
148	567	VAM 21 KW CWD-S	21	12.238	1873.18	8722	297.2		1220.342
149	701	VAM 21 KW CWD-S		12.673	1885.85	8782	298.6		1208.104
150	605	VAM 21 KW CWD-S		12.778	1898.63	8841	300.0		1195.431
151	565	VAM 21 KW CWD-S	20	11.891	1910.52	8896	301.3		1182.653
152	566	VAM 21 KW CWD-S		12.553	1923.07	8955	302.6		1170.762



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Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String WT in Mud incl TDX (MT)	COMMENTS	Depth to Btm of Joint
153	604	VAM 21 KW CWD-S		12.697	1935.77	9014	304.0		1158.209
154	603	VAM 21 KW CWD-S	19	12.774	1948.54	9073	305.4		1145.612
155	606	VAM 21 KW CWD-S		12.581	1961.13	9132	306.7		1132.738
156	621	VAM 21 KW CWD-S		12.772	1973.90	9191	308.1		1120.157
157	580	VAM 21 KW CWD-S	18	12.703	1986.60	9251	309.5		1107.385
158	609	VAM 21 KW CWD-S		12.773	1999.37	9310	310.9		1094.682
159	619	VAM 21 KW CWD-S		12.590	2011.96	9369	312.2		1081.909
160	618	VAM 21 KW CWD-S	17	12.597	2024.56	9427	313.6		1069.319
161	620	VAM 21 KW CWD-S		12.773	2037.33	9487	315.0		1056.722
162	694	VAM 21 KW CWD-S		12.457	2049.79	9545	316.3	CHECK PIPE - Derrick tally 12.757	1043.949
163	569	VAM 21 KW CWD-S	16	12.552	2062.34	9603	317.7		1031.492
164	505	VAM 21 KW CWD-S		12.771	2075.11	9663	319.0		1018.940
165	691	VAM 21 KW CWD-S		12.749	2087.86	9722	320.4		1006.169
166	692	VAM 21 KW CWD-S	15	12.773	2100.64	9782	321.8		993.420
167	693	VAM 21 KW CWD-S		12.774	2113.41	9841	323.2		980.647
168	640	VAM 21 KW CWD-S		11.278	2124.69	9894	324.4		967.873
169	607	VAM 21 KW CWD-S	14	12.778	2137.47	9953	325.8		956.595
170	608	VAM 21 KW CWD-S		12.772	2150.24	10013	327.2		943.817
171	506	VAM 21 KW CWD-S		12.774	2163.01	10072	328.5		931.045
172	638	VAM 21 KW CWD-S	13	12.774	2175.79	10132	329.9		918.271
173	639	VAM 21 KW CWD-S		12.774	2188.56	10191	331.3		905.497
174	615	VAM 21 KW CWD-S		12.407	2200.97	10249	332.6		892.723
175	623	VAM 21 KW CWD-S	12	12.776	2213.74	10308	334.0		880.316
176	622	VAM 21 KW CWD-S		12.593	2226.34	10367	335.4		867.540
177	612	VAM 21 KW CWD-S		12.773	2239.11	10426	336.8		854.947
178	613	VAM 21 KW CWD-S	11	12.774	2251.88	10486	338.1		842.174
179	614	VAM 21 KW CWD-S		12.776	2264.66	10545	339.5		829.400
180	649	VAM 21 KW CWD-S		12.777	2277.44	10605	340.9		816.624
181	695	VAM 21 KW CWD-S	10	12.477	2289.91	10663	342.2		803.847
182	696	VAM 21 KW CWD-S		12.776	2302.69	10723	343.6		791.370
183	646	VAM 21 KW CWD-S		12.774	2315.46	10782	345.0		778.594
184	647	VAM 21 KW CWD-S	9	12.774	2328.24	10841	346.4		765.820
185	648	VAM 21 KW CWD-S		12.777	2341.01	10901	347.8		753.046
186	629	VAM 21 KW CWD-S		12.775	2353.79	10960	349.1		740.269
187	610	VAM 21 KW CWD-S	8	12.776	2366.56	11020	350.5		727.494
188	611	VAM 21 KW CWD-S		12.778	2379.34	11079	351.9		714.718
189	626	VAM 21 KW CWD-S		12.744	2392.09	11139	353.3		701.940
190	627	VAM 21 KW CWD-S	7	12.777	2404.86	11198	354.6		689.196
191	628	VAM 21 KW CWD-S		12.757	2417.62	11258	356.0		676.419
192	650	VAM 21 KW CWD-S		12.772	2430.39	11317	357.4		663.662
193	641	VAM 21 KW CWD-S	6	12.337	2442.73	11375	358.7	CHECK PIPE - Derrick tally 12.737	650.890
194	642	VAM 21 KW CWD-S		12.773	2455.50	11434	360.1		638.553



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Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String WT in Mud incl TDX (MT)	COMMENTS	Depth to Btm of Joint
195	634	VAM 21 KW CWD-S		12.771	2468.27	11494	361.5		625.780
196	635	VAM 21 KW CWD-S	5	12.777	2481.05	11553	362.9		613.009
197	616	VAM 21 KW CWD-S		12.777	2493.83	11613	364.3		600.232
198	631	VAM 21 KW CWD-S		12.599	2506.43	11671	365.6		587.455
199	630	VAM 21 KW CWD-S	4	12.776	2519.20	11731	367.0		574.856
200	617	VAM 21 KW CWD-S		12.777	2531.98	11790	368.4		562.080
201	633	VAM 21 KW CWD-S		12.674	2544.65	11849	369.7		549.303
202	632	VAM 21 KW CWD-S	3	12.776	2557.43	11909	371.1		536.629
203	645	VAM 21 KW CWD-S		12.774	2570.20	11968	372.5		523.853
204	644	VAM 21 KW CWD-S		12.735	2582.94	12028	373.9		511.079
205	643	VAM 21 KW CWD-S	2	12.776	2595.71	12087	375.3		498.344
206	636	VAM 21 KW CWD-S		12.772	2608.49	12146	376.6		485.568
207	625	VAM 21 KW CWD-S		12.659	2621.15	12205	378.0		472.796
208	624	VAM 21 KW CWD-S	1	12.249	2633.39	12262	379.3		460.137
209	637	VAM 21 KW CWD-S		12.773	2646.17	12322	380.7		447.888
HANGER	13-3/4" Hanger	Below HOP		5.085	2651.25	12346	381.3		435.115
		HOP (IN HPWWH)		0.000	2651.25	12346	381.3	Hang of point	430.030
		Above HOP		1.390	2652.64	12352	381.4	Top of Hanger	428.640
		Wellhead Datum		0.000	2652.64	12352	381.4	WH Datum	428.640
L1	LS	Running tool + PUP		7.240	2659.88	12366	382.2		421.400
		Landing string (6-1/2" WLS)		421.400	3081.28	12692	412.1	Stick-up above RKB	0.00
			Check sum	0.00		Check weight	0.00		

Joint overview				
Box color coding	Description	Picked up from boat	Planned in Hole	Left on Deck
	13 5/8" slick		193	0
	13 5/8" centralized		15	5
	13 5/8" landing collar		1	1
	13 5/8" float shoe		1	1
	13 5/8" intermediate		1	0
	13 3/8 Pups		1	3
On Boat				
On Boat				
<b>SUM</b>		<b>0</b>	<b>212</b>	<b>21</b>



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9 7/8" production casing

By Well:		ODE Laushornet		AS RUN		Sign:			
Saved:		4/21/2022		TD 12 1/4" HOLE = 4146.24		AS RUN			
Size OD	Weight	Grade	Conn	Torq Min	Torq Opt	Torq Max			
inch	lbf/ft			ft/lbs	ft/lbs	ft/lbs			
9 7/8	66.40	P-110 - Shoetrack	Vam 21 KW CWD-S	31.400	34.900	38.350	4146.63		
9 7/8	66.40	P-110	Vam 21 KW CWD-S	31.400	34.900	38.350	4098.06		
9 7/8	62.80	SM125 S	VAM TOP	20.850	23.150	25.450	42.58		
9 7/8	66.40	SM125 S	VAM TOP	20.850	23.150	25.450	5.61		
5 1/2" LS	58.01	CE Disp	NOM ID	Drift	MUL	Av. measured ID			
inch	lbf/ft	inch	inch	inch	m	inch			
9 7/8	38.18	49.41	8.553	8.500	0.137	8.681	0.79		
							Block weight = 95.00		
							Mud Pump Eff (5.5" 96.5%) / stroke = 16.91		
Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String Wt in Mud Incl Blocks (MT)	COMMENTS	Depth to Btm of Joint
1	1301	9 7/8" P110 VAM 21 KW CWD-S	Shoe + Intermediate	13.222	13.222	30	96.0	Double Flot Shoe - Centralizer 2x	4140.632
	1302	9 7/8" P110 VAM 21 KW CWD-S Intermediate		12.760	25.98	59	97.0	Centralizer 2x	4127.410
	1303	9 7/8" P110 VAM 21 KW CWD-S Intermediate		12.721	38.70	87	98.0	Centralizer 2x	4114.650
2	1033	9 7/8" P110 VAM 21 KW CWD-S Landing Collar	LC + double	3.873	42.58	116	99.0	Centralizer 2x	4098.056
	1034	Pup joint above LC		0.754	43.33	145	100.0	Centralizer 1x	4097.302
	1035	P110 - 66.4# - VAM 21 KW CWD-S		12.770	64.09	174	101.0	Centralizer 1x	4076.343
3	1017	P110 - 66.4# - VAM 21 KW CWD-S		12.801	76.89	174	101.0	Centralizer 1x	4063.742
4	1019	P110 - 66.4# - VAM 21 KW CWD-S		12.794	89.68	203	102.0	Centralizer 1x	4050.348
5	1020	P110 - 66.4# - VAM 21 KW CWD-S		12.798	102.48	231	103.0	Centralizer 1x	4038.150
6	1021	P110 - 66.4# - VAM 21 KW CWD-S		12.800	115.28	260	104.0	Centralizer 1x	4025.350
7	1011	P110 - 66.4# - VAM 21 KW CWD-S		12.799	128.08	289	105.0	Centralizer 1x	4012.351
8	1015	P110 - 66.4# - VAM 21 KW CWD-S		12.801	140.88	318	106.0	Centralizer 1x	3999.750
9	1031	P110 - 66.4# - VAM 21 KW CWD-S		12.796	153.68	347	107.0	Centralizer 1x	3986.954
10	1025	P110 - 66.4# - VAM 21 KW CWD-S		12.794	166.47	376	108.0	Centralizer 1x	3974.160
11	1027	P110 - 66.4# - VAM 21 KW CWD-S		12.798	179.27	405	109.0	Centralizer 1x	3961.362
12	1029	P110 - 66.4# - VAM 21 KW CWD-S		12.794	192.06	434	110.0	Centralizer 1x	3948.568
13	1026	P110 - 66.4# - VAM 21 KW CWD-S		12.800	204.86	463	111.0	Centralizer 1x	3935.768
14	1041	P110 - 66.4# - VAM 21 KW CWD-S		12.798	217.66	492	112.0	Centralizer 1x	3922.970
15	1039	P110 - 66.4# - VAM 21 KW CWD-S		12.797	230.46	520	113.0	Centralizer 1x	3910.173
16	1028	P110 - 66.4# - VAM 21 KW CWD-S		12.763	243.22	549	114.0	Centralizer 1x	3897.410
17	1030	P110 - 66.4# - VAM 21 KW CWD-S		12.800	256.02	578	115.0	Centralizer 1x	3884.610
18	1032	P110 - 66.4# - VAM 21 KW CWD-S		12.796	268.82	607	116.0	Centralizer 1x	3871.814
19	1013	P110 - 66.4# - VAM 21 KW CWD-S		12.793	281.61	636	117.0	Centralizer 1x	3859.021
20	1014	P110 - 66.4# - VAM 21 KW CWD-S		12.357	293.97	664	118.0	Centralizer 1x	3846.664
21	1037	P110 - 66.4# - VAM 21 KW CWD-S		12.791	306.76	693	119.0	Centralizer 1x	3833.873
22	1040	P110 - 66.4# - VAM 21 KW CWD-S		12.755	319.51	722	120.0	Centralizer 1x	3821.118
23	1042	P110 - 66.4# - VAM 21 KW CWD-S		12.792	332.31	750	121.0	Centralizer 1x	3808.326
				12.766	345.07	779	122.0	Centralizer 1x	



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24	1034	P110 - 66.4# - VAM 21 KW CWD-S	C1	12,799	357.87	808	123.0	Centralizer 1x	3795.560
25	1036	P110 - 66.4# - VAM 21 KW CWD-S		12,756	370.63	837	124.0	Centralizer 1x	3782.761
26	1038	P110 - 66.4# - VAM 21 KW CWD-S		12,785	383.42	866	125.0	Centralizer 1x	3770.005
27	923	P110 - 66.4# - VAM 21 KW CWD-S	Single Pup Jnt	12,798	396.22	895	126.0	Slick	3757.210
28	1310	P110 - 66.4# - VAM 21 KW CWD-S		3,003	399.22	901	126.2	Pup	3744.412
29	969	P110 - 66.4# - VAM 21 KW CWD-S	32	12,785	412.01	930	127.2	Slick	3741.409
30	968	P110 - 66.4# - VAM 21 KW CWD-S		12,789	424.77	959	128.2	Slick	3728.624
31	943	P110 - 66.4# - VAM 21 KW CWD-S		12,798	437.57	988	129.2	Slick	3715.865
32	918	P110 - 66.4# - VAM 21 KW CWD-S	31	12,796	450.36	1017	130.2	Slick	3703.067
33	989	P110 - 66.4# - VAM 21 KW CWD-S		12,755	463.12	1046	131.2	Slick	3690.271
34	967	P110 - 66.4# - VAM 21 KW CWD-S		12,799	475.92	1075	132.2	Slick	3677.516
35	910	P110 - 66.4# - VAM 21 KW CWD-S	30	12,801	488.72	1104	133.2	Slick	3664.717
36	917	P110 - 66.4# - VAM 21 KW CWD-S		12,785	501.50	1132	134.2	Slick	3651.916
37	919	P110 - 66.4# - VAM 21 KW CWD-S		12,799	514.30	1161	135.2	Slick	3639.131
38	978	P110 - 66.4# - VAM 21 KW CWD-S	29	12,801	527.10	1190	136.2	Slick	3626.332
39	909	P110 - 66.4# - VAM 21 KW CWD-S		12,770	539.87	1219	137.2	Slick	3613.531
40	908	P110 - 66.4# - VAM 21 KW CWD-S		12,757	552.63	1248	138.2	Slick	3600.761
41	915	P110 - 66.4# - VAM 21 KW CWD-S	28	12,760	565.39	1277	139.2	Slick	3588.004
42	977	P110 - 66.4# - VAM 21 KW CWD-S		12,771	578.16	1306	140.2	Slick	3575.244
43	979	P110 - 66.4# - VAM 21 KW CWD-S		12,722	590.88	1334	141.2	Slick	3562.473



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44	904	P110 - 66.4# - VAM 21 KW CWD-S	27	12.796	603.68	1363	142.2	Slick	3549.751
45	914	P110 - 66.4# - VAM 21 KW CWD-S		12.802	616.48	1392	143.2	Slick	3536.955
46	916	P110 - 66.4# - VAM 21 KW CWD-S		12.755	629.23	1421	144.2	Slick	3524.153
47	913	P110 - 66.4# - VAM 21 KW CWD-S	26	12.695	641.93	1470	145.2	Slick	3511.398
48	955	P110 - 66.4# - VAM 21 KW CWD-S		12.793	654.72	1462	146.2	Slick	3498.705
49	963	P110 - 66.4# - VAM 21 KW CWD-S		12.741	667.46	1507	147.2	Slick	3485.910
50	976	P110 - 66.4# - VAM 21 KW CWD-S	25	12.768	680.23	1536	146.2	Slick	3473.169
51	975	P110 - 66.4# - VAM 21 KW CWD-S		12.800	693.03	1565	149.2	Slick	3460.401
52	903	P110 - 66.4# - VAM 21 KW CWD-S		12.799	705.83	1594	150.2	Slick	3447.601
53	988	P110 - 66.4# - VAM 21 KW CWD-S	24	12.752	718.58	1623	151.2	Slick	3434.802
54	995	P110 - 66.4# - VAM 21 KW CWD-S		12.768	731.35	1651	152.2	Slick	3422.050
55	974	P110 - 66.4# - VAM 21 KW CWD-S		12.799	744.15	1680	153.2	Slick	3409.282
56	964	P110 - 66.4# - VAM 21 KW CWD-S	23	12.800	756.95	1709	154.2	Slick	3396.483
57	965	P110 - 66.4# - VAM 21 KW CWD-S		12.783	769.73	1738	155.2	Slick	3383.683
58	986	P110 - 66.4# - VAM 21 KW CWD-S		12.794	782.53	1767	156.2	Slick	3370.900
59	902	P110 - 66.4# - VAM 21 KW CWD-S	22	12.797	795.32	1796	157.2	Slick	3358.106
60	920	P110 - 66.4# - VAM 21 KW CWD-S		12.792	808.12	1825	158.2	Slick	3345.309
61	901	P110 - 66.4# - VAM 21 KW CWD-S		12.754	820.87	1854	159.2	Slick	3332.517
62	993	P110 - 66.4# - VAM 21 KW CWD-S	21	12.308	833.18	1881	160.1	Slick	3319.763
63	970	P110 - 66.4# - VAM 21 KW CWD-S		12.753	845.93	1910	161.1	Slick	3307.455
64	992	P110 - 66.4# - VAM 21 KW CWD-S		12.732	858.66	1939	162.1	Slick	3294.702
65	966	P110 - 66.4# - VAM 21 KW CWD-S	20	12.771	871.43	1968	163.1	Slick	3281.970
66	960	P110 - 66.4# - VAM 21 KW CWD-S		12.799	884.23	1997	164.1	Slick	3269.199
67	991	P110 - 66.4# - VAM 21 KW CWD-S		12.798	897.03	2026	165.1	Slick	3256.400
68	1007	P110 - 66.4# - VAM 21 KW CWD-S	19	12.796	909.83	2054	166.1	Slick	3243.602
69	1006	P110 - 66.4# - VAM 21 KW CWD-S		12.747	922.57	2083	167.1	Slick	3230.806
70	959	P110 - 66.4# - VAM 21 KW CWD-S		12.755	935.33	2112	168.1	Slick	3218.059
71	973	P110 - 66.4# - VAM 21 KW CWD-S	18	12.782	948.11	2141	169.1	Slick	3205.304
72	972	P110 - 66.4# - VAM 21 KW CWD-S		12.800	960.91	2170	170.1	Slick	3192.522
73	1005	P110 - 66.4# - VAM 21 KW CWD-S		12.743	973.65	2199	171.1	Slick	3179.722
74	956	P110 - 66.4# - VAM 21 KW CWD-S	17	11.813	985.47	2225	172.0	Slick	3166.979
75	958	P110 - 66.4# - VAM 21 KW CWD-S		12.731	998.20	2254	173.0	Slick	3155.166
76	971	P110 - 66.4# - VAM 21 KW CWD-S		12.778	1010.98	2283	174.0	Slick	3142.435
77	929	P110 - 66.4# - VAM 21 KW CWD-S	16	12.773	1023.75	2312	175.0	Slick	3129.657
78	928	P110 - 66.4# - VAM 21 KW CWD-S		12.773	1036.52	2341	176.0	Slick	3116.884
79	957	P110 - 66.4# - VAM 21 KW CWD-S		12.729	1049.25	2369	177.0	Slick	3104.111
80	990	P110 - 66.4# - VAM 21 KW CWD-S	15	12.760	1062.01	2398	178.0	Slick	3091.382
81	987	P110 - 66.4# - VAM 21 KW CWD-S		12.780	1074.79	2427	179.0	Slick	3078.622
82	927	P110 - 66.4# - VAM 21 KW CWD-S		12.783	1087.57	2456	180.0	Slick	3065.842
83	926	P110 - 66.4# - VAM 21 KW CWD-S	14	12.782	1100.34	2485	181.0	Slick	3053.059
84	925	P110 - 66.4# - VAM 21 KW CWD-S		12.796	1113.13	2514	182.0	Slick	3040.297
85	985	P110 - 66.4# - VAM 21 KW CWD-S		12.788	1125.90	2542	183.0	Slick	3027.501



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86	946	P110 - 66.4# - VAM 21 KW CWD-S	13	12,767	1138.67	2571	184.0	Slick	3014.733
87	945	P110 - 66.4# - VAM 21 KW CWD-S		12,767	1151.43	2600	185.0	Slick	3001.966
88	924	P110 - 66.4# - VAM 21 KW CWD-S		12,747	1164.18	2629	186.0	Slick	2989.199
89	954	P110 - 66.4# - VAM 21 KW CWD-S	12	12,734	1176.41	2656	186.9	Slick	2976.452
90	953	P110 - 66.4# - VAM 21 KW CWD-S		12,732	1189.15	2685	187.9	Slick	2964.220
91	944	P110 - 66.4# - VAM 21 KW CWD-S		12,774	1201.92	2714	188.9	Slick	2951.486
92	1009	P110 - 66.4# - VAM 21 KW CWD-S	11	12,804	1214.72	2743	189.9	Slick	2938.712
93	1010	P110 - 66.4# - VAM 21 KW CWD-S		12,610	1227.33	2771	190.9	Slick	2925.908
94	952	P110 - 66.4# - VAM 21 KW CWD-S		12,757	1240.09	2800	191.9	Slick	2913.298
95	1004	P110 - 66.4# - VAM 21 KW CWD-S	10	12,795	1252.89	2829	192.9	Slick	2900.541
96	1003	P110 - 66.4# - VAM 21 KW CWD-S		12,800	1265.69	2858	193.9	Slick	2887.746
97	1002	P110 - 66.4# - VAM 21 KW CWD-S		12,795	1278.48	2887	194.9	Slick	2874.946
98	999	P110 - 66.4# - VAM 21 KW CWD-S	9	12,795	1291.28	2916	195.9	Slick	2862.151
99	1001	P110 - 66.4# - VAM 21 KW CWD-S		12,800	1304.08	2945	196.9	Slick	2849.356
100	1000	P110 - 66.4# - VAM 21 KW CWD-S		12,795	1316.87	2974	197.9	Slick	2836.556
101	1008	P110 - 66.4# - VAM 21 KW CWD-S	8	12,800	1329.67	3003	198.9	Slick	2823.761
102	961	P110 - 66.4# - VAM 21 KW CWD-S		12,758	1342.43	3031	199.9	Slick	2810.961
103	962	P110 - 66.4# - VAM 21 KW CWD-S		12,783	1355.22	3060	200.9	Slick	2798.203
104	949	P110 - 66.4# - VAM 21 KW CWD-S	7	12,729	1367.95	3089	201.9	Slick	2785.410
105	948	P110 - 66.4# - VAM 21 KW CWD-S		12,799	1380.75	3118	202.9	Slick	2772.681
106	947	P110 - 66.4# - VAM 21 KW CWD-S		12,795	1393.55	3147	203.9	Slick	2759.882
107	906	P110 - 66.4# - VAM 21 KW CWD-S	6	12,780	1406.31	3176	204.9	Slick	2747.087
108	905	P110 - 66.4# - VAM 21 KW CWD-S		12,797	1419.10	3205	205.9	Slick	2734.327
109	907	P110 - 66.4# - VAM 21 KW CWD-S		12,801	1431.90	3233	206.9	Slick	2721.530
110	906	P110 - 66.4# - VAM 21 KW CWD-S	5	12,798	1444.70	3262	207.9	Slick	2708.729
111	998	P110 - 66.4# - VAM 21 KW CWD-S		12,794	1457.50	3291	208.9	Slick	2695.931
112	997	P110 - 66.4# - VAM 21 KW CWD-S		12,805	1470.30	3320	209.9	Slick	2683.137
113	994	P110 - 66.4# - VAM 21 KW CWD-S	4	12,759	1483.06	3349	210.9	Slick	2670.332
114	981	P110 - 66.4# - VAM 21 KW CWD-S		12,718	1495.78	3378	211.9	Slick	2657.573
115	980	P110 - 66.4# - VAM 21 KW CWD-S		12,737	1508.51	3406	212.9	Slick	2644.855
116	934	P110 - 66.4# - VAM 21 KW CWD-S	3	12,785	1521.30	3435	213.9	Slick	2632.118
117	932	P110 - 66.4# - VAM 21 KW CWD-S		12,773	1534.07	3464	214.9	Slick	2619.333
118	933	P110 - 66.4# - VAM 21 KW CWD-S		12,780	1546.83	3493	215.9	Slick	2606.590
119	938	P110 - 66.4# - VAM 21 KW CWD-S	2	12,766	1559.60	3522	216.9	Slick	2593.800
120	951	P110 - 66.4# - VAM 21 KW CWD-S		12,718	1572.32	3550	217.9	Slick	2581.034
121	950	P110 - 66.4# - VAM 21 KW CWD-S		12,781	1585.10	3579	218.9	Slick	2568.316
122	1305	VAM TOP x VAM 21 KW CWD-S	XO	11,606	1596.70	3606	219.8	X-over	2555.535
123	1517	SM125S - 62.80# - VAM TOP		11,698	1608.40	3632	220.7	Pink Mark on Pipe	2543.929
124	1516	SM125S - 62.80# - VAM TOP		11,752	1620.15	3658	221.6	Pink Mark on Pipe	2532.231



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125	1503	SM125S - 62.80# - VAM TOP		10.531	1630.68	3682	222.4	Pink Mark on Pipe	2520.479
126	1515	SM125S - 62.80# - VAM TOP	P5	11.858	1642.54	3709	223.4	Pink Mark on Pipe	2509.946
127	1502	SM125S - 62.80# - VAM TOP		11.895	1654.44	3736	224.3	Pink Mark on Pipe	2498.090
128	1504	SM125S - 62.80# - VAM TOP		11.728	1666.17	3762	225.2	Pink Mark on Pipe	2486.195
129	1511	SM125S - 62.80# - VAM TOP	P4	11.569	1677.73	3789	226.1	Pink Mark on Pipe	2474.467
130	1501	SM125S - 62.80# - VAM TOP		11.733	1689.47	3815	227.0	Pink Mark on Pipe	2462.898
131	1506	SM125S - 62.80# - VAM TOP		11.903	1701.37	3842	228.0	Pink Mark on Pipe	2451.165
132	1507	SM125S - 62.80# - VAM TOP	P3	11.668	1713.04	3868	228.9	Pink Mark on Pipe	2439.262
133	1505	SM125S - 62.80# - VAM TOP		10.556	1725.59	3892	229.7	Pink Mark on Pipe	2427.594
134	1512	SM125S - 62.80# - VAM TOP		11.425	1738.02	3918	230.6	Pink Mark on Pipe	2417.038
135	1514	SM125S - 62.80# - VAM TOP	P2	11.383	1746.40	3944	231.5	Pink Mark on Pipe	2405.613
136	1513	SM125S - 62.80# - VAM TOP		11.787	1758.19	3970	232.4	Pink Mark on Pipe	2394.230
137	1508	SM125S - 62.80# - VAM TOP	P1	11.744	1769.93	3997	233.3	Pink Mark on Pipe	2382.443
138	1510	SM125S - 62.80# - VAM TOP		12.537	1782.47	4025	234.3	Pink Mark on Pipe	2370.699
139	1509	SM125S - 62.80# - VAM TOP		11.744	1794.21	4052	235.2	Pink Mark on Pipe	2358.162
140	1117	SM125S - 66.40# - VAM TOP		12.187	1806.40	4079	236.2	Orange Mark on Pipe	2346.418
141	1137	SM125S - 66.40# - VAM TOP	O52	12.421	1818.82	4107	237.1	Orange Mark on Pipe	2334.231
142	1153	SM125S - 66.40# - VAM TOP		12.305	1831.13	4135	238.1	Orange Mark on Pipe	2321.810
143	1224	SM125S - 66.40# - VAM TOP		12.362	1843.49	4163	239.1	Orange Mark on Pipe	2309.505
144	1220	SM125S - 66.40# - VAM TOP	O51	11.961	1855.45	4190	240.0	Orange Mark on Pipe	2297.143
145	1219	SM125S - 66.40# - VAM TOP		11.312	1866.76	4215	240.9	Orange Mark on Pipe	2285.182
146	1162	SM125S - 66.40# - VAM TOP		12.441	1879.20	4243	241.9	Orange Mark on Pipe	2273.870
147	1158	SM125S - 66.40# - VAM TOP	O50	12.378	1891.58	4271	242.8	Orange Mark on Pipe	2261.429
148	1157	SM125S - 66.40# - VAM TOP		12.310	1903.89	4299	243.8	Orange Mark on Pipe	2249.051
149	1134	SM125S - 66.40# - VAM TOP		12.418	1916.31	4327	244.8	Orange Mark on Pipe	2236.741
150	1133	SM125S - 66.40# - VAM TOP	O49	12.348	1928.66	4355	245.7	Orange Mark on Pipe	2224.323
151	1135	SM125S - 66.40# - VAM TOP		12.331	1940.99	4383	246.7	Orange Mark on Pipe	2211.975
152	1221	SM125S - 66.40# - VAM TOP		12.305	1953.29	4411	247.7	Orange Mark on Pipe	2199.644
153	1223	SM125S - 66.40# - VAM TOP	O48	12.403	1965.70	4439	248.6	Orange Mark on Pipe	2187.339
154	1222	SM125S - 66.40# - VAM TOP		12.433	1978.13	4467	249.6	Orange Mark on Pipe	2174.936
155	1161	SM125S - 66.40# - VAM TOP		12.279	1990.41	4495	250.6	Orange Mark on Pipe	2162.503
156	1160	SM125S - 66.40# - VAM TOP	O47	12.411	2002.82	4523	251.5	Orange Mark on Pipe	2150.224
157	1146	SM125S - 66.40# - VAM TOP		12.211	2015.03	4550	252.5	Orange Mark on Pipe	2137.813
158	1228	SM125S - 66.40# - VAM TOP		12.095	2027.09	4577	253.4	Orange Mark on Pipe	2125.602
159	1132	SM125S - 66.40# - VAM TOP	O46	12.189	2039.27	4605	254.4	Orange Mark on Pipe	2113.547
160	1121	SM125S - 66.40# - VAM TOP		12.371	2051.65	4633	255.3	Orange Mark on Pipe	2101.358
161	1143	SM125S - 66.40# - VAM TOP		12.372	2064.02	4661	256.3	Orange Mark on Pipe	2088.987
162	1142	SM125S - 66.40# - VAM TOP	O45	12.315	2076.33	4689	257.3	Orange Mark on Pipe	2076.615
163	1144	SM125S - 66.40# - VAM TOP		12.439	2088.77	4717	258.2	Orange Mark on Pipe	2064.300
164	1165	SM125S - 66.40# - VAM TOP		12.405	2101.18	4745	259.2	Orange Mark on Pipe	2051.861
165	1163	SM125S - 66.40# - VAM TOP	O44	12.392	2113.57	4773	260.2	Orange Mark on Pipe	2039.456
166	1155	SM125S - 66.40# - VAM TOP		12.405	2125.97	4801	261.1	Orange Mark on Pipe	2027.064
167	1152	SM125S - 66.40# - VAM TOP		12.446	2138.42	4829	262.1	Orange Mark on Pipe	2014.659
168	1220	SM125S - 66.40# - VAM TOP	O43	11.961	2150.38	4856	263.1	Orange Mark on Pipe	2002.213
169	1229	SM125S - 66.40# - VAM TOP		12.289	2162.65	4884	264.0	Orange Mark on Pipe	1990.252
170	1105	SM125S - 66.40# - VAM TOP		12.294	2174.94	4911	265.0	Orange Mark on Pipe	1977.983
171	1104	SM125S - 66.40# - VAM TOP	O42	11.751	2186.69	4938	265.9	Orange Mark on Pipe	1965.689
172	1106	SM125S - 66.40# - VAM TOP		12.439	2198.13	4966	266.9	Orange Mark on Pipe	1953.938
173	1218	SM125S - 66.40# - VAM TOP		12.294	2211.43	4994	267.8	Orange Mark on Pipe	1941.489
174	1154	SM125S - 66.40# - VAM TOP	O41	12.420	2223.85	5022	268.8	Orange Mark on Pipe	1929.205



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Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String Wt in Mud Incl Blocks (MT)	COMMENTS	Depth to Btm of Joint
166	1156	SM126S - 66.40# - VAM TOP		12.395	2236.24	5050	269.8	Orange Mark on Pipe	1916.785

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Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String Wt in Mud Incl Blocks (MT)	COMMENTS	Depth to Btm of Joint
167	1119	SM125S-66.40# - VAM TOP	O40	12.306	2248.55	5077	270.7	Orange Mark on Pipe	1904.390
168	1151	SM125S-66.40# - VAM TOP		12.545	2261.00	5106	271.7	Orange Mark on Pipe	1892.084
169	1150	SM125S-66.40# - VAM TOP		12.358	2273.45	5134	272.7	Orange Mark on Pipe	1879.559
170	1140	SM125S-66.40# - VAM TOP	O39	11.359	2284.81	5159	273.6	Orange Mark on Pipe	1867.181
171	1139	SM125S-66.40# - VAM TOP		12.280	2297.07	5187	274.5	Orange Mark on Pipe	1855.822
172	1141	SM125S-66.40# - VAM TOP		12.406	2309.48	5215	275.5	Orange Mark on Pipe	1843.562
173	1166	SM125S-66.40# - VAM TOP	O38	12.241	2321.72	5243	276.4	Orange Mark on Pipe	1831.156
174	1215	SM125S-66.40# - VAM TOP		12.221	2333.94	5270	277.4	Orange Mark on Pipe	1818.915
175	1213	SM125S-66.40# - VAM TOP		11.794	2345.72	5297	278.3	Orange Mark on Pipe	1806.694
176	1115	SM125S-66.40# - VAM TOP	O37	12.387	2358.11	5325	279.3	Orange Mark on Pipe	1794.910
177	1234	SM125S-66.40# - VAM TOP		12.364	2370.47	5353	280.3	Orange Mark on Pipe	1782.523
178	1236	SM125S-66.40# - VAM TOP		12.115	2382.59	5380	281.2	Orange Mark on Pipe	1770.159
179	1225	SM125S-66.40# - VAM TOP	O36	12.356	2394.94	5408	282.2	Orange Mark on Pipe	1758.044
180	1129	SM125S-66.40# - VAM TOP		12.025	2406.97	5435	283.1	Orange Mark on Pipe	1745.688
181	1226	SM125S-66.40# - VAM TOP		12.405	2419.37	5463	284.1	Orange Mark on Pipe	1733.663
182	1168	SM125S-66.40# - VAM TOP	O35	12.280	2431.65	5491	285.0	Orange Mark on Pipe	1721.258
183	1164	SM125S-66.40# - VAM TOP		12.111	2443.77	5518	286.0	Orange Mark on Pipe	1708.978
184	1208	SM125S-66.40# - VAM TOP		11.846	2455.61	5545	286.9	Orange Mark on Pipe	1696.867
185	1111	SM125S-66.40# - VAM TOP	O34	12.431	2468.04	5573	287.9	Orange Mark on Pipe	1685.021
186	1113	SM125S-66.40# - VAM TOP		12.385	2480.43	5601	288.8	Orange Mark on Pipe	1672.590
187	1114	SM125S-66.40# - VAM TOP		12.530	2492.96	5629	289.8	Orange Mark on Pipe	1660.205
188	1128	SM125S-66.40# - VAM TOP	O33	12.372	2505.33	5657	290.8	Orange Mark on Pipe	1647.675
189	1227	SM125S-66.40# - VAM TOP		12.406	2517.74	5685	291.8	Orange Mark on Pipe	1635.303
190	1127	SM125S-66.40# - VAM TOP		12.432	2530.17	5713	292.7	Orange Mark on Pipe	1622.897
191	1102	SM125S-66.40# - VAM TOP	O32	12.435	2542.60	5741	293.7	Orange Mark on Pipe	1610.465
192	1116	SM125S-66.40# - VAM TOP		12.253	2554.86	5769	294.7	Orange Mark on Pipe	1598.030
193	1103	SM125S-66.40# - VAM TOP		12.262	2567.12	5797	295.6	Orange Mark on Pipe	1585.777
194	1235	SM125S-66.40# - VAM TOP	O31	12.442	2579.56	5825	296.6	Orange Mark on Pipe	1573.515
195	1110	SM125S-66.40# - VAM TOP		12.389	2591.96	5853	297.6	Orange Mark on Pipe	1561.073
196	1112	SM125S-66.40# - VAM TOP		12.428	2604.39	5881	298.5	Orange Mark on Pipe	1548.674
197	1231	SM125S-66.40# - VAM TOP	O30	12.171	2616.56	5908	299.5	Orange Mark on Pipe	1536.246
198	1232	SM125S-66.40# - VAM TOP		12.082	2628.62	5936	300.4	Orange Mark on Pipe	1524.075
199	1131	SM125S-66.40# - VAM TOP		12.375	2640.99	5964	301.4	Orange Mark on Pipe	1512.013
200	1244	SM125S-66.40# - VAM TOP	O29	12.351	2653.35	5992	302.4	Orange Mark on Pipe	1499.638
201	1243	SM125S-66.40# - VAM TOP		12.331	2665.68	6019	303.3	Orange Mark on Pipe	1487.287
202	1245	SM125S-66.40# - VAM TOP		12.199	2677.88	6047	304.3	Orange Mark on Pipe	1474.956
203	1237	SM125S-66.40# - VAM TOP	O28	12.387	2690.26	6075	305.2	Orange Mark on Pipe	1462.757
204	1238	SM125S-66.40# - VAM TOP		12.374	2702.64	6103	306.2	Orange Mark on Pipe	1450.370
205	1239	SM125S-66.40# - VAM TOP		12.228	2714.86	6130	307.2	Orange Mark on Pipe	1437.996
206	1138	SM125S-66.40# - VAM TOP	O27	12.353	2727.22	6158	308.1	Orange Mark on Pipe	1425.768
207	1130	SM125S-66.40# - VAM TOP		11.999	2739.22	6185	309.1	Orange Mark on Pipe	1413.415
208	1233	SM125S-66.40# - VAM TOP		12.363	2751.58	6213	310.0	Orange Mark on Pipe	1401.416



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Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String Wt in Mud Incl Blocks (MT)	COMMENTS	Depth to Btm of Joint
209	1241	SM125S-66.40# - VAM TOP	O26	11.090	2762.67	6238	310.9	Orange Mark on Pipe	1389.053
210	1240	SM125S-66.40# - VAM TOP		11.742	2774.41	6265	311.8	Orange Mark on Pipe	1377.963
211	1242	SM125S-66.40# - VAM TOP		12.143	2786.55	6292	312.8	Orange Mark on Pipe	1366.221
212	1216	SM125S-66.40# - VAM TOP	O25	12.340	2798.89	6320	313.7	Orange Mark on Pipe	1354.078
213	1214	SM125S-66.40# - VAM TOP		12.446	2811.34	6348	314.7	Orange Mark on Pipe	1341.738
214	1206	SM125S-66.40# - VAM TOP		11.717	2823.06	6375	315.6	Orange Mark on Pipe	1329.292
215	1207	SM125S-66.40# - VAM TOP	O24	12.476	2835.53	6403	316.6	Orange Mark on Pipe	1317.575
216	1209	SM125S-66.40# - VAM TOP		12.047	2847.58	6430	317.5	Orange Mark on Pipe	1305.099
217	1217	SM125S-66.40# - VAM TOP		11.828	2859.41	6457	318.5	Orange Mark on Pipe	1293.052
218	1167	SM125S-66.40# - VAM TOP	O23	12.465	2871.87	6485	319.4	Orange Mark on Pipe	1281.224
219	1205	SM125S-66.40# - VAM TOP		12.201	2884.07	6513	320.4	Orange Mark on Pipe	1268.759
220	1204	SM125S-66.40# - VAM TOP		11.959	2896.03	6540	321.3	Orange Mark on Pipe	1256.558
221	1170	SM125S-66.40# - VAM TOP	O22	12.451	2908.48	6568	322.3	Orange Mark on Pipe	1244.599
222	1172	SM125S-66.40# - VAM TOP		12.483	2920.97	6596	323.3	Orange Mark on Pipe	1232.148
223	1212	SM125S-66.40# - VAM TOP		11.223	2932.19	6621	324.2	Orange Mark on Pipe	1219.665
224	1203	SM125S-66.40# - VAM TOP	O21	12.404	2944.59	6649	325.1	Orange Mark on Pipe	1208.442
225	1169	SM125S-66.40# - VAM TOP		11.944	2956.54	6676	326.1	Orange Mark on Pipe	1196.038
226	1171	SM125S-66.40# - VAM TOP		12.354	2968.89	6704	327.0	Orange Mark on Pipe	1184.094
227	1210	SM125S-66.40# - VAM TOP	O20	12.031	2980.92	6731	328.0	Orange Mark on Pipe	1171.740
228	1202	SM125S-66.40# - VAM TOP		11.966	2992.89	6758	328.9	Orange Mark on Pipe	1159.709
229	1201	SM125S-66.40# - VAM TOP		12.489	3005.38	6787	329.9	Orange Mark on Pipe	1147.743
230	1195	SM125S-66.40# - VAM TOP	O19	12.194	3017.57	6814	330.8	Orange Mark on Pipe	1135.254
231	1197	SM125S-66.40# - VAM TOP		12.362	3029.93	6842	331.8	Orange Mark on Pipe	1123.060
232	1211	SM125S-66.40# - VAM TOP		12.401	3042.34	6870	332.8	Orange Mark on Pipe	1110.698
233	1200	SM125S-66.40# - VAM TOP	O18	12.275	3054.61	6898	333.7	Orange Mark on Pipe	1098.297
234	1254	SM125S-66.40# - VAM TOP		12.280	3066.89	6925	334.7	Orange Mark on Pipe	1086.022
235	1196	SM125S-66.40# - VAM TOP		11.847	3078.74	6952	335.6	Orange Mark on Pipe	1073.742
236	1257	SM125S-66.40# - VAM TOP	O17	12.320	3091.06	6980	336.6	Orange Mark on Pipe	1061.895
237	1199	SM125S-66.40# - VAM TOP		12.093	3103.15	7007	337.5	Orange Mark on Pipe	1049.575
238	1198	SM125S-66.40# - VAM TOP		12.295	3115.41	7035	338.5	Orange Mark on Pipe	1037.482
239	1253	SM125S-66.40# - VAM TOP	O16	12.340	3127.75	7063	339.4	Orange Mark on Pipe	1025.227
240	1256	SM125S-66.40# - VAM TOP		12.334	3140.08	7091	340.4	Orange Mark on Pipe	1012.887
241	1255	SM125S-66.40# - VAM TOP		12.029	3152.11	7118	341.3	Orange Mark on Pipe	1000.553
242	1189	SM125S-66.40# - VAM TOP	O15	12.367	3164.48	7146	342.3	Orange Mark on Pipe	988.524
243	1188	SM125S-66.40# - VAM TOP		12.361	3176.84	7174	343.3	Orange Mark on Pipe	976.157
244	1252	SM125S-66.40# - VAM TOP		12.330	3189.17	7202	344.2	Orange Mark on Pipe	963.796
245	1192	SM125S-66.40# - VAM TOP	O14	12.366	3201.52	7229	345.2	Orange Mark on Pipe	951.466
246	1191	SM125S-66.40# - VAM TOP		12.503	3214.03	7258	346.2	Orange Mark on Pipe	939.110
247	1190	SM125S-66.40# - VAM TOP		12.181	3226.21	7285	347.1	Orange Mark on Pipe	926.807
248	1184	SM125S-66.40# - VAM TOP	O13	12.443	3238.65	7313	348.1	Orange Mark on Pipe	914.426
249	1187	SM125S-66.40# - VAM TOP		12.371	3251.02	7341	349.1	Orange Mark on Pipe	901.983
250	1186	SM125S-66.40# - VAM TOP		12.315	3263.34	7369	350.0	Orange Mark on Pipe	889.612



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Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String Wt in Mud Incl Blocks (MT)	COMMENTS	Depth to Btm of Joint
251	1182	SM125S-66.40# - VAM TOP	O12	12.286	3275.62	7397	351.0	Orange Mark on Pipe	877.297
252	1184	SM125S-66.40# - VAM TOP		12.307	3287.93	7425	352.0	Orange Mark on Pipe	865.011
253	1193	SM125S-66.40# - VAM TOP		12.312	3300.24	7452	352.9	Orange Mark on Pipe	852.704
254	1185	SM125S-66.40# - VAM TOP	O11	12.480	3312.70	7480	353.9	Orange Mark on Pipe	840.392
255	1181	SM125S-66.40# - VAM TOP		12.490	3325.19	7509	354.9	Orange Mark on Pipe	827.932
256	1180	SM125S-66.40# - VAM TOP		12.310	3337.50	7536	355.8	Orange Mark on Pipe	815.442
257	1174	SM125S-66.40# - VAM TOP	O10	12.409	3349.91	7564	356.8	Orange Mark on Pipe	803.132
258	1176	SM125S-66.40# - VAM TOP		11.181	3361.09	7590	357.7	Orange Mark on Pipe	790.723
259	1183	SM125S-66.40# - VAM TOP		12.498	3373.59	7618	358.7	Orange Mark on Pipe	779.542
260	1107	SM125S-66.40# - VAM TOP	O9	12.491	3386.08	7646	359.6	Orange Mark on Pipe	767.044
261	1173	SM125S-66.40# - VAM TOP		12.408	3398.49	7674	360.6	Orange Mark on Pipe	754.553
262	1175	SM125S-66.40# - VAM TOP		12.419	3410.91	7702	361.6	Orange Mark on Pipe	742.145
263	1258	SM125S-66.40# - VAM TOP	O8	12.372	3423.28	7730	362.5	Orange Mark on Pipe	729.726
264	1259	SM125S-66.40# - VAM TOP		12.580	3435.86	7759	363.5	Orange Mark on Pipe	717.354
265	1108	SM125S-66.40# - VAM TOP		12.464	3448.32	7787	364.5	Orange Mark on Pipe	704.774
266	1178	SM125S-66.40# - VAM TOP	O7	12.331	3460.65	7815	365.5	Orange Mark on Pipe	692.310
267	1177	SM125S-66.40# - VAM TOP		12.435	3473.09	7843	366.4	Orange Mark on Pipe	679.979
268	1179	SM125S-66.40# - VAM TOP		12.376	3485.46	7871	367.4	Orange Mark on Pipe	667.544
269	1261	SM125S-66.40# - VAM TOP	O6	12.421	3497.89	7899	368.4	Orange Mark on Pipe	655.168
270	1260	SM125S-66.40# - VAM TOP		12.528	3510.41	7927	369.3	Orange Mark on Pipe	642.747
271	1262	SM125S-66.40# - VAM TOP		12.473	3522.89	7955	370.3	Orange Mark on Pipe	630.219
272	1122	SM125S-66.40# - VAM TOP	O5	12.464	3535.35	7983	371.3	Orange Mark on Pipe	617.746
273	1123	SM125S-66.40# - VAM TOP		12.317	3547.67	8011	372.3	Orange Mark on Pipe	605.282
274	1124	SM125S-66.40# - VAM TOP		11.228	3559.90	8036	373.1	Orange Mark on Pipe	592.965
275	1126	SM125S-66.40# - VAM TOP	O4	12.453	3571.35	8065	374.1	Orange Mark on Pipe	581.737
276	1125	SM125S-66.40# - VAM TOP		11.332	3582.68	8090	375.0	Orange Mark on Pipe	569.284
277	1109	SM125S-66.40# - VAM TOP		12.451	3595.13	8118	376.0	Orange Mark on Pipe	557.952
278	1247	SM125S-66.40# - VAM TOP	O3	12.446	3607.58	8146	376.9	Orange Mark on Pipe	545.501
279	1246	SM125S-66.40# - VAM TOP		12.211	3619.79	8174	377.9	Orange Mark on Pipe	533.055
280	1248	SM125S-66.40# - VAM TOP		12.189	3631.98	8201	378.8	Orange Mark on Pipe	520.844
281	1250	SM125S-66.40# - VAM TOP	O2	12.479	3644.46	8230	379.8	Orange Mark on Pipe	508.655
282	1249	SM125S-66.40# - VAM TOP		12.435	3656.89	8258	380.8	Orange Mark on Pipe	496.176
283	1251	SM125S-66.40# - VAM TOP		12.026	3669.92	8285	381.7	Orange Mark on Pipe	483.741
284	1136	SM125S-66.40# - VAM TOP	O1	12.338	3681.26	8313	382.7	Orange Mark on Pipe	471.715
285	1118	SM125S-66.40# - VAM TOP		12.318	3693.57	8341	383.7	Orange Mark on Pipe	459.377
286	1120	SM125S-66.40# - VAM TOP		12.419	3705.99	8369	384.6	Orange Mark on Pipe	447.059
HANGER	9-7/8" Hanger	Below HOP HOP (IN HPWWH) Wellhead Datum		4.950	3710.91	8380	385.0	Hang of joint	434.640
L1	LS	Running tool + Pup Landing string (5 1/2" WI LS)		1.080	3711.99	8382	385.1	WH Datum	429.720
			Check sum	7.090	3719.08	8398	385.7	Offfall responsible for LS Spacout	428.640
				421.550	4140.63	8705	414.4	Stickup above RKB	421.550
				0.000		Check weight	0.000		0.000

Box color coding	Description	Planned Picked up from boat	Planned in Hole	In Derrick	Left on Deck
9 7/8" centir		32	26	26	6
9 7/8" slick		110	94	97	13
9 7/8" Orange		161	153	156	5
9 7/8" Pink		17	2	17	0
Intermediate w/ 2x cent		2	2	2	0
X/O		2	1	1	1



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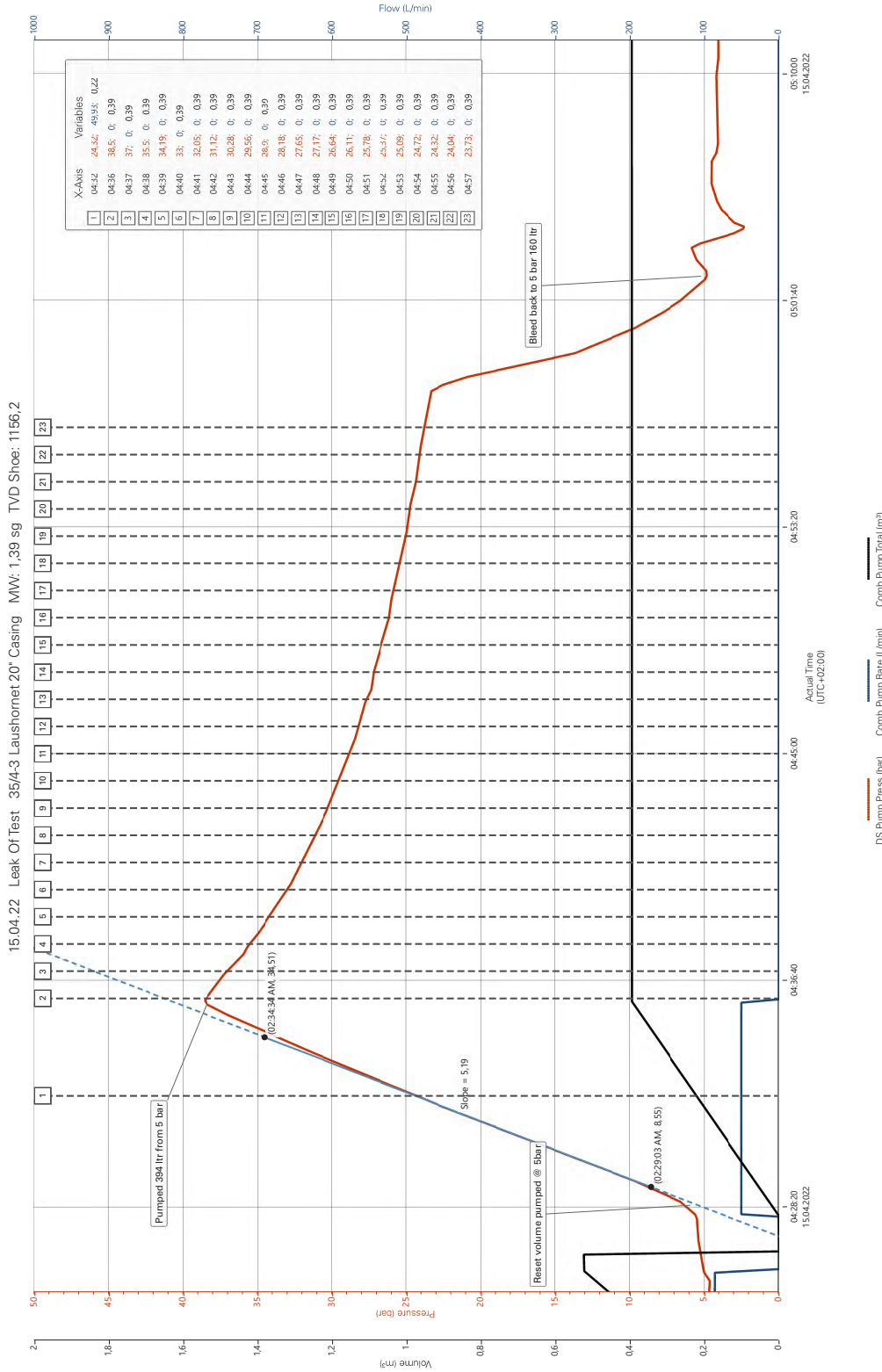
Running order	Rig joint #	Type	Stand #	Effective Length	Cumulative Length	Strokes to fill	String Wt in Mud Incl Blocks (MT)	COMMENTS	Depth to Btm of Joint
	Shoe	2	1	1	1				
	LC	2	1	1	1				
	5m PUP	2	0	0	2				
	5m PUP	2	0	0	2				
	2m PUP	2	0	0	2				
	<b>SUM</b>	<b>332</b>	<b>295</b>	<b>301</b>	<b>31</b>				

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# 6.3 LOT / FIT

## LOT at 20" casing shoe

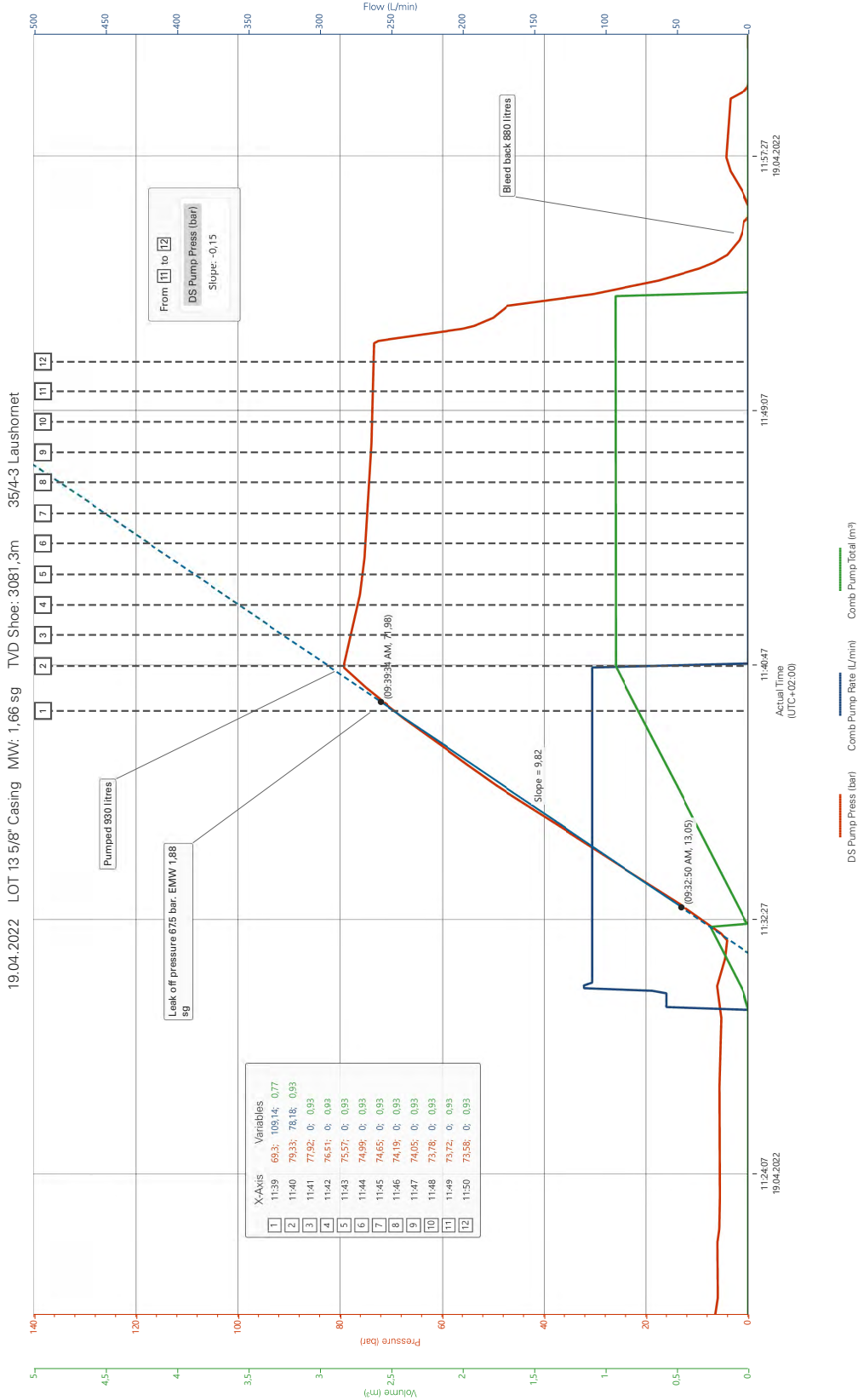




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**LOT at 13 5/8" casing shoe**



Created: 2022-04-19 09:40:15 (UTC-02:00), Version: 7.0.1.89.0

Well: Laushornet  
Rig: Deepsea Nordkapp

Job Date: 19.04.2022  
Halliburton: J.O.Overill

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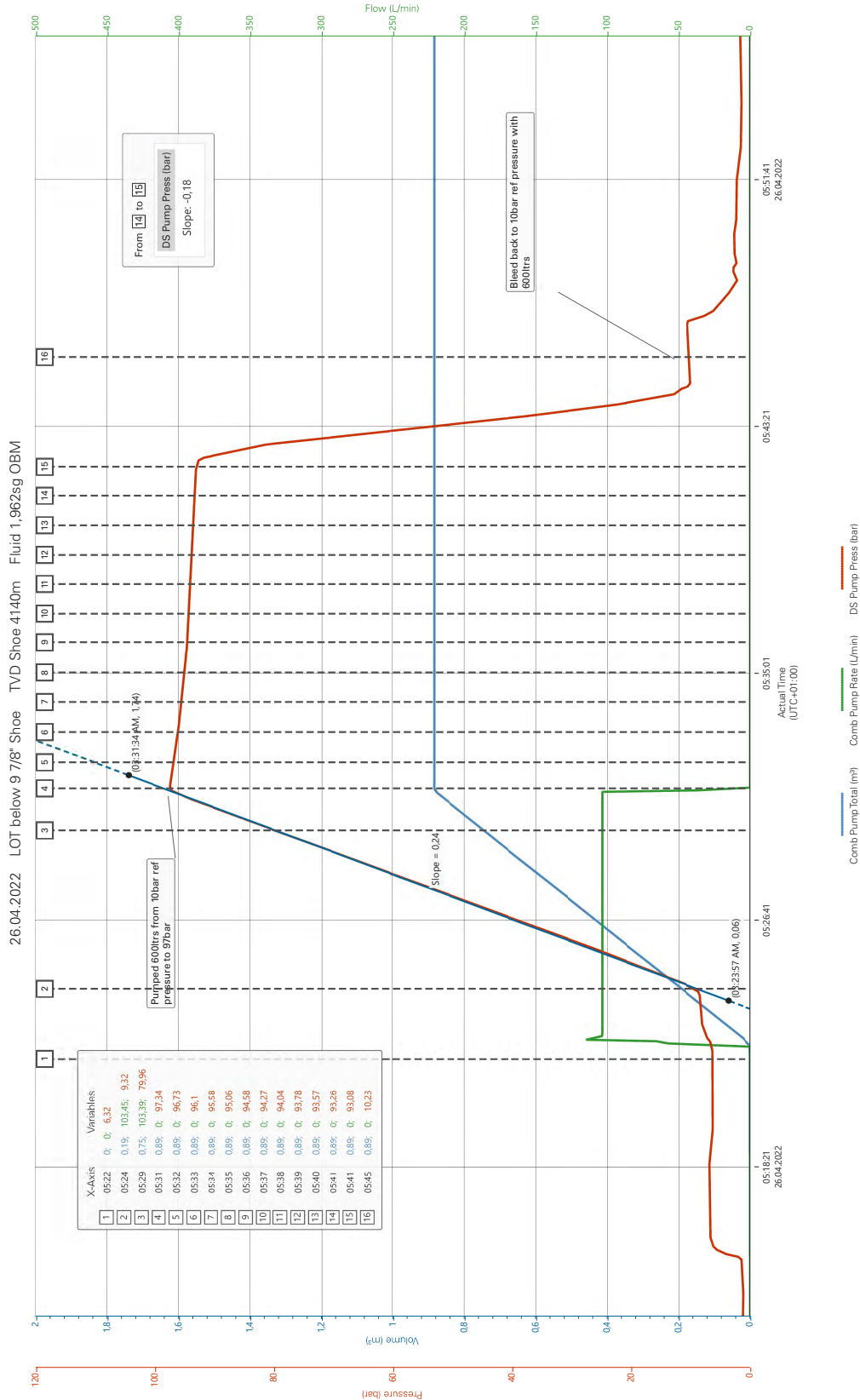
Customer: AKER BP ASA  
Representative: Tim Hague



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**FIT at 9 7/8" casing shoe**



Created: 2022-04-26 02:00:25 (UTC-02:00), Version: 7.0.1.89.0

Well: Laushornet 35/4-3  
Rig: Deepsea Nordkapp

Job Date: 4.26.2022  
Halliburton Cementer: K. Munro

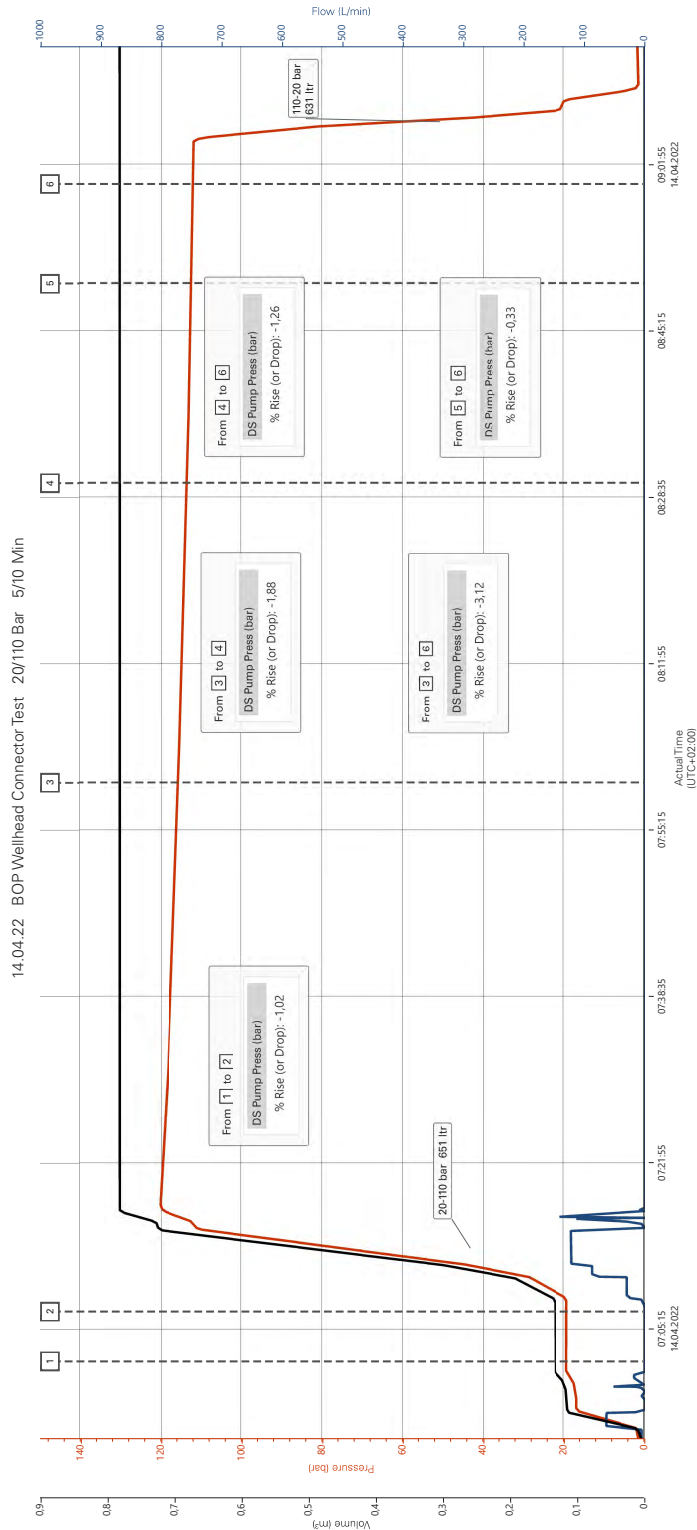
HALLIBURTON | Cem® Service  
Customer: AKER BP ASA  
Representative: Tim Hague

Edit



# 6.4 Pressure tests

## BOP connector test



Description	Actual Time (UTC+02:00)	DS Pump Press (bar)	DS Pump Rate (L/min)	Comb Pump Rate (L/min)	Comb Pump Total (m³)
1 Pressure Test	07:02:00	19.27	0.00	0.00	0.13
2 Pressure Test	07:07:00	19.08	0.00	0.13	0.13
3 Pressure Test	08:00:00	115.74	0.00	0.78	0.78
4 Pressure Test	08:30:00	113.56	0.00	0.78	0.78
5 Pressure Test	08:50:00	112.50	0.00	0.78	0.78
6 Pressure Test	09:00:00	112.13	0.00	0.78	0.78

Legend: DS Pump Press (bar), DS Pump Rate (L/min), Comb Pump Rate (L/min), Comb Pump Total (m³)

Created: 2022-04-14 01:58:44 (UTC+02:00) | Version: 7.0.18970 Edit  
 Well : Laushornet  
 Rig : Deepsea Nordlapp  
 Job Date : 14.04.2022  
 Halliburton : Sindre Skjette

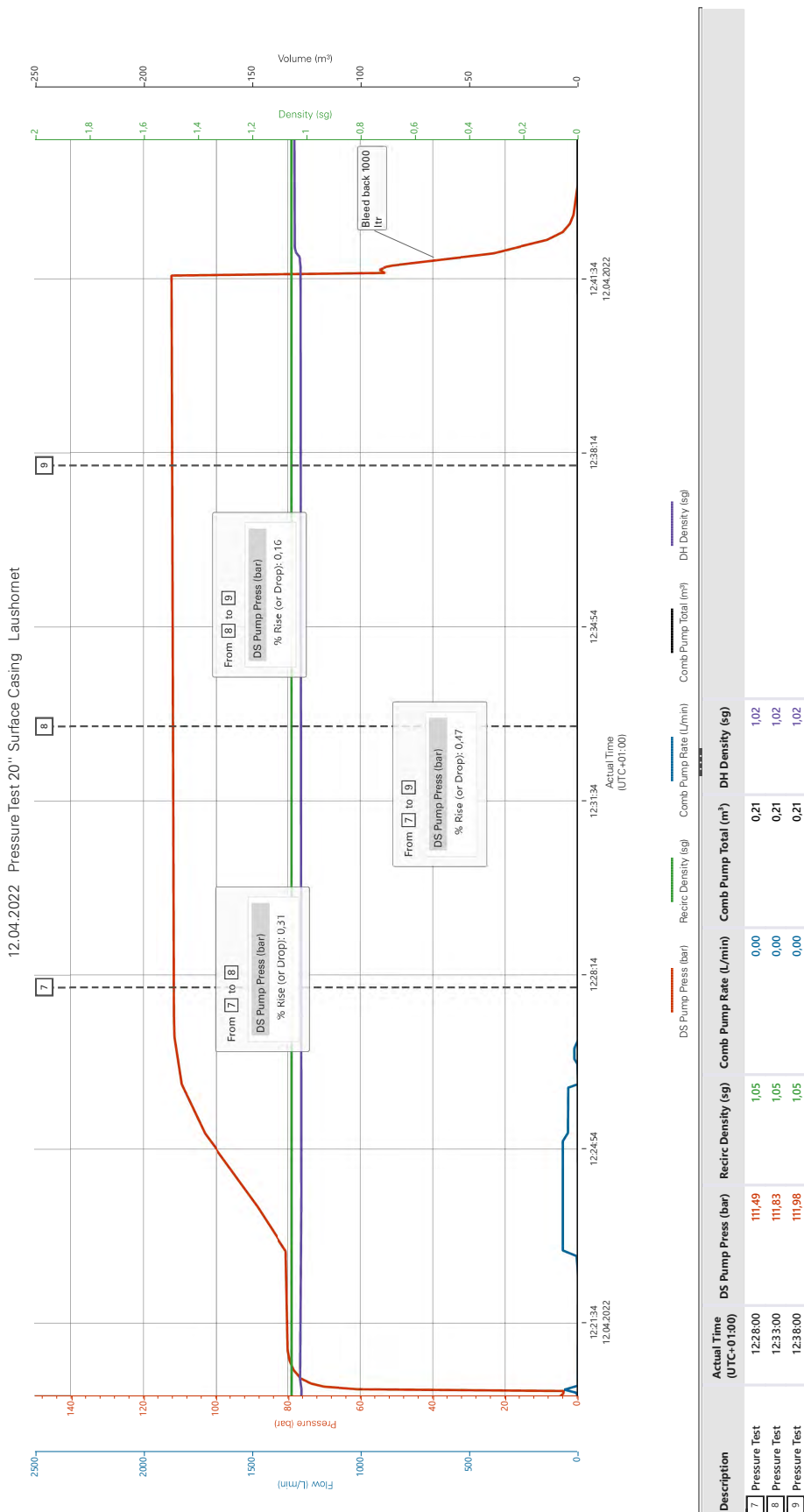
HALLIBURTON | Cem® Service  
 Customer: AKER BP ASA  
 Representative:



Final Well Report for exploration well  
Laushornet 35/4-3

Version: Draft  
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**20" casing test**



Created: 2022-04-12 05:53:14 (UTC-02:00), Version: 7.0.1.89.0 [Edit](#)

Well: Laushornet  
Rig: Deepsea Nordlapp

Job Date: 12.04.2022  
Halliburton: S. Skjerve K. Riveland A. Semme

**HALLIBURTON** | Cem® Service

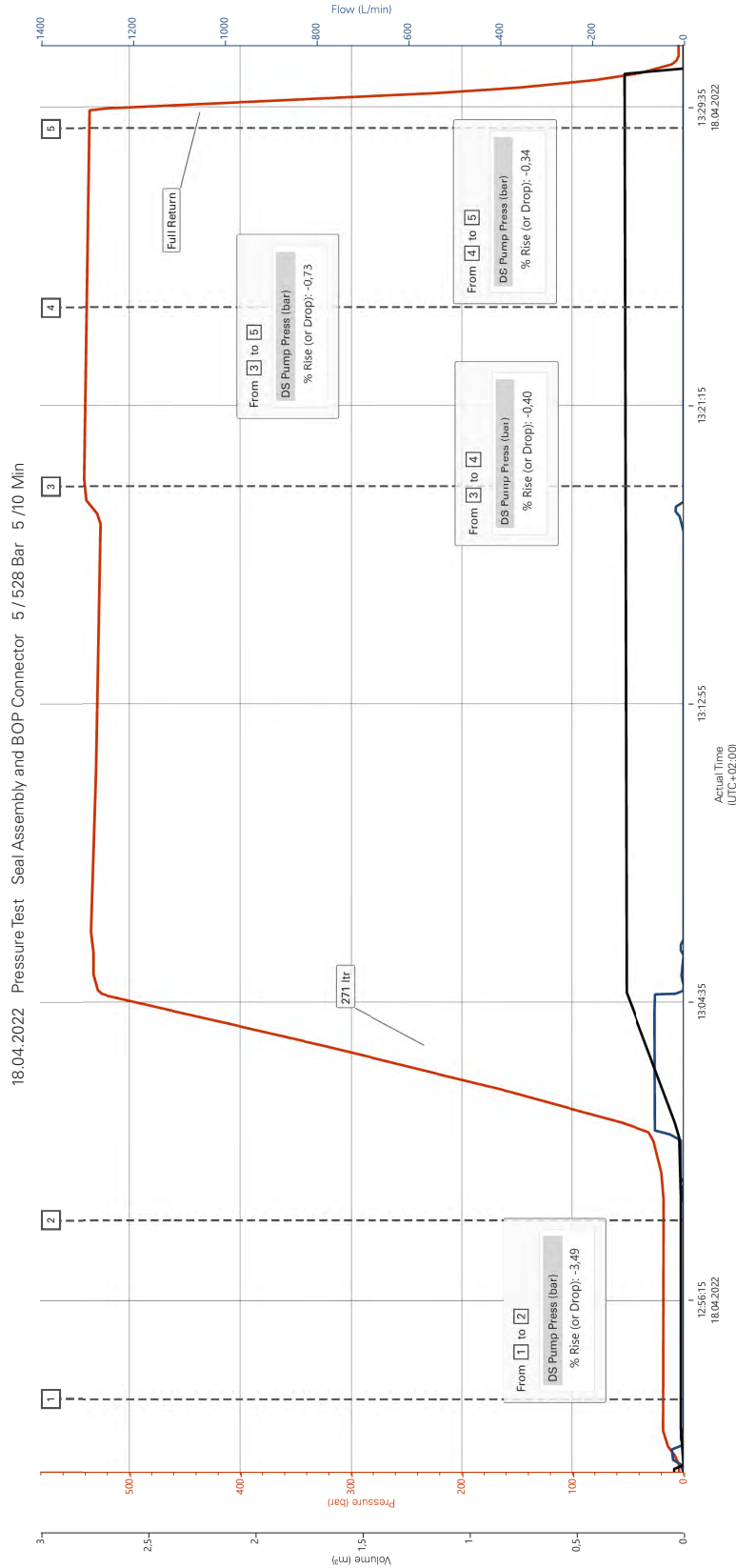
Customer: AKER BP ASA  
Representative: Neil Slater



Final Well Report for exploration well  
Laushornet 35/4-3

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**13 5/8" seal assembly test**



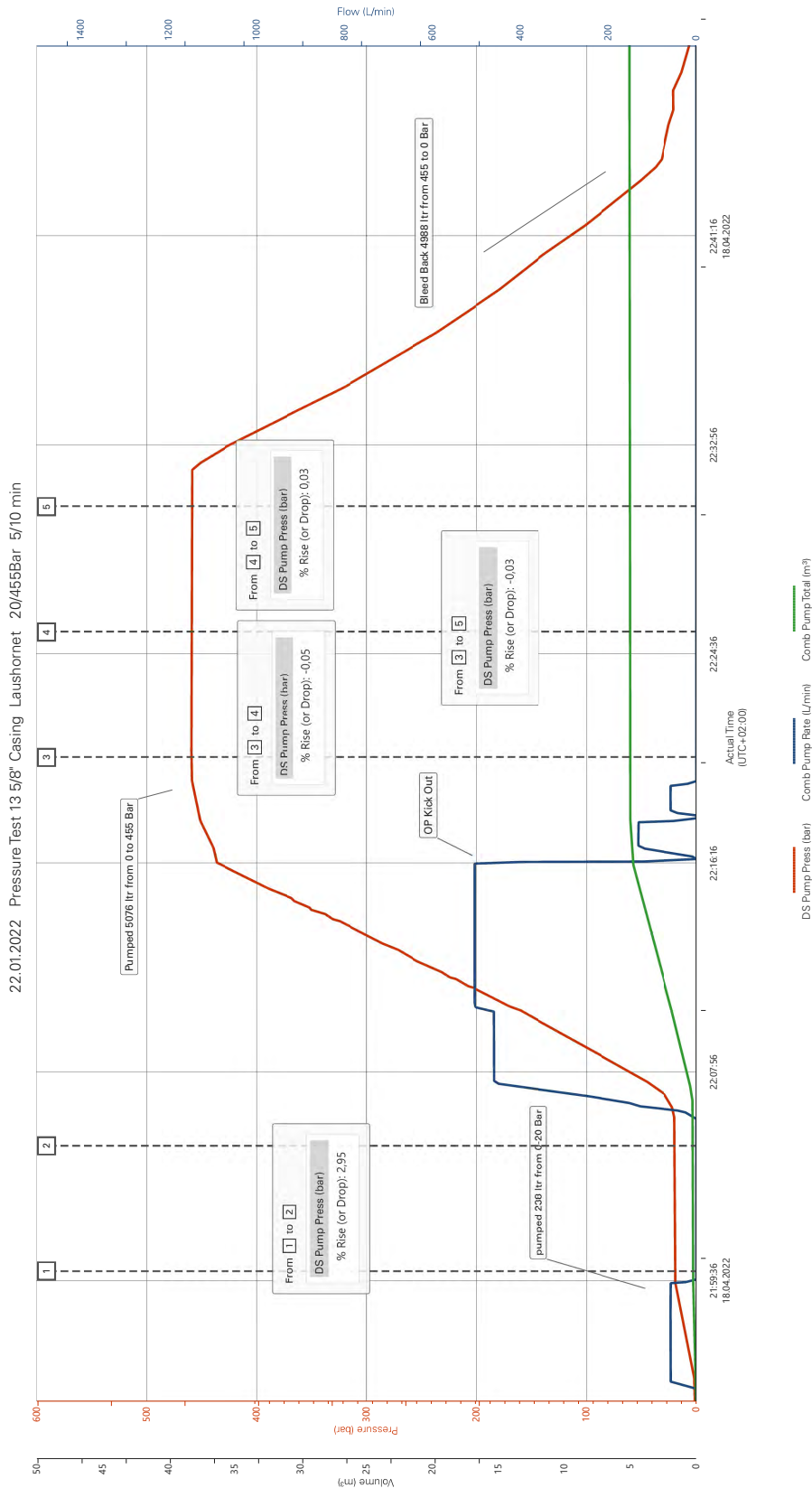
18.04.2022 Pressure Test Seal Assembly and BOP Connector 5 / 528 Bar 5 /10 Min

DS Pump Press (bar) Comb Pump Rate (L/min) Comb Pump Total (m³)

Description	Actual Time (UTC+02:00)	DS Pump Press (bar)	Comb Pump Rate (L/min)	Comb Pump Total (m³)
1 Pressure Test	12:53:30	18,72	0,00	0,01
2 Pressure Test	12:58:30	18,07	0,00	0,01
3 Pressure Test	13:19:00	540,47	0,00	0,28
4 Pressure Test	13:24:00	538,33	0,00	0,28
5 Pressure Test	13:29:00	536,51	0,00	0,28



**13 5/8" casing test**

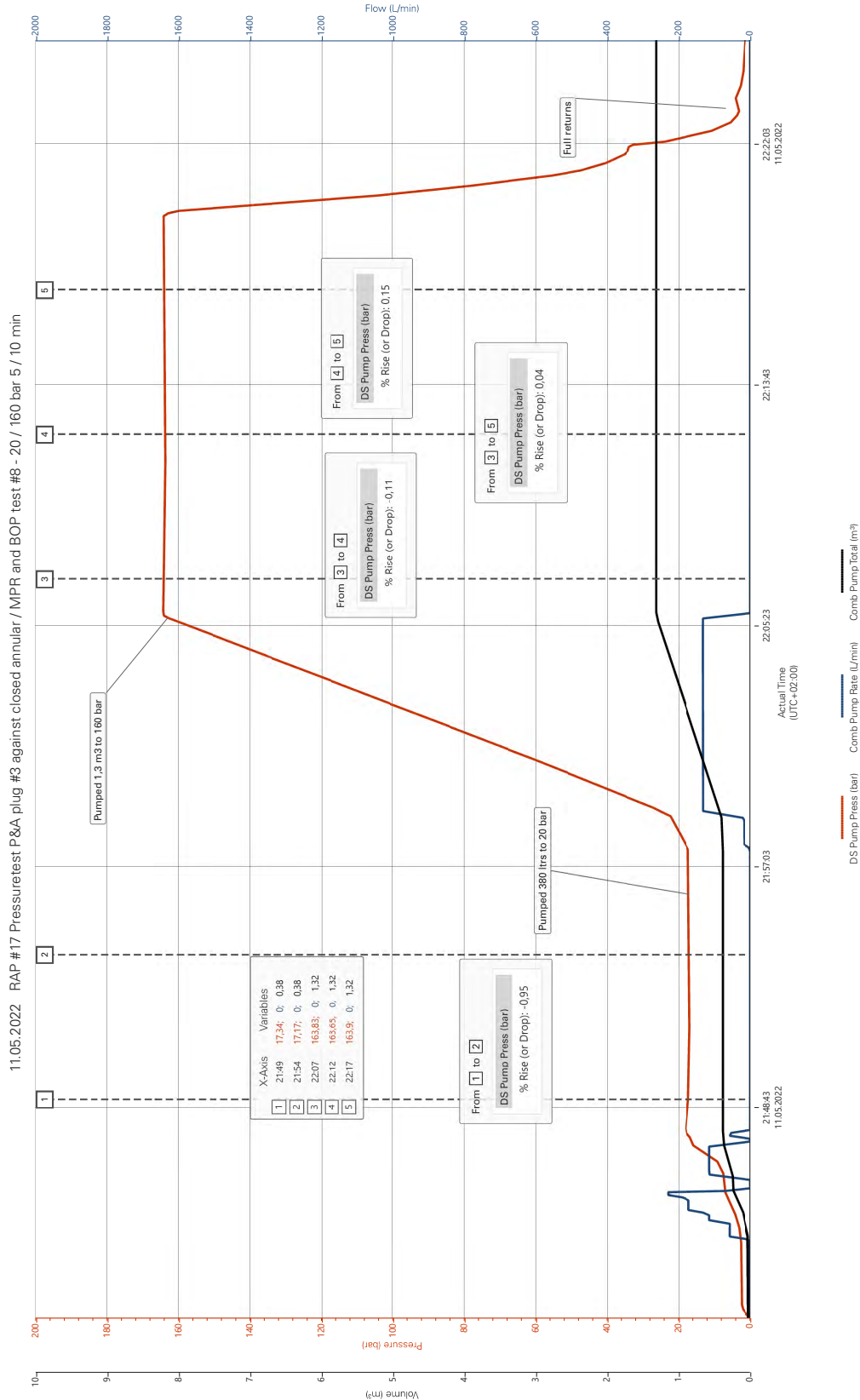


Description	Actual Time (UTC+02:00)	DS Pump Press (bar)	Comb Pump Rate (L/min)	Comb Pump Total (m³)
1 Pressure Test	22:00:00	18.96	0.00	0.24
2 Pressure Test	22:05:00	19.52	0.00	0.24
3 Pressure Test	22:20:30	459.31	0.00	5.08
4 Pressure Test	22:25:30	459.06	0.00	5.08
5 Pressure Test	22:30:30	459.22	0.00	5.08

[Edit](#)



9 7/8" seal assembly test

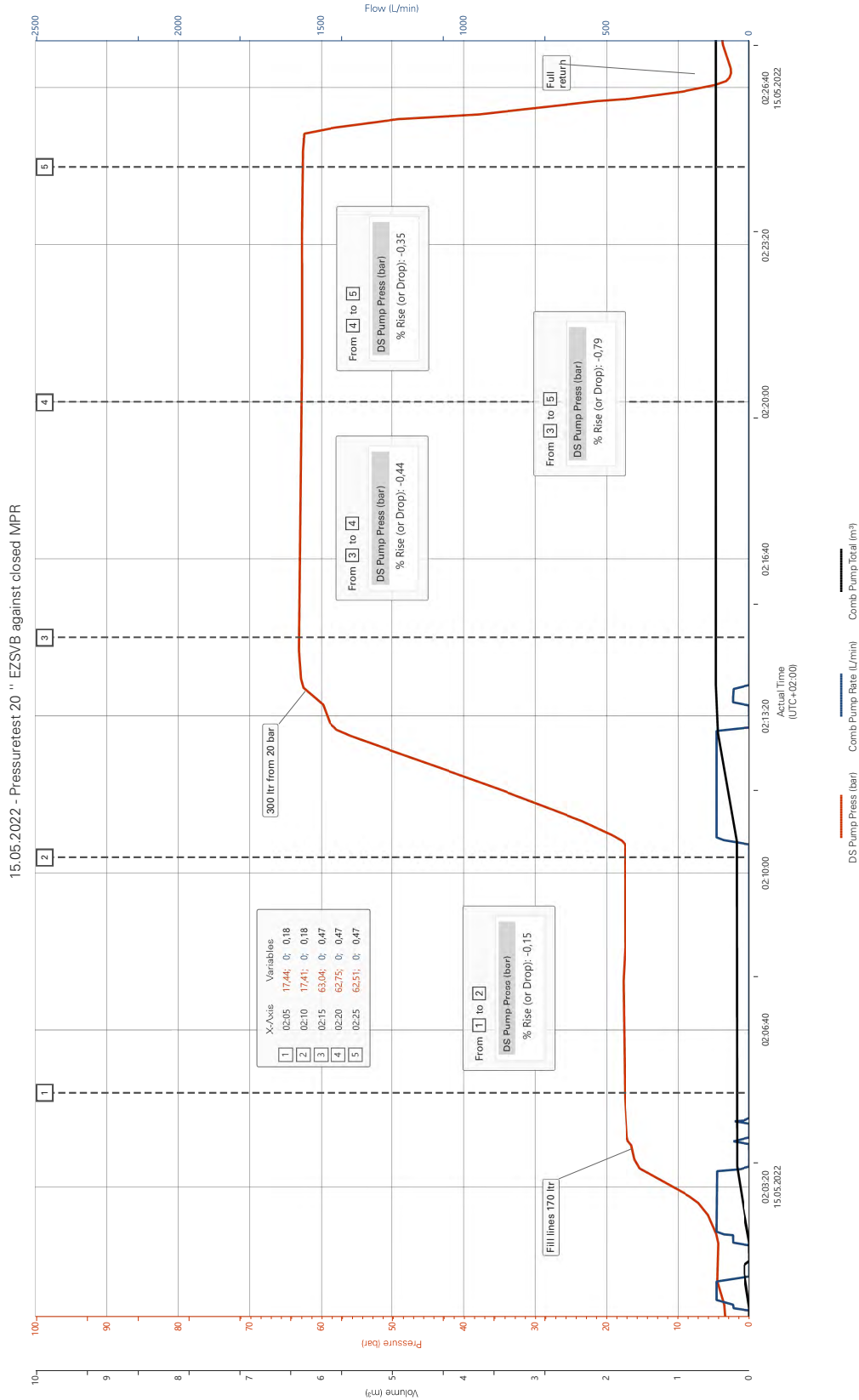




Final Well Report for exploration well  
Laushornet 35/4-3

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9 7/8" casing test



Created: 2022-05-15 09:04:21 (UTC+02:00), Version: 7.0.1.89.0

Well: Laushornet  
Rig: Deepsea Nordkapp

Job Date: 15.05.2022  
Halliburton: Peder Stokka / Andriy Stanes

HALLIBURTON | Cem® Service  
Customer: AKER BP ASA  
Representative: Mads Brasoygird

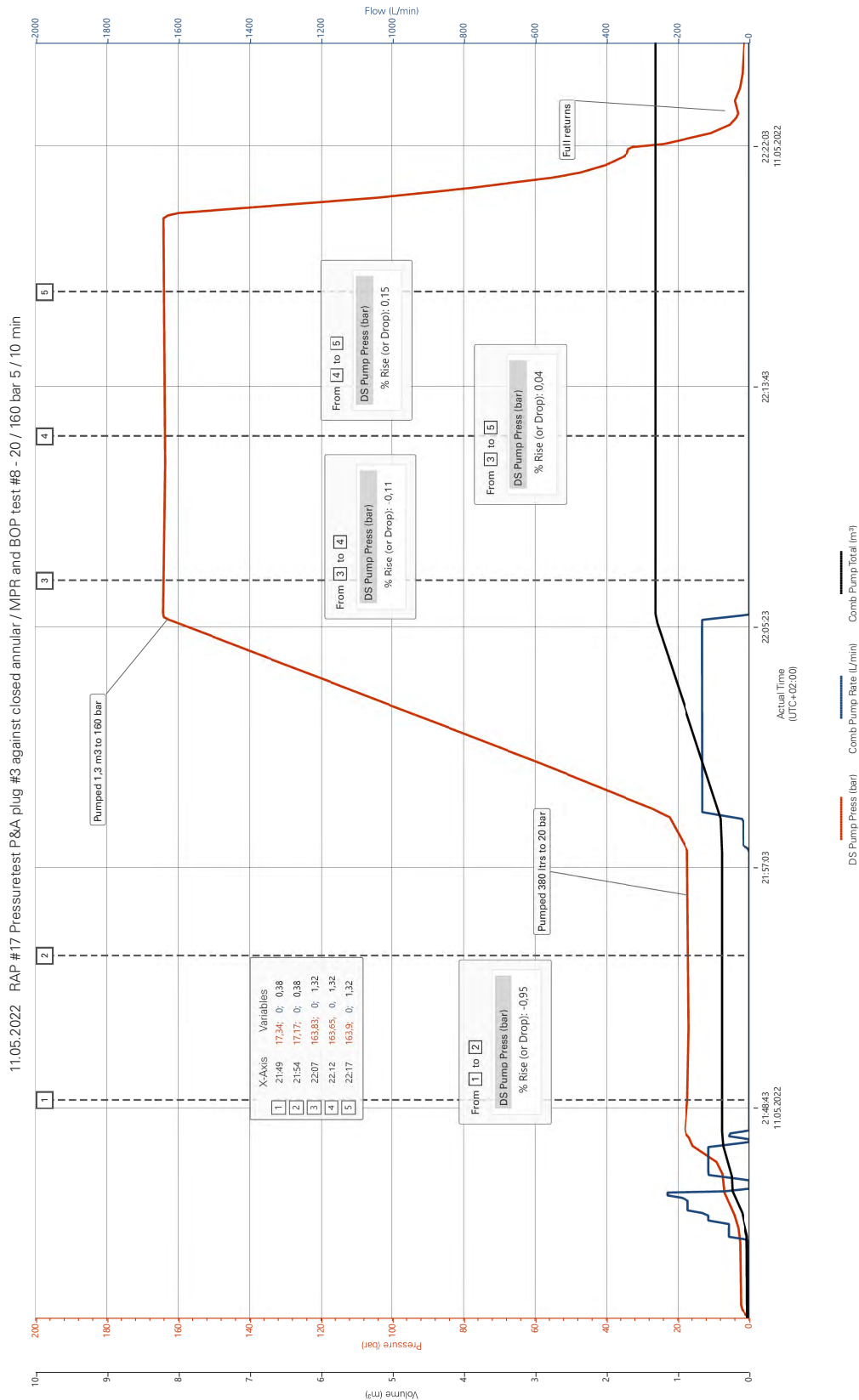
Edit



Final Well Report for exploration well  
Laushornet 35/4-3

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**P&A cement plug #3 test**



Created: 2022-05-11 11:58:16 (UTC+02:00), Version: 7.0.1.89.0

Well: Laushornet  
Rig: Deepsea Nordklopp

Job Date: 11.05.2022  
Halliburton: AntiYstanes

HALLIBURTON | Cem® Service

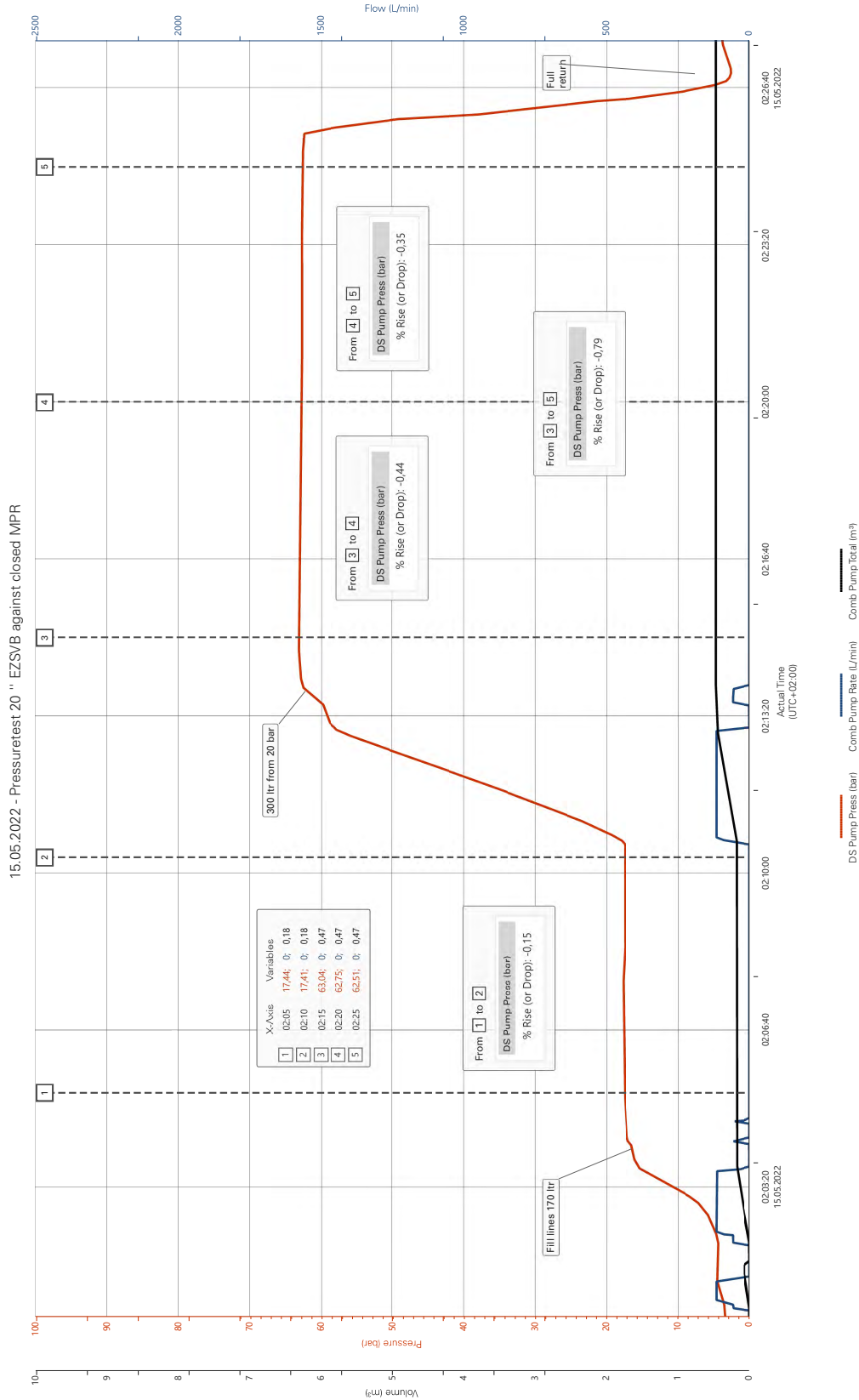
Customer: AKER BP ASA  
Representative: Neil Slater / Mads Brasøylid



Final Well Report for exploration well  
Laushornet 35/4-3

Version: Draft  
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**13 5/8" EZSV test**



Created: 2022-05-15 09:04:21 (UTC+02:00), Version: 7.0.1.89.0

Well: Laushornet  
Rig: Deepsea Nordkapp

Job Date: 15.05.2022  
Halliburton: Petar Stojka / Anil Ysanes

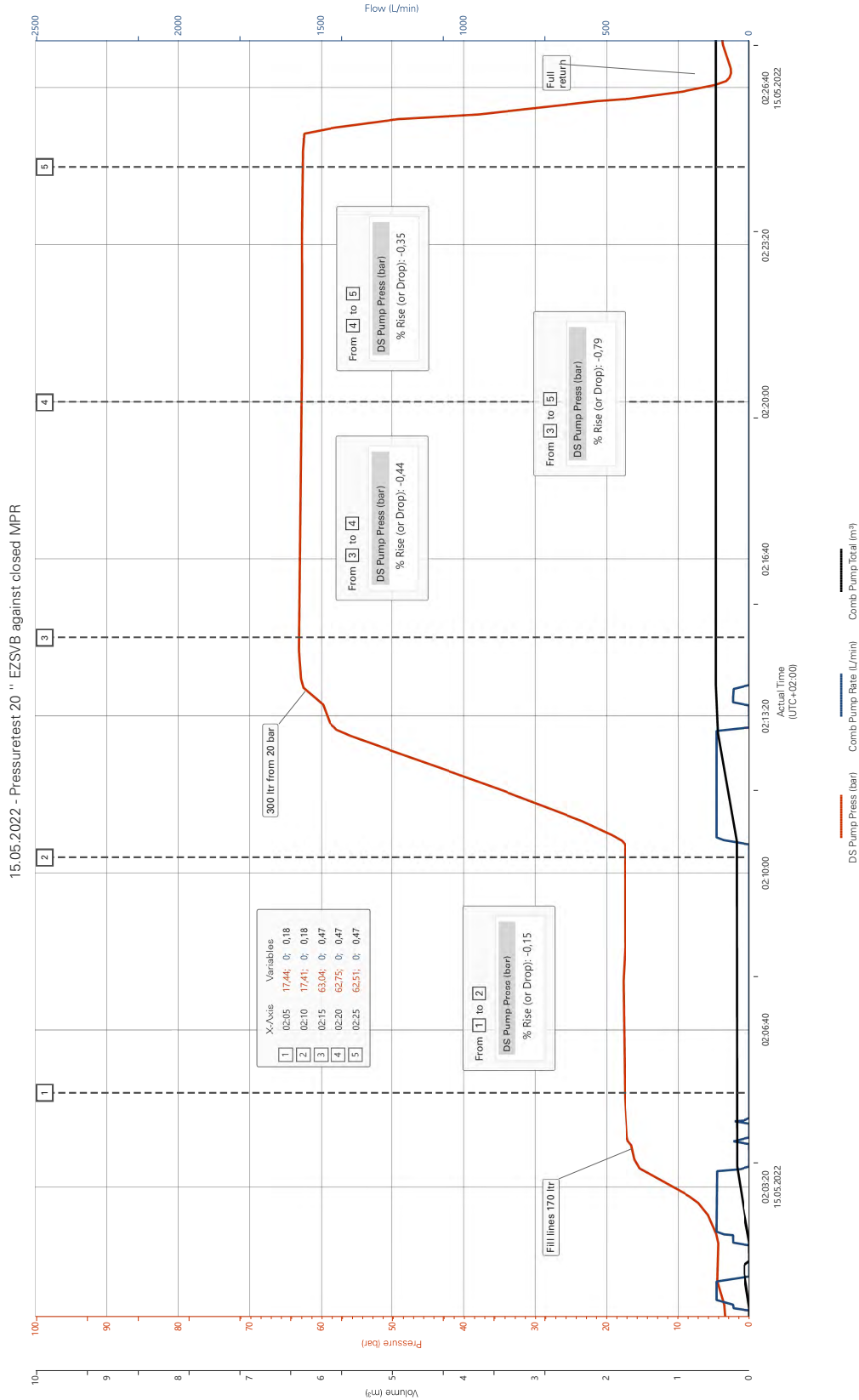
HALLIBURTON | Cem® Service

Customer: AKER BP ASA  
Representative: Mads Brasoygird

Edit



**20" EZSV test**




Created: 2022-05-15 09:04:21 (UTC+02:00), Version: 7.0.1.89.0

Well: Laushornet  
Rig: Deepsea Nordklopp

Job Date: 15.05.2022  
Halliburton: Petar Stojka / Anil Ysanes

HALLIBURTON | Cem® Service  
Customer: AKER BP ASA  
Representative: Mads Brasoygird

Edit

	<p>Final Well Report for exploration well Laushornet 35/4-3</p>	<p>Version: Draft Page: 123 of 141</p>
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## 6.5 Final survey report



### Final Well Position Report

**Wellbore Name:** 35/4-3 Main Bore  
**Field:** Laushornet  
**Licence:** PL 685

**Date:** 11/04/2022  
**Rig:** Deepsea Nordkapp  
**ABP ref:** ABP225001

**RECIPIENT:** Petro Technical Data Management [dm\\_drilling@akerbp.com](mailto:dm_drilling@akerbp.com), Data Management Engineer [ildiko.ida.langaker@akerbp.com](mailto:ildiko.ida.langaker@akerbp.com)

**COPY TO:** Geospatial Team [geospatialteam@akerbp.com](mailto:geospatialteam@akerbp.com), GIS Team [gis@akerbp.com](mailto:gis@akerbp.com)

**FROM (printed):** Matt Cowing  
**Position in AkerBP:** Operations Surveyor  
**Email:** [matthew.david.cowing@akerbp.com](mailto:matthew.david.cowing@akerbp.com)

**Controlled by (printed):** Sigve Halvorsen  
**Position in AkerBP:** Lead Surveyor  
**Email:** [sigve.halvorsen@akerbp.com](mailto:sigve.halvorsen@akerbp.com)

**Signature:**

**Signature:**

### Final Well Surface Position

Geographical Coordinates:

Latitude: 61° 40' 18.923" N  
Longitude: 003° 07' 09.323" E  
Spheroid: International 1924  
Datum: ED50

UTM Co-ordinates: Northing: 6 837 802.3 m  
Easting: 506 313.7 m  
UTM Zone: 31 N  
Central Meridian: 3° E  
ESPG Code: 16031

**Datum Shift Parameters:** WGS84 to ED50 (EPSG Code 1613 ED50 to WGS84 South 62N)

**Deviation:** The surface position was observed to be 0.65 meters on a bearing of 018.3° (G) from the intended location.

**Accuracy:** Absolute seabed position accuracy = +/- 4.1 m (95% confidence interval or 2 standard deviations)

**Notes:**

*Absolute surface position accuracy = +/- 3.73 m (95% confidence interval or 2 standard deviations)  
Report reference: 207201-01-REP-002-11 ABP225001 Final Position of the Deepsea Nordkapp at 35\_4-3 Laushornet (PL685).pdf  
Water depth = 399 m*

*Absolute accuracy at seabed spud location due to possible 0.25° riser deviation from vertical = +/- 1.75 m (95% confidence interval or 2 standard deviations)*

*Overall spud accuracy at seabed =  $\sqrt{(3.73^2 + 1.75^2)}$  = +/- 4.1m (95% confidence interval or 2 standard deviations)*

*File saved at: Q:\OPS\Surveyteam\Survey and Geomatics\2. Offshore Operations\2.6 Data Management\Final Well Position Reports\Laushornet\35\_4-3 Main Bore\Rig Final Fix*



**35/4-U-2 shallow gas pilot hole:**

**AKER BP**

Quadrant 0035

35/04-U-2 [Shallow Gas PH]

35/4-U-2

35/4-U-2

Design: 35/4-U-2

**Survey Report - Geographic**

12 mai, 2022



## Final Well Report for exploration well Laushornet 35/4-3

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### Survey Report - Geographic

<b>Company:</b>	AKER BP	<b>Local Co-ordinate Reference:</b>	Site 35/04-U-2 [Shallow Gas PH]
<b>Project:</b>	Quadrant 0035	<b>TVD Reference:</b>	RKB @ 32.65m (RT)
<b>Site:</b>	35/04-U-2 [Shallow Gas PH]	<b>MD Reference:</b>	RKB @ 32.65m (RT)
<b>Well:</b>	35/4-U-2	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	35/4-U-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	35/4-U-2	<b>Database:</b>	AkerBP EDM PROD

<b>Project</b>	Quadrant 0035, Quadrant 35		
<b>Map System:</b>	Offshore Norway UTM South of 62 Deg ED50° EPSG-Nor S62 2001 [4230*1613]	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>			
<b>Map Zone:</b>	ED50° EPSG-Nor S62 2001 / UTM 31N [23031*1613]	Using geodetic scale factor	

<b>Site</b>	35/04-U-2 [Shallow Gas PH], 34/4				
<b>Site Position:</b>		<b>Northing:</b>	6,837,785.54 m	<b>Latitude:</b>	61° 40' 18.380 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	506,332.41 m	<b>Longitude:</b>	3° 7' 10.593 E
<b>Position Uncertainty:</b>	0.00 m	<b>Slot Radius:</b>	21.000 in	<b>Grid Convergence:</b>	0.11 °

<b>Well</b>	35/4-U-2,					
<b>Well Position</b>	<b>+N-S</b>	0.00 m	<b>Northing:</b>	6,837,785.54 m	<b>Latitude:</b>	61° 40' 18.380 N
	<b>+E-W</b>	0.00 m	<b>Easting:</b>	506,332.41 m	<b>Longitude:</b>	3° 7' 10.593 E
<b>Position Uncertainty</b>		1.05 m	<b>Wellhead Depth:</b>	397.85 m	<b>Water Depth:</b>	397.85 m

<b>Wellbore</b>	35/4-U-2				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b> (°)	<b>Dip Angle</b> (°)	<b>Field Strength</b> (nT)
	BGGM_CURRENT	10.04.2022	1.12	73.65	51,565.90000000

<b>Design</b>	35/4-U-2				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD)</b> (m)	<b>+N-S</b> (m)	<b>+E-W</b> (m)	<b>Direction</b> (°)	
	0.00	0.00	0.00	52.85	

<b>Survey Program</b>	<b>Date</b>	09.04.2022			
<b>From</b> (m)	<b>To</b> (m)	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
430.50	1,141.30	8 1/2" Sperry Drilling MWD+IFR1+AX (35/4	2_MWD+IFR1+AX	A006Mb: IFR dec & axial corrections	

<b>Survey</b>										
<b>Measured</b>	<b>Vertical</b>	<b>Map</b>		<b>Map</b>		<b>Latitude</b>		<b>Longitude</b>		
<b>Depth</b> (m)	<b>Inclination</b> (°)	<b>Azimuth</b> (°)	<b>Depth</b> (m)	<b>+N-S</b> (m)	<b>+E-W</b> (m)	<b>Northing</b> (m)	<b>Easting</b> (m)			
0.00	0.00	0.00	0.00	0.00	0.00	6,837,785.54	506,332.41	61° 40' 18.380 N	3° 7' 10.593 E	
430.50	0.00	0.01	430.50	0.00	0.00	6,837,785.54	506,332.41	61° 40' 18.380 N	3° 7' 10.593 E	
432.00	0.53	118.14	432.00	0.00	0.01	6,837,785.54	506,332.42	61° 40' 18.380 N	3° 7' 10.593 E	
471.30	0.46	76.28	471.30	-0.05	0.32	6,837,785.49	506,332.73	61° 40' 18.378 N	3° 7' 10.615 E	
511.90	0.62	72.26	511.90	0.05	0.69	6,837,785.60	506,333.10	61° 40' 18.382 N	3° 7' 10.640 E	
548.60	0.90	65.84	548.59	0.23	1.14	6,837,785.77	506,333.55	61° 40' 18.387 N	3° 7' 10.670 E	
585.00	0.96	58.45	584.99	0.51	1.66	6,837,786.05	506,334.07	61° 40' 18.396 N	3° 7' 10.706 E	
621.80	0.94	49.09	621.78	0.87	2.15	6,837,786.41	506,334.56	61° 40' 18.408 N	3° 7' 10.739 E	
658.30	0.99	49.76	658.28	1.27	2.62	6,837,786.81	506,335.03	61° 40' 18.421 N	3° 7' 10.771 E	
695.30	1.00	50.99	695.27	1.68	3.11	6,837,787.22	506,335.53	61° 40' 18.434 N	3° 7' 10.805 E	
736.90	1.00	48.67	736.87	2.15	3.67	6,837,787.69	506,336.08	61° 40' 18.449 N	3° 7' 10.843 E	
768.40	0.89	48.08	768.36	2.49	4.06	6,837,788.03	506,336.47	61° 40' 18.460 N	3° 7' 10.869 E	



## Final Well Report for exploration well Laushornet 35/4-3

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### Survey Report - Geographic

<b>Company:</b>	AKER BP	<b>Local Co-ordinate Reference:</b>	Site 35/04-U-2 [Shallow Gas PH]
<b>Project:</b>	Quadrant 0035	<b>TVD Reference:</b>	RKB @ 32.65m (RT)
<b>Site:</b>	35/04-U-2 [Shallow Gas PH]	<b>MD Reference:</b>	RKB @ 32.65m (RT)
<b>Well:</b>	35/4-U-2	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	35/4-U-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	35/4-U-2	<b>Database:</b>	AkerBP EDM PROD

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Map Northing (m)	Map Easting (m)	Latitude	Longitude	
805.90	0.96	48.88	805.86	2.89	4.51	6,837,788.43	506,336.92	61° 40' 18.473 N	3° 7' 10.900 E	
842.70	1.01	48.26	842.65	3.31	4.98	6,837,788.85	506,337.40	61° 40' 18.487 N	3° 7' 10.932 E	
879.00	1.09	48.88	878.95	3.75	5.48	6,837,789.29	506,337.89	61° 40' 18.501 N	3° 7' 10.966 E	
915.50	1.16	54.34	915.44	4.19	6.04	6,837,789.73	506,338.46	61° 40' 18.515 N	3° 7' 11.004 E	
951.30	1.11	50.42	951.23	4.63	6.61	6,837,790.17	506,339.02	61° 40' 18.529 N	3° 7' 11.043 E	
987.60	1.02	48.47	987.53	5.06	7.12	6,837,790.60	506,339.53	61° 40' 18.543 N	3° 7' 11.077 E	
1,023.90	1.02	46.53	1,023.82	5.50	7.59	6,837,791.04	506,340.01	61° 40' 18.557 N	3° 7' 11.110 E	
1,060.10	0.95	40.25	1,060.01	5.95	8.02	6,837,791.49	506,340.43	61° 40' 18.572 N	3° 7' 11.139 E	
1,098.30	1.05	53.20	1,098.21	6.40	8.51	6,837,791.94	506,340.92	61° 40' 18.586 N	3° 7' 11.172 E	
1,134.60	1.05	50.90	1,134.50	6.81	9.03	6,837,792.35	506,341.44	61° 40' 18.600 N	3° 7' 11.208 E	
1,141.30	1.00	50.00	1,141.20	6.89	9.12	6,837,792.43	506,341.53	61° 40' 18.602 N	3° 7' 11.214 E	
1,163.00	1.00	50.00	1,162.90	7.13	9.41	6,837,792.67	506,341.82	61° 40' 18.610 N	3° 7' 11.234 E	

Design Annotations					
Measured Depth (m)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Comment	
1,163.00	1,162.90	7.13	9.41	Proj to TD	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**35/4-3 Laushornet:**

**AKER BP**

Quadrant 0035

35/04-3 [Laushornet]

35/4-3

35/4-3

Design: 35/4-3

**Survey Report - Geographic**

11 mai, 2022



## Final Well Report for exploration well Laushornet 35/4-3

Version: Draft  
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### Survey Report - Geographic

<b>Company:</b>	AKER BP	<b>Local Co-ordinate Reference:</b>	Site 35/04-3 [Laushornet]
<b>Project:</b>	Quadrant 0035	<b>TVD Reference:</b>	RKB @ 32.65m (RT)
<b>Site:</b>	35/04-3 [Laushornet]	<b>MD Reference:</b>	RKB @ 32.65m (RT)
<b>Well:</b>	35/4-3	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	35/4-3	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	35/4-3	<b>Database:</b>	AkerBP EDM PROD

<b>Project</b>	Quadrant 0035, Quadrant 35		
<b>Map System:</b>	Offshore Norway UTM South of 62 Deg ED50° EPSG-Nor S62 2001 [4230*1613]	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>			
<b>Map Zone:</b>	ED50° EPSG-Nor S62 2001 / UTM 31N [23031*1613]	Using geodetic scale factor	

<b>Site</b>	35/04-3 [Laushornet], 35/4				
<b>Site Position:</b>	<b>Northing:</b>	6,837,802.31 m	<b>Latitude:</b>	61° 40' 18.923 N	
<b>From:</b>	<b>Easting:</b>	506,313.71 m	<b>Longitude:</b>	3° 7' 9.323 E	
<b>Position Uncertainty:</b>	0.00 m	<b>Slot Radius:</b>	21.000 in	<b>Grid Convergence:</b>	0.10 °

<b>Well</b>	35/4-3					
<b>Well Position</b>	<b>+N/-S</b>	0.00 m	<b>Northing:</b>	6,837,802.31 m	<b>Latitude:</b>	61° 40' 18.923 N
	<b>+E/-W</b>	0.00 m	<b>Easting:</b>	506,313.71 m	<b>Longitude:</b>	3° 7' 9.323 E
<b>Position Uncertainty</b>		2.05 m	<b>Wellhead Depth:</b>	398.55 m	<b>Water Depth:</b>	398.55 m

<b>Wellbore</b>	35/4-3				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b> (°)	<b>Dip Angle</b> (°)	<b>Field Strength</b> (nT)
	BGGM_CURRENT	30.04.2022	1.13	73.65	51,567.80000000

<b>Design</b>	35/4-3			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD)</b> (m)	<b>+N/-S</b> (m)	<b>+E/-W</b> (m)	<b>Direction</b> (°)
	0.00	0.00	0.00	49.75

<b>Survey Program</b>	<b>Date</b>	06.05.2022			
<b>From</b> (m)	<b>To</b> (m)	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
431.20	497.10	36"x42" Sperry Drilling MWD+IFR1+AX (35	2_MWD+IFR1+AX	A006Mb: IFR dec & axial corrections	
510.30	1,146.20	26" Sperry Drilling MWD+IFR1+AX (35/4-3	2_MWD+IFR1+AX	A006Mb: IFR dec & axial corrections	
1,205.20	3,064.10	16 1/2" Sperry Drilling MWD+IFR1+MS (35	2_MWD+IFR1+MS	A008Mb: IFR dec & multi-station analysis	
3,098.40	4,122.90	12 1/4" Sperry Drilling MWD+IFR1+MS (35	2_MWD+IFR1+MS	A008Mb: IFR dec & multi-station analysis	
4,162.80	4,657.00	8 1/2" Sperry Drilling MWD+IFR1+AX (35/4	2_MWD+IFR1+AX	A006Mb: IFR dec & axial corrections	

<b>Survey</b>										
<b>Measured Depth</b> (m)	<b>Inclination</b> (°)	<b>Azimuth</b> (°)	<b>Vertical Depth</b> (m)	<b>+N/-S</b> (m)	<b>+E/-W</b> (m)	<b>Map Northing</b> (m)	<b>Map Easting</b> (m)	<b>Latitude</b>	<b>Longitude</b>	
0.00	0.00	0.00	0.00	0.00	0.00	6,837,802.31	506,313.71	61° 40' 18.923 N	3° 7' 9.323 E	
431.20	0.00	0.00	431.20	0.00	0.00	6,837,802.31	506,313.71	61° 40' 18.923 N	3° 7' 9.323 E	
439.80	0.39	289.92	439.80	0.01	-0.03	6,837,802.32	506,313.68	61° 40' 18.923 N	3° 7' 9.321 E	
450.10	0.77	176.47	450.10	-0.05	-0.06	6,837,802.26	506,313.65	61° 40' 18.921 N	3° 7' 9.319 E	
456.60	0.39	122.32	456.60	-0.10	-0.03	6,837,802.21	506,313.67	61° 40' 18.920 N	3° 7' 9.321 E	
466.90	0.66	262.10	466.90	-0.13	-0.06	6,837,802.18	506,313.64	61° 40' 18.919 N	3° 7' 9.319 E	
476.10	0.40	194.48	476.10	-0.17	-0.12	6,837,802.14	506,313.58	61° 40' 18.918 N	3° 7' 9.315 E	
492.60	0.57	160.16	492.60	-0.30	-0.11	6,837,802.01	506,313.60	61° 40' 18.913 N	3° 7' 9.315 E	



Final Well Report for exploration well  
Laushornet 35/4-3

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Survey Report - Geographic

<b>Company:</b>	AKER BP	<b>Local Co-ordinate Reference:</b>	Site 35/04-3 [Laushornet]
<b>Project:</b>	Quadrant 0035	<b>TVD Reference:</b>	RKB @ 32.65m (RT)
<b>Site:</b>	35/04-3 [Laushornet]	<b>MD Reference:</b>	RKB @ 32.65m (RT)
<b>Well:</b>	35/4-3	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	35/4-3	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	35/4-3	<b>Database:</b>	AkerBP EDM PROD

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Map Northing (m)	Map Easting (m)	Latitude	Longitude	
497.10	0.50	152.20	497.10	-0.34	-0.09	6,837,801.97	506,313.61	61° 40' 18.912 N	3° 7' 9.317 E	
510.30	0.66	129.03	510.30	-0.44	-0.01	6,837,801.87	506,313.70	61° 40' 18.909 N	3° 7' 9.322 E	
565.80	1.19	133.96	565.79	-1.04	0.65	6,837,801.27	506,314.36	61° 40' 18.889 N	3° 7' 9.367 E	
637.40	1.20	156.84	637.37	-2.24	1.48	6,837,800.07	506,315.19	61° 40' 18.850 N	3° 7' 9.424 E	
715.30	0.80	174.45	715.26	-3.54	1.86	6,837,798.78	506,315.56	61° 40' 18.809 N	3° 7' 9.449 E	
784.10	0.67	160.93	784.06	-4.39	2.04	6,837,797.92	506,315.74	61° 40' 18.781 N	3° 7' 9.461 E	
825.60	0.53	179.86	825.56	-4.82	2.12	6,837,797.50	506,315.82	61° 40' 18.767 N	3° 7' 9.466 E	
895.80	0.67	162.87	895.75	-5.53	2.24	6,837,796.78	506,315.94	61° 40' 18.744 N	3° 7' 9.474 E	
929.80	0.48	172.67	929.75	-5.86	2.31	6,837,796.45	506,316.02	61° 40' 18.733 N	3° 7' 9.480 E	
1,002.50	0.57	169.35	1,002.45	-6.52	2.42	6,837,795.79	506,316.13	61° 40' 18.712 N	3° 7' 9.487 E	
1,038.50	0.48	192.58	1,038.45	-6.84	2.42	6,837,795.47	506,316.13	61° 40' 18.702 N	3° 7' 9.487 E	
1,110.70	0.43	159.04	1,110.64	-7.39	2.45	6,837,794.92	506,316.16	61° 40' 18.684 N	3° 7' 9.489 E	
1,146.20	0.26	158.02	1,146.14	-7.59	2.53	6,837,794.72	506,316.23	61° 40' 18.678 N	3° 7' 9.494 E	
1,205.20	0.15	221.75	1,205.14	-7.77	2.53	6,837,794.54	506,316.23	61° 40' 18.672 N	3° 7' 9.494 E	
1,241.90	0.31	208.92	1,241.84	-7.90	2.45	6,837,794.42	506,316.15	61° 40' 18.668 N	3° 7' 9.488 E	
1,278.30	0.32	197.04	1,278.24	-8.08	2.37	6,837,794.23	506,316.08	61° 40' 18.662 N	3° 7' 9.483 E	
1,314.90	0.33	213.34	1,314.84	-8.27	2.28	6,837,794.05	506,315.99	61° 40' 18.656 N	3° 7' 9.477 E	
1,351.50	0.06	241.17	1,351.44	-8.36	2.21	6,837,793.95	506,315.91	61° 40' 18.653 N	3° 7' 9.472 E	
1,387.70	0.09	95.63	1,387.64	-8.37	2.22	6,837,793.94	506,315.92	61° 40' 18.652 N	3° 7' 9.473 E	
1,424.40	0.10	27.84	1,424.34	-8.35	2.26	6,837,793.96	506,315.97	61° 40' 18.653 N	3° 7' 9.476 E	
1,460.20	0.09	245.06	1,460.14	-8.33	2.25	6,837,793.98	506,315.96	61° 40' 18.654 N	3° 7' 9.475 E	
1,493.40	0.11	123.15	1,493.34	-8.36	2.26	6,837,793.95	506,315.96	61° 40' 18.653 N	3° 7' 9.475 E	
1,531.90	0.06	110.96	1,531.84	-8.39	2.30	6,837,793.92	506,316.01	61° 40' 18.652 N	3° 7' 9.479 E	
1,568.50	0.06	88.55	1,568.44	-8.40	2.34	6,837,793.92	506,316.05	61° 40' 18.652 N	3° 7' 9.481 E	
1,605.00	0.13	295.45	1,604.94	-8.38	2.32	6,837,793.94	506,316.03	61° 40' 18.652 N	3° 7' 9.480 E	
1,641.70	0.07	92.91	1,641.64	-8.36	2.31	6,837,793.95	506,316.01	61° 40' 18.653 N	3° 7' 9.479 E	
1,678.10	0.23	54.44	1,678.04	-8.32	2.39	6,837,793.99	506,316.10	61° 40' 18.654 N	3° 7' 9.484 E	
1,714.70	0.19	50.78	1,714.64	-8.24	2.50	6,837,794.08	506,316.20	61° 40' 18.657 N	3° 7' 9.492 E	
1,751.00	0.06	188.33	1,750.94	-8.22	2.54	6,837,794.09	506,316.25	61° 40' 18.657 N	3° 7' 9.495 E	
1,787.50	0.09	315.75	1,787.44	-8.22	2.52	6,837,794.10	506,316.22	61° 40' 18.657 N	3° 7' 9.493 E	
1,824.20	0.06	0.94	1,824.14	-8.18	2.50	6,837,794.14	506,316.20	61° 40' 18.659 N	3° 7' 9.492 E	
1,860.80	0.04	226.67	1,860.74	-8.17	2.49	6,837,794.15	506,316.19	61° 40' 18.659 N	3° 7' 9.491 E	
1,933.90	0.04	345.17	1,933.84	-8.16	2.46	6,837,794.15	506,316.17	61° 40' 18.659 N	3° 7' 9.489 E	
1,969.90	0.04	57.99	1,969.84	-8.14	2.47	6,837,794.17	506,316.18	61° 40' 18.660 N	3° 7' 9.490 E	
2,006.20	0.06	354.98	2,006.14	-8.12	2.48	6,837,794.20	506,316.19	61° 40' 18.661 N	3° 7' 9.491 E	
2,079.40	0.00	63.17	2,079.34	-8.08	2.48	6,837,794.24	506,316.18	61° 40' 18.662 N	3° 7' 9.490 E	
2,115.90	0.03	132.05	2,115.84	-8.08	2.48	6,837,794.23	506,316.19	61° 40' 18.662 N	3° 7' 9.491 E	
2,152.00	0.09	22.33	2,151.94	-8.06	2.50	6,837,794.25	506,316.21	61° 40' 18.662 N	3° 7' 9.492 E	
2,190.20	0.03	59.65	2,190.14	-8.03	2.52	6,837,794.28	506,316.23	61° 40' 18.663 N	3° 7' 9.493 E	
2,226.90	0.09	77.74	2,226.84	-8.02	2.56	6,837,794.29	506,316.26	61° 40' 18.664 N	3° 7' 9.496 E	
2,263.60	0.03	27.05	2,263.54	-8.01	2.59	6,837,794.31	506,316.30	61° 40' 18.664 N	3° 7' 9.498 E	
2,299.80	0.07	97.16	2,299.74	-8.00	2.62	6,837,794.31	506,316.32	61° 40' 18.664 N	3° 7' 9.500 E	
2,335.40	0.06	333.74	2,335.34	-7.99	2.63	6,837,794.33	506,316.34	61° 40' 18.665 N	3° 7' 9.501 E	
2,372.00	0.11	354.98	2,371.94	-7.93	2.62	6,837,794.38	506,316.32	61° 40' 18.667 N	3° 7' 9.500 E	
2,444.50	0.12	333.48	2,444.44	-7.80	2.58	6,837,794.52	506,316.28	61° 40' 18.671 N	3° 7' 9.497 E	
2,480.60	0.11	250.19	2,480.54	-7.77	2.53	6,837,794.54	506,316.23	61° 40' 18.672 N	3° 7' 9.494 E	
2,517.20	0.07	211.41	2,517.14	-7.80	2.49	6,837,794.51	506,316.19	61° 40' 18.671 N	3° 7' 9.491 E	
2,553.40	0.03	91.99	2,553.34	-7.82	2.48	6,837,794.49	506,316.19	61° 40' 18.670 N	3° 7' 9.491 E	
2,588.50	0.13	314.92	2,588.44	-7.80	2.46	6,837,794.52	506,316.17	61° 40' 18.671 N	3° 7' 9.490 E	
2,623.10	0.04	263.72	2,623.04	-7.77	2.42	6,837,794.54	506,316.13	61° 40' 18.672 N	3° 7' 9.487 E	
2,659.30	0.10	297.30	2,659.24	-7.76	2.38	6,837,794.56	506,316.09	61° 40' 18.672 N	3° 7' 9.484 E	
2,695.10	0.07	37.33	2,695.04	-7.72	2.37	6,837,794.59	506,316.07	61° 40' 18.673 N	3° 7' 9.483 E	
2,731.70	0.04	277.64	2,731.64	-7.71	2.37	6,837,794.61	506,316.08	61° 40' 18.674 N	3° 7' 9.483 E	
2,768.40	0.07	290.54	2,768.34	-7.70	2.34	6,837,794.62	506,316.04	61° 40' 18.674 N	3° 7' 9.481 E	
2,805.10	0.06	3.76	2,805.04	-7.67	2.32	6,837,794.64	506,316.02	61° 40' 18.675 N	3° 7' 9.480 E	



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Survey Report - Geographic

<b>Company:</b>	AKER BP	<b>Local Co-ordinate Reference:</b>	Site 35/04-3 [Laushornet]
<b>Project:</b>	Quadrant 0035	<b>TVD Reference:</b>	RKB @ 32.65m (RT)
<b>Site:</b>	35/04-3 [Laushornet]	<b>MD Reference:</b>	RKB @ 32.65m (RT)
<b>Well:</b>	35/4-3	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	35/4-3	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	35/4-3	<b>Database:</b>	AkerBP EDM PROD

Survey										
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Map Northing (m)	Map Easting (m)	Latitude	Longitude	
2,842.60	0.13	312.51	2,842.54	-7.62	2.29	6,837,794.69	506,315.99	61° 40' 18.677 N	3° 7' 9.477 E	
2,881.30	0.04	36.79	2,881.24	-7.58	2.26	6,837,794.73	506,315.97	61° 40' 18.678 N	3° 7' 9.476 E	
2,953.60	0.09	33.68	2,953.54	-7.51	2.31	6,837,794.80	506,316.01	61° 40' 18.680 N	3° 7' 9.479 E	
2,991.00	0.04	288.91	2,990.94	-7.48	2.31	6,837,794.83	506,316.02	61° 40' 18.681 N	3° 7' 9.479 E	
3,064.10	0.10	27.53	3,064.04	-7.42	2.32	6,837,794.89	506,316.02	61° 40' 18.683 N	3° 7' 9.480 E	
3,098.40	0.20	58.24	3,098.34	-7.36	2.38	6,837,794.95	506,316.09	61° 40' 18.685 N	3° 7' 9.484 E	
3,134.20	0.41	25.97	3,134.14	-7.21	2.49	6,837,795.10	506,316.20	61° 40' 18.690 N	3° 7' 9.491 E	
3,171.20	0.25	47.62	3,171.14	-7.04	2.61	6,837,795.27	506,316.31	61° 40' 18.695 N	3° 7' 9.500 E	
3,207.80	0.19	19.71	3,207.74	-6.93	2.69	6,837,795.38	506,316.39	61° 40' 18.699 N	3° 7' 9.505 E	
3,244.10	0.11	18.81	3,244.04	-6.84	2.72	6,837,795.47	506,316.43	61° 40' 18.702 N	3° 7' 9.507 E	
3,280.80	0.11	24.18	3,280.74	-6.77	2.75	6,837,795.54	506,316.45	61° 40' 18.704 N	3° 7' 9.509 E	
3,318.40	0.11	319.73	3,318.34	-6.71	2.74	6,837,795.60	506,316.44	61° 40' 18.706 N	3° 7' 9.508 E	
3,391.10	0.20	51.92	3,391.04	-6.58	2.79	6,837,795.73	506,316.50	61° 40' 18.710 N	3° 7' 9.512 E	
3,427.90	0.09	100.13	3,427.84	-6.55	2.87	6,837,795.77	506,316.58	61° 40' 18.711 N	3° 7' 9.517 E	
3,501.20	0.15	65.74	3,501.14	-6.52	3.02	6,837,795.79	506,316.72	61° 40' 18.712 N	3° 7' 9.527 E	
3,537.60	0.22	37.20	3,537.54	-6.44	3.10	6,837,795.87	506,316.81	61° 40' 18.715 N	3° 7' 9.533 E	
3,574.20	0.33	17.11	3,574.14	-6.29	3.18	6,837,796.03	506,316.88	61° 40' 18.720 N	3° 7' 9.538 E	
3,612.20	0.23	63.54	3,612.14	-6.15	3.28	6,837,796.17	506,316.98	61° 40' 18.724 N	3° 7' 9.545 E	
3,647.90	0.28	93.21	3,647.84	-6.12	3.43	6,837,796.19	506,317.13	61° 40' 18.725 N	3° 7' 9.555 E	
3,684.70	0.25	77.45	3,684.63	-6.11	3.59	6,837,796.20	506,317.30	61° 40' 18.725 N	3° 7' 9.567 E	
3,721.50	0.07	95.21	3,721.43	-6.09	3.70	6,837,796.22	506,317.40	61° 40' 18.726 N	3° 7' 9.573 E	
3,757.90	0.32	85.69	3,757.83	-6.09	3.82	6,837,796.23	506,317.52	61° 40' 18.726 N	3° 7' 9.582 E	
3,794.80	0.31	120.56	3,794.73	-6.13	4.01	6,837,796.18	506,317.71	61° 40' 18.725 N	3° 7' 9.595 E	
3,830.20	0.25	87.59	3,830.13	-6.18	4.17	6,837,796.14	506,317.87	61° 40' 18.723 N	3° 7' 9.605 E	
3,866.70	0.07	345.69	3,866.63	-6.15	4.24	6,837,796.16	506,317.95	61° 40' 18.724 N	3° 7' 9.611 E	
3,904.80	0.09	45.14	3,904.73	-6.11	4.26	6,837,796.21	506,317.96	61° 40' 18.725 N	3° 7' 9.612 E	
3,941.00	0.22	72.09	3,940.93	-6.07	4.34	6,837,796.25	506,318.05	61° 40' 18.727 N	3° 7' 9.617 E	
3,977.40	0.28	115.68	3,977.33	-6.08	4.49	6,837,796.23	506,318.19	61° 40' 18.726 N	3° 7' 9.627 E	
4,013.50	0.23	7.46	4,013.43	-6.05	4.58	6,837,796.26	506,318.28	61° 40' 18.727 N	3° 7' 9.633 E	
4,086.80	0.22	345.38	4,086.73	-5.77	4.56	6,837,796.55	506,318.27	61° 40' 18.736 N	3° 7' 9.632 E	
4,122.90	0.06	133.62	4,122.83	-5.71	4.56	6,837,796.60	506,318.26	61° 40' 18.738 N	3° 7' 9.632 E	
4,162.80	0.39	29.64	4,162.73	-5.61	4.64	6,837,796.70	506,318.35	61° 40' 18.742 N	3° 7' 9.638 E	
4,201.90	0.89	26.97	4,201.83	-5.22	4.84	6,837,797.09	506,318.55	61° 40' 18.754 N	3° 7' 9.652 E	
4,239.50	1.13	26.36	4,239.42	-4.63	5.14	6,837,797.68	506,318.85	61° 40' 18.773 N	3° 7' 9.672 E	
4,277.00	1.58	31.70	4,276.91	-3.86	5.58	6,837,798.45	506,319.28	61° 40' 18.798 N	3° 7' 9.702 E	
4,315.90	2.14	37.36	4,315.79	-2.83	6.30	6,837,799.49	506,320.00	61° 40' 18.831 N	3° 7' 9.751 E	
4,353.80	2.31	40.43	4,353.66	-1.68	7.22	6,837,800.63	506,320.93	61° 40' 18.868 N	3° 7' 9.814 E	
4,392.10	2.43	39.24	4,391.93	-0.47	8.24	6,837,801.84	506,321.94	61° 40' 18.907 N	3° 7' 9.883 E	
4,430.30	3.36	34.41	4,430.08	1.09	9.38	6,837,803.40	506,323.09	61° 40' 18.958 N	3° 7' 9.961 E	
4,468.40	3.68	33.43	4,468.11	3.03	10.69	6,837,805.34	506,324.39	61° 40' 19.020 N	3° 7' 10.050 E	
4,505.90	3.75	32.55	4,505.53	5.07	12.01	6,837,807.37	506,325.71	61° 40' 19.086 N	3° 7' 10.140 E	
4,558.30	3.64	30.98	4,557.82	7.94	13.79	6,837,810.24	506,327.49	61° 40' 19.179 N	3° 7' 10.261 E	
4,582.10	3.55	31.16	4,581.58	9.21	14.56	6,837,811.52	506,328.26	61° 40' 19.220 N	3° 7' 10.314 E	
4,657.00	3.45	31.67	4,656.34	13.12	16.94	6,837,815.42	506,330.64	61° 40' 19.346 N	3° 7' 10.476 E	
4,707.10	3.45	31.67	4,706.34	15.68	18.53	6,837,817.99	506,332.22	61° 40' 19.428 N	3° 7' 10.584 E	



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### Survey Report - Geographic

<b>Company:</b>	AKER BP	<b>Local Co-ordinate Reference:</b>	Site 35/04-3 [Laushornet]
<b>Project:</b>	Quadrant 0035	<b>TVD Reference:</b>	RKB @ 32.65m (RT)
<b>Site:</b>	35/04-3 [Laushornet]	<b>MD Reference:</b>	RKB @ 32.65m (RT)
<b>Well:</b>	35/4-3	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	35/4-3	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	35/4-3	<b>Database:</b>	AkerBP EDM PROD

Casing Points					
Measured Depth (m)	Vertical Depth (m)	Name	Casing Diameter (in)	Hole Diameter (in)	
505.13	505.12	CONDUCTOR 1	30.000	30.000	
1,156.21	1,156.15	SURFACE CASING	20.000	26.000	
3,081.29	3,081.23	INTERMEDIATE CASING 1	13.625	13.625	
4,140.62	4,140.55	PRODUCTION CASING 1	9.875	12.250	

Formations						
Measured Depth (m)	Vertical Depth (m)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,716.00		Cook Fm				
4,834.00		Burton Fm				
432.00	432.00	Nordland Gp Undiff.				
1,353.00	1,352.94	Hordaland Gp Undiff.				
1,917.00	1,916.94	Balder Fm				
2,070.00	2,069.94	Jorsalfare				
2,222.00	2,221.94	Kyrre Fm				
3,340.00	3,339.94	Tryggvasson				
3,760.00	3,759.93	Rødby Fm				
4,088.00	4,087.93	Heather Fm				
4,266.00	4,265.92	Rannoch Fm				
4,450.00	4,449.75	Drake Fm				

Design Annotations					
Measured Depth (m)	Vertical Depth (m)	Local Coordinates		Comment	
		+N/-S (m)	+E/-W (m)		
4,707.10	4,706.34	15.68	18.53	Projection to bit	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



## 6.6 Service companies

Table 6.1 Service companies

Service	Company
Wellhead systems	BHGE
Casing running	Odfjell Technology
Project Manager	Halliburton
Cementing Engineer	Halliburton
Cementing service, materials and equipment	Halliburton
Well Planner	Halliburton
Engineering support – simulations	Halliburton
Drilling and completion fluids	Halliburton
Waste management and solids control	Halliburton
Drilling solutions coordinator	Halliburton
MWD/LWD	Halliburton
Directional drilling, MWD/LWD, coring	Halliburton
Drill bits	Halliburton
Wireline	Schlumberger
Fishing services	BHGE
Surface data logging	Halliburton
MLT system	N/A
Versaflex, LH & tieback	Halliburton
Liner Hangers Engineer	Halliburton





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## 6.8 Operations listing

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Daily Summary Report						
Common Well Name: 35/4-U-2					AFE No	
Event Type: DRILLING (DNW)		Start Date: 04.04.2022		End Date: 07.04.2022		No AFE Associated
Project: Quadrant 0035		Site: 35/04-U-2 [Shallow Gas PH]			Operator: AKER BP	
Rig Name/No.: DEEPSEA NORDKAPP		Spud Date/Time: 06.04.2022 00:00:00			Rig Release: 07.04.2022	
Rig Contractor: ODFJELL DRILLING					Internal Well ID:	
Active datum: RKB @32.65m (above Mean Sea Level)						
<b>Date:</b>	04.04.2022	<b>24 Hr Summary:</b>	Started reporting on 35/4-U-2 Laushornet after exiting 25/10-U-8 Hanz 500m zone at 01:30 hrs. Moved rig towards Laushornet location (sailed 67/160 nm). Meanwhile performed			
<b>RPT No.:</b>	1	<b>Update at 06:00:</b>	Moving rig towards Laushornet location (sailed 85/160 nm).			
<b>Depth:</b>	0.00 (m)	<b>Day DSV:</b>	Neil Slater			
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>				
<b>Date:</b>	05.04.2022	<b>24 Hr Summary:</b>	Moved rig towards Laushornet location (sailed 140/160 nm). Meanwhile performed IBWM.			
<b>RPT No.:</b>	2	<b>Update at 06:00:</b>	Moving rig towards Laushornet location (sailed 155/160 nm).			
<b>Depth:</b>	0.00 (m)	<b>Day DSV:</b>	Neil Slater			
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>				
<b>Date:</b>	06.04.2022	<b>24 Hr Summary:</b>	Arrived Laushornet 500m zone at 07:00 hrs. Performed DP trials. Finalized IBWM and prepared for spud.			
<b>RPT No.:</b>	3	<b>Update at 06:00:</b>	Drilling pilot hole at 498 m			
<b>Depth:</b>	0.00 (m)	<b>Day DSV:</b>	Neil Slater			
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>				
<b>Date:</b>	07.04.2022	<b>24 Hr Summary:</b>	Spudded 8 1/2" shallow gas pilot hole and drilled to TD, no shallow gas observed. P&A pilot hole.			
<b>RPT No.:</b>	4	<b>Update at 06:00:</b>	Neil Slater			
<b>Depth:</b>	0.00 (m)	<b>Day DSV:</b>	Neil Slater			
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>				
<b>MUD WT:</b>	1.030 (sg)	<b>PV:</b>	5 (cp)	<b>YP:</b>	5 (Pa)	<b>API WL:</b> 0.0 (ml/30 min)



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Daily Summary Report				
Common Well Name: 35/4-3			AFE No	
Event Type: DRILLING (DNW)	Start Date: 04.04.2022	End Date: 17.05.2022	No AFE Associated	
Project: Quadrant 0035	Site: 35/04-3 [Laushornet]		Operator: AKER BP	
Rig Name/No.: DEEPSEA NORDKAPP	Spud Date/Time: 08.04.2022 04:15:00		Rig Release: 17.05.2022	
Rig Contractor: ODFJELL DRILLING			Internal Well ID:	
Active datum: RKB @32.65m (above Mean Sea Level)				
<b>Date:</b>	08.04.2022	<b>24 Hr Summary:</b>	Picked up and RIH with Spud BHA. Spuded well. Drilled 17 1/2" x 26" x 36" x 42" top hole to 509 m and POOH. Rigged up and started running conductor.	
<b>RPT No.:</b>	1	<b>Update at 06:00:</b>	Circulating conductor prior to cement job.	
<b>Depth:</b>	509.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.400 (sg)	<b>PV:</b>	5 (cp)	<b>YP:</b> 5 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	09.04.2022	<b>24 Hr Summary:</b>	Run and cement conductor. Drill 26" section.	
<b>RPT No.:</b>	2	<b>Update at 06:00:</b>	Drilling 26" section at 655 m.	
<b>Depth:</b>	516.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.030 (sg)	<b>PV:</b>	5 (cp)	<b>YP:</b> 11 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	10.04.2022	<b>24 Hr Summary:</b>	Drilled 26" Section to TD at 1163 m.	
<b>RPT No.:</b>	3	<b>Update at 06:00:</b>		
<b>Depth:</b>	1,163.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.030 (sg)	<b>PV:</b>	5 (cp)	<b>YP:</b> 11 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	11.04.2022	<b>24 Hr Summary:</b>	POOH and L/D 26" BHA. Clean around LPWHH, R/U and run 20" Casing to 500m.	
<b>RPT No.:</b>	4	<b>Update at 06:00:</b>	Made up cement head and prepared for landing 20" casing subsea.	
<b>Depth:</b>	1,163.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.400 (sg)	<b>PV:</b>	5 (cp)	<b>YP:</b> 11 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	12.04.2022	<b>24 Hr Summary:</b>	Cement 20" casing. R/U to run BOP and complete anchor handling.	
<b>RPT No.:</b>	5	<b>Update at 06:00:</b>	Testing BOP connections below sea level.	
<b>Depth:</b>	1,163.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.030 (sg)	<b>PV:</b>	5 (cp)	<b>YP:</b> 11 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	13.04.2022	<b>24 Hr Summary:</b>	Run BOP and riser. Land BOP on WH.	
<b>RPT No.:</b>	6	<b>Update at 06:00:</b>	R/D BOP running equipment.	
<b>Depth:</b>	1,163.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.030 (sg)	<b>PV:</b>	5 (cp)	<b>YP:</b> 11 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	14.04.2022	<b>24 Hr Summary:</b>	R/D BOP running equipment. Tested WH connector. P/U 16 1/2" BHA and RIH. Displaced to OBM and started drilling cement.	
<b>RPT No.:</b>	7	<b>Update at 06:00:</b>	Drilling 16 1/2" section at 1174 m.	
<b>Depth:</b>	1,163.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.400 (sg)	<b>PV:</b>	23 (cp)	<b>YP:</b> 5 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	15.04.2022	<b>24 Hr Summary:</b>	Drilled 20" shoe track and 3 m new formation from 1163 m to 1166 m. Performed LOT to 1.61 sg EMW. Drilled 16 1/2" section from 1166 m to 2139 m.	
<b>RPT No.:</b>	8	<b>Update at 06:00:</b>	Drilling ahead at 2433 m.	
<b>Depth:</b>	2,139.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.400 (sg)	<b>PV:</b>	26 (cp)	<b>YP:</b> 7 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	16.04.2022	<b>24 Hr Summary:</b>	Drilled 16 1/2" section from 2139 m to 3079 m.	
<b>RPT No.:</b>	9	<b>Update at 06:00:</b>	POOH with 16 1/2" BHA.	
<b>Depth:</b>	3,088.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.400 (sg)	<b>PV:</b>	28 (cp)	<b>YP:</b> 7 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	17.04.2022	<b>24 Hr Summary:</b>	POOH and L/D 16 1/2" BHA. Pulled NSP. R/U for running 13 5/8" casing and RIH with casing to 1850 m.	
<b>RPT No.:</b>	10	<b>Update at 06:00:</b>	Run 13 5/8" casing on landing string.	
<b>Depth:</b>	3,088.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.400 (sg)	<b>PV:</b>	26 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)



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Daily Summary Report				
Common Well Name: 35/4-3			AFE No	
Event Type: DRILLING (DNW)	Start Date: 04.04.2022	End Date: 17.05.2022	No AFE Associated	
Project: Quadrant 0035	Site: 35/04-3 [Laushornet]		Operator: AKER BP	
Rig Name/No.: DEEPSEA NORDKAPP	Spud Date/Time: 08.04.2022 04:15:00		Rig Release: 17.05.2022	
Rig Contractor: ODFJELL DRILLING			Internal Well ID:	
Active datum: RKB @32.65m (above Mean Sea Level)				
<b>Date:</b>	18.04.2022	<b>24 Hr Summary:</b>	Ran and cemented 13 5/8" casing. Set 13 5/8" wear bushing. RIH with 12 1/4" BHA. Tested 13 5/8" casing to 455 bar.	
<b>RPT No.:</b>	11	<b>Update at 06:00:</b>	Drilling 13 5/8" shoe track.	
<b>Depth:</b>	3,088.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.400 (sg)	<b>PV:</b>	26 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	19.04.2022	<b>24 Hr Summary:</b>	RIH with 12 1/4" BHA. Drilled out shoetrack while displacing to 1.65 sg OBM. Drilled 3 m and performed LOT to 1.88 sg EMW. Drilled 12 1/4" section to 3527 m.	
<b>RPT No.:</b>	12	<b>Update at 06:00:</b>	Drilling 12 1/4" section at 3730 m	
<b>Depth:</b>	3,527.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.640 (sg)	<b>PV:</b>	33 (cp)	<b>YP:</b> 7 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	20.04.2022	<b>24 Hr Summary:</b>	Drilled 12 1/4" section to TD at 4146 m. Circulated clean.	
<b>RPT No.:</b>	13	<b>Update at 06:00:</b>	POOH with BHA inside 13 5/8" casing.	
<b>Depth:</b>	4,146.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.650 (sg)	<b>PV:</b>	33 (cp)	<b>YP:</b> 8 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	21.04.2022	<b>24 Hr Summary:</b>	Circulated 12 1/4" hole clean and POOH. Retrieved 13 5/8" wear bushing. R/U and ran 9 7/8" casing to 3300 m.	
<b>RPT No.:</b>	14	<b>Update at 06:00:</b>	Pumping spacer	
<b>Depth:</b>	4,146.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.650 (sg)	<b>PV:</b>	33 (cp)	<b>YP:</b> 8 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	22.04.2022	<b>24 Hr Summary:</b>	Ran and cemented 9 7/8" casing. Changed saver sub to 5" NC50. Ran and set 9 7/8" WB, observed leak on WBRRT when testing against annular. POOH with WBRRT.	
<b>RPT No.:</b>	15	<b>Update at 06:00:</b>	Pulling EDPHOT assy to surface for inspection.	
<b>Depth:</b>	4,146.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.650 (sg)	<b>PV:</b>	33 (cp)	<b>YP:</b> 8 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	23.04.2022	<b>24 Hr Summary:</b>	Ran PTTT/EDPHOT assy and pressure tested BOP. Unable to release EDPHOT for BSR test, EDPHOT/PTTT dropped in hole while retrieving to surface for inspection. Ran in to retrieve RIH with 8 1/2" BHA at 2202 m.	
<b>RPT No.:</b>	16	<b>Update at 06:00:</b>	Tim Hague	
<b>Depth:</b>	4,146.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.650 (sg)	<b>PV:</b>	33 (cp)	<b>YP:</b> 8 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	24.04.2022	<b>24 Hr Summary:</b>	RIH with 8 1/2" BHA and displaced to 1.95 sg BaraECD 3.3. Performed HPHT fingerprinting.	
<b>RPT No.:</b>	17	<b>Update at 06:00:</b>	Fingerprinting for HPHT.	
<b>Depth:</b>	4,144.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.925 (sg)	<b>PV:</b>	32 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	25.04.2022	<b>24 Hr Summary:</b>	Completed HPHT fingerprinting. Revised procedure for stripping drill. Started drilling 9 7/8" cementing plugs	
<b>RPT No.:</b>	18	<b>Update at 06:00:</b>	Performing LOT	
<b>Depth:</b>	4,144.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.930 (sg)	<b>PV:</b>	32 (cp)	<b>YP:</b> 14 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	26.04.2022	<b>24 Hr Summary:</b>	Drilled out 9 7/8" shoetrack, drilled rathole and 3m of new formation, performed PBU and FIT to 2.19 sg. Drilled 8 1/2" HPHT section from 4148m to 4209m	
<b>RPT No.:</b>	19	<b>Update at 06:00:</b>	Drilling 8 1/2" hole section, 06:00 depth - 4265m	
<b>Depth:</b>	4,209.00 (m)	<b>Day DSV:</b>	Tim Hague	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.930 (sg)	<b>PV:</b>	32 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	27.04.2022	<b>24 Hr Summary:</b>	Drilled 8 1/2" hole from 4209m to 4384m	
<b>RPT No.:</b>	20	<b>Update at 06:00:</b>	Drilling 8 1/2" hole, 06:00 depth: 4415m	
<b>Depth:</b>	4,384.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.930 (sg)	<b>PV:</b>	35 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)



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Daily Summary Report				
Common Well Name: 35/4-3			AFE No	
Event Type: DRILLING (DNW)	Start Date: 04.04.2022	End Date: 17.05.2022	No AFE Associated	
Project: Quadrant 0035	Site: 35/04-3 [Laushornet]		Operator: AKER BP	
Rig Name/No.: DEEPSEA NORDKAPP	Spud Date/Time: 08.04.2022 04:15:00		Rig Release: 17.05.2022	
Rig Contractor: ODFJELL DRILLING	Internal Well ID:			
Active datum: RKB @32.65m (above Mean Sea Level)				
<b>Date:</b>	28.04.2022	<b>24 Hr Summary:</b>	Drilled 8 1/2" hole from 4384m to 4481m	
<b>RPT No.:</b>	21	<b>Update at 06:00:</b>	Drilling 8 1/2" hole, 06:00 depth: 4536m	
<b>Depth:</b>	4,481.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.935 (sg)	<b>PV:</b>	37 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	29.04.2022	<b>24 Hr Summary:</b>	Drilled 8 1/2" hole from 4481m to 4597m	
<b>RPT No.:</b>	22	<b>Update at 06:00:</b>	Drilling 8 1/2" hole, 06:00 depth: 4606m	
<b>Depth:</b>	4,597.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.925 (sg)	<b>PV:</b>	36 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	30.04.2022	<b>24 Hr Summary:</b>	Drilled 8 1/2" hole from 4597m to 4614m, experienced drillbreak at 4614m, drilled to 4618, pulled up and closed BOP as per PHPT procedure, recorded 20 bar SICP, Performed 1st Performing 2nd circulation Drillers method	
<b>RPT No.:</b>	23	<b>Update at 06:00:</b>	Performing 2nd circulation Drillers method	
<b>Depth:</b>	4,618.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.925 (sg)	<b>PV:</b>	36 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	01.05.2022	<b>24 Hr Summary:</b>	Performed 2nd circulation Drillers method (kill mud: 1.97 sg MW50), shut in well and monitored pressure buildup, Performed 3rd circulation Drillers method (kill mud: 1.99 sg Performing PBU test)	
<b>RPT No.:</b>	24	<b>Update at 06:00:</b>	Performing PBU test	
<b>Depth:</b>	4,618.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.990 (sg)	<b>PV:</b>	41 (cp)	<b>YP:</b> 7 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	02.05.2022	<b>24 Hr Summary:</b>	Performed 3rd circulation Drillers method (kill mud: 1.99 sg MW50), performed 3 x PBU tests, open up BOP, circulated B/U, displaced well to 1.97 sg (MW50)	
<b>RPT No.:</b>	25	<b>Update at 06:00:</b>	Drilling 8 1/2" hole, 06:00 depth: 4627m	
<b>Depth:</b>	4,618.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.970 (sg)	<b>PV:</b>	35 (cp)	<b>YP:</b> 8 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>MUD WT:</b>	2.010 (sg)	<b>PV:</b>	41 (cp)	<b>YP:</b> 7 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	03.05.2022	<b>24 Hr Summary:</b>	Displaced well to 1.97 sg (MW50) mud, drilled 8 1/2" hole section from 4618m to 4676m, performed pressure points, increased MW to target ESD of 2.01 sg	
<b>RPT No.:</b>	26	<b>Update at 06:00:</b>	Drilling 8 1/2" hole, 06:00 depth: 4681m	
<b>Depth:</b>	4,676.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.965 (sg)	<b>PV:</b>	35 (cp)	<b>YP:</b> 8 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	04.05.2022	<b>24 Hr Summary:</b>	Drilled 8 1/2" section to TD at 4707 m. Circulated hole clean. Performed short trip. Commenced circulating bottoms up after short trip.	
<b>RPT No.:</b>	27	<b>Update at 06:00:</b>	Pulling 5" DP at 3990 m	
<b>Depth:</b>	4,707.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.980 (sg)	<b>PV:</b>	44 (cp)	<b>YP:</b> 3 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	05.05.2022	<b>24 Hr Summary:</b>	POOH with 8 1/2" BHA. Rigged up WL equipment. RIH with WL toolstring #1A. Recorded repeat and main pass. Performed first five pressure point.	
<b>RPT No.:</b>	28	<b>Update at 06:00:</b>	Performing surface checks of toolstring #1B - VSP prior to RIH.	
<b>Depth:</b>	4,707.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.980 (sg)	<b>PV:</b>	45 (cp)	<b>YP:</b> 3 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	06.05.2022	<b>24 Hr Summary:</b>	Performed pressure point with wireline toolstring #1A. Prepared WL toolstring #1B. Laid out toolstring #1B. RIH with 8 1/2" Clean out BHA. Circulated BU at TD. Commenced increasing Pump OOH with 8 1/2" clean out BHA at 4420 m.	
<b>RPT No.:</b>	29	<b>Update at 06:00:</b>	Håkon Mellgren	
<b>Depth:</b>	4,707.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.980 (sg)	<b>PV:</b>	44 (cp)	<b>YP:</b> 3 (Pa) <b>API WL:</b> 0.0 (ml/30 min)



## Final Well Report for exploration well Laushornet 35/4-3

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Daily Summary Report				
Common Well Name: 35/4-3			AFE No	
Event Type: DRILLING (DNW)	Start Date: 04.04.2022	End Date: 17.05.2022	No AFE Associated	
Project: Quadrant 0035	Site: 35/04-3 [Laushornet]		Operator: AKER BP	
Rig Name/No.: DEEPSEA NORDKAPP	Spud Date/Time: 08.04.2022 04:15:00		Rig Release: 17.05.2022	
Rig Contractor: ODFJELL DRILLING			Internal Well ID:	
Active datum: RKB @32.65m (above Mean Sea Level)				
<b>Date:</b>	07.05.2022	<b>24 Hr Summary:</b>	Increased MW from 1.98 sg to 2.01 sg (MW50). POOH with 8 1/2" clean out BHA. Function tested BOP. RIH with WL toolstring #1B- VSP. Commenced performing seismic log.	
<b>RPT No.:</b>	30	<b>Update at 06:00:</b>	Performing VSP log on WL at 1098 m.	
<b>Depth:</b>	4,707.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	2.010 (sg)	<b>PV:</b>	47 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	08.05.2022	<b>24 Hr Summary:</b>	Performed WL run #1B - VSP and POOH. RIH with WL toolstring #1C - XL Rock. Commenced cutting sidewall cores.	
<b>RPT No.:</b>	31	<b>Update at 06:00:</b>	POOH with WL toolstring #1C at 40 m.	
<b>Depth:</b>	4,707.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	2.010 (sg)	<b>PV:</b>	49 (cp)	<b>YP:</b> 9 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	09.05.2022	<b>24 Hr Summary:</b>	Performed WL logging run #1C - sidewall coring. POOH and laid down toolstring. RIH with 4" cement stinger on 5" DP to TD. Circulated and conditioned mud prior to cement job.	
<b>RPT No.:</b>	32	<b>Update at 06:00:</b>	Circulating BU after cement plug #1.	
<b>Depth:</b>	4,707.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	2.010 (sg)	<b>PV:</b>	49 (cp)	<b>YP:</b> 9 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	10.05.2022	<b>24 Hr Summary:</b>	Circulated and conditioned mud. Pumped and placed open hole cement plugs #1, #2 and #3. Commenced POOH with 4" cement stinger.	
<b>RPT No.:</b>	33	<b>Update at 06:00:</b>	WOC. Meanwhile: RIH with 8 1/2" dress off BHA at 78 m.	
<b>Depth:</b>	4,707.00 (m)	<b>Day DSV:</b>	Håkon Mellgren	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	2.010 (sg)	<b>PV:</b>	49 (cp)	<b>YP:</b> 10 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	11.05.2022	<b>24 Hr Summary:</b>	POOH with 4" cement stinger, RIH with 8 1/2" dress-off BHA. WOC, meanwhile performed maintenance on rigfloor. Tagged TOC at 4080m and dressed same down to 4083m. Pressure R/B 8 1/2" dress-off BHA.	
<b>RPT No.:</b>	34	<b>Update at 06:00:</b>	Neil Slater	
<b>Depth:</b>	4,083.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	2.010 (sg)	<b>PV:</b>	57 (cp)	<b>YP:</b> 8 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	12.05.2022	<b>24 Hr Summary:</b>	Completed displacement of 1.65 sg BaraECD 2.2. POOH with 8 1/2" dress-off BHA. RIH with 9 7/8" casing cutter BHA. Cut 9 7/8" casing. POOH with WB and 9 7/8" casing cutter BHA.	
<b>RPT No.:</b>	35	<b>Update at 06:00:</b>	Pulling 9 7/8" casing, R/B 8 of 33 stands total.	
<b>Depth:</b>	4,083.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.650 (sg)	<b>PV:</b>	32 (cp)	<b>YP:</b> 9 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	13.05.2022	<b>24 Hr Summary:</b>	Pulled and R/B cut 9 7/8" casing. RIH, set and pressure tested 13 5/8" EZSV. Pressure tested BOP against EZSV. Displaced well to 1.40 sg. POOH with EZSV RT. RIH with 13 5/8" Performing second cut of 13 5/8" casing at 1050m.	
<b>RPT No.:</b>	36	<b>Update at 06:00:</b>	Neil Slater	
<b>Depth:</b>	1,629.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.400 (sg)	<b>PV:</b>	24 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	14.05.2022	<b>24 Hr Summary:</b>	RIH with 13 5/8" cutter BHA. Performed first cut of 13 5/8" casing at 1605m. Flowchecked well. Performed second cut of 13 5/8" casing at 1050m. POOH with 13 5/8" cutter BHA. RIH Mixing and pumping environmental cement plug on top of 20" EZSV.	
<b>RPT No.:</b>	37	<b>Update at 06:00:</b>	Neil Slater	
<b>Depth:</b>	1,629.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.400 (sg)	<b>PV:</b>	24 (cp)	<b>YP:</b> 6 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	15.05.2022	<b>24 Hr Summary:</b>	RIH with 20" EZSV and set at 1040m. Tagged and pressure tested EZSV. Displaced to SW. Dumped shallow environmental cement plug on top of EZSV. POOH with EZSV RT. RIH with Pulling BOP on marine riser.	
<b>RPT No.:</b>	38	<b>Update at 06:00:</b>	Neil Slater	
<b>Depth:</b>	940.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.030 (sg)	<b>PV:</b>	0 (cp)	<b>YP:</b> 0 (Pa) <b>API WL:</b> 0.0 (ml/30 min)



Final Well Report for exploration well  
Laushornet 35/4-3

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Daily Summary Report				
Common Well Name: 35/4-3			AFE No	
Event Type: DRILLING (DNW)	Start Date: 04.04.2022	End Date: 17.05.2022	No AFE Associated	
Project: Quadrant 0035	Site: 35/04-3 [Laushornet]		Operator: AKER BP	
Rig Name/No.: DEEPSEA NORDKAPP	Spud Date/Time: 08.04.2022 04:15:00		Rig Release: 17.05.2022	
Rig Contractor: ODFJELL DRILLING			Internal Well ID:	
Active datum: RKB @32.65m (above Mean Sea Level)				
<b>Date:</b>	16.05.2022	<b>24 Hr Summary:</b>	Pulled BOP on marine riser to surface. Replaced roller on BOP carrier. Continued securing BOP in moonpool. R/D BOP handling equipment.	
<b>RPT No.:</b>	39	<b>Update at 06:00:</b>	Performing ESD 3 test.	
<b>Depth:</b>	0.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.030 (sg)	<b>PV:</b>	0 (cp)	<b>YP:</b> 0 (Pa) <b>API WL:</b> 0.0 (ml/30 min)
<b>Date:</b>	17.05.2022	<b>24 Hr Summary:</b>	Rigged down BOP handling equipment. Performed ESD 2 and 3 tests. Unmoored anchors. Left 500m zone at 16:15 hrs.	
<b>RPT No.:</b>	40	<b>Update at 06:00:</b>		
<b>Depth:</b>	0.00 (m)	<b>Day DSV:</b>	Neil Slater	
<b>Cost:</b>	0.00 (\$)	<b>DOL/DFS:</b>		
<b>MUD WT:</b>	1.030 (sg)	<b>PV:</b>	0 (cp)	<b>YP:</b> 0 (Pa) <b>API WL:</b> 0.0 (ml/30 min)

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## 6.9 Synergi overview report

What, When & Where - Location

Aker BP - Field -  
Operatorship -  
Exploration - PL 685  
Laushornet

#245025 HSSEQ NEAR MISS, INCIDENT OR SECURITY - NEAR MISS

APPROVED

**Større forbruk av rødt kjemikalie enn det som var omsøkt i AFD**

#243821 HSSEQ CONDITION OR OBSI-TALK - HSSEQ CONDITION

CLOSED

**Skitten/ tilgrist casing fra DSN ned på Normand Solitaire**

#243556 HSSEQ CONDITION OR OBSI-TALK - HSSEQ CONDITION

CLOSED

**Norsok R-002/003 avvik**

#243478 HSSEQ CONDITION OR OBSI-TALK - HSSEQ CONDITION

REGISTERED

**Innmeldt last til Florø Base ble ikke sendt med båt som avtalt**

#242226 HSSEQ NEAR MISS, INCIDENT OR SECURITY - INCIDENT/LOSS

CLOSED

**Brønnskrollhendelse på DSN**

#241602 HSSEQ CONDITION OR OBSI-TALK - HSSEQ CONDITION

CLOSED

**Venting dry-bulk from DSN when Vessel was alongside**

#241600 HSSEQ CONDITION OR OBSI-TALK - HSSEQ CONDITION

CLOSED

**Missing split pins on Riser slick 80ft 335A1-UP006, DSN @ Laushornet**

#241604 HSSEQ NEAR MISS, INCIDENT OR SECURITY - NEAR MISS


CLOSED

**Protector løsnet på 20" csg ved levering til båt - Normand Sigma**

#237476 HSSEQ CONDITION OR OBSI-TALK - HSSEQ CONDITION

CLOSED

**Overvekt på passasjerers bagasje inbound, Bristow GSR 2130**

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#236467 EXEMPTION - PERMANENT CLOSED

**Deviation to NORSOK D-010 / D&W TR 51-00556: Laushornet Exploration Well - Plan to test 13 5/8" casing to value less than the WBE rating**

#235207 HSSEQ NEAR MISS, INCIDENT OR SECURITY - INCIDENT/LOSS CLOSED

**DO to sea - DSN**

#232262 EXEMPTION - PERMANENT CLOSED

**Deviation to NORSOK D-010 / D&W TR 51-00556: Laushornet Exploration Well - Plan to test 9 7/8" casing to value less than the WBE rating**