



Empowering Data Ownership



Keystone

Empowering Data Ownership

Launched in 2017.

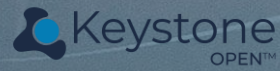
40+ brilliant people working in Stavanger and Kristiansand.

Capacity of 42 500 hours per year

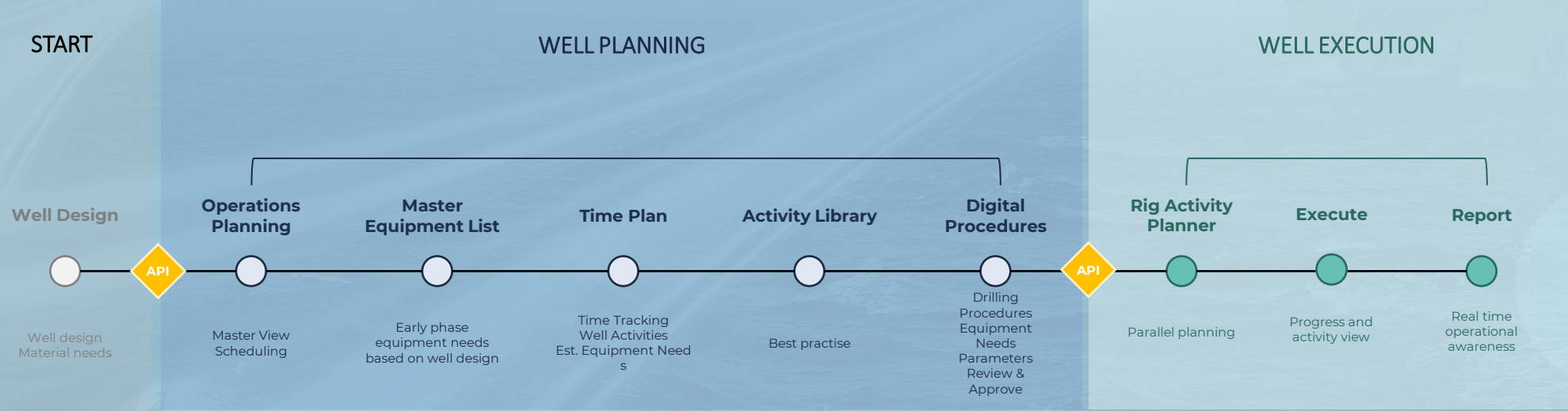
Scalability through partners and subsidiaries.

Delivering robust and field ready product.

Comprehensive SaaS portfolio.



Working API's and Data Collaboration Partners



KONGSBERG



OLIASOFT





Digital DOP Author Tool

- Digital solution to create DOP's, DOP library, Time Plan's and execute DOP's
- Realtime data from your past / current and future operations with custom made dashboards (ReportView)
- Integrate with multiple sources
- Automate processes
- Reduce manual input
- Significantly reduce time spent on creating DOP's
- Ensure full transparency and follow-up on Lessons Learned / Comments and inputs from all stakeholders



Procedure (DOP Editor)

- Automated Import function
- Multiple Time functional view's
- Always synced times' trough API's
- Smart time structure (activities move according to actual time)
- Capture's actual time
- Highly adjustable to specific rig needs
- Full overview off all activities across the rig. Main / Aux / Offline + +
- Build / Adjust /Comment /Sign off DOP's from Any system
- Capture and store Learnings and Risk's
- Include documentation
- Plan for offline or parallel activities
- View change history
- Version Tracking
- Sign off possibilities

The screenshot displays the 'Keystone Procedures' web application interface. At the top, there is a navigation bar with the 'Keystone Procedures' logo and a user profile for 'Randy S.'. Below this, the main heading is 'Procedures', accompanied by a '+ Create procedure' button. The interface is divided into two tabs: 'ALL PROCEDURES' (selected) and 'EXECUTION ORDERS'. A search bar and several filter dropdowns (Rig, Well, Well bore, Well Type, Status) are present. Below the filters, it states '130 Procedures found:'. A table lists the procedures with columns for Status, Title, Duration, Start, and End. The table contains 10 rows of data, all for 'DOP 110 Drill 26\" section'. The status of these procedures varies, including 'Onshore Draft', 'Offshore Draft', 'Under Approval', 'Final Approved', 'Under Execution', 'Paused Execution', 'Abandoned', 'AAR', and 'Completed'. At the bottom right, there is a pagination control showing 'Cards per page: 10' and '1-10 of 130'.

Status	Title	Duration	Start	End
Onshore Draft	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Onshore Draft 2	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Offshore Draft	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Under Approval	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Final Approved	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Under Execution	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Paused Execution	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Abandoned	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
AAR	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Completed	★ DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33

Keystone Procedures

Procedures

+ Create procedure

ALL PROCEDURES EXECUTION ORDERS

Search...

Rig Well Well bore Well Type Status

130 Procedures found:

Status	Title	Duration	Start	End
Onshore Draft	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Onshore Draft 2	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Offshore Draft	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Under Approval	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Final Approved	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Under Execution	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Paused Execution	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Abandoned	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
AAR	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33
Completed	DOP 110 Drill 26" section	10d 10h 30m	16 Jul 2022 13:33	16 Jul 2022 13:33

Cards per page: 10 1-10 of 130

Procedure

Keystone Procedures

DOP 130 - Cement 9 5/8" liner and set packer

Revision

ACTIVITIES CHECKLIST DOCUMENTATION ATTACHMENTS HISTORY PREVIEW (PDF)

Activities 7

Select all Expand all

1 Activity description

Activity code: RIH Lane: AUX Activity type: Contingency Rig steps time: 2 h

Actual: 1 Jul 13:33 - 23 Sep 13:33 Actual: 9 h 3 Steps

Planned: 1 Jul 13:33 - 23 Sep 13:33 Planned: 9 h

A Step description

Step code: RIH Responsible: Optimization Engineer

Description

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Responsible

ADT Drilling Optimization Engineer

Risk 3

- Shallow TOC/LC
- Wash down last stand carefully

Input parameters 3

Description	Unit	Target value	Min value	Max value
Flow	lpm	1000	500	1200
Rotation	rpm	500	500	1200
WOB	MT	650	500	1200

Report parameters 1 / 3

Description	Unit	Value
Pick up weight	MT	700
Slack off weight	MT	
Pipe stretch	MT	

Checks 3 / 3

Description	Responsible
Check title Check description	Derrickman Skip
Check title Check description	Derrickman Unskip
Check title Check description	Derrickman Skip

Supplementary info

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu.

1 Jul 13:33 - 23 Sep 13:33 9 h 3 Steps

1 Jul 2022 13:33 - 9 h 3 Steps

Planned: 1 Jul 13:33 - 23 Sep 13:33 9 h 3 Steps

Planned: 1 Jul 13:33 - 23 Sep 13:33 9 h 3 Steps

Planned: 1 Jul 13:33 - 23 Sep 13:33 9 h 3 Steps

Planned: 1 Jul 13:33 - 23 Sep 13:33 9 h 3 Steps

Planned: 1 Jul 13:33 - 23 Sep 13:33 9 h 3 Steps

← → ★ DOP 130 - Cement 9 5/8" liner and set packer Onshore Draft

- ACTIVITIES
- CHECKLIST 0
- DOCUMENTATION
- ATTACHMENTS
- HISTORY
- PREVIEW (PDF)

Activities 7 Select all Expand all

☰	<input type="checkbox"/>	1	Activity description	C		Planned: 1 Jul 13:33 - 23 Sep 13:33		Planned: 9 h	3 Steps		⌵
☰	<input type="checkbox"/>	1	Activity description	C		Planned: 1 Jul 13:33 - 23 Sep 13:33		Planned: 9 h	3 Steps		⌵
☰	<input type="checkbox"/>	1	Activity description	C		Planned: 1 Jul 13:33 - 23 Sep 13:33		Planned: 9 h	3 Steps		⌵
☰	<input type="checkbox"/>	1	Activity description	C		Planned: 1 Jul 13:33 - 23 Sep 13:33		Planned: 9 h	3 Steps		⌵
☰	<input type="checkbox"/>	1	Activity description	C		Planned: 1 Jul 13:33 - 23 Sep 13:33		Planned: 9 h	3 Steps		⌵
☰	<input type="checkbox"/>	1	Activity description	C		Planned: 1 Jul 13:33 - 23 Sep 13:33		Planned: 9 h	3 Steps		⌵
☰	<input type="checkbox"/>	1	Activity description	C		Planned: 1 Jul 13:33 - 23 Sep 13:33		Planned: 9 h	3 Steps		⌶

< > Activity code: RIH Lane: AUX Activity type: Contingency Rig steps time: 2 h

☰	<input type="checkbox"/>	A	Step description		0 h		⌵
☰	<input type="checkbox"/>	A	Step description		0 h		⌵
☰	<input type="checkbox"/>	A	Step description		0 h		⌵

+ Add Step

+ Add Activity

Comments

All comments
5 comment(s) Resolved comments

Procedure (2): Adding procedure comment Procedure comments

RS rasy@equinor.com 1h ago

Officia aut sed nam soluta ipsum consequuntur provident. Voluptas

Lessons Learned

Activity (1): 1- Run 13 5/8 casing Activity comments

RS rasy@equinor.com 1h ago

Officia aut sed nam soluta ipsum consequuntur provident. Voluptas

Regular

Check (2): Check hours on wash pipe Check comments

Create comment on: Procedure: DOP 110 - Run 13 5/8 casing

Add comment
This is a procedure specific comment example

Type
Lessons learned

Add comment Cancel



Execution View

- Digital solution to receive, adjust, and execute DOP's
- Integrate with multiple sources
- Automate processes
- Reduce manual input
- Reduce interference to Driller during operation
(documented 40-50% reduction of calls to Driller during operations on Johan Sverdrup)



Digital DOP – Drillers Execution View

- Simple intuitive user interface
- Complete activities with automated time capture
- Always on the signed version
- Easy to monitor and track checklist progress prior to DOP start

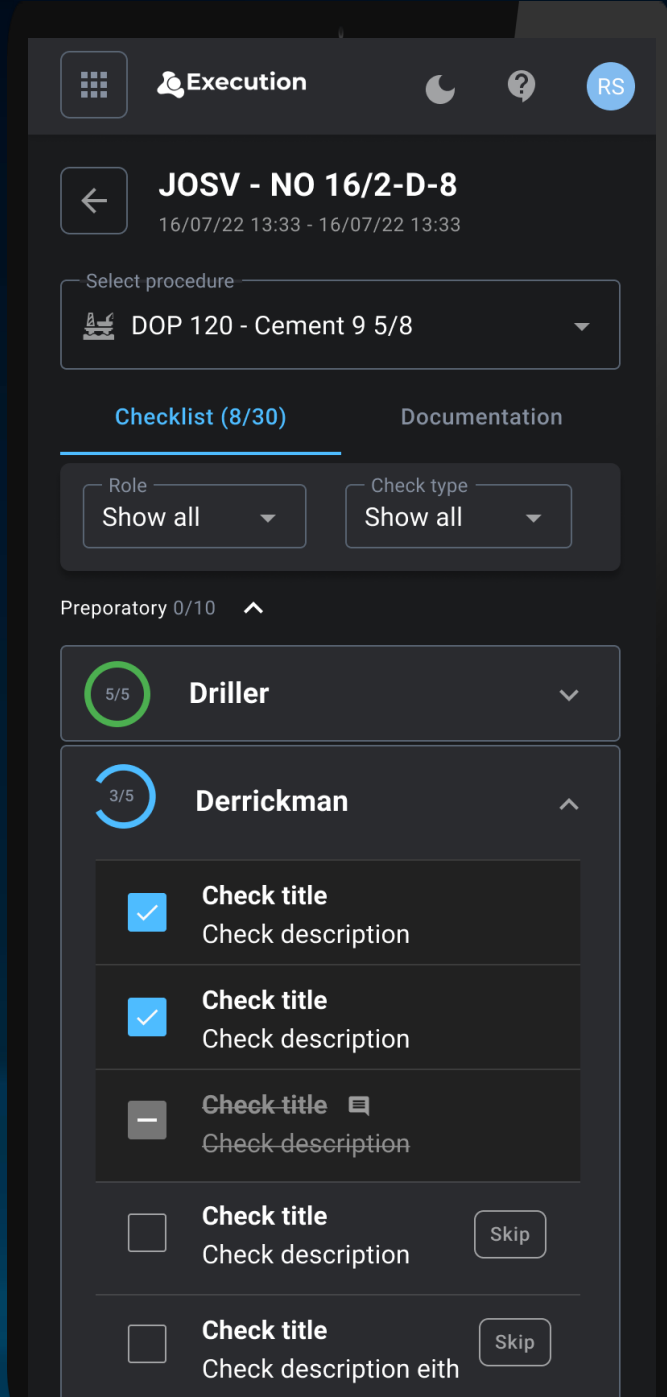
The screenshot displays the 'Keystone Execution' software interface. The main view is for 'DOP 100 - Drill 12 1/4 Section', which is currently 'Under Execution'. The interface is divided into several sections:

- ACTIVITIES:** A list of tasks with their progress. Two activities are 'Finished' (1 and 2), and one is 'Remaining' (3).
 - Activity 1: Perform pre-job meeting. Actual: 1502 m, Planned: 1500 m, Actual: 9 h.
 - Activity 2: M/U 12 1/4" BHA. Actual: 1502 m, Planned: 1500 m, Actual: 9 h.
 - Activity 3: RIH drilling BHA. Actual: 762 m, Planned: 1500 m, Actual: 3 h.
- CHECKLIST 28/28:** A detailed view of the current activity (3) showing checklist items A and B. Item A is completed, and item B is in progress. Item B includes a risk assessment table.

Risk	2
	<input type="checkbox"/>
	<input type="checkbox"/>
- Well status:** A table showing drilling parameters over time.

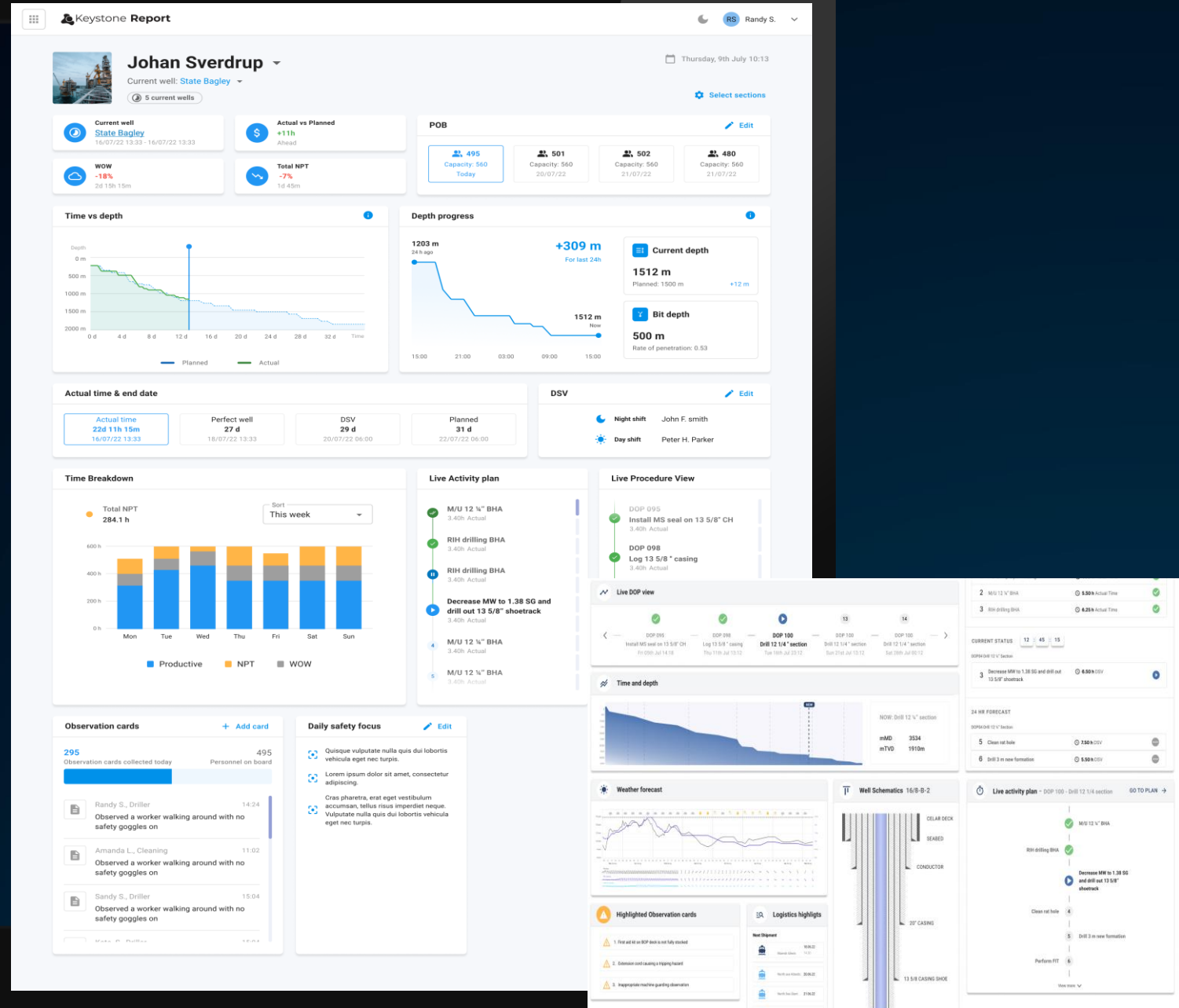
Time	00:00	01:00	02:00	03:00	04:00
K/D Time	00:12	00:12	00:12	00:12	00:12
Stand Nr.	1.4	1.4	1.4	1.4	1.4
Depth	1214 m	1216 m	1218 m	1219 m	1220 m

Execution View on Mobile device



Digital DOP: Live Report

- One View – One Live Status
- Report Screen
- Daily Report
- Automated Reporting
- Lookahead
- General Status
- Realtime Data integrations
- Actual time vs Benchmark
- Daily safety focus
- Maintenance Integrations
- Visual Realtime data from SiteCom
- USER/Role Based View



REPORT View on Mobile device

Report RS

Thu, 9th July 10:13

Johan Sverdrup
Current timeplan: JS 16/8-B-2

Select sections

Current timeplan
JS 16/8-B-2
16/07/22 13:33...

Actual vs Planned
+11h
Ahead

WOW
-18%
2d 15h 15m

Total NPT
-7%
1d 45m

DSV

Night shift	John F. smith
Day shift	Peter H. Parker

POB

495 Capacity: 560 Today	501 Capacity: 560 20/07/22
502	480

Capacity: 560
21/07/22

Capacity: 560
21/07/22

Actual time & end date

Actual time 22d 11h 15m 16/07/22 13:33	Perfect well 27 d 18/07/22 13:33
DSV 29 d 20/07/22 06:00	Planned 31 d 22/07/22 06:00

Time vs depth

Depth progress

Current depth 1512 m Planned: 1500 m +12 m	Bit depth 500 m Rate of penetration: 0.53
---	--

1203 m
24 h ago

+309 m
For last 24h

1512 m
Now

Masterplan Overview

- Collect all your operational rig activities in one area.
- Flexible and intuitive user interface
- Realtime integrations with multiple sources

