

Collabor8 Subsurface

User manual

Dato: Ansvarlig: 04.11.2022 Arvid Gjerde

bouvet







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1 How to get access

To get access to the solution you will need to be registered as part of the solution and in addition you will need to have what is a Hello Id account.

Each company has what is referred to as a company administrator in the solution, granting them the rights to add users for their own company.

2 How to get support

The solution has a dedicated service desk that can assist you in solving possible problems. The servicedesk can be reached on:

support.subsurface@collabor8.no

Or phone: (+47) 52 04 00 00 (08:00 - 16:00 CET)

3 Log in

- https://subsurface.collabor8.no/
- Username:
- Password:





4 Use of Collabor8 Subsurface

4.1 Home screen

The home screen gives access to different types of functionalities as also found in the menu tree to the left. The home screen also has a fast navigation entry to any predefined searches that the user have and set as favorite defined in the system (shown in the figure below).

subsurface		LOG OUT
i Home	Production ^	Drilling A
Production Publish data Explore data	Debit data Equir data Equir data Equir data Ensora data	Description Description Description Flaces Explore data Deplore data Definition of the cycle
Explore data (bella)	Administration	Reports ^
Dashboards Emission data	and an an	
Driting	Ener log Sattings Conjuni vana System configuration	Curase report
Explore data	Tavorilie A	
 Explore data (bela) Slot life cycle 	Access to predefined searches as defined by the user	
Dashboards		
Administration A		
Event log		
Settings company users		
System configuration		

If needed to expand the screen more, the menu can be hidden to allow for a larger view when viewing data.



4.2 Adjusting user preferences





Each user has the possibility to adjust their own settings as needed. This is done through the settings functionality as shown in the picture below.

subsurface		
Home	Production ^	Driling
Production		
Explore data	Publish data Explore data Explore data (beta) Dashboards Emission data	Publish data Explore data Explore data (beta) Slot life cycle Dashboards
Explore data (beta)	Administration	Bunnis
Dashboards		тарили
Emission data		
Drilling A	Event log Settings company users System configuration	Lioladed recorts
Publish data	within the standings configure and a synthesis and a synthesynthesis and a synthesis and a syn	
Explore data	Fevourites ^	
Explore data (beta)	Q ÁSGARD LAST 7 DAYS	
Slot life cycle		
Dashboards		
Administration		
Event log		
Settings company users		
System configuration		

This will bring up a screen where different types of settings that the user can change if needed.

subsurface						SETTINGS LOG OUT
Home	Preferences					
Production					Defines w	hat separator to use when
Publish data	User favourites		^	User preferences	download	ng data from explore data, use ^
Explore data	PRODUCTION FILTERS	DRILLING FILTERS		CSV delimiter	Comma Semi Colon	e.g. for excel format
Explore data (beta)	ASGARD LAST 7 DAYS EDIT			CSV decimal seperator	🔿 Comma 💿 Period De	fines what decimal separator to use nen downloading data from explore data
N Dashboards				Decimal seperator	Comma Period	Defines decimal separator to use when
Emission data				1000 seperator	🔘 Comma 🔵 Dot 💿 Space 🔵 Nore	Defines 1000 separator to use when
Drilling A				Number example	123 456 789,12355556	viewing data in the system
Publish data				Entity navigation type	Classic O Tree	
Explore data						Defines which default view to use for explore data views, either "Classic" -
Explore data (beta)	Production data keys		^			search based or "Tree" - shows structure as a navigational tree
Slot life cycle	COMBINED PRODUCTION INJECT	TION CONSUMPTION IMPORT	EXPORT >			
Dashboards		SHOW ALL HIDE ALL		Defines which columns in evol	are data that chould	
Administration	Report period start	(e) show () Hide		be visible by default	ore data that should	
Event log	Report period end	(i) show (i) Hide				
Settinos company users	Production day start	show O Hide				
	Production day and	● show ○ Hide				
System configuration	Reporting Facility	(e) show () Hide				
Reports ^	Owning Facility	ehov O Hide				

4.3 Explore data

4.3.1 Production

The explore data functionality can be used to view production related data using search. When the explore data functionality is selected the user is presented with the search screen where it is possible to select which data to search for (available fields to search for is based on access for the given user and also defined ownership as registered on the NPD factpages). One or several assets can be selected if needed. Explanation of search screen below. If e.g., a field is selected the system will automatically include associated platforms and wells for that given field.





subsurface Home Save as a predefined search based on search ۲ criteria. If to date is not changed the saved search will be Fav Publish data rolling timewindow so that next day the user goes in it will default to today's data ASGARD LAST 7 DAYS Explore data T Enuues Explore data (beta) Select entitied based Licenses on a treeview Dashboards . Defines which fields Emission data to include in search Fields / Discoveries GULLFAKS 🛞 • GULLFAKS SØR 🚫 If needed can search Publish data for specific data registered on given Platforms Explore data platforms • Explore data (beta) If needed can search for specific data Wells Slot life cycle • registered on given wells or wellbores Dashboards Wellbores ÷ Event log Specifies which timeperiod to search for data. Settings company users Period -> Production day From: To: Created -> Created in timerange Modified -> Modified in timerange System configuration 29.10.2007 29.10.2008 Date type period created modified Uploaded reports





The additional filter function can be used to filter the data even more if needed.



The tree view functionality can be used to browse and search for data on specific entities as shown in the figure below.







When viewing data in the tabular view in explore data it is possible for the user to adjust the view in different ways and at the same time download data if needed (shown in picture below).

subsurface		Combination of a (production, inje consumption ++)	all data ection,	Data tagge production	d as beeing related	Data i injecti gas, v	tagged as beeing ion related (e.g. vater)	Data tagged consume rel fuel, flare, d	d as beeing lated e.g. diesel ++ Dati imp	e tagged a ort related	is beeing	Data tagged export relate	as beeing d Data tagged inventory, e	Data Inst com I as beeing .g. stock	a tagged as beei allation related, iments	ng t-g. Data wellt	tagged as est related	i beeing d	Data tagged as bee sale related	ing Data tag gas lift n	ged as beei elated	ng townload	as csv Select to view	columns W
Horse	×		cow	BINED	PRODU	CTION	INJECTION	CONS	UMPTION	IMP	ORT	EXF	ORT	INVENTORY	INSTALLA	TIONDATA	WE	LTESTS	SALE		GASLIFT		1	
roduction																							6	
Publish data	Favourites	<u>^</u>	Report period	Report period end	Production day start	Production day end	Reporting Facility	Owning Facility	Facility	Facility	Reporting		Flow name		Flow type	Produc	Qualifier	Sub typ	e Volume	M	Interes	t System	System	Cusity
Explore data		**	start																	volu	ne (%)			- 1
Explore data (beta)	🐮 Entities 👕	≂'∧	30.10.2022	31.10.2022	30.10.2022	31.10.2022				platform	day											DPR	2	temporar;
	Licenses		30.10.2022	31.10.2022	30.10.2022	31.10.2022				platform	day											DPR	2	temporary
 Dashboards 			30.10.2022	31.10.2022	30.10.2022	31.10.2022				wellbore	day											DPR	2	- seroqmat
 Emission data 	Fields / Discoveries		30.10.2022	31.10.2022	30.10.2022	31.10.2022				wellbore	day											DPR	2	temporar

In the explore production data view there are some columns that are important to be aware of and their meaning (shown in the figure below).



4.3.2 Drilling

The explore drilling data works in the same fashion as for the production part.

4.3.3 Slot lifecycle data

The slot lifecycle functionality is tailored at viewing project and section-based information with respect to drilling.







4.4 Dashboard

4.4.1 Production

In the solution there are some common defined dashboards that can be used to show data in a more graphical way.

To access the production dashboards use the "Dashboard menu entry".







Daily operation dashboard

tagged to b	e production	Download graph as an Download image as csv	graph data Expand graph one bug wind	i view to low	
DAILY ONGOING OPERATIONS	DAILY WELLS MONTHLY OVERVIEW			If selected field has Export, graph will show this information	
Field production			Field export		ih 🙆
(=)000 − 000		Gas (sm3)			Gas (sm3) - 35000
4500 Filter graph, e specific data e to show	.g. select Hoover or click to bring up more lements information on data point, if associated comments are found for the eixen day these will be shown in	-450000	255	1	-270010
3010	the new window	-300000	170		- 180000
1500	\sim	- 150000	85		-90000
25.10.2021	27.10.2021 28.10.2021 28.10.2021 31.10.20 If selected field has	121 01.11.2021 02.11.2021	25.10.2021	27.10 [°] 2021 28.10 [°] 2021 28.10 [°] 2021 30.10 [°] 2021 31.10 [°] 2021	01.11.2021 02.11.2021
Field injection	injection graph will show this information	ik 🛆 🖸	Field consume	If selected field has consumption e.g. fuel /	ili 🛆
T Other (sm3)			÷		Gas (sm3) - 1200(0
3-					-90000
2-					- 60000
1-					-30000
25.10.2021	27.16 [°] 2821 28.16 [°] 2821 28.16 [°] 2821 30.16 [°] 2821	If selected field has comments ³ Yegistered, these will be shown here	25.10 2021 27.10	2021 28.10 ² 821 29.10 ² 821 30.10 ² 821 31.10 ² 821	01.11.2021 02.11.2021
Comments					ih 🙆
Date Start	End comment	Source	Entity Source Entity Type	Data Entity Data Entity type	

When the user expands a given graph as described in the figure below, this will bring up a bigger window of the graph allowing for some additional filtering.







Daily wells dashboard

The daily wells dashboard gives an overview of well related data.

DAILY ONGOING OP	ERATIONS DAILY WELLS MONTHLY OVERVIEW				
Wells online		6 0	Well production	ili 🙆 D	Well injection
			The contract of the contract o	Gas (sm3)	
18	Shows registered uptime for wells for the selected field		Shows registered well production broken down into oil, ges, water, condemaate	-	3- Shows registered well 2- injection
6				-	1
01.11.2021	04.11/2021 06.11/2021 08.11/2021 18.11/2021 12.11/2021 14.11/2021 16.11/2021	19.11.2021	01.11/2021 06.11/2021 10.11/2021	0 19.11.2021	0. 01.11.2021 06.11.2021 10.11.2021
Well measurement					
Ŧ			Shows detailed well		
Production day start	Production day end Reporting Facility Facility Owning Facility Data	eriod Reporting	period Flow-type Product Qualifier Gas Oil - net	Water Operation time	e Choke size Whp Sub type System name System version C
02.11.2021	03.11.2021				
02.11.2021	03.11.2021				

Monthly overview dashboard

The monthly overview dashboard shows information related to official production data as reported to the NPD on a monthly basis.

DAILY ONGOING OPERATIONS DAILY WELLS MONTHLY OVERVIEW				
Field production allocated	ili 🙆 🖸	Field Injection	-i6 6 D	Field consume
T Other (sm3)	Gas (sm3)	Ŧ	Gas (sm3)	<u></u> Gene (eu.):
	I			
Field production allocated information		Field injection related information		Field consume related information
0	11.2021	08.2021 10.2021	11.2021	V9.2021 10.2021
Saleable volumes	ili 🙆 🖸	Inventory volumes	ili 🙆 🖸	
- Other (sml)		Other (sm3)		
Saleable volumes		Inventory volumes		





4.4.2 Drilling

The drilling dashboards can be viewed using the dashboard element as part of the menu structure.



Ongoing operations dashboard



When expanding the activity breakdown frame, a more detailed view of the activities for the selected period and wellbores can be viewed







Time/Depth/Period dashboard

The time/depth/period dashboard gives a detailed overview of one specific wellbore and registered data.



Lithology dashboard

The lithology dashboard shows lithology and stratigraphic registered information on one specific wellbore.





ONGOING OPERATIONS	TIME/DEPTH/PERIOD STATUS	OGY REGISTERED DATA	RIG UTILIZATION		
ense	Field	Wellbore *			
	•	¥		*	EXECUTE QUERY
tratigraphic and lithology by	depth			0	TVO MO
			• TVD (O MD	
0m-				-0m	4
261m-				-261m	
523m-				-523m	
784m -				-784m	
1045m -	Stratigraphy, lithology,			- 1045m	Time depth plot
	mud weight, Azimuth, Inclination, interruptions			M	
1307m-	and drilling fluid used vs registered depth			-1307m -	
1568m -				- 1568m	
1829m -				- 1829m	
2090m-				-2090m	261m-
2352m-				-2352m	784m - 1307m -
Strationanh	e Elbelon Mutantal At	and the first first tables of the	Drilling fluid		1620m 2352m
Stratigraph		mutn inclination Interuptions	. Uning idia		endiadre de readre no readre an deadre in madeir an madeir 2001/2022 20.01.2022 03.02.2022 03.02.2022 13.02.2022
ratigraphic				- 12	Lithology

Registered data dashboard

The registered data dashboard shows information to one given wellbore with respect to what information is actually registered in the system.

ONGOING OPERATIO	INS TIME/DEPTH/PERIOD STATUS	LITHOLOGY	REGISTERED DATA	RIG UTILIZATION	
License	Field		Wellbore*		
	Ŧ		Ŧ		* EXECUTE QUERY
Registered data					li i
Registered reports on Time period: 30.1.2018 - 1	3.2.2022	Data reg / given da weilber	gistered for a ay in this case on		
wellTest		Weilbore			
wellboreInfo	(-)	•	•	
weather					
survey		<u> </u>			
stratugraphic		_			
porePressure				-	
perforation					
logEntry					
lithology					
incident					
gasReading					
formationTest					
drillingFluid					
drillingActivity		_			
core					
cementStage					
casingLinerTubing					
bitRecords					
2018	201 201 201 201 201 201 201 201 201 201	201 201 201	201 201 201 201 201 201 201 201 201 201	201.201.201.201.201.201.201.201.201.201.	2011 2011 2012 2012 2012 2012 2012 2012





Slot lifecycle dashboard

The slot lifecycle dashboard gives information related to selected well operations and projects that has been run over time on a given field.



Select a project to view more details related to that specific project







4.5 Publish data

From Home you find shortcut to publish Production and Drilling reports

Home	Production	Orilling
Production ^		
Publish data		
Explore data	Publish data Explore data Explore data (beta) Dashboards Emission data	Publish data Explore data Explore data (beta) Stot life cycle Dashboards

Depending your access there are possible to upload different types of Production reports:



And different types of Drilling data reports:

subsurface	
i Home	Publish drilling data
Production ^	
👔 Publish data	Report type
Explore data	Daily drilling report
Explore data (beta)	Drilling slot life cycle report
~ Dashboards	
Emission data	
Drilling ^	
Publish data	
Explore data	
Explore data (beta)	
Slot life cycle	
No. Dashboards	





4.5.1 Select files to upload

Select report type and click to browse or drag and drop report to publish

×	Publish production data		
		REMOVE ALL FALED FLES REMOVE ALL FLES	PUBLISH ALL VALIDATED
	Report type		
	Daily production report 2.0		
		Please select, or drag and drop one or multiple XML files	
		BROWSE	

4.5.2 Check validation report / publish validated files

After report is uploaded it will be validated.

If validation fails you can click and see valdation report.

	REMOVE ALL FALED FLES	ALL FRES
Drilling slot life cycle report	VALDATION FALLED	• •
	Drilling slot life cycle report	Drilling slot life cycle report VALD-RUD

If validation is OK click publish all validated







4.6 Event log

In the event log you can track your uploaded reports.

Frankal Price Hi HTHE HERRIN DURININ Price Hi HTHE HERRIN DURININ Price Hi HTHE HERRIN DURININ Price Hi Price	Production Fublish data	Event log bit Reporting period from to Reporting period from to 2005.02.07 (40:00) 2003.02.01 (11:00) to to <th></th>	
Filter and set is con col Add00001 89 353.M But More Set Control 10 Minute Set Control 10	Explore data Dritting		Select event
	Publish dels Euclore data Admensionalana Euclore data	Philih Mai Law Law Internet Presid Presid Cd. State Torsets too second source too second too secon	Filter and se the table res
	1	Controller, Bir 40 Scale Regimentaria Controller, Bir 40	Select colum
		🗲 GIGIZZE BEZEN CHINEFERE COMORCHORINE BERIZE BERIZE US DEMORCHORINE, ERCELARE, ERCELARE, ERCELARE, AN, 400. HE DAN 🛆 ON KIN.	to show
		🕽 GOUSSEEHENIN SHRIFHHERMOOGHANDE ESUNGELEHENINE ERICZIII ERISTII ERISTIE SEKEEL BEKEELEHENISLUKSELSUKSEL	Download t
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		Reciproces 5 + Figer 1 of 7 that means 10 theory recents 1 to 5 (C S 3 1) Amont proces 1	r uge nuvigu
	Colinborii	For technical support doors -01 SV 64 66 for an end support/driver/hot-hit re	