



REFRESHING MWD TECHNOLOGY

## Noralis Cloud Data



### Upgrading MWD Data Storage to the 21st Century

Job History, Memory Logs, Lifetime Environmental Records  
Repair, Calibration, and Programming History

All Tool downloads automatically uploaded

Accessible from any web browser ■ Free to use

# HUB Features



## Lifetime Data

Each Download of the Tool automatically creates a new record with updated lifetime tool totals. Temperature, Vibration and Peak Shock Hours are all recorded.

Log ID	Recorded By	Company Name	Serial Number	Update Type	Effective Date	Within Specs	Effective Hrs @ 100C	0 deg C (Hr)	10 deg C (Hr)	20 deg C (Hr)	30 deg C (Hr)	40 deg C (Hr)	50 deg C (Hr)	60 deg C (Hr)	70 deg C (Hr)	80 deg C (Hr)	90 deg C (Hr)	100 deg C (Hr)	110 deg C (Hr)	120 deg C (Hr)	130 deg C (Hr)	140 deg C (Hr)	150 deg C (Hr)	160 deg C (Hr)	170 deg C (Hr)	180 deg C (Hr)		
12039	Alan W.	Noralis	20013	qa	22 Jun 2016	true	270	0.0	0.2	99.0	68.9	28.0	8.4	1.7	2.7	36.8	30.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12027	Alan W.	Noralis	20013	qa	22 Jun 2016	true	267	0.0	0.2	95.4	68.8	27.9	8.3	1.7	2.6	36.7	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12009	paul		20013	update	13 Jun 2016	true	203	0.0	0.2	71.6	28.4	27.9	8.3	1.7	2.6	36.7	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11971	Logan		20013	update	29 May 2016	true	122	0.0	0.2	67.6	28.3	22.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11951	Logan		20013	update	22 May 2016	true	110	0.0	0.2	65.7	28.0	16.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11948	Logan		20013	update	20 May 2016	true	67	0.0	0.2	62.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11839	Stan		20013	update	03 May 2016	true	60	0.0	0.2	55.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

The HUB stores a complete tool history; memory logs, config files used, and calibration records.

File Name	Size (Byte)	Note	Upload Date	Uploaded By
/Tool/20008		upload file		downloaded folder
<i>[go up one folder level]</i>				
<input type="checkbox"/> ToolFeatures NCM.xls	77 k		6/27/2016 11:16	dave
<input type="checkbox"/> From Tool 20008 at 1606271143, To Tool 20008 at 1606271207.mwd	2 k		6/27/2016 11:16	dave
<input type="checkbox"/> NSB 2016 06 27 12 13 17.nsb	3 k		6/27/2016 11:13	dave
<input type="checkbox"/> From Tool 20008 at 1606071808.mwd	2 k		6/27/2016 17:08	nate
<input type="checkbox"/> STATE 2016 06 07 18 06 04.nsl	14 k		6/27/2016 17:06	nate
<input type="checkbox"/> RUN 2016 06 07 18 05 31.nrl	29 k		6/27/2016 17:06	nate

## Control files available to field users.

File Name
<a href="#">Filter Graph</a>
<a href="#">MWD Files</a>
<a href="#">Run Features</a>
<a href="#">Tool Config</a>
<a href="#">Tool Features</a>
<a href="#">Well Features</a>

Empower top level field operators to share customized graphs and MWD configuration files usable by anyone else on the team.

Use the Noralis HUB to store all well database files. Open anytime, anywhere.

<a href="#">New Well.wdb</a>	35	30 Apr 2016 01:03
<a href="#">Test 6 6.3a.wdb</a>	4 M	19 Apr 2016 01:03
<a href="#">Dave Well # 1.wdb</a>	347 k	07 Apr 2016 16:24

The HUB powers all Remote Operations Services. Have your MWD field operator control the rig from home while the oil company watches in real-time.

