OPERATOR:	**STATOIL PETROLEUM AS**
WELL:	**15/9-F-11**
WELLBORE:	**15/9-F-11**
FIELD:	**VOLVE**
RIG:	**MÆRSK INSPIRER**
COUNTRY:	**NORWAY**
DRILL PERMIT#:	**3562-P**

Report

WLC_PETROPHYSICAL_COMPOSITE_1.DLIS

Prepared by:	**LOGTEK AS**
Date:	**25-JUN-2013**

WLC_PETROPHYSICAL_COMPOSITE_1_INF_1

The WLC_PETROPHYSICAL_COMPOSITE_1.DLIS has been created in accordance with the NPD "**Guidelines to the Petroleum Regulations/REPORTING REQUIREMENTS FOR DIGITAL WELL DATA (Drilling Regulations, Section 12)**".
http://www.npd.no/Global/Norsk/5%20-%20Regelverk/Tematiske%20veiledninger/B_og_b_digital_rapportering_e.pdf

Purpose

To preserve 'specialist' composited data curves that may be created for a well but which do not fall into the 'standard' Composite (Section 3.1) or the 'Interpreted Data Input' data sets (described in Section 4.1). These data may have additional work done such as environmental or bed thickness corrections. This data set would normally be used by Petrophysicists. Operators are strongly recommended to report this data set in order to preserve value-added work.

Quality

Similar quality guidelines apply to the compositing work as described in Section 3.1.3 above. All work that is carried out must also be documented in an Information File.

Operationally, it is expected that both the 'standard' Composite Log and this 'specialized' Composite Log would normally be created in the same process but split into 2 data sets for reporting purposes. This ensures that the same depth shifting is applied to both data sets – an important quality requirement.

Content

Data that are not part of the 'Composited' or 'Interpretation Input' data sets. This may include:

- additional composited resistivity, NMR or other specialized curve data.
- composited data at high sampling rates for thin-bed analysis.
- a good guide is to include all 'presentation curves' from log prints (apart from those already included in the 'standard' composite). If quality curves such as Tension or Cable Speed are included (not a requirement), information must be included in the Information Files to show which data curves they refer to.

WLC_PETROPHYSICAL_COMPOSITE_1_INF_1

OPERATOR: STATOIL PETROLEUM AS
WELL: 15/9-F-11
WELLBORE: 15/9-F-11
FIELD: VOLVE
RIG: MÆRSK INSPIRER
COUNTRY: NORWAY
DRILL PERMIT#: 3562-P

MWD data plotted and verified to prints.

Depth units are meter.

Quality comments:
MWD OTK, run 3:
Data above 202 m logged in casing (depth from log heading).
Log comments:
Depth reference is driller's depth. All depths are measured depths (MD).
Gamma Ray is not corrected for borehole size and mud density in the 26" hole section.
Resistivity memory data in LWD Run#3 has been processed with data from three transmitters, due to transmitter #2 failure. This is also the cause of the post run verification failure.
No FE data was recorded in LWD Run#2, therefore the interval from the casing shoe to 224m (MD) was relogged in LWD Run#3 36.0 hrs after being drilled.
Logger's TD in well 15/9-F-11 at 347.6 m (MD).

Editing on WLC_PETROPHYSICAL_COMPOSITE_1.DLIS:
None

Depth shifts:
None.

CURVE SUMMARY, file WLC_PETROPHYSICAL_COMPOSITE_1.DLIS:

File #1. Increment: 0.1m

Main Services	Input Curve	Run no.	Date (start)	Interval (meter)	Merge depth (meter)	Depth shifted	Edited
MWD OTK	GRAFM	3	17-MAR-13	188.5-329.1		No	No
MWD OTK	GRSIM*	3	17-MAR-13	188.4-329.1		No	No
MWD OTK	RACEHM	3	17-MAR-13	202.0-331.3		No	No
MWD OTK	RACELM	3	17-MAR-13	202.0-331.3		No	No
MWD OTK	ROPAVG	3	17-MAR-13	224.1-346.9		No	No
MWD OTK	RPCEHM	3	17-MAR-13	202.0-331.3		No	No
MWD OTK	RPCELM	3	17-MAR-13	202.0-331.3		No	No
MWD OTK	RPCESHM*	3	17-MAR-13	202.0-331.3		No	No
MWD OTK	RPTHM	3	17-MAR-13	224.0-331.3		No	No
MWD OTK	TCDM	3	17-MAR-13	206.9-346.1		No	No
MWD OTK	WOBAVG	3	17-MAR-13	224.1-346.9		No	No

* Not presented on plot.

Definitions:

Dynamic depth shift *– variable depth shifting (stretch and pull) as opposed to linear depth shifting.*
Linear depth shift *– Constant depth shift through a certain depth interval.*
Reference curve *– Curve that will be used as the depth* ***Reference*** *for a set of logging curves.*
Offset Curve *– Curve that will be compared to the* ***Reference*** *curve in order to find required depth pairs.*
Curves shifted *– Curves that will be shifted with depth pairs found by comparing* ***Reference*** *to* ***Offset*** *curve.*
Observed *–* ***Observed*** *depth is the depth of a point before depth shifting.*
Actual *–* ***Actual*** *depth is the depth of the point after depth shifting.*

WLC_PETROPHYSICAL_COMPOSITE_1.DLIS completed:	**25-JUN-2013**
WLC_PETROPHYSICAL_COMPOSITE_1_INF_1.PDF completed:	**25-JUN-2013**