OPERATOR:	STATOILHYDRO
WELL:	15/9-F-9
WELLBORE:	15/9-F-9
FIELD:	VOLVE
RIG:	MAERSK INSPIRER
COUNTRY:	NORWAY
DRILL PERMIT#:	3007-P

Report

WLC_PETROPHYSICAL_COMPOSITE_1.DLIS

Prepared by: **LOGTEK AS**
Date: **02-FEB-2009**

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/regelverk/R2002/B_OG_B_DIGITAL_RAPPORTERING_E.HTM#Additional_Composited_Data

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.

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MWD data plotted and verified to prints.

Depth units are meters.

Quality comments:
MWD ARC, run 3:
Data above 909.8m logged in casing (depth from MWD log heading).
Log Remarks:
All depths are referenced to driller's depth and are checked at least every stand.
All data from tool memory.
All data acquired while drilling.
Gamma Ray measurement is environmentally corrected for mud weight, bit size and collar thickness.
Resistivity measurements are borehole compensated and require no environmental correction for borehole effect.
Mud system displaced from Seawater to Soludril-N WBM at 920.8m.
Resistivity fluctuation observed during displacement from 915.7m to 922.5m.
12 ¼ in. section TD at 1083.0m

Editing on WLC_PETROPHYSICAL_COMPOSITE_1.DLIS:
No editing applied.

Depth shifts:
No depth shifting performed.

CURVE SUMMARY, file WLC_PETROPHYSICAL_COMPOSITE_1.DLIS:

File #1, increment 0.1524:

Main Services	Input Curve	Run no.	Date (start)	Interval (meters)	Merge Depth (meters)	Depth shifted	Edited
MWD ARC	A28H	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	A34H	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	A40H	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	GR_ARC	3	30-AUG-08	899.8-1077.5		No	No
MWD ARC	P16H	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	P16L	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	P22H	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	P22L	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	P28H	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	P28L	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	P34H	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	P34L	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	P40H	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	P40L	3	30-AUG-08	899.8-1077.6		No	No
MWD ARC	ROP5_RM	3	30-AUG-08	899.8-1082.9		No	No
MWD ARC	TAB_ARC_RES	3	30-AUG-08	899.8-1077.6		No	No

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:	**02-FEB-2009**
WLC_PETROPHYSICAL_COMPOSITE_1_INF_1.PDF completed:	**02-FEB-2009**