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Log Run Summary

Run No.	Bit Run No.	Tool Run No.	Bit Size (in.)	Bit Type	Assembly Design	Logged Interval Top (ft)	Logged Interval Bottom (ft)	Bit Depth Interval From (ft)	Bit Depth Interval To (ft)	Date / Time Start	Date / Time End	Circ. Time (hrs.)
3	3	3	8.750	PDC	Downsite	6580.0	7676.0	617.0	7616.0	03/Aug/2013	06/Aug/2013	11.50

Crew

Name	Arrive	Depart
	Wellsite	Wellsite
Nicholas Rowan	03/Aug/2013	06/Aug/2013

Name	Arrive	Depart
	Wellsite	Wellsite
Kevin Sheridan	03/Aug/2013	06/Aug/2013

Name	Arrive	Depart
	Wellsite	Wellsite

Mud Properties Record

Date / Time	LWD Run No.	Measured Depth (ft.)	Mud Type	Density (SG)	Viscosity (cP)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	Sand (%)
05/Aug/2013	15.00	2	6592.0	Water Based	8.8	44	8.6	N/A	N/A	Flowline	1200	N/A
06/Aug/2013	22.00	2	6717.0	Water Based	10.0	42	8.5	N/A	N/A	Flowline	1600	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg	API
GRCX	Gamma Ray Density	points
DATX	Gamma Time Since Drilled	min
TCDX	Downhole Temperature	degF
ROP_AVG	Rate of Penetration, 0.5 ft. Avg	ft/hr
WOB_AVG	Surface Weight on Bit, 1.0 ft. Avg	klbs
GRID	Gamma Ray Sliding Indicator	unitless

Equipment and Service Data

LWD Run No.	Tool Number	Serial Number	Sensor Offset (ft.)	Min. Inc. (deg.)	Min. Azm. (deg.)
2	DIR	113K1434	48.80	6.760	5.125
2	SDN2	126SD547	43.42	6.760	5.125

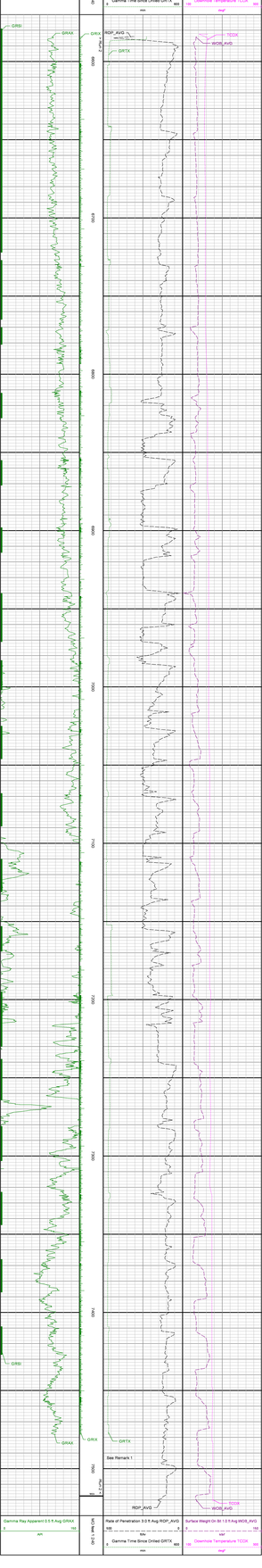
Service and Tool Mnemonics

Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SDN2	Inclination and Gamma	Probe based gamma ray and inclination module

Comments

1. Baker Hughes run 2, utilized 6 1/2 inch NeoGamma services (Gamma Ray and Directional) behind an 8 3/4 inch bit and downsite assembly from 617 to 7616 feet MD (617 to 7125 feet TVD).

(3) A sliding indicator is shown to the right edge of track 1 as a heavy line.

Remarks

Number	Measured Depth (ft.)	Azimuth (in.)	LWD Run No.	Remark
1	7616	6.500	2	The interval from 7676 to 7616 feet MD (7134 to 7125 feet TVD) was not logged due to sensor offset to bit at TD