

2019-06-13 01:00	2	6730.00	Diesel-Oil Based Mud	9.7	14	N/A	N/A	82/18	Active Pit	24000	0.00
2019-06-14 03:00	2	11503.00	Diesel-Oil Based Mud	9.8	16	N/A	N/A	82/18	Active Pit	28000	0.00
2019-06-15 15:30	2	16451.00	Diesel-Oil Based Mud	10.0	20	N/A	N/A	83/17	Active Pit	28000	0.00

Equipment and Service Data

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	NaviTrak	13249128	VSS	16.47	52.54	8.000	3.250
1	NaviTrak	13249128	Directional (mag)	16.47	52.54	8.000	3.250
2	AutoTrak Curve Steering Unit	14236902	Near Bit VSS	5.93	6.73	7.000	4.330
2	AutoTrak Curve Steering Unit	14236902	Near Bit Inclination	5.93	6.73	7.000	4.330
2	AutoTrak Curve MWD	14705223	Gamma (single)	2.77	12.90	7.000	3.250
2	AutoTrak Curve MWD	14705223	Directional (mag)	12.26	22.39	7.000	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
NTK	NaviTrak	Probe Based Directional Module, NaviTrak Platform
ATC SU	AutoTrak Curve SU	Auto Trak Curve Steering Unit
ATC MWD	AutoTrak Curve MWD	Auto Trak Curve MWD
ATC LCPM	AutoTrak Curve LCPM	Auto Trak Curve LCPM

Comments

- Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes, a GE company. Due to a lack of control by Baker Hughes, a GE company logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes, a GE company are being used to present logging data.
- Baker Hughes, a GE company run 1 utilized 8 inch Directional-only with NaviTrak service behind a 13 ½ inch bit an 8 inch steerable assembly from 23 to 1545 feet MD (23 to 1544 feet TVD) therefore, no logging data was acquired for this run.
- Baker Hughes, a GE company run 2 utilized 6 ¾ inch NaviGamma services (Gamma Ray and Directional) behind 8 ½ inch bit and rotary steerable assembly from 1545 to 16451 feet MD (1545 to 6338 feet TVD).
- Gamma Ray Apparent (GRAM) is presented 0 to 300 API per customer request.

Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	1545.00	8.500	2	Baker Hughes logging services began at 1545 feet MD (1544 feet TVD) per customer request.
2	16438.00	8.500	2	The interval from 16438 to 16451 feet MD (6338 feet TVD) was not logged due to sensor to bit offset at well TD.

Curve Mnemonics

Presented Curves	Description	Units
ROPA	Depth Averaged ROP 10 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 3 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 3 ft Average	API
TCDM	Directional Real-Time Survey Temperature	degF





























