



LWD MEMORY LOG

Gamma Ray

Scale:		Company: ConocoPhillips				
1:1200		Well:				
Measured Depth		Prosper_Farms_4-65_11-12_3DH				
Depth Reference:		Field:				
Driller's Depth		County:				
Status:		State:				
Final Print		Other Services:				
API No: 05005073810000		Surface Location:		Latitude: 039° 43' 02.200" N		
Job ID: 109660666		Longitude:		104° 38' 20.740" W		
Permanent Datum (P.D.): Ground Level		SEC: 11 TMN: 4S RGE: 6SW		Directional		
Log Measured From: Rig Floor		Elevation: 5668.00 ft		Elev. KB: N/A		
		Above P.D. 25.00 ft		Elev. DF: 5693.00 ft		
				Elev. GL: 5668.00 ft		
Dates		Interval Drilled		Magnetic Field Reference		
Date From: 2019-03-13		Top: (ft) 2167.00		Azi Reference North: True		
Date To: 2019-03-20		Bottom: (ft) 18010.00		Total Magnetic Field Strength: (nT)		
Spud Date: 2019-03-12				Mag to Reference North Correction: (deg)		
				8.33		
Borehole Record		Casing Record				
Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
13.500	25.00	2167.00	9.625	36.00	25.00	2154.00
8.500	2167.00	18010.00				

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Log Run Summary

Run No	Bit Run No.	Bit Size (in)	Bit Type	Bit Gauge Length (in)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Hours
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	1	8.500	PDC	6.00	AutoTrak Curve	2153.00	16414.00	2167.00	16427.00	2019-03-14 19:19	2019-03-18 13:25	82.29
2	2	8.500	PDC	6.00	AutoTrak Curve	16414.00	17997.00	16427.00	18010.00	2019-03-19 08:43	2019-03-19 20:32	15.16

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Adewale Adedeji	2019-03-13	2019-03-20						

Mud Properties Record

Date / Time	Run No.	Measured Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2019-03-13 07:00	1	2167.00	Oil Based Mud	9.8	14	N/A	N/A	77.3/22.7	Active Pit	46000	0.00
2019-03-15 00:00	1	3173.00	Oil Based Mud	9.8	14	N/A	N/A	77.3/22.7	Active Pit	46000	0.00
2019-03-15 12:00	1	6118.00	Oil Based Mud	9.6	14	N/A	N/A	79.5/20.5	Active Pit	49000	0.00
2019-03-15 22:00	1	7277.00	Oil Based Mud	9.4	12	N/A	N/A	79.7/20.3	Active Pit	47500	0.00
2019-03-16 10:00	1	8561.00	Oil Based Mud	9.4	14	N/A	N/A	79.5/20.5	Active Pit	48000	0.00
2019-03-16 22:00	1	10106.00	Oil Based Mud	9.4	13	N/A	N/A	79.5/20.5	Active Pit	47000	0.00
2019-03-17 10:00	1	12046.00	Oil Based Mud	9.4	16	N/A	N/A	80/20	Active Pit	48000	0.00
2019-03-17 22:00	1	14364.00	Oil Based Mud	9.5	17	N/A	N/A	79.8/20.2	Active Pit	47000	0.00

2019-03-17 22:00	1	14884.00	Oil Based Mud	9.6	17	N/A	N/A	79.9/20.2	Active Pit	47000	0.00
2019-03-18 10:00	2	16178.00	Oil Based Mud	9.6	17	N/A	N/A	79.4/20.6	Active Pit	46000	0.00
2019-03-18 22:34	2	16427.00	Oil Based Mud	9.6	17	N/A	N/A	79.4/20.6	Active Pit	46000	0.00
2019-03-19 10:00	2	16610.00	Oil Based Mud	9.6	8	N/A	N/A	79.7/20.3	Active Pit	50000	0.00
2019-03-20 00:00	2	18010.00	Oil Based Mud	9.6	14	N/A	N/A	78.9/21.1	Active Pit	47000	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	AutoTrak Curve Steering Unit	11813727	Near Bit Inclination	5.93	6.93	7.000	4.330
1	AutoTrak Curve Steering Unit	11813727	Near Bit VSS	5.93	6.93	7.000	4.330
1	AutoTrak Curve MWD	14146740	Gamma (single)	2.77	13.10	7.000	3.250
1	AutoTrak Curve MWD	14146740	Directional (mag)	12.29	22.62	7.000	3.250
2	AutoTrak Curve Steering Unit	13867778	Near Bit VSS	5.93	6.93	7.000	4.330
2	AutoTrak Curve Steering Unit	13867778	Near Bit Inclination	5.93	6.93	7.000	4.330
2	AutoTrak Curve MWD	14219805	Gamma (single)	2.77	13.10	7.000	3.250
2	AutoTrak Curve MWD	14219805	Directional (mag)	12.29	22.62	7.000	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
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



1	Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes, a GE Company (BHGE). Due to the lack of control by BHGE logging engineers, depth calibrations and measurements could not be independently verified.
2	BHGE LWD runs 1and 2 utilized 6.75 inch NaviGamma Services (Gamma Ray and Directional) behind a 8.5 inch bit and Rotary steerable assembly from 2167 to 18010 feet MD (2167 to 7781 feet TVD).

Remarks

Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
0	2167.00	8.500	1	BHGE logging services began at 2167 feet MD (2167 feet TVD) per customer request.
2	18010.00	8.500	2	The interval from 17997 to 18010 feet MD (7781 feet TVD) was not logged due to sensor to bit offset at 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 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 3 ft Average	API
TCDM	Downhole Temperature	degF

 	Company	ConocoPhillips			
	Well	Prosper_Farms_4-65_11-12_3DH			
	Interval	Date From:	2019-03-13 07:02	Top:	2167.00 ft
		Date To:	2019-03-20 15:42	Bottom:	18010.00 ft
	Created	2019-03-20 15:44:27			

