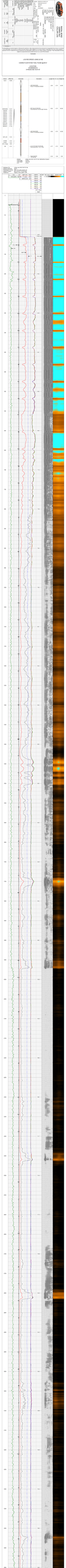

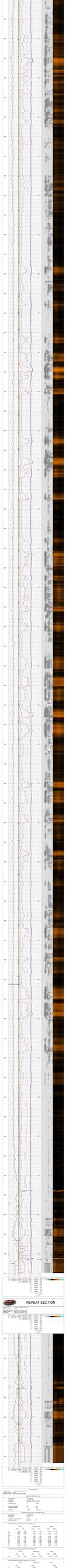

REPEAT SECTION

Company: Sperry Drilling Services
Rig Name: Nabors M 09
Job Number: 10-AK-A012-MW-01
Well Name: Kuparuk 3H-19
API Number: 50-029-23411-00
Field: Kuparuk River Unit
Legal Description: Sec 19 T12N R9E
Borehole: Original Hole

Survey Calculation Method: Minimum Curvature

Vertical Section Azimuth: 0.000°
Vertical Section Origin: 0.00 ft, 0.00 ft
TVD Reference Datum: Rotary Table
TVD Reference Elevation: 0.00 ft above MSL
Seabed / Ground Elevation: 0.00 ft above MSL
Magnetic Declination: 17.000°
Total Field Strength: 57552.000 nT
Magnetic Dip Angle: 80.900°
Declination Date: 1/28/2010
Magnetic Model: BGGM 2009
North Reference: True North
Total Corr Mag North->True North: +17.000°
Local Coordinates Referenced To: Well Head

Comments	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLS	Build	Turn
	ft	°	°	ft	ft	ft	°/100ft	°/100ft	°/100ft
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00

5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000