Product List

Part 1 - **Cased Hole Wireline (HD Platform)**

Section I: **Memory & Telemetry**

Memory Logging

• Memory Logging Tool - HD	1.38 In	MLT102
• Memory Logging Tool - HD	1.69 In	MLT002
• Battery Sub for HD Memory Tools	1.38 In	MBS103
• Battery Sub for HD Memory Tools	1.69 In	MBS003-004
• Battery Sub for HD Memory Tools	1.69 In	MBS006

Telemetry

• Telemetry Control Unit - HD	1.38 In	TCU101
• Telemetry Control Unit - HD	1.69 In	TCU002
• TCU - Gamma Ray - Casing Collar Locator Tool - HD	2.75 In	TGC003

Bullnose

• Terminated Bullnose	1.38 In	TBN101-102
• Terminated Bullnose	1.69 In	TBN001-002

Section II: **Well Integrity**

Multi-Arm Calipers

• ProMAC™ 24 (Multi-Arm Caliper Tool) - HD	1.69 In	050-MAC24-1100
• ProMAC™ 40 (Multi-Arm Caliper Tool) - HD	2.75 In	050-MAC40-1100
• ProMAC™ 60 (Multi-Arm Caliper Tool) - HD	3.75 In	050-MAC60-1100

Cement Evaluation

• RADii© (Radial Bond Tool) - HD	1.69 In	050-RB169-1000
• RADii© (Radial Bond Tool) - HD	2.75 In	050-RB275-1000
• RADii© (Radial Bond Tool) - HD	3.50 in	050-RB350-1000

Electro-Magnetic Thickness

• iQ™ (Magnetic Properties Tool) - HD	2.75 In	050-CI275-1100
• iQ™ (Magnetic Properties Tool) - HD	3.50 in	050-CI350-1100

Section III: **Formation Evaluation**

Spectral Gamma

• Spectral Gamma Ray - CCL Tool - HD	2.75 In	SGRCL02

Pulsed Neutron

• RAS™ (Reservoir Analysis Sonde™) Tool - HD	1.69 In	RAS002
• RAS™ (Reservoir Analysis Sonde™) Tool - Sigma Only - HD	1.69 In	RAS003
• Safety Sub for RAS™	1.69 In	RSS001
• Calibration Verification Tank for RAS™ - Insert	NA	050-CBCAL-0055

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Section IV: **Production Logging**

Array Production Logging

• Array Fluid Capacitance Tool - HD	1.69 In	AFC001
• Array Fluid Resistance Tool - HD	1.69 In	AFR002
• Array Fluid Velocity Tool - HD	1.69 In	AFV002
• Array Fluid Velocity Resistance Capacitance Tool - HD	1.69 In	VRC001
• Array Gas Hold Up Tool - HD	1.69 In	AGH001

Caliper

• X-Y Caliper Tool - HD	1.69 In	XYC002

Capacitance

• Combined Capacitance Flow Electronics Temperature Tool - HD	1.38 In	CFT104
• Combined Capacitance Flow Electronics Temperature - Slim HD	1.38 In	CFT101
• Combined Capacitance Flow Electronics Temperature Tool - HD	1.69 In	CFT004
• Fluid Capacitance Tool - HD	1.69 In	FCT004

Fluid Density

• Fluid Density Tool - HD	1.38 In	FDT101
• Fluid Density Tool - HD	1.69 In	FDT001
• Fluid Density Tool - Third Party - HD	1.69 In	FDT002
• Tuning Fork Density Tool - HD	1.69 In	TFD001

Fluid Velocity

• Flowmeter - In-Line - 1.38 x 1.69 - HD	1.38 In	IFM101
• Flowmeter - In-Line - 1.38 x 1.50 - HD	1.38 In	IFM105
• Flowmeter - In-Line - 1.69 / 2.125 / 3.15 - HD	Multiple	IFM001,002,004
• Flowmeter and Temperature Electronics Tool - HD	1.38 In	FLTE101
• Flowmeter and Temperature Electronics Tool - HD	1.69 In	FLTE01
• Spinner - Fixed Cage - Mechanical - HD	1.38 In	FCSM101-102-104
• Spinner - Fixed Cage - Mechanical - HD	1.69 In	FCSM01-02-04
• Spinner - Full Bore - Mechanical - HD	1.38 In	FBSM101
• Spinner - Full Bore - Mechanical - HD	1.69 In	FBSM01
• Spinner - Full Bore - Mechanical - Titan Compatible - HD	1.69 In	FBSM02

Inclinometer

• Inclinometer - Dual Axis - HD	1.69 In	DAI001

Pressure

• Pressure Tool - Quartz - HD	1.38 In	QPT101
• Pressure Tool - Quartz - HD	1.69 In	QPT001

Temperature

• Temperature Tool - Fast Response - HD	1.69 In	FRT001

Tension - Compression

• Tension and Compression Tool - HD	1.69 In	TCT001

Ancillary

• Hand Tool Kit for Production Logging	NA	Multiple

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Section V: **Well Intervention**

Gamma Ray & CCL

• Gamma Ray - Casing Collar Locator Tool - HD	1.38 In	GCL101
• Gamma Ray - Casing Collar Locator Tool - HD	1.69 In	GCL001
• Gamma Ray - Casing Collar Locator Tool - HD	2.75 In	GCL003

Section VI: **Surface Systems**

• Dummy Logging Cable Line Simulator	NA	DLC002
• HD Interface Panel	NA	HIP002
• HD Logging Panel	NA	HLP001
• HD Tool Interface Box	NA	TIB001
• Modem - HD Surface Telemetry Board	NA	HSM002

Section VII: **Ancillary**

Crossovers

• Crossovers - HD - GO to GO	1.38 In	HXO014
• Crossovers - HD	1.69 In	HXO009-010

Knuckle & Swivel Joints

• Knuckle Joint Tool	1.38 In	KJT101
• Knuckle Joint Tool - w/ Banding	1.69 In	KJT003
• Knuckle Joint Tool	1.69 In	KJT001
• Knuckle Joint Tool	2.125 In	KJT002
• Swivel Joint Tool	1.69 In	SJT001

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Part 2 - **Cased Hole Wireline (PTX & Others)**

Section I: **Well Integrity**

Cement Evaluation

• Cement Bond Tool	1.69 In	050-CB170-1000C
• Cement Bond Tool - High Temperature	1.69 In	050-CB170-0HTD
• Cement Bond Tool	2.75 In	050-CB275-1350C
• RADii© (Radial Bond Tool) - PTX	1.69 In	050-RADII-170C
• RADii© (Radial Bond Tool) - High Temperature - PTX	1.69 In	050-RADII-170HT
• RADii© (Radial Bond Tool) - PTX	2.75 In	050-RADII-275C
• RADii© (Radial Bond Tool) - High Temperature - PTX	2.75 In	050-HTRCB-275
• RADii© (Radial Bond Tool) - w/ Temperature - PTX	2.75 In	050-RADII-275T
• RADii© (Radial Bond Tool) - PTX	3.50 in	050-RADII-350A
• Vacuum Pump	NA	039-00220-0050
• Vacuum Pump Station	NA	039-00220-0001

Electro-Magnetic Thickness

• iQ™ (Magnetic Properties Tool) - PTX	2.75 In	050-CI275-0001
• iQ™ (Magnetic Properties Tool) - PTX	3.50 in	050-CI350-0001

Multi-Arm Calipers

• ProMAC™ 24 (Multi-Arm Caliper Tool) - PTX	1.69 In	050-MAC24-1000
• ProMAC™ 40 (Multi-Arm Caliper Tool) - PTX	2.75 In	050-MAC40-1000
• ProMAC™ 60 (Multi-Arm Caliper Tool) - PTX	3.75 In	050-MAC60-1000
• X-Y Caliper Tool - Digital w/ Temperature	3.50 In	050-FH00D-200T

Gamma Ray & CCL

• Gamma Ray Tool	1.69 In	050-GR170-SA01
• Gamma Ray - Casing Collar Locator Tool	1.69 In	050-GR170-0000
• Gamma Ray - Casing Collar Locator Tool - Corrosion	1.69 In	050-GR170-00C3
• Gamma Ray - Casing Collar Locator Tool - High Temperature	1.69 In	050-GR170-HTFT
• Gamma Ray - Casing Collar Locator Tool - 6 Pin	2.75 In	050-GC275-0001
• Gamma Ray - Casing Collar Locator Tool	2.75 In	050-GC275-0000
• Gamma Ray - Casing Collar Locator Tool - High Temperature	2.75 In	050-HTGC-275
• Gamma Ray - Casing Collar Locator - Inclinometer Tool	1.69 In	050-GI170-0000
• Gamma Ray - Casing Collar Locator - Inclinometer Tool	2.75 In	050-GI275-0000
• Gamma Ray - Casing Collar Locator - Temperature Tool	1.69 In	050-GR170-00CT
• Gamma Ray - Casing Collar Locator - Temperature Tool	2.75 In	050-GCT275-0000
• Gamma Ray - CCL - Temperature Tool - Big Pipe - 6 Pin	2.75 In	050-GCT275-0BP2
• Gamma Ray - CCL - Temperature Tool - Big Pipe	2.75 In	050-GCT275-0BP0
• Gamma Ray - CCL - Temp Tool - Big Pipe - High Temperature	2.75 In	GCL004
• Gamma Ray Verification Blanket	NA	001-50800-THOR

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Section II: **Formation Evaluation**

Neutron

• Compensated Neutron Tool	2.75 In	050-CN275-WSBL
• Gamma Ray - CCL - Neutron - Inclinometer Tool	1.69 In	050-GN170-00C3
• Gamma Ray - CCL - Neutron - Inclinometer - Temperature Tool	1.69 In	050-GN170-00CT

Section III: **Production Logging**

Slim PL

• 3-Arm Caliper	1.38 In	050-C1375-0001
• Casing Collar Locator	1.38 In	050-CC1375-0000
• Gamma Ray Tool - 1x12 Geiger	1.38 In	050-GR137-0000
• Temperature Tool	1.38 In	050-T1375-0000
• Pressure - Temperature - Casing Collar Locator Tool	1.38 In	PTSCCL1

Leak Detection

• Motorized Ejector Tool	1.38 In	050-E1375-0000
• Noise Survey Tool	1.38 In	050-N1375-0000

Section IV: **Well Intervention / Perforating**

Firing Heads - Triggers

• IntelleX™ Firing Head (Trigger) - Dynawell - Low Power	Multiple	SEN-0010-0325
• IntelleX™ Firing Head (Trigger) - EBW - Low Power	Multiple	SEN-0010-0316
• IntelleX™ Firing Head (Trigger) - RED-Green Det - Low Power	Multiple	SEN-0010-0327

Gamma Guns

• Gamma Gun - Geiger Muller - Dual Fire	1.69 In	050-GG170-00DF
• Gamma Gun - Geiger Muller - Single Fire	1.69 In	050-GG170-0000
• Gamma Gun - Scintillation - Dual Fire	1.69 In	050-GG170-10DF
• Gamma Gun - Scintillation - Dual Fire - High Temperature	1.69 In	050-GG170-HTDF
• Gamma Gun - Scintillation - Single Fire	1.69 In	050-GG170-1000
• Gamma Gun - Geiger Muller - Dual Fire	2.75 In	050-GG275-00DF
• Gamma Gun - Geiger Muller - Single Fire - Shoot Negative	2.75 In	050-GG275-0000
• Gamma Gun - Geiger Muller - Single Fire - Shoot Positive	2.75 In	050-GG275-00SP
• Gamma Gun - Scintillation - Dual Fire	2.75 In	050-GG275-10DF
• Gamma Gun - Scintillation - Dual Fire - High Temperature	2.75 In	050-GG275-HTDF
• Gamma Gun - Scintillation - Dual Fire - Shoot Positive	2.75 In	050-GG275-10SP
• Gamma Gun - Scintillation - Single Fire	2.75 In	050-GG275-1000
• Gamma Gun - Geiger Muller - Dual Fire	3.125 In	050-GG313-00DF
• Gamma Gun - Scintillation - Dual Fire	3.125 In	050-GG313-10DF

Shooting CCLs

• Shooting Casing Collar Locator Tool	1.70 In	SCL002
• Shooting Casing Collar Locator Tool	2.75 In	SCL003
• Shooting Casing Collar Locator Tool	3.25 In	SCL005

Ultra-Fast Gauges

• IntelleX™ Ultra-Fast Gauge - 1.0 & 1.20 In	Multiple	SEN-0010-0058

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Logging CCLs

• Casing Collar Locator Tool	2.75 In	050-CC275-0000
• Casing Collar Locator Tool - Six Magnet - Big Pipe	2.75 In	050-CC275-0100

Correlation Tools

• IntelleX™ Memory Correlation Tool	1.69 In	SEN-0010-0071
• IntelleX™ Fast Sampling Pressure - Temperature - CCL Tool	Multiple	SEN-0010-0059
• IntelleX™ E-Coil Tool	1.69 In	SEN-0010-0063

Non-Ballistic Setting Tools

• iSet™ Electro-Hydraulic Setting Tool	Multiple	SEN-0010-0216

Shooting Panels

• ProShooter™ Shooting Panel - Addressable Switch	NA	035-WAR00-AS00
• ProShooter™ Shooting Panel - Dump Fire	NA	035-WAR00-00DF
• ProShooter™ Shooting Panel - Dump Fire - USB	NA	035-WAR00-USBDF
• ProShooter™ Shooting Panel - Portable	NA	035-WAR00-PORT

Ancillary Panels

• Line Select Panel	NA	035-WAR03-0000
• Stray Voltage Potential Monitor	NA	072-STRAY-VOLT
• Wireless Shot Detection System	NA	050-SHDET-0000

Section V: **Ancillary**

Centralizers

• Bowspring - 3-Arm Centralizer	3.50 In	050-FG010-BH01
• Bowspring - 4-Arm Centralizer	1.69 In	050-BC170-0000
• Bowspring - 4-Arm Centralizer	2.75 In	050-BC275-0000
• Bowspring - 4-Arm Centralizer - Roller	2.75 In	050-BC275-ROLR
• Helical - 3-Arm Centralizer	1.38 In	HAC005
• Helical - 4-Arm Centralizer	1.69 In	HAC001
• Helical - 4-Arm Centralizer - High Temperature	1.69 In	HAC001-HT
• Helical - 4-Arm Centralizer - No Feed-Through	1.69 In	HAC009
• Helical - 4-Arm Centralizer	2.125 In	HAC003

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Part 3 - **Advanced Monitoring**

Section I: **Downhole Instrumentation**

Downhole Gauges

• IntelleX™ Quartz High Pressure - High Temperature Gauge	Multiple	SEN-0010-0356
• Quantum™ 150°C Piezo Memory Gauge	1.50 In	18600-100-10
• Quantum™ 150°C Quartz Memory Gauge	1.25 In	18600-250-05
• Quantum™ 177°C Quartz Memory Gauge	1.25 In	18600-275-05

Depth Loggers

• Probe Depth Logger	NA	SEN-0024-0108
• Probe Depth Logger Encoder	NA	SEN-0010-0105

Section II: **Well Monitoring**

Downhole Gauges

• KPerm™ Piezo Downhole Gauge	1.19 In	SP103-100-201
• KPerm™ Quartz Downhole Gauge	1.00 In	18703-971
• KPerm™ KPG Pressure / KTG Temperature Gauge	1.25 In	10000-200
• KPerm™ Piezo Multi-Drop Gauge	1.90 In	MP203-030-406

Surface Acquisition

• KPerm™ Surface Data Acquisition Card	NA	AN009-000-010
• KPerm™ Surface Read Out Enclosure	NA	AN009-000-002

Mandrels

• Permanent Gauge Mandrel - Solid	5.91 In	AN001-100-217
• Permanent Gauge Mandrel - Welded	3.816 In	AN001-050-205

Ancillary

• Cable for Downhole Permanent Gauges	Multiple	AN004-150-004
• Cable Protectors for Downhole Permanent Gauges	Multiple	18700-641
• Wellhead Outlet for Downhole Permanent Gauges	Multiple	500-0043

Section III: **Geothermal & Ultra-High Temperature Logging**

Gauges

• Quantum™ Geothermal Pressure - Temperature (PT)	1.75 In	18600-400
• Quantum™ Geothermal Pressure - Temperature - Spinner (PTS)	2.125 In	18600-550

Calipers

• Ultra-High Temperature X-Y Caliper Tool	2.125 In	18650-500

PTS - Gamma - CCL

• ProTherma™ PTS	Multiple	18650-100

Section IV: **Surface Systems**

Warrior

• Scientific Data Systems© Warrior™ Well Logging System Panel	NA	9002-00001-0001

OPAL

• ALT™ OPAL™ Acquisition System Panel	NA	18650-550

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