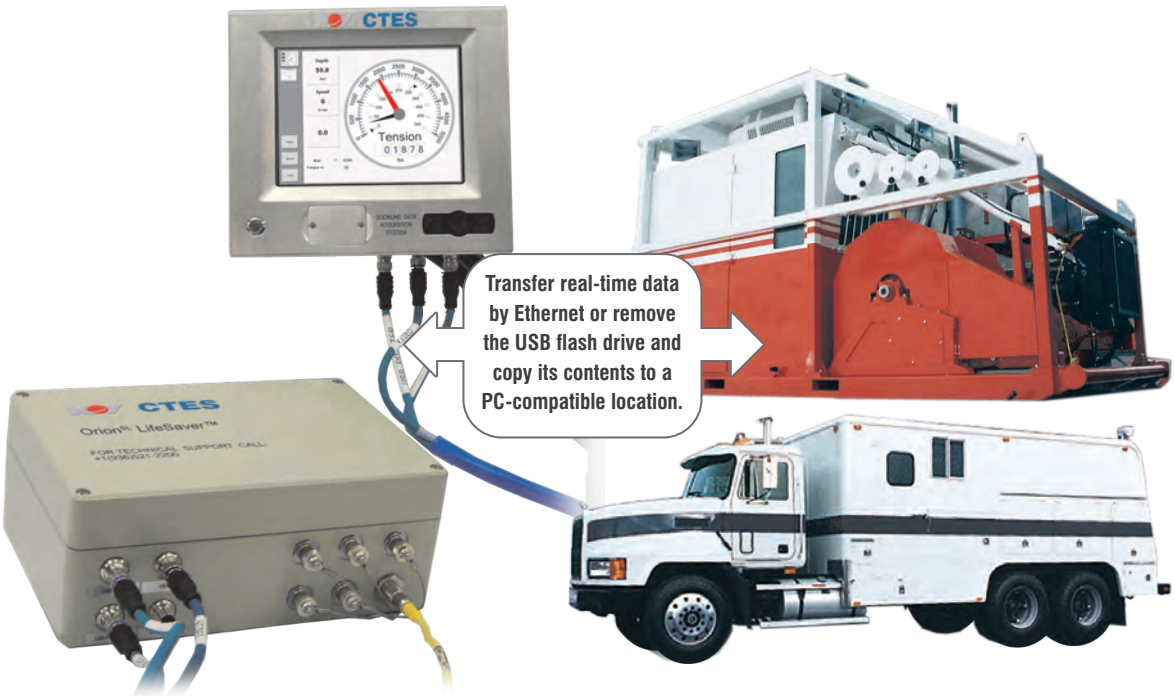
Orion^{SL} LifeSaver™

DATA ACQUISITION SYSTEM FOR SLICKLINE FATIGUE LIFE TRACKING

The NOV® CTES Orion^{SL} LifeSaver™ acquires, records, and displays slickline operating data to estimate fatigue along the length of a slickline. The system's calculated remaining fatigue life information is useful to help avoid costly field failures and to optimize the slickline replacement schedule.

The Orion LifeSaver monitors slickline forces and bending events as tools are run in and out of the well. The standalone system records slickline depth information via an encoder mounted on a measuring device.

Useful for post-job modeling, Orion LifeSaver's job data is written continuously (one time per second) onto a USB flash drive.



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SOFTWARE FEATURES AND BENEFITS:

OrionNET™ software arrives pre-installed in the unit:

- Provides real-time slickline fatigue calculations
- Acquires, displays, and records depth, tension, line speed, and one additional analog data channel
- Allows users to see rapidly changing values in tension or depth via a high-speed data display (event-driven; up to 10 times per second)
- High-speed, sensitive tension display detects "tickle" (small variations in tension) when moving past downhole restrictions
- Large graphical display screen includes analog gauge, strip chart, and easy-to-read digital displays
- Easy operation: single switch provides "power on and go" data acquisition and USB media storage
- User-set alarms for all input channels drive digital output for horns, lights, or relays
- Easy zero or calibration of input sensors
- English or Metric units

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NOV CTES

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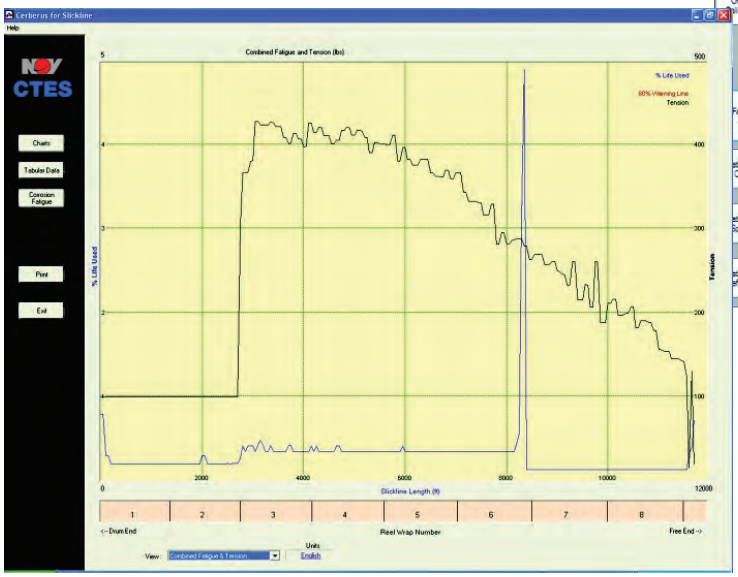
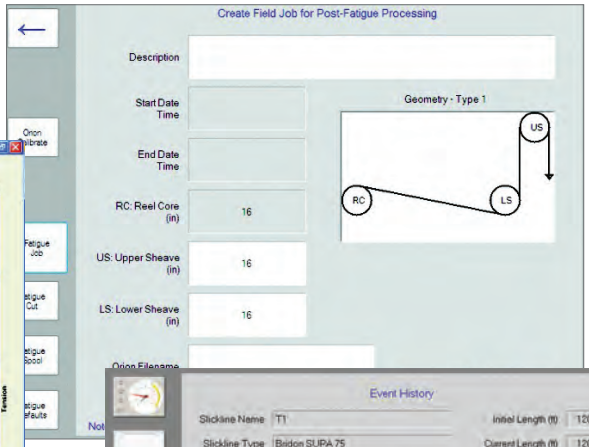
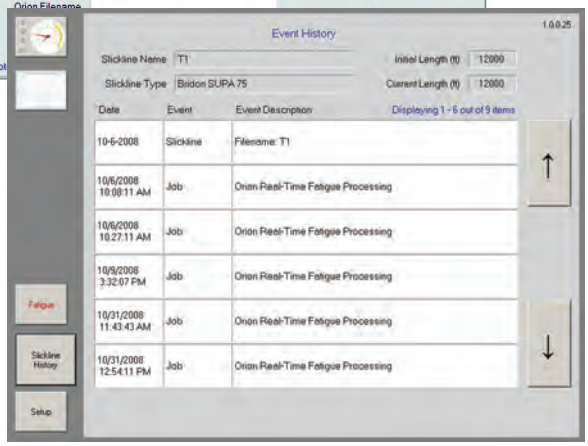
OrionNET software is pre-installed in the Orion LifeSaver unit.



Review Percent (Fatigue) Life Used and Tension



Control Job Parameters



Review Event History

Specifications

ELECTRICAL	
Control Box	
CPU	500Mhz Pentium® MMX
Input/Output	2 quadrature inputs
	2 Analog inputs 4-20mA current loop sourced
	2 outputs 24V at 500mA
Memory	Storage 2GB USB
Communications	Ethernet
Operating Voltage	12VDC at 1.5A
Humidity	98% without condensation
Operating temperature	-35º C to 65º C
Storage temperature	-40º C to 75º C
Shock/Vibration	40g MIL-STD-810F
Protection	IP 67
Display	
Type	8.4" Color TFT LCD
Resolution	800 x 600
Back Light	CCFT
Brightness	400 NIT
Touch Screen	Yes
Operating Voltage	12VDC at 1A
Operating Humidity	98% without condensation
Operating temperature	-5º C to 55º C
Storage temperature	-20º C to 60º C
Shock/Vibration	40g MIL-STD-810F
Protection	IP 65

Electrical Features	● Up to 3000ft/min @ 500 pulses/ft ● Dual-wheel measuring capability ● Monitor has standard flat-panel mounting bracket for use with any standard commercial swing arm
Electrical Options	● Up to one hour of battery back-up time in case of power interruption

MECHANICAL HARDWARE	
Control Box	
Weight	10 lbs
Length	12"
Height	8"
Width	5"
Display	
Weight	8 lbs
Length	10.5"
Height	9.5"
Width	3"
Viewing Area	8.4" diagonal

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D392002013-MKT-001 Rev. 05