



OPENFIELD™

TECHNOLOGY

MICRO INSTRUMENTS FOR HARSH ENVIRONMENTS

FAST

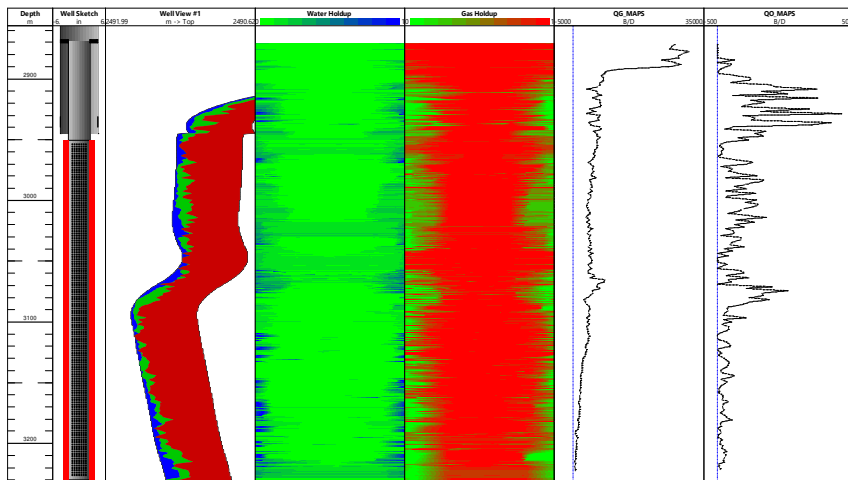
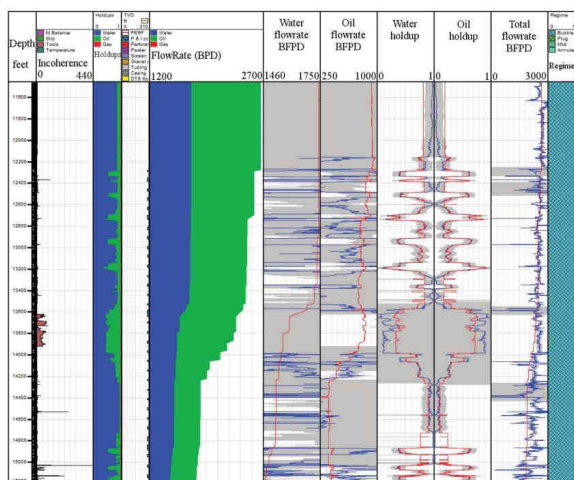
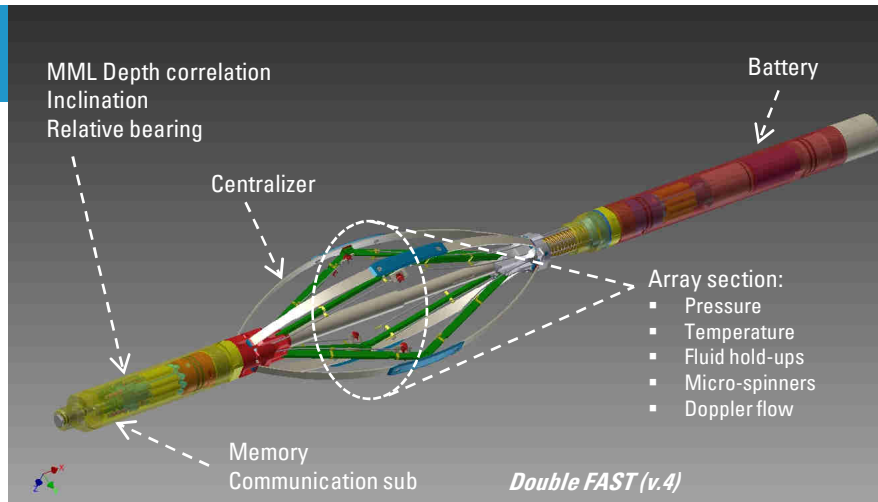
Flow Array Sensing Tool

**UNIQUE SOLUTION FOR ADVANCED
DOWNHOLE FLOW DIAGNOSTICS**

**MULTIPHASE FLOWS
DEVIATED AND HORIZONTAL WELLS**

**EXTENDED FLOW RATE RANGE
EXTENDED HOLD UP RANGE**

**ULTRA COMPACT
MODULAR
COLOCATED SENSORS**



INTERCHANGEABLE ARRAY PROBES



Spaghetti FAST

Fluid identification	<ul style="list-style-type: none"> Gas hold-up optical probe Triphasic optical probe Water hold-up conductivity probe Water hold-up capacitance probe Fluorescence probe
Flow rate	<ul style="list-style-type: none"> Mini-spinners (low threshold) Micro-spinners (high velocities) Ultrasonic Doppler probe
Pressure	Openfield™ MEMS pressure sensor – tube shape
Temperature	High resolution temperature array imaging

Mix and match according to well type and job objectives



Array probes

The OpenField™ FAST – Flow Array Sensing Tool

TOOL SPECIFICATIONS

10 times shorter than state
of the art array-PLTs

	"The Memory FAST" (aka v.2)	"The Throughwire FAST"	"The Double FAST" (aka v.4)	"The Spaghetti FAST"
OD	1 - 11/16 in. (43 mm)			1 – ¼ in. (31.75 mm)
Length	34 in. (86 cm)	42 in. (107 cm)	42 in. (107 cm)	32 in. (80 cm)
Pressure	10 kPSI (15 kPSI option available)			
Temperature	257°F (302°F option available)			
Max casing ID	7 in. (178 mm)			4 in. (101.6 mm)
Number of arms	4	4	4	3
No. of replaceable array probes	8	8	16	12
Corrosion	NACE compliant materials – Stainless steel 316 L, Inconel, Nickel, Sapphire			
Shocks	250 G, 2 ms			
Power supply	D-battery 3.6 V 150 hours of continuous recording and real-time acquisition			C-battery 3.6 V 80 hours
Memory	192 MB: 24 hours at 16 Hz, 8 days at 2 Hz	192 MB: 24 hours at 16 Hz, 8 days at 2 Hz	384 MB: 48 hours at 16 Hz, 16 days at 2 Hz	192 MB: 24 hours at 16 Hz, 8 days at 2 Hz
Top connexion	Sucker rod 15/16" PIN	Inverted GO PIN	Inverted GO PIN	Sucker rod 15/16" PIN
Bottom connexion	Sucker rod 15/16" BOX	Inverted GO BOX	Inverted GO BOX	Sucker rod 15/16" BOX
Acquisition	<ul style="list-style-type: none"> Memory Plug & Play USB to Openfield™ FAST Recorder software 	<ul style="list-style-type: none"> Real time or memory Compatible with the Openfield™ FAST SRO telemetry system 		
Centered measurements included	<ul style="list-style-type: none"> MEMS Pressure Accuracy 1 PSI Resolution 0.01 PSI Temperature Platinum RTD Accuracy 0.1°C Resolution 0.01°C Fullbore Doppler flowrate Depth correlation MML Resolution 0.1 m Inclination 0-90° ± 1 Relative bearing 0-360° ± 3 		<ul style="list-style-type: none"> Depth correlation MML Resolution 0.1 m Inclination 0-90° ± 1 Relative bearing 0-360° ± 3 	<ul style="list-style-type: none"> Depth correlation MML Resolution 0.1 m Inclination 0-90° ± 1 Relative bearing 0-360° ± 3
Optional	Tandem acquisition for cross-correlation	<ul style="list-style-type: none"> Throughwire Caliper (1d) for Casing ID Additional Temperature RTD 	<ul style="list-style-type: none"> Fullbore Doppler flowrate Can be deployed in axial configuration 	

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