

PSP Interpretation Results - Prelim

Company: University of Utah
Well: Forge 16A(78)-32
Field: Wildcat
County: Beaver, Utah
Log Date: 17-Aug-2024
Log Analyst: Leonid Kolomytsev / Casey Chadwick



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Interpretation Results

Injection Test Results: Stage

Stage	Perforations		Water (bpd)	Water (%)
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10	9270	9276	-3728.4	25.8%
9	9320	9493	-2539.4	17.6%
8	9545	9723	-3768.7	26.1%
7	9798	9901	0.0	0.0%
6	9959	9976	0.0	0.0%
5	10020	10026	-604.2	4.2%
4	Below 10026		-3825.7	26.4%
3R				

Totals			-14466.4	100.0%
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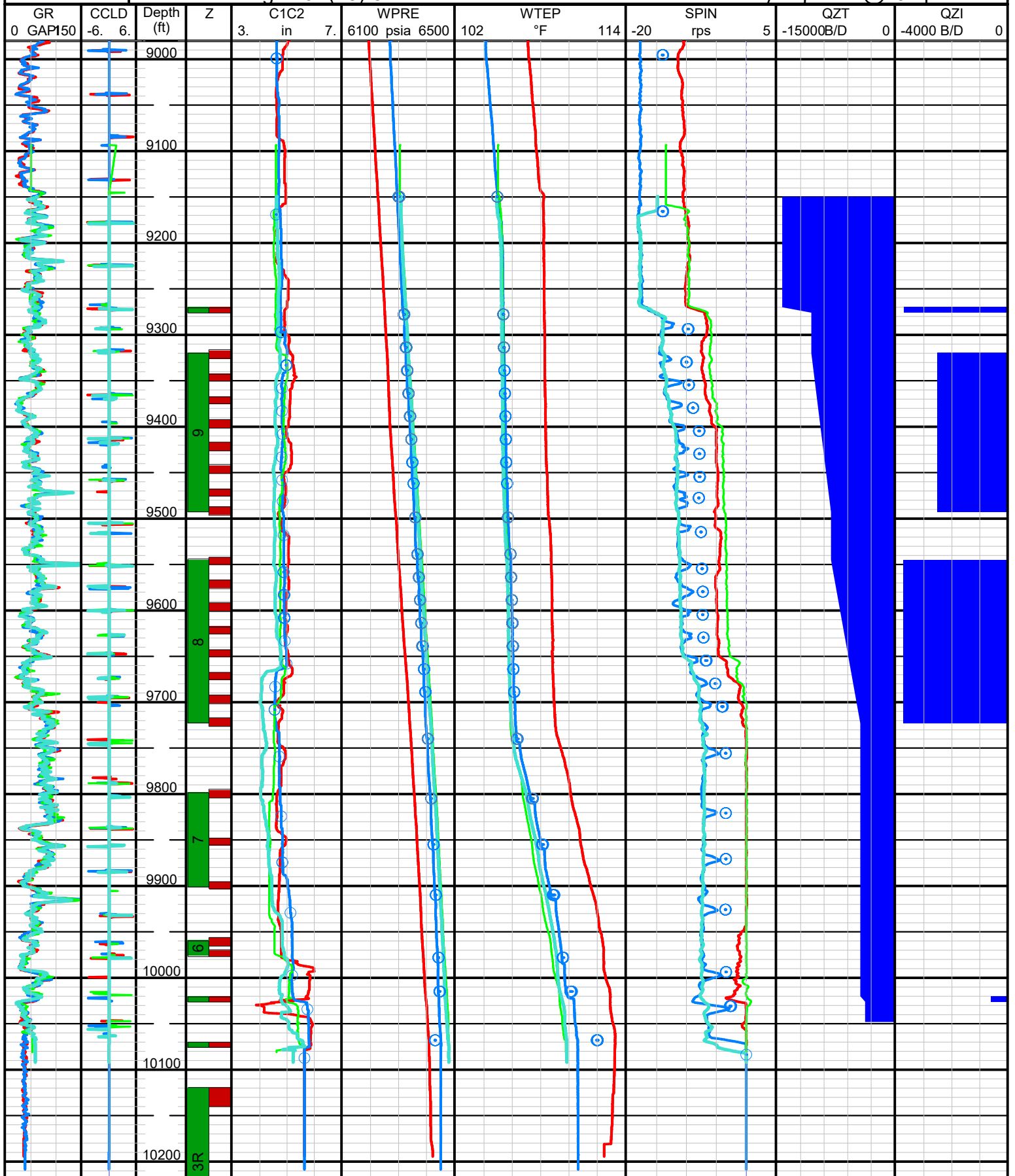
Injection Test Results: Detail

Stage	Perforations		Water (bpd)	Water (%)
10	9270	9276	-3728.4	25.8%
9	9320	9323	-201.5	1.4%
	9345	9348	-362.8	2.5%
	9370	9373	-644.9	4.5%
	9395	9398	-725.5	5.0%
	9420	9423	-151.2	1.0%
	9445	9448	-90.7	0.6%
	9470	9473	-100.8	0.7%
	9490	9493	-262.0	1.8%
8	9545	9548	-100.8	0.7%
	9570	9573	-100.8	0.7%
	9595	9598	-80.6	0.6%
	9620	9623	-201.5	1.4%
	9645	9648	-1410.7	9.8%
	9670	9673	-1007.7	7.0%
	9695	9698	-443.4	3.1%
	9720	9723	-423.2	2.9%
7	9798	9801	0.0	0.0%
	9850	9853	0.0	0.0%
	9898	9901	0.0	0.0%
6	9959	9962	0.0	0.0%
	9970	9976	0.0	0.0%
5	10020	10026	-604.2	4.2%
4-3R	below 10026		-3825.7	26.4%
Totals			-14466.4	100.0%



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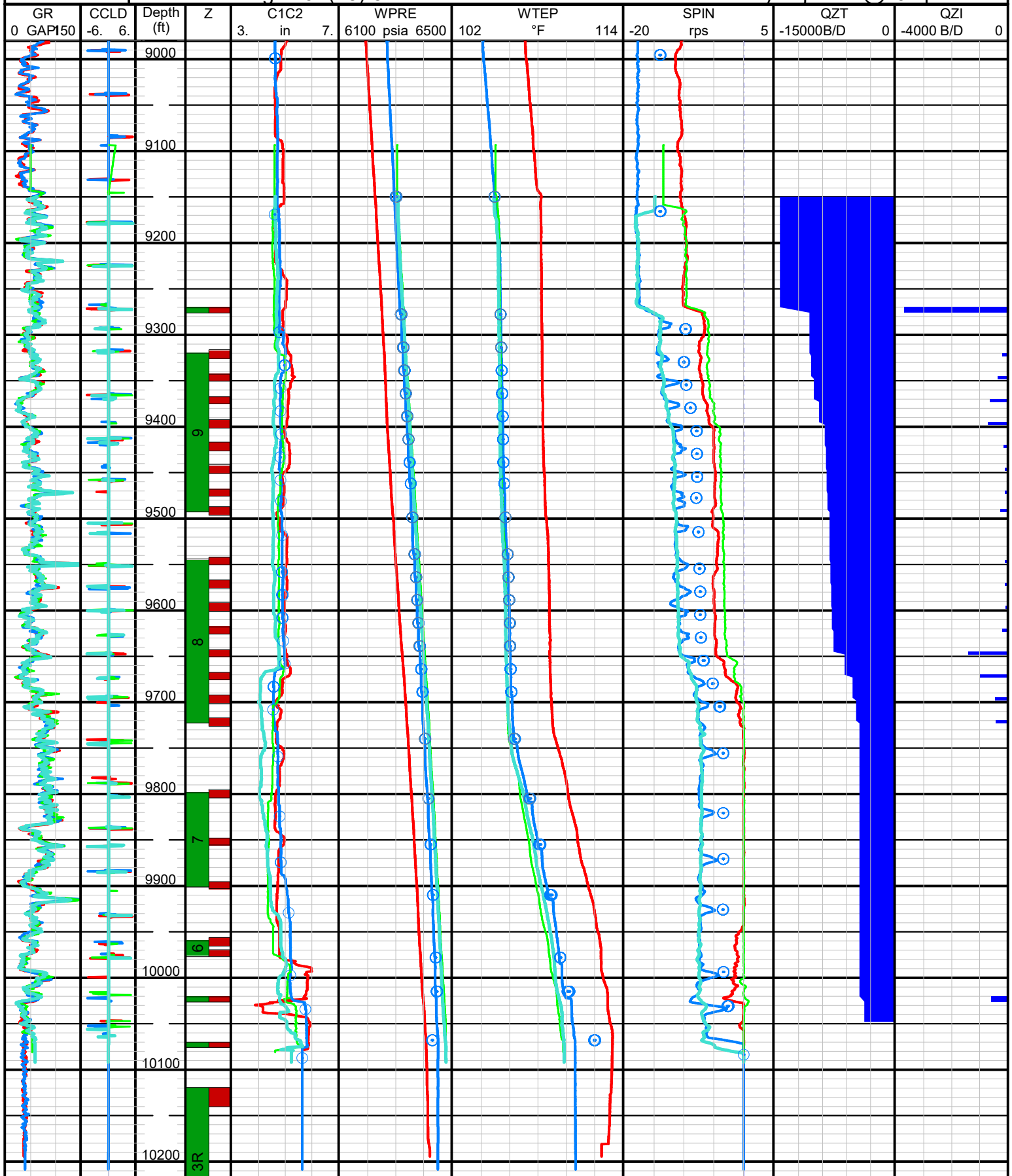
Test: HT PSP
Date: 17-Aug-2024
Survey: Injection@10 bpm





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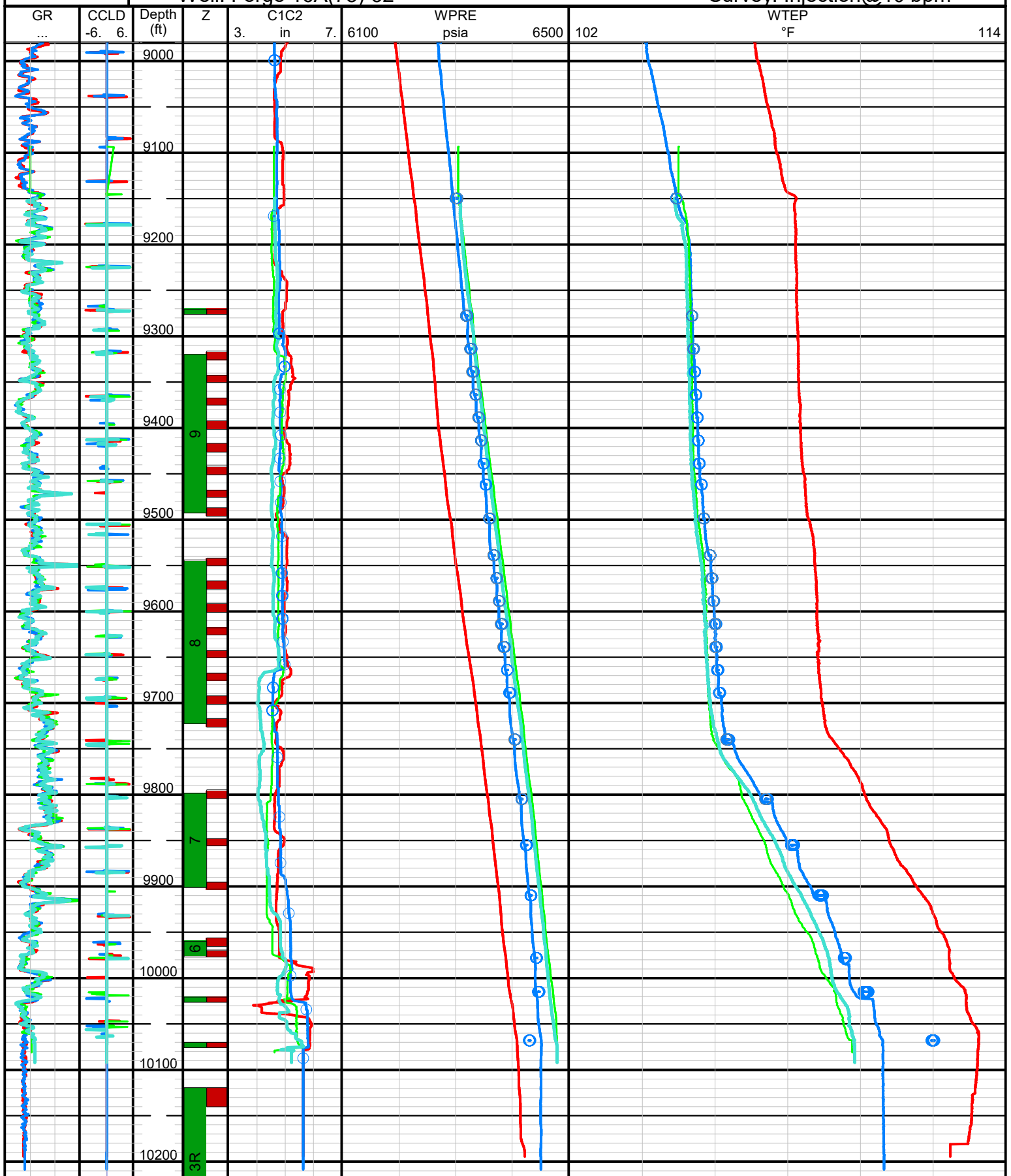


Hi-Temp PSP - Pressure & Temperature

UnivUtah_Forge_16A(78)-32_HT...

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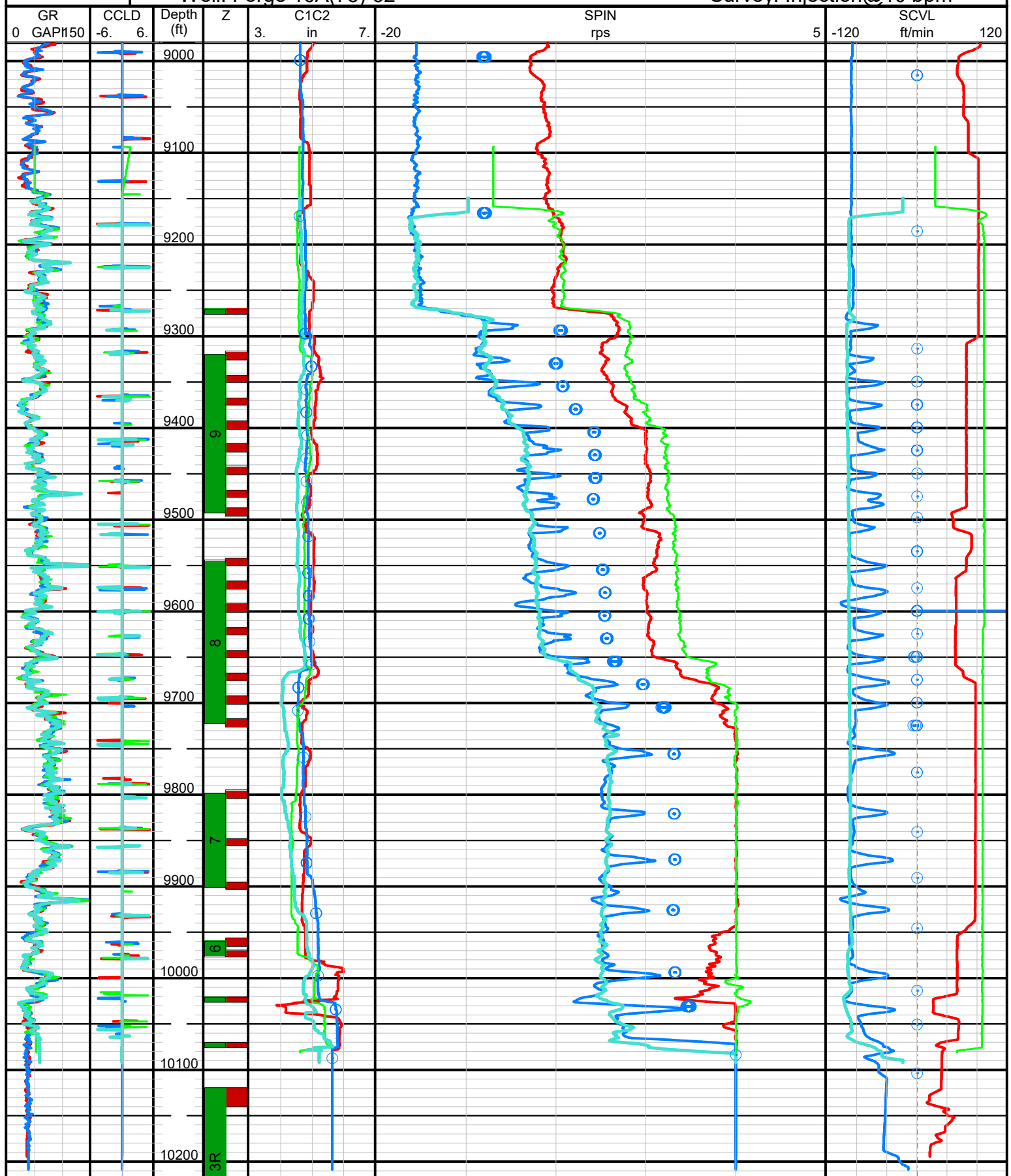


Hi-Temp PSP - Spinner & Cable Velocity

UnivUtah_Forge_16A(78)-32_HT...

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Hi-Temp PSP - Spinner & Velocity Match

UnivUtah_Forge_16A(78)-32_HT...

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Date: 17-Aug-2024
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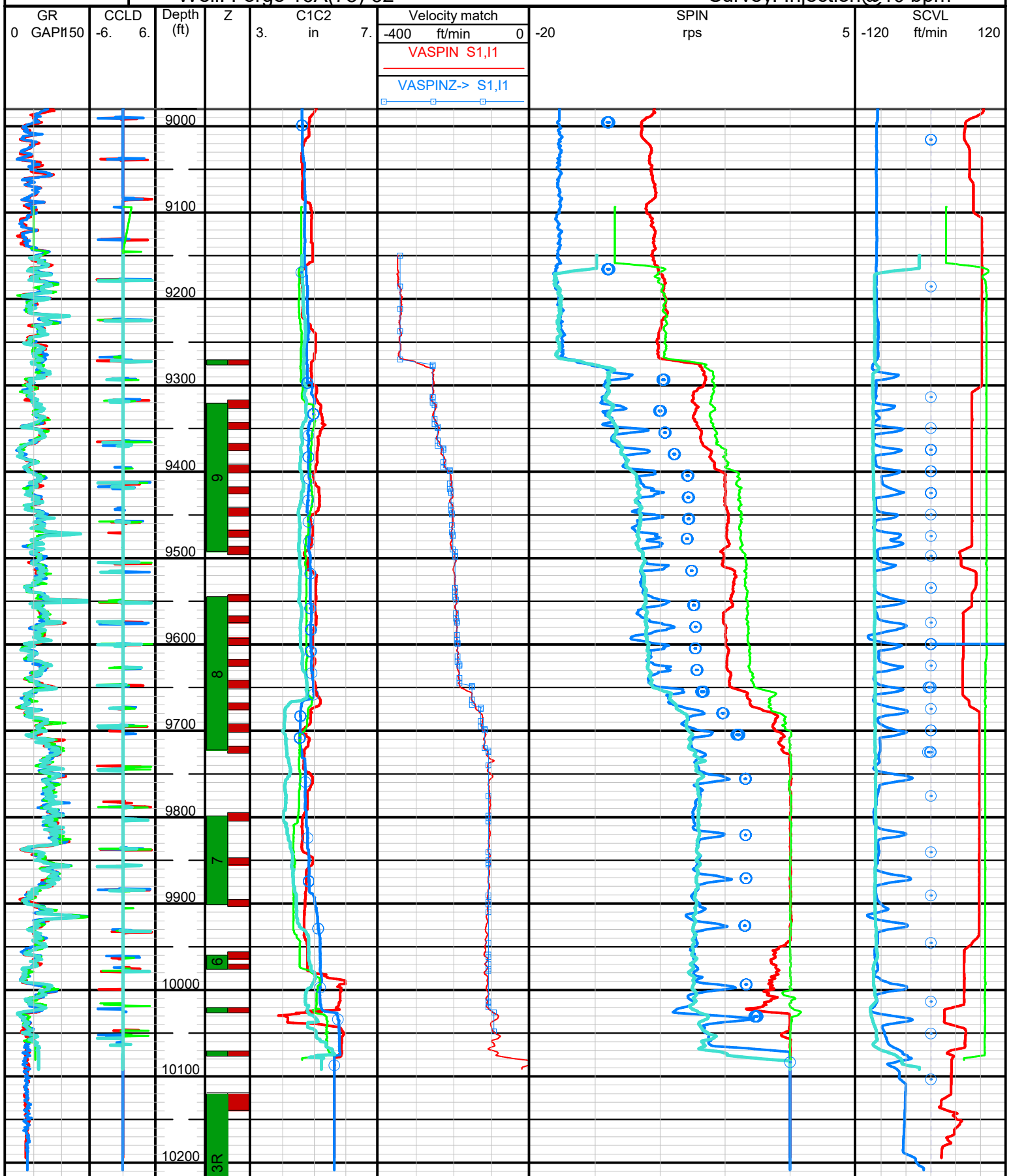


Table of Abbreviations

Tool Mnemonics List

PSP	Production Services Platform
PBMS	Production Basic Measurement Sonde (Temperature, Pressure, CCL, GR)
PCMS	Production Compression Measurement Sonde
PGMC	Production Gradio Manometer Carrier (Density)
PFCs	Production Flowmeter Caliper Sonde (Holdup, Caliper, Full Bore Spinner)
PILS	Production In-Line Spinner
DEFT	Digital Fluid Entry Tool (Electrical Probes)
GHOST	Gas Holdup Optical Sensor Tool (Optical Probes)
FSI	Flow Scanner Imager

Data/Sensor Mnemonics List

CALI_FSI	Flow Scanner Caliper
CCLC/CCLD	Casing Collar Locator
CVEL/SCVL	Cable Velocity
D1RB DEFT	Relative Bearing Probe 1
DFBFx_FSI (0-5)	FSI Vertical DEFT Bubble Count Array (0=Bottom,5=Top)
DFBM	PSP Mean DEFT Bubble Count
DFBx (1-4)	PSP Individual Probe DEFT Bubble Count
DFHFX_FSI (0-5)	FSI Vertical DEFT Water Holdup Array (0=Bottom,5=Top)
DFHM	PSP Mean DEFT Water Holdup
DFHx (1-4)	PSP Individual Probe DEFT Water Holdup
GHBFX_FSI (0-5)	FSI Vertical GHOST Bubble Count Array (0=Bottom,5=Top)
GIBM2	PSP Mean GHOST Bubble Count
GHBx (5-8)	PSP Individual Probe GHOST Bubble Count
GHHFX_FSI (0-5)	FSI Vertical GHOST Gas Holdup Array (0=Bottom,5=Top)
GHHM2	PSP Mean GHOST Gas Holdup
GHHx (5-8)	PSP Individual Probe GHOST Gas Holdup
GR	Gamma Ray
HTEN	Head Tension/Compression
MWFD	Pressure Derived Density
PFC1	PSP Caliper 1 (X)
PFC2	PSP Caliper 2 (Y)
RB_FSI	FSI Relative Bearing
SPIN/SPI1	Full Bore Spinner / Inline Spinner
SPIFX_FSI (0-4)	FSI Vertical Micro-Spinner Array (0=Bottom,5=Top)
WFDE	Gradio Well Fluid Density
WPRE	Well Pressure
WTEP	Well Temperature

Interpretation Mnemonics List

QGD/QGZT	Gas Rates (down hole unless otherwise stated)
QWD/QGZT	Water Rates (down hole unless otherwise stated)
QOD/QOZT	Oil Rates (down hole unless otherwise stated)

Color Coding is typically the same for all the curves that belong to the same pass.

RED – Pass One / Dark Blue – Pass Two / Green – Pass Three / Light Blue – Pass Four

References

For more information, please visit:

FloScan Imager (FSI)

<https://www.slb.com/-/media/files/wireline-production-services/brochure/flow-scanner-br.ashx>

Production Services Platform (PSP)

<https://www.slb.com/-/media/files/fe/product-sheet/ps-platform-ps.ashx>

Reservoir Saturation Tool - Water Flow Log (RST-WFL)

<https://www.slb.com/-/media/files/fe/brochure/rstpro-brochure.ashx>

TuffTRAC iX Tractor (TTiX)

<https://www.slb.com/products-and-services/innovating-in-oil-and-gas/well-intervention/slickline-and-wireline-intervention/wireline-tractors/tufftrac-ix-intelligent-extreme-wireline-tractor>

End of Report