

SCANNED


Analysis of log zone water

HALLIBURTON

Rockies, Grand Junction

Lab Results-PE

Job Information

Request ID	2012303/1	Rig Name		Date	23/JAN/2015
Submitted By	Nathan Barnum	Job Type	Fracturing/Stimulation	Well	SG 922-32D
Customer	WPX Energy, Inc.	Location			

Well Information

Formation	Isles	Depth MD	BIIST
Pressure		Depth TVD	Cool Down Temperature

Fluid Results Request ID 2012303/ 1

Water Analysis, Request Test ID:30061266

Tank Number/Source	Specific Gravity	pH	Chlorides (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Dissolved Iron (mg/L)	Potassium (mg/L)
W021	1.006	7.90	4704	220	150	34.2	5400

Bicarbonates (mg/L)	Carbonates (mg/L)	Hydroxides (mg/L)	Sulfates (mg/L)	Sodium (mg/L)	TDS (mg/L)	Rw Resistivity (Ohm-Meter)	Temperature (°F)
240	0	0	300	0	12400	0.685	67

Conductivity 21.6 mS

Additional Comments

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3. FORM 31: Analysis of Injection Zone Water

A recent Halliburton Analysis Report from the **Iles Formation** on the nearby SG 922-32D injection well is attached. This includes water quality from the Cozzette and Corcoran.

WPX will collect a water sample from the Rollins pre frac.