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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: Braden Head Project Name / Number: South Project Manager: David Bounds	Reported: 08/14/23 09:41
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Wood WN Federal 1- produced water from separator	2308168-01	Water	08/07/23 08:00	08/08/23 15:00	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

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382 CR 3100
Aztec NM, 87410

Project: Braden Head
Project Name / Number: South
Project Manager: David Bounds

Reported:
08/14/23 09:41

Wood WN Federal 1- produced water from separator**2308168-01 (Produced Water)****Sampled Date: 08/07/23 08:00**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Chloride*	37.0	20.0	1.11	mg/L	20	08/11/23 17:03	EPA300.0		JDA
pH*	5.88			pH Units	1	08/10/23 10:00	EPA150.1	H1	CAI
pH Temperature, degrees C	20.7			pH Units	1	08/10/23 10:00	EPA150.1	H1	CAI
Sulfate*	<2.48	20.0	2.48	mg/L	20	08/11/23 17:03	EPA300.0		JDA
Total Dissolved Solids*	65.0	10.0		mg/L	1	08/09/23 17:03	EPA160.1		CAI

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Project: Braden Head
Project Name / Number: South
Project Manager: David Bounds

Reported:
07/24/23 09:33

Wood WN Federal 1 (from Braden Head)**2307112-01 (Produced Water)****Sampled Date: 07/11/23 14:00**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Chloride*	358	100	5.55	mg/L	100	07/18/23 20:18	EPA300.0		AWG
pH*	12.5			pH Units	1	07/13/23 16:00	EPA150.1	H4	KRW
pH Temperature, degrees C	19.3			pH Units	1	07/13/23 16:00	EPA150.1	H4	KRW
Sulfate*	138	100	12.4	mg/L	100	07/18/23 20:18	EPA300.0		AWG
Total Dissolved Solids*	5430	20.0		mg/L	2	07/14/23 16:02	EPA160.1		CAI

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Veronica Wells, Project Manager

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 251804

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 251804
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	tds 5430 - produced water on the bradenhead	9/18/2023