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www.GreenAnalytical.com

Hilcorp
382 CR 3100
Aztec NM, 87410

Project: Braden Head
Project Name / Number: North
Project Manager: Kevin Fredrickson

Reported:
09/01/23 16:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Howell K 4	2308299-01	Water	08/16/23 08:00	08/16/23 12:20	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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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Reported:
09/01/23 16:08

Howell K 4**Intermediate****2308299-01 (Water)****Sampled Date: 08/16/23 08:00**

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

Chloride*	4520	100	5.55	mg/L	100	08/28/23 15:30	EPA300.0		AWG
pH*	10.4			pH Units	1	08/17/23 11:26	EPA150.1		CAI
pH Temperature, degrees C	19.7			pH Units	1	08/17/23 11:26	EPA150.1		CAI
Sulfate*	173	100	12.4	mg/L	100	08/28/23 15:30	EPA300.0		AWG
Total Dissolved Solids*	10100	20.0		mg/L	2	08/22/23 17:22	EPA160.1		CAI

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A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

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Project Name / Number: North
Project Manager: Kevin Fredrickson

Reported:
07/07/23 16:29

Howell K 4

Bradenhead

2306306-01 (Water)

Sampled Date: 06/29/23 07:00

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

Chloride*	386	100	5.55	mg/L	100	07/06/23 19:56	EPA300.0		AWG
pH*	11.9			pH Units	1	06/30/23 14:07	EPA150.1	H1	QEB
pH Temperature, degrees C	17.0			pH Units	1	06/30/23 14:07	EPA150.1	H1	QEB
Sulfate*	8480	100	12.4	mg/L	100	07/06/23 19:56	EPA300.0		AWG
Total Dissolved Solids*	13100	20.0		mg/L	2	06/30/23 14:06	EPA160.1		CAI

Green Analytical Laboratories

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

Veronica Wells, Project Manager

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 261679

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 261679
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	bh = 13100 TDS Int = 10100 TDS bradenhead and intermediate have production water	9/15/2023