

30-045-23859



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Hilcorp
382 CR 3100
Aztec NM, 87410

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

Reported:
07/13/23 15:11

Hare Gas Com D 1E - Braden Head**2307024-01 (Produced Water)****Sampled Date: 06/30/23 10:00**

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

Chloride*	21.7	20.0	1.11	mg/L	20	07/10/23 18:19	EPA300.0		AWG
pH*	7.99			pH Units	1	07/07/23 14:45	EPA150.1	H4	KRW
pH Temperature, degrees C	21.5			pH Units	1	07/07/23 14:45	EPA150.1	H4	KRW
Sulfate*	3030	20.0	2.48	mg/L	20	07/10/23 18:19	EPA300.0		AWG
Total Dissolved Solids*	4410	10.0		mg/L	1	07/07/23 10:12	EPA160.1		CAI

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

Reported:
08/16/23 10:19

Hare D 1 E produced water from Separator**2308017-02 (Produced Water)****Sampled Date: 07/28/23 10:00**

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

Chloride*	7.32	20.0	1.11	mg/L	20	08/14/23 21:27	EPA300.0		JDA
pH*	4.97			pH Units	1	08/02/23 10:15	EPA150.1	H1	AES
pH Temperature, degrees C	19.8			pH Units	1	08/02/23 10:15	EPA150.1	H1	AES
Sulfate*	<2.48	20.0	2.48	mg/L	20	08/14/23 21:27	EPA300.0		JDA
Total Dissolved Solids*	37300	80.0		mg/L	8	08/02/23 10:27	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 255429

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 255429
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	TDS 4410 - bradenhead has produced water	9/15/2023