



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Hilcorp
382 CR 3100
Aztec NM, 87410

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

Reported:
07/07/23 13:20

Fogelson 4 #1 E-Intermediate Lsg**2306251-02 (Produced Water)****Sampled Date: 06/21/23 13:00**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

General Chemistry

Chloride*	8070	100	5.55	mg/L	100	07/04/23 04:37	EPA300.0		AWG
pH*	9.87			pH Units	1	06/23/23 12:06	EPA150.1		KRW
pH Temperature, degrees C	19.8			pH Units	1	06/23/23 12:06	EPA150.1		KRW
Sulfate*	43.2	100	12.4	mg/L	100	07/04/23 04:37	EPA300.0	J	AWG
Total Dissolved Solids*	16300	20.0		mg/L	2	06/27/23 10:48	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.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Hilcorp
382 CR 3100
Aztec NM, 87410

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

Reported:
08/14/23 09:18

Fogelson 4 1E Produced water from separator**2308140-01 (Produced Water)****Sampled Date: 08/04/23 08:00**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

General Chemistry

Chloride*	14600	100	5.55	mg/L	100	08/11/23 15:58	EPA300.0		JDA
pH*	7.49			pH Units	1	08/08/23 14:20	EPA150.1	H1	AES
pH Temperature, degrees C	21.2			pH Units	1	08/08/23 14:20	EPA150.1	H1	AES
Sulfate*	1350	100	12.4	mg/L	100	08/11/23 15:58	EPA300.0		JDA
Total Dissolved Solids*	22600	80.0		mg/L	8	08/09/23 16:55	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.

Page 3 of 10 2308140 GAL FINAL 08 14 23 0918 08/14/23 09:18:23

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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 251906

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 251906
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	tds on intermediate water 16300 - produced water is on the intermediate	9/18/2023