



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:**  
06/20/23 16:48

**State Com AA 23****2306161-02 (Produced Water)****Sampled Date: 06/14/23 10:00**

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

**General Chemistry**

|                                  |             |      |      |          |     |                |          |    |     |
|----------------------------------|-------------|------|------|----------|-----|----------------|----------|----|-----|
| <b>Chloride*</b>                 | <b>77.5</b> | 50.0 | 2.78 | mg/L     | 50  | 06/16/23 23:18 | EPA300.0 |    | AWG |
| <b>pH*</b>                       | <b>10.2</b> |      |      | pH Units | 1   | 06/16/23 10:17 | EPA150.1 | H5 | KRW |
| <b>pH Temperature, degrees C</b> | <b>19.3</b> |      |      | pH Units | 1   | 06/16/23 10:17 | EPA150.1 | H5 | KRW |
| <b>Sulfate*</b>                  | <b>5870</b> | 250  | 31.0 | mg/L     | 250 | 06/19/23 15:18 | EPA300.0 |    | AWG |
| <b>Total Dissolved Solids*</b>   | <b>9170</b> | 20.0 |      | mg/L     | 2   | 06/16/23 11:43 | 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.

**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 234741

CONDITIONS

|                                                                                |                                                     |
|--------------------------------------------------------------------------------|-----------------------------------------------------|
| Operator:<br>HILCORP ENERGY COMPANY<br>1111 Travis Street<br>Houston, TX 77002 | OGRID:<br>372171                                    |
|                                                                                | Action Number:<br>234741                            |
|                                                                                | Action Type:<br>[UF-GA] Gas Analysis (GAS ANALYSIS) |

CONDITIONS

| Created By | Condition                                | Condition Date |
|------------|------------------------------------------|----------------|
| mkuehling  | TDS 9170 bradenhead has production water | 9/22/2023      |