



1115 Welsh Ave., Suite B
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www.teamtimberwolf.com

REVIEWED

By N Velez at 11:17 am, Apr 15, 2025

- 1. Continue further actions as stated in report.**
- 2. Submit next quarterly report by July 15, 2025.**

April 10, 2025

Mr. Nelson Velez, Environmental Specialist – Advanced
New Mexico Oil Conservation Division – District 3
1000 Rio Brazos Road
Aztec, New Mexico 87410

Re: Status Report – 1st Quarter 2025
Fifield 5 No. 1 (SE ¼, SW ¼, Sec. 5, T29N, R11W)
Hilcorp Energy Company
San Juan County, New Mexico
OCD Incident No. NVF1718155324

Dear Mr. Velez:

On behalf of Hilcorp Energy Company (Hilcorp), Timberwolf Environmental, LLC (Timberwolf) presents this report to document activities conducted during the 1st quarter of 2025 (1Q25) at the Fifield 5 No. 1 (Site). The Site is a plugged well site in northeast San Juan County, New Mexico (Figures 1 through 3).

Environmental Setting and Site Geology

The area immediately surrounding the Site consists of sparse vegetative cover comprised primarily of scrub brush. Area topography consists of ridges divided by shallow valleys with intermittent streams that flow south into the San Juan River. The Site is situated east of an unnamed mesa, with an average Site elevation of approximately 5,786 feet (ft). The nearest waterway is an unnamed intermittent stream located approximately 1,350 ft west of the Site. The intermittent stream empties into the San Juan River, approximately 3.4 miles south of the Site.

According to the U.S. Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS), the Site soil consists of the Gypsiorthids-Badland-Stumble complex, with 5 to 30 percent slopes. The surface layer consists of sandy loam, underlain by lithic bedrock encountered between 16 to 20 inches below ground surface (bgs). Native salinity of the soil is very slightly saline to slightly saline (2.0 to 4.0 millimhos per centimeter (mmhos/cm)).

Timberwolf Project No. HEC-190009



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Site History

Release Event

The Fifield 5 No. 1 well has been plugged and all surface equipment removed from the Site; however, Hilcorp's Hali Meador #005R is located immediately west of the Site and remains active. Historically, the Site has consisted of a wellhead, line heater, and separator with the associated below-grade tank (BGT) for produced water, sales meter, and tank battery comprised of one above-ground storage tank (AST) and one BGT. On approximately 06/01/17, removal and closure of the BGT revealed historical contamination beneath the BGT. All surface equipment was removed, and the well was plugged and abandoned.

Investigation and Site Characterization

Initial assessment efforts were conducted by Rule Engineering, LLC (Rule), a subcontractor of ConocoPhillips Company (ConocoPhillips). Hilcorp acquired the property in 2017 and Rule conducted additional assessments in 2018. All findings by Rule Engineering are documented in Timberwolf's *Site Characterization and Remedial Action Plan*, dated February 28, 2019. The initial assessment identified the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH).

On March 20, 2019, additional borings were installed at the Site to delineate petroleum hydrocarbon impacts vertically and horizontally in soil. All findings are documented in Timberwolf's *Site Characterization Report and Remedial Action Plan*, dated June 14, 2019.

Remediation – SVE System

In 2019, Hilcorp installed a soil vapor extraction (SVE) system to treat impacted soil related to historical pit tank releases. The SVE system is comprised of 18 SVE wells, 6 vent wells, and an SVE trailer (housing: control valves, flow and vacuum gauges, manifolds, fluid-air separator, automated controls, and a vacuum pump). The system remained inoperative while awaiting a power source.

In September 2021, Hilcorp installed a power source for the SVE system. The power source is a skid-mounted gas-fired motor with a pulley and belt drive apparatus to transfer power to a vacuum pump. The new vacuum pump was plumbed into the existing SVE trailer; the automation system was by-passed so that all legs remained open.

Work conducted at this Site is documented in the following reports:

- *Site Characterization and Remedial Action Plan*, dated 02/28/19
- *Site Characterization and Remedial Action Plan*, dated 07/14/19
- *Status Report – 1st Quarter 2020*, dated 09/20/21
- *Status Report – 2nd Quarter 2020*, dated 09/27/21
- *Status Report – 3rd Quarter 2020*, dated 09/27/21
- *Status Report – 4th Quarter 2020*, dated 09/27/21
- *Status Report – 1st Quarter 2021*, dated 09/27/21



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- *Status Report – 2nd Quarter 2021*, dated 09/27/21
- *Status Report – 3rd Quarter 2021*, dated 11/01/21
- *Status Report – 4th Quarter 2021*, dated 01/29/22
- *Status Report – 1st Quarter 2022*, dated 04/15/22
- *Status Report – 2nd Quarter 2022*, dated 07/14/22
- *Status Report – 3rd Quarter 2022*, dated 10/14/22
- *Status Report – 4th Quarter 2022*, dated 01/13/23
- *Status Report – 1st Quarter 2023*, dated 04/14/23
- *Status Report – 2nd Quarter 2023*, dated 07/13/23
- *Status Report – 3rd Quarter 2023*, dated 10/11/23
- *Status Report – 4th Quarter 2023*, dated 01/08/24
- *Status Report – 1st Quarter 2024*, dated 04/11/24
- *Status Report – 2nd Quarter 2024*, dated 07/09/24
- *Status Report – 3rd Quarter 2024*, dated 10/07/24
- *Status Report – 4th Quarter 2024*, dated 01/10/25

SVE System Operations

The SVE system is equipped with four independent legs (i.e., Leg 1, Leg 2, Leg 3, and Leg 4). Leg 1 provides vacuum to the shallow wells and Legs 2, 3, and 4 provide vacuum extraction to the deep SVE wells. System automation was incorporated in April 2024; automation was activated on 04/19/24 and programmed to oscillate between Legs 1, 2, 3, and 4 every 6 hours for continuous 24-hr operations. The SVE wells were configured as shown in Figure 4. Programmed runtimes are presented in Table 1 below.

Table 1. Programmed Runtimes and Leg Configurations

| Leg | SVE Wells and Location | Scheduled Runtime |
|-------|---|-------------------|
| Leg 1 | Shallow SVE Wells S1, S2, S3 and S4 Central and Western side of treatment zone | 6 hours |
| Leg 2 | Deep SVE Wells W1, W5, W6, and W7 Central and Western side of treatment zone | 6 hours |
| Leg 3 | Deep SVE Wells W8, W11, W12 and W13 Southern side of treatment zone | 6 hours |
| Leg 4 | Deep SVE Wells W3, W4, W9, W10, and W14 Eastern side of treatment zone | 6 hours |

SVE – soil vapor extraction
 Shallow Well Screen Interval – 7 to 10 ft.
 Deep Well Screen Interval – 25 to 35 ft.

Water and condensate are recovered with a moisture separator, which is fitted with a 1-inch PVC pipe to transfer recovered fluids to an open-top tank fitted with bird netting. No water and/or condensate were recovered during 1Q25 operation and maintenance (O&M) events and sampling period. SVE system runtime for 1Q25 is documented in Table 2 below.



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Table 2. System Runtime – 1Q25

| Date | Hour Meter |
|----------------------|--------------|
| 12/20/2024 | 364 |
| 01/15/2025 | 983 |
| 01/28/2025 | 1,295 |
| 02/17/2025 | 1,777 |
| 02/24/2025 | 1,946 |
| 03/13/2025 | 2,350 |
| 03/29/2025 | 2,739 |
| Total Runtime | 2,375 |

System runtime between the last 4Q24 reading (12/20/24) and the latest 1Q25 reading (03/29/25) was 2,375 hours. The total hours available during this period was 2,377.8 hours; therefore, yielding a runtime percentage (%) of 99.9 for 3Q24. Cygnet telemetry data showed continuous operation throughout the quarter. However, frozen cubic feet per minute (CFM) gauges, due to in-situ condensation and cold weather, were documented during the following operation and maintenance events: 1/15/25, 1/28/25, 2/06/25 and 2/13/25. Photographs of relevant meter readings are documented in the attached Photographic Log.

During 1Q25, Hilcorp personnel conducted five (5) operational checks for the quarter; Timberwolf personnel conducted 2 operational checks. Additionally, two (2) maintenance events were conducted to perform the following activities:

- Legs 1, 3, and 4 frozen shut, thawed with torch – 1/15/2025
- System frozen on arrival, restarted heater – 1/28/2025
- Repair broken PVC manifold on Legs 1 and 2 – 2/06/2025
- Remove water and ice from Leg 1 vacuum lines – 2/13/2025

A field log of O&M events and maintenance performed is provided in the attached Table A-1.

Collection and Analysis of Quarterly Soil-Gas Sample

On 02/17/25, a composite soil-gas sample was collected from the SVE system's four Legs. A vacuum pump was connected to the SVE trailer's sampling port, which is situated downstream of the 4-leg manifold and upstream of the air-water separator. The sampling port valve was opened once the pump was activated to purge air within the tubing between the sampling port and Tedlar® bag. After purging, the Tedlar® bag valve was opened to collect the air sample.

The soil-gas sample (i.e., SVE-1) was transported to Eurofins Albuquerque, located in Albuquerque, New Mexico. Eurofins Albuquerque analyzed the sample for volatile organic compounds (VOCs) and subcontracted other gas analyses to Energy Laboratories in Billings, Montana. All sample transfers were conducted under proper chain-of-custody protocol.

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The sample was analyzed for VOCs using EPA Method 8260B, Organic Compounds (GC) by GPA 2261-95, and Gasoline Range Organics by EPA Method 8015D. The laboratory report and chain-of-custody documents are attached.

Laboratory results of constituents that exceeded laboratory detection limits are presented in Table 3; analytical results of all constituents are presented in the attached Table A-2.

Table 3. Quarterly Soil-Gas Analysis – 02/17/25

| Constituents | SVE-1 |
|--|-------|
| Volatile Organic Compounds (mg/m³) | |
| Benzene | 2.2 |
| Ethylbenzene | 1.3 |
| Isopropyl benzene | 0.22 |
| N-Propyl benzene | 0.24 |
| Toluene | 15 |
| Total Xylenes | 18 |
| 1,2,4-Trimethylbenzene | 1.1 |
| 1,3,5-Trimethylbenzene | 1.1 |
| Gasoline Range (mg/m³) | |
| TPH (GC-MS) Low Fraction (i.e., GRO) | 650 |
| Gases (Mol %) | |
| Oxygen | 21.42 |
| Carbon Dioxide | 0.11 |

mg/m³ – milligrams per cubic meter, equivalent to ug/L

Mol % – mole percent

TPH – total petroleum hydrocarbons

GRO – gasoline range organics

GC-MS – gas chromatography-mass spectrometry

Mass Removal

Timberwolf used the laboratory results from the soil-gas analysis (as reported in Table 3), flow rates, and runtimes to calculate constituent mass removal. Mass removal of GRO, BTEX, and associated recovered volumes for 1Q25 are presented in Table 4 below.

Table 4. Mass Removal and Associated Volume – 1Q25

| Constituent | Mass Removal (kg) ¹ | Total Mass Removed (lbs) ² | Recovered Volume (bbl) |
|--------------|--------------------------------|---------------------------------------|------------------------|
| GRO | 146.9 | 323.1 | 1.20 |
| Benzene | 0.50 | 1.09 | 0.00 |
| Toluene | 3.39 | 7.46 | 0.03 |
| Ethylbenzene | 0.29 | 0.65 | 0.00 |
| Xylenes | 4.07 | 8.95 | 0.03 |

¹ Calculation = minutes ran * CFM * Concentration (mg/m³) * 1 M³/35.3147 ft³*1 g/1000 mg * 1 kg/1000 g

² Calculation = [Mass Removal] * 2.2 lbs/kg

GRO = from TPH (GC/MS) Low Fraction (i.e., gasoline range organics)



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kg – kilograms

lbs – pounds

bbl – barrel

Assumptions:

- API Gravity = 52
- Concentrations of VOCs in soil-gas vapors have remained static throughout the quarter
- Runtime calculations based on hour meter readings from 12/20/24 to 03/29/25 and Cygnet telemetry data.

Summary

System runtime during 1Q25 was 99.9 % based on hour meter reading between 12/20/24 and 3/29/25; Cygnet telemetry data showed continuous operation throughout the quarter. System maintenance included thawing CFM gauges and manifold hardware, resetting the heater, repairing broken PVC manifold for Legs 1 and 2, and removing water and ice from Leg 1 vacuum lines.

During 1Q25, no water and/or condensate were recovered during O&M events. Additionally, mass removal calculations indicated the following recovery during the quarter:

- 1.20 bbl of GRO
- 0.00 lbs of benzene
- 0.03 lbs of toluene
- 0.00 lbs of ethylbenzene
- 0.03 lbs of xylenes.

Further Actions – 2nd Quarter 2025

During 2Q25, the following activities are planned for the Site:

- Conduct bi-weekly Site O&M to ensure proper system function and drain any water/condensate accumulation in the moisture separator as needed
- A Site visit by Timberwolf personnel to ensure system automation is functioning properly
- Collect a quarterly soil-gas sample for laboratory analysis
- Conduct a soil monitoring event to evaluate remediation status of subsurface soil
- Prepare a 2Q25 status report.

If you have any questions regarding this report, please call us at (979) 324-2139.

Sincerely,
 Timberwolf Environmental, LLC



Brandon Wiesinger
 Staff Scientist



Jim Foster
 President

Attachments: Figures
 Attached Tables



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Photographic Log
Laboratory Report and Chain-of-Custody Documents

cc: Mitch Killough, Hilcorp Energy Company



Figures

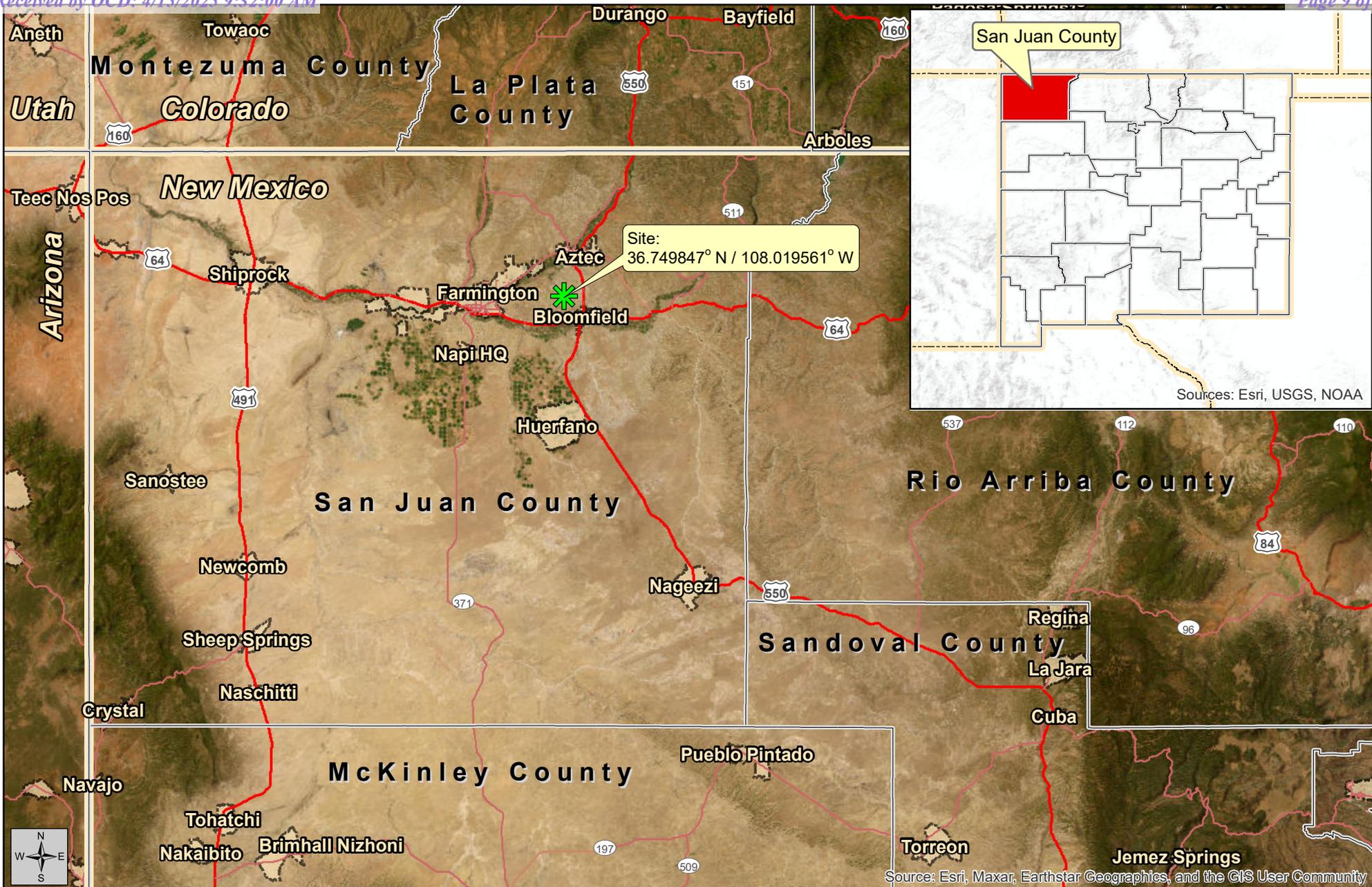


Figure 1
Site Location Map

Status Report - 1st Quarter 2025

April 14, 2025



Created By:
Brandon Wiesinger
TE Project No.: HEC-190009

Fifield 5 No. 1 (OCD Incident No. NVF1718155324)
Hilcorp Energy Company
San Juan County, New Mexico

Datum: NAD83
Imagery Source: ESRI
Vector Source: ESRI and TE

 Site

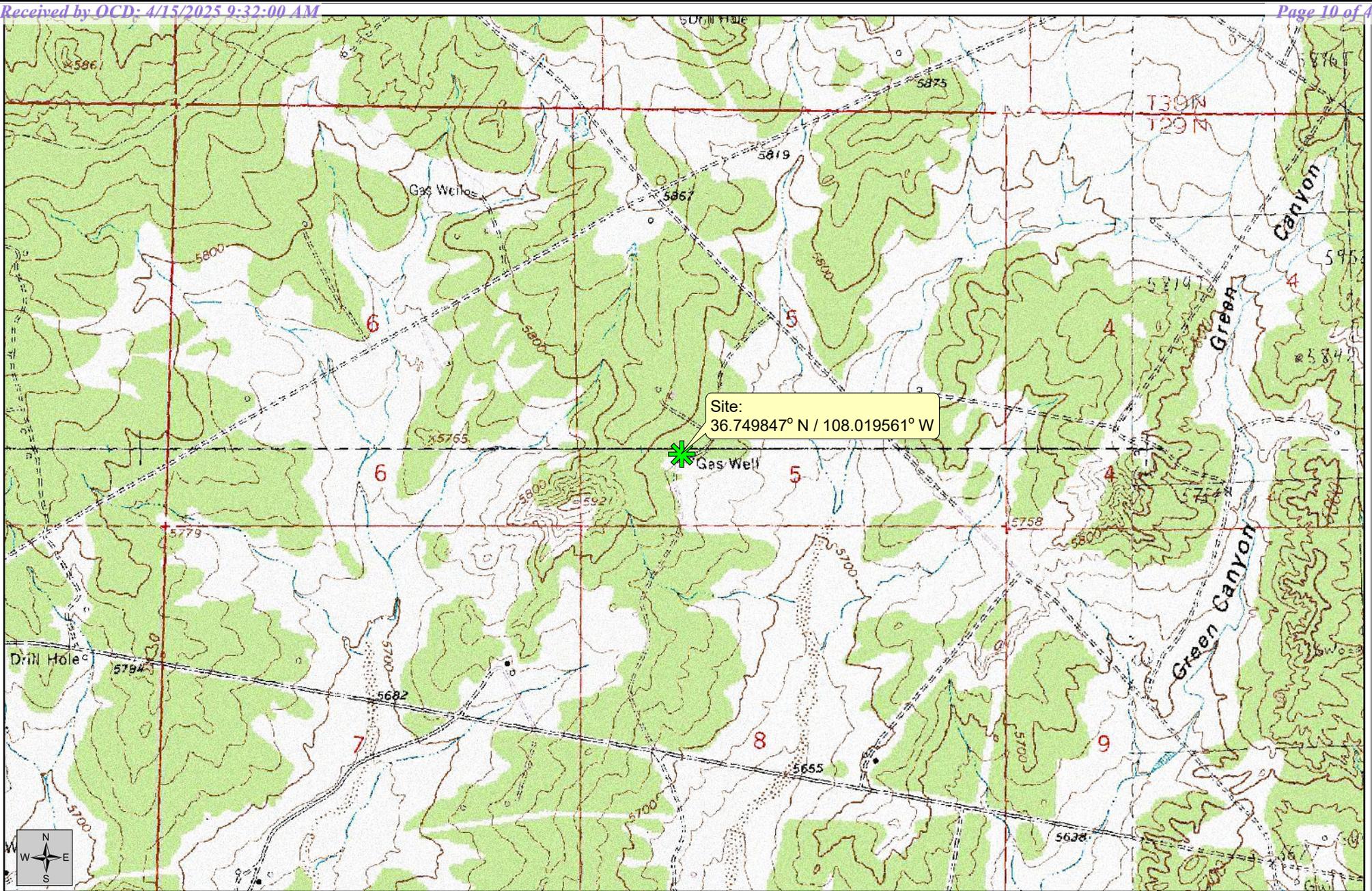


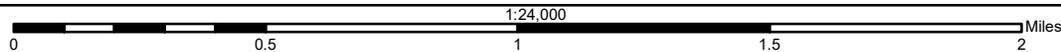
Figure 2
Topographic Map

Status Report - 1st Quarter 2025

April 14, 2025



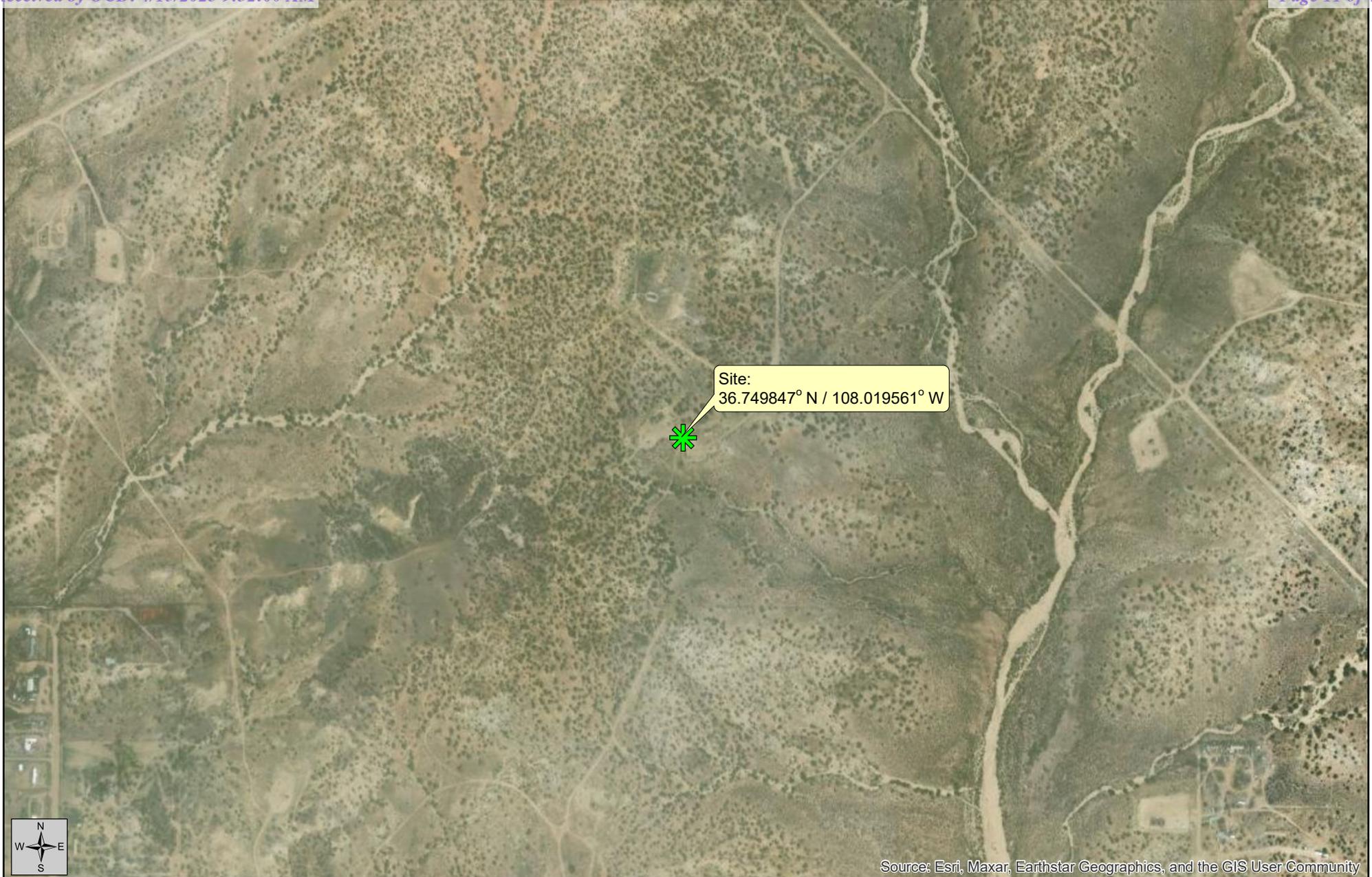
Created By:
Brandon Wiesinger
TE Project No.: HEC-190009



Fifield 5 No. 1 (OCD Incident No. NVF1718155324)
Hilcorp Energy Company
San Juan County, New Mexico

Datum: NAD83
 Imagery Source: USGS
 Quads: Aztec, Bloomfield,
 Flora Vista, Horn Canyon
 Vector Source: TE

 Site



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Figure 3
Aerial Map

Status Report - 1st Quarter 2025

April 14, 2025

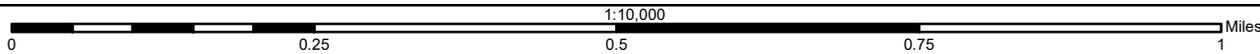


Created By:
Brandon Wiesinger
TE Project No.: HEC-190009

Fifield 5 No. 1 (OCD Incident No. NVF1718155324)
Hilcorp Energy Company
San Juan County, New Mexico

Datum: NAD83
Imagery Source: ESRI
Vector Source: TE

 Site



Attached Tables

**Table A-1. Operation and Maintenance Events
 Status Report - 1st Quarter 2025
 Fifield 5 No. 1 (OCD Incident No. NVF1718155324)
 San Juan County, New Mexico**

| Date | Hour Meter (hrs) | Water/Condensate Recovered (gal) | Maintenance Performed |
|----------|------------------|----------------------------------|--|
| 01/15/25 | 983 | 0 | <ul style="list-style-type: none"> Met with Jim & Chris of Timberwolf. Legs 1, 3, and 4 frozen shut, thawed with torch. Freezing likely due to fan being on (vented warm air from trailer). |
| 01/28/25 | 1,295 | 0 | <ul style="list-style-type: none"> System frozen on arrival, restarted heater. |
| 02/06/25 | -- | 0 | <ul style="list-style-type: none"> Brandon Sinclair with Hilcorp repaired Legs 1 and 2. |
| 02/13/25 | -- | 0 | <ul style="list-style-type: none"> Timberwolf personel removed water and ice from Leg 1 vacuum lines. |
| 02/17/25 | 1,777 | 0 | <ul style="list-style-type: none"> Brandon Sinclair with Hilcorp performed SVE system O&M checks. |
| 02/24/25 | 1,946 | 0 | <ul style="list-style-type: none"> Brandon Sinclair with Hilcorp performed SVE system O&M checks. |
| 03/13/25 | 2,350 | 0 | <ul style="list-style-type: none"> Brandon Sinclair with Hilcorp performed SVE system O&M checks. |
| 03/29/25 | 2,739 | 0 | <ul style="list-style-type: none"> Brandon Sinclair with Hilcorp performed SVE system O&M checks. |

**Table A-2. Soil-Gas Analysis - 02/17/25
Status Report - 1st Quarter 2025
Fifield 5 No. 1 (OCD Incident No. NVF1718155324)
San Juan County, New Mexico**

| Constituents | SVE-1 |
|--|---------|
| Volatiles ($\mu\text{g}/\text{m}^3$) | |
| Acetone | < 2,000 |
| Benzene | 2,200 |
| Bromodichloromethane | < 200 |
| Bromoform | < 200 |
| Bromomethane | < 600 |
| Carbon disulfide | < 2,000 |
| Carbon tetrachloride | < 200 |
| Chlorobenzene | < 200 |
| Chloroethane | < 400 |
| Chloroform | < 200 |
| Chloromethane | < 600 |
| 2-Chlorotoluene | < 200 |
| Dibromochloromethane | < 200 |
| 1,2-Dibromoethane | < 200 |
| 1,2-Dichlorobenzene | < 200 |
| 1,3-Dichlorobenzene | < 200 |
| 1,4-Dichlorobenzene | < 200 |
| 1,2-Dichloroethane | < 200 |
| 1,1-Dichloroethane | < 200 |
| 1,1-Dichloroethene | < 200 |
| 1,1-Dichloropropene | < 200 |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | < 200 |
| trans-1,2-Dichloroethene (trans-1,2-DCE) | < 200 |
| 1,2-Dichloropropane | < 400 |
| 1,2-Dibromo-3-Chloropropane | < 400 |
| cis-1,3-Dichloropropene | < 200 |
| trans-1,3-Dichloropropene | < 200 |
| Ethylbenzene | 1,300 |
| Trichlorofluoromethane | < 200 |
| Dichlorodifluoromethane | < 200 |
| Hexachloro-1,3-butadiene | < 200 |
| Isopropylbenzene | 220 |
| Methylene Chloride | < 600 |
| n-Propylbenzene | 240 |
| 2-Butanone (MEK) | < 200 |
| 4-Methyl-2-pentanone (MIBK) | < 2000 |
| Methyl-tert-butyl Ether (MTBE) | < 2,000 |
| Naphthalene | < 400 |

**Table A-2. Soil-Gas Analysis - 02/17/25
 Status Report - 1st Quarter 2025
 Fifield 5 No. 1 (OCD Incident No. NVF1718155324)
 San Juan County, New Mexico**

| Constituents | SVE-1 |
|---|---------|
| Styrene | < 200 |
| 1,1,1,2-Tetrachloroethane | < 200 |
| 1,1,2,2-Tetrachloroethane | < 400 |
| Toluene | 15,000 |
| 1,1,1-Trichloroethane | < 200 |
| 1,1,2-Trichloroethane | < 100 |
| 1,2,3- Trichloropropane | < 200 |
| 1,2,4-Trichlorobenzene | < 200 |
| 1,2,4-Trimethylbenzene | 1,100 |
| 1,3,5-Trimethylbenzene | 1,100 |
| Vinyl chloride | < 200 |
| Total Xylenes | 18,000 |
| Gasoline Range ($\mu\text{g}/\text{m}^3$) | |
| Gasoline Range Organics (GRO) | 650,000 |
| Gases (Mol %) | |
| Oxygen | 21.42 |
| Carbon Dioxide | 0.11 |
| Methane | < 0.01 |

$\mu\text{g}/\text{m}^3$ – micrograms per cubic meter
 Mol % – mole percent

Photographic Log



1115 Welsh Ave., Suite B
College Station, TX 77840
979.324.2139
www.teamtimberwolf.com

PHOTOGRAPHIC LOG

| | | | |
|--------------------------|----------------------------------|-----------------------|-----------------------------|
| Project No.: | HEC-190009 | Client: | Hilcorp Energy Company |
| Project Name: | Fifield 5 No. 1 | Site Location: | San Juan County, New Mexico |
| Task Description: | Status Report – 1st Quarter 2025 | Date: | January – March, 2025 |

| | |
|---|--|
| Photo No.: 1 | |
| Direction: N/A | |
| Comments: View of hour meter on 12/20/24. | |

| | |
|---|--|
| Photo No.: 2 | |
| Direction: N/A | |
| Comments: View of hour meter on 01/15/25. | |



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PHOTOGRAPHIC LOG

| | | | |
|--|----------------------------------|-----------------------|-----------------------------|
| Project No.: | HEC-190009 | Client: | Hilcorp Energy Company |
| Project Name: | Fifield 5 No. 1 | Site Location: | San Juan County, New Mexico |
| Task Description: | Status Report – 1st Quarter 2025 | Date: | January – March, 2025 |
| Photo No.: 3 | | | |
| Direction: N/A | | | |
| Comments: Leg 1 - Broken manifold below gate valve due ot frozen moisture, (second from left). Line isolated by closing gate valve. Photo taken on 01/24/25. Repairs made on 02/06/25. | | | |
| Photo No.: 4 | | | |
| Direction: N/A | | | |
| Comments: Leg 2, crack in PVC manifold above far left gate valve. Photo Taken on 01/24/25. Repairs made on 02/06/25. | | | |



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PHOTOGRAPHIC LOG

| | | | |
|---|----------------------------------|-----------------------|-----------------------------|
| Project No.: | HEC-190009 | Client: | Hilcorp Energy Company |
| Project Name: | Fifield 5 No. 1 | Site Location: | San Juan County, New Mexico |
| Task Description: | Status Report – 1st Quarter 2025 | Date: | January – March, 2025 |
| Photo No.: 5 | | | |
| Direction: N/A | | | |
| Comments: View of hour meter on 01/28/25. | | | |
| Photo No.: 6 | | | |
| Direction: N/A | | | |
| Comments: View of hour meter on 02/17/25. | | | |



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PHOTOGRAPHIC LOG

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|---|----------------------------------|-----------------------|-----------------------------|
| Project No.: | HEC-190009 | Client: | Hilcorp Energy Company |
| Project Name: | Fifield 5 No. 1 | Site Location: | San Juan County, New Mexico |
| Task Description: | Status Report – 1st Quarter 2025 | Date: | January – March, 2025 |
| Photo No.: 7 | | | |
| Direction: N/A | | | |
| Comments: View of hour meter on 02/24/2025. | | | |
| Photo No.: 8 | | | |
| Direction: N/A | | | |
| Comments: View of hour meter on 03/13/25 | | | |



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PHOTOGRAPHIC LOG

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|---|----------------------------------|-----------------------|-----------------------------|
| Project No.: | HEC-190009 | Client: | Hilcorp Energy Company |
| Project Name: | Fifield 5 No. 1 | Site Location: | San Juan County, New Mexico |
| Task Description: | Status Report – 1st Quarter 2025 | Date: | January – March, 2025 |
| Photo No.: 9 | | | |
| Direction: N/A | | | |
| Comments: View of hour meter on 03/29/25. | | | |

Laboratory Report and Chain-of-Custody Documents



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
 Hilcorp Energy
 PO BOX 4700
 Farmington, New Mexico 87499

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JOB DESCRIPTION

Fifield S #1

JOB NUMBER

885-20086-1

Eurofins Albuquerque
 4901 Hawkins NE
 Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: Fifield S #1

Laboratory Job ID: 885-20086-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Fifield S #1

Job ID: 885-20086-1

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Hilcorp Energy
Project: Fifield S #1

Job ID: 885-20086-1

Job ID: 885-20086-1

Eurofins Albuquerque

Job Narrative 885-20086-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 2/18/2025 7:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: Fifield S #1

Job ID: 885-20086-1

Client Sample ID: SVE-1

Lab Sample ID: 885-20086-1

Date Collected: 02/17/25 13:00

Matrix: Air

Date Received: 02/18/25 07:20

Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------|-----------|----------|------|---|----------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 650 | | 10 | ug/L | | | 02/21/25 15:22 | 2 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108 | | 52 - 172 | | | | 02/21/25 15:22 | 2 |

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,1,1-Trichloroethane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,1,2-Trichloroethane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,1-Dichloroethane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,1-Dichloroethene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,1-Dichloropropene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,2,3-Trichlorobenzene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,2,3-Trichloropropane | ND | | 0.40 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,2,4-Trimethylbenzene | 1.1 | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.40 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,2-Dibromoethane (EDB) | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,2-Dichlorobenzene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,2-Dichloroethane (EDC) | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,2-Dichloropropane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,3,5-Trimethylbenzene | 1.1 | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,3-Dichlorobenzene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,3-Dichloropropane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1,4-Dichlorobenzene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 1-Methylnaphthalene | ND | | 0.80 | ug/L | | | 02/21/25 15:22 | 2 |
| 2,2-Dichloropropane | ND | | 0.40 | ug/L | | | 02/21/25 15:22 | 2 |
| 2-Butanone | ND | | 2.0 | ug/L | | | 02/21/25 15:22 | 2 |
| 2-Chlorotoluene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 2-Hexanone | ND | | 2.0 | ug/L | | | 02/21/25 15:22 | 2 |
| 2-Methylnaphthalene | ND | | 0.80 | ug/L | | | 02/21/25 15:22 | 2 |
| 4-Chlorotoluene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 4-Isopropyltoluene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| 4-Methyl-2-pentanone | ND | | 2.0 | ug/L | | | 02/21/25 15:22 | 2 |
| Acetone | ND | | 2.0 | ug/L | | | 02/21/25 15:22 | 2 |
| Benzene | 2.2 | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Bromobenzene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Bromodichloromethane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Dibromochloromethane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Bromoform | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Bromomethane | ND | | 0.60 | ug/L | | | 02/21/25 15:22 | 2 |
| Carbon disulfide | ND | | 2.0 | ug/L | | | 02/21/25 15:22 | 2 |
| Carbon tetrachloride | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Chlorobenzene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Chloroethane | ND | | 0.40 | ug/L | | | 02/21/25 15:22 | 2 |
| Chloroform | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |

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Client Sample Results

Client: Hilcorp Energy
 Project/Site: Fifield S #1

Job ID: 885-20086-1

Client Sample ID: SVE-1

Lab Sample ID: 885-20086-1

Date Collected: 02/17/25 13:00

Matrix: Air

Date Received: 02/18/25 07:20

Sample Container: Tedlar Bag 1L

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|-------------|-----------|------|------|---|----------|----------------|---------|
| Chloromethane | ND | | 0.60 | ug/L | | | 02/21/25 15:22 | 2 |
| cis-1,2-Dichloroethene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| cis-1,3-Dichloropropene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Dibromomethane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Dichlorodifluoromethane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Ethylbenzene | 1.3 | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Hexachlorobutadiene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Isopropylbenzene | 0.22 | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Methyl-tert-butyl Ether (MTBE) | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Methylene Chloride | ND | | 0.60 | ug/L | | | 02/21/25 15:22 | 2 |
| n-Butylbenzene | ND | | 0.60 | ug/L | | | 02/21/25 15:22 | 2 |
| N-Propylbenzene | 0.24 | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Naphthalene | ND | | 0.40 | ug/L | | | 02/21/25 15:22 | 2 |
| sec-Butylbenzene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Styrene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| tert-Butylbenzene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Tetrachloroethene (PCE) | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Toluene | 15 | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| trans-1,2-Dichloroethene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| trans-1,3-Dichloropropene | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Trichloroethene (TCE) | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Trichlorofluoromethane | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Vinyl chloride | ND | | 0.20 | ug/L | | | 02/21/25 15:22 | 2 |
| Xylenes, Total | 18 | | 0.30 | ug/L | | | 02/21/25 15:22 | 2 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 70 - 130 | | 02/21/25 15:22 | 2 |
| Toluene-d8 (Surr) | 117 | | 70 - 130 | | 02/21/25 15:22 | 2 |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | 02/21/25 15:22 | 2 |
| Dibromofluoromethane (Surr) | 99 | | 70 - 130 | | 02/21/25 15:22 | 2 |

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QC Sample Results

Client: Hilcorp Energy
Project/Site: Fifield S #1

Job ID: 885-20086-1

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-21215/5
Matrix: Air
Analysis Batch: 21215

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------------|--------------|----------|------|---|----------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | ND | | 5.0 | ug/L | | | 02/21/25 12:06 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 52 - 172 | | | | 02/21/25 12:06 | 1 |

Lab Sample ID: LCS 885-21215/4
Matrix: Air
Analysis Batch: 21215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------------|---------------|---------------|---------------|------|---|------|-------------|
| Gasoline Range Organics [C6 - C10] | 500 | 536 | | ug/L | | | |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 4-Bromofluorobenzene (Surr) | | | | | | | |

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-21216/5
Matrix: Air
Analysis Batch: 21216

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|------|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,1-Dichloroethane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,1-Dichloroethene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,1-Dichloropropene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.20 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.20 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,2-Dichloroethane (EDC) | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,2-Dichloropropane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,3-Dichloropropane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 1-Methylnaphthalene | ND | | 0.40 | ug/L | | | 02/21/25 12:06 | 1 |
| 2,2-Dichloropropane | ND | | 0.20 | ug/L | | | 02/21/25 12:06 | 1 |
| 2-Butanone | ND | | 1.0 | ug/L | | | 02/21/25 12:06 | 1 |
| 2-Chlorotoluene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 2-Hexanone | ND | | 1.0 | ug/L | | | 02/21/25 12:06 | 1 |

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: Fifield S #1

Job ID: 885-20086-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-21216/5
 Matrix: Air
 Analysis Batch: 21216

Client Sample ID: Method Blank
 Prep Type: Total/NA

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 2-Methylnaphthalene | ND | | 0.40 | ug/L | | | 02/21/25 12:06 | 1 |
| 4-Chlorotoluene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 4-Isopropyltoluene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| 4-Methyl-2-pentanone | ND | | 1.0 | ug/L | | | 02/21/25 12:06 | 1 |
| Acetone | ND | | 1.0 | ug/L | | | 02/21/25 12:06 | 1 |
| Benzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Bromobenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Bromodichloromethane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Dibromochloromethane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Bromoform | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Bromomethane | ND | | 0.30 | ug/L | | | 02/21/25 12:06 | 1 |
| Carbon disulfide | ND | | 1.0 | ug/L | | | 02/21/25 12:06 | 1 |
| Carbon tetrachloride | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Chlorobenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Chloroethane | ND | | 0.20 | ug/L | | | 02/21/25 12:06 | 1 |
| Chloroform | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Chloromethane | ND | | 0.30 | ug/L | | | 02/21/25 12:06 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Dibromomethane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Dichlorodifluoromethane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Ethylbenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Hexachlorobutadiene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Isopropylbenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Methyl-tert-butyl Ether (MTBE) | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Methylene Chloride | ND | | 0.30 | ug/L | | | 02/21/25 12:06 | 1 |
| n-Butylbenzene | ND | | 0.30 | ug/L | | | 02/21/25 12:06 | 1 |
| N-Propylbenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Naphthalene | ND | | 0.20 | ug/L | | | 02/21/25 12:06 | 1 |
| sec-Butylbenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Styrene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| tert-Butylbenzene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Tetrachloroethene (PCE) | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Toluene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Trichloroethene (TCE) | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Trichlorofluoromethane | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Vinyl chloride | ND | | 0.10 | ug/L | | | 02/21/25 12:06 | 1 |
| Xylenes, Total | ND | | 0.15 | ug/L | | | 02/21/25 12:06 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 70 - 130 | | 02/21/25 12:06 | 1 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 | | 02/21/25 12:06 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | | 02/21/25 12:06 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 70 - 130 | | 02/21/25 12:06 | 1 |

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: Fifield S #1

Job ID: 885-20086-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 885-21216/4

Matrix: Air

Analysis Batch: 21216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloroethene | 20.1 | 18.5 | | ug/L | | 92 | 70 - 130 |
| Benzene | 20.1 | 20.3 | | ug/L | | 101 | 70 - 130 |
| Chlorobenzene | 20.1 | 19.1 | | ug/L | | 95 | 70 - 130 |
| Toluene | 20.2 | 19.2 | | ug/L | | 95 | 70 - 130 |
| Trichloroethene (TCE) | 20.2 | 19.3 | | ug/L | | 96 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 70 - 130 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 104 | | 70 - 130 |

QC Association Summary

Client: Hilcorp Energy
Project/Site: Fifield S #1

Job ID: 885-20086-1

GC/MS VOA

Analysis Batch: 21215

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|---------|------------|
| 885-20086-1 | SVE-1 | Total/NA | Air | 8015M/D | |
| MB 885-21215/5 | Method Blank | Total/NA | Air | 8015M/D | |
| LCS 885-21215/4 | Lab Control Sample | Total/NA | Air | 8015M/D | |

Analysis Batch: 21216

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|--------------------|-----------|--------|--------|------------|
| 885-20086-1 | SVE-1 | Total/NA | Air | 8260B | |
| MB 885-21216/5 | Method Blank | Total/NA | Air | 8260B | |
| LCS 885-21216/4 | Lab Control Sample | Total/NA | Air | 8260B | |



Lab Chronicle

Client: Hilcorp Energy
Project/Site: Fifield S #1

Job ID: 885-20086-1

Client Sample ID: SVE-1

Lab Sample ID: 885-20086-1

Date Collected: 02/17/25 13:00

Matrix: Air

Date Received: 02/18/25 07:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|---------|----------------------|
| Total/NA | Analysis | 8015M/D | | 2 | 21215 | CM | EET ALB | 02/21/25 15:22 |
| Total/NA | Analysis | 8260B | | 2 | 21216 | CM | EET ALB | 02/21/25 15:22 |

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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- 10
- 11
- 12

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: Fifield S #1

Job ID: 885-20086-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| New Mexico | State | NM9425, NM0901 | 02-26-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------------------------------|
| 8015M/D | | Air | Gasoline Range Organics [C6 - C10] |
| 8260B | | Air | 1,1,1,2-Tetrachloroethane |
| 8260B | | Air | 1,1,1-Trichloroethane |
| 8260B | | Air | 1,1,2,2-Tetrachloroethane |
| 8260B | | Air | 1,1,2-Trichloroethane |
| 8260B | | Air | 1,1-Dichloroethane |
| 8260B | | Air | 1,1-Dichloroethene |
| 8260B | | Air | 1,1-Dichloropropene |
| 8260B | | Air | 1,2,3-Trichlorobenzene |
| 8260B | | Air | 1,2,3-Trichloropropane |
| 8260B | | Air | 1,2,4-Trichlorobenzene |
| 8260B | | Air | 1,2,4-Trimethylbenzene |
| 8260B | | Air | 1,2-Dibromo-3-Chloropropane |
| 8260B | | Air | 1,2-Dibromoethane (EDB) |
| 8260B | | Air | 1,2-Dichlorobenzene |
| 8260B | | Air | 1,2-Dichloroethane (EDC) |
| 8260B | | Air | 1,2-Dichloropropane |
| 8260B | | Air | 1,3,5-Trimethylbenzene |
| 8260B | | Air | 1,3-Dichlorobenzene |
| 8260B | | Air | 1,3-Dichloropropane |
| 8260B | | Air | 1,4-Dichlorobenzene |
| 8260B | | Air | 1-Methylnaphthalene |
| 8260B | | Air | 2,2-Dichloropropane |
| 8260B | | Air | 2-Butanone |
| 8260B | | Air | 2-Chlorotoluene |
| 8260B | | Air | 2-Hexanone |
| 8260B | | Air | 2-Methylnaphthalene |
| 8260B | | Air | 4-Chlorotoluene |
| 8260B | | Air | 4-Isopropyltoluene |
| 8260B | | Air | 4-Methyl-2-pentanone |
| 8260B | | Air | Acetone |
| 8260B | | Air | Benzene |
| 8260B | | Air | Bromobenzene |
| 8260B | | Air | Bromodichloromethane |
| 8260B | | Air | Bromoform |
| 8260B | | Air | Bromomethane |
| 8260B | | Air | Carbon disulfide |
| 8260B | | Air | Carbon tetrachloride |
| 8260B | | Air | Chlorobenzene |
| 8260B | | Air | Chloroethane |
| 8260B | | Air | Chloroform |
| 8260B | | Air | Chloromethane |
| 8260B | | Air | cis-1,2-Dichloroethene |
| 8260B | | Air | cis-1,3-Dichloropropene |
| 8260B | | Air | Dibromochloromethane |

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: Fifield S #1

Job ID: 885-20086-1

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|--------------------------------|
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 8260B | | Air | Dibromomethane |
| 8260B | | Air | Dichlorodifluoromethane |
| 8260B | | Air | Ethylbenzene |
| 8260B | | Air | Hexachlorobutadiene |
| 8260B | | Air | Isopropylbenzene |
| 8260B | | Air | Methylene Chloride |
| 8260B | | Air | Methyl-tert-butyl Ether (MTBE) |
| 8260B | | Air | Naphthalene |
| 8260B | | Air | n-Butylbenzene |
| 8260B | | Air | N-Propylbenzene |
| 8260B | | Air | sec-Butylbenzene |
| 8260B | | Air | Styrene |
| 8260B | | Air | tert-Butylbenzene |
| 8260B | | Air | Tetrachloroethene (PCE) |
| 8260B | | Air | Toluene |
| 8260B | | Air | trans-1,2-Dichloroethene |
| 8260B | | Air | trans-1,3-Dichloropropene |
| 8260B | | Air | Trichloroethene (TCE) |
| 8260B | | Air | Trichlorofluoromethane |
| 8260B | | Air | Vinyl chloride |
| 8260B | | Air | Xylenes, Total |
| Oregon | NELAP | NM100001 | 02-25-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------------------------------|
| 8015M/D | | Air | Gasoline Range Organics [C6 - C10] |
| 8260B | | Air | 1,1,1,2-Tetrachloroethane |
| 8260B | | Air | 1,1,1-Trichloroethane |
| 8260B | | Air | 1,1,2,2-Tetrachloroethane |
| 8260B | | Air | 1,1,2-Trichloroethane |
| 8260B | | Air | 1,1-Dichloroethane |
| 8260B | | Air | 1,1-Dichloroethene |
| 8260B | | Air | 1,1-Dichloropropene |
| 8260B | | Air | 1,2,3-Trichlorobenzene |
| 8260B | | Air | 1,2,3-Trichloropropane |
| 8260B | | Air | 1,2,4-Trichlorobenzene |
| 8260B | | Air | 1,2,4-Trimethylbenzene |
| 8260B | | Air | 1,2-Dibromo-3-Chloropropane |
| 8260B | | Air | 1,2-Dibromoethane (EDB) |
| 8260B | | Air | 1,2-Dichlorobenzene |
| 8260B | | Air | 1,2-Dichloroethane (EDC) |
| 8260B | | Air | 1,2-Dichloropropane |
| 8260B | | Air | 1,3,5-Trimethylbenzene |
| 8260B | | Air | 1,3-Dichlorobenzene |
| 8260B | | Air | 1,3-Dichloropropane |
| 8260B | | Air | 1,4-Dichlorobenzene |

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: Fifield S #1

Job ID: 885-20086-1

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------|--------------------------------|
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 8260B | | Air | 1-Methylnaphthalene |
| 8260B | | Air | 2,2-Dichloropropane |
| 8260B | | Air | 2-Butanone |
| 8260B | | Air | 2-Chlorotoluene |
| 8260B | | Air | 2-Hexanone |
| 8260B | | Air | 2-Methylnaphthalene |
| 8260B | | Air | 4-Chlorotoluene |
| 8260B | | Air | 4-Isopropyltoluene |
| 8260B | | Air | 4-Methyl-2-pentanone |
| 8260B | | Air | Acetone |
| 8260B | | Air | Benzene |
| 8260B | | Air | Bromobenzene |
| 8260B | | Air | Bromodichloromethane |
| 8260B | | Air | Bromoform |
| 8260B | | Air | Bromomethane |
| 8260B | | Air | Carbon disulfide |
| 8260B | | Air | Carbon tetrachloride |
| 8260B | | Air | Chlorobenzene |
| 8260B | | Air | Chloroethane |
| 8260B | | Air | Chloroform |
| 8260B | | Air | Chloromethane |
| 8260B | | Air | cis-1,2-Dichloroethene |
| 8260B | | Air | cis-1,3-Dichloropropene |
| 8260B | | Air | Dibromochloromethane |
| 8260B | | Air | Dibromomethane |
| 8260B | | Air | Dichlorodifluoromethane |
| 8260B | | Air | Ethylbenzene |
| 8260B | | Air | Hexachlorobutadiene |
| 8260B | | Air | Isopropylbenzene |
| 8260B | | Air | Methylene Chloride |
| 8260B | | Air | Methyl-tert-butyl Ether (MTBE) |
| 8260B | | Air | Naphthalene |
| 8260B | | Air | n-Butylbenzene |
| 8260B | | Air | N-Propylbenzene |
| 8260B | | Air | sec-Butylbenzene |
| 8260B | | Air | Styrene |
| 8260B | | Air | tert-Butylbenzene |
| 8260B | | Air | Tetrachloroethene (PCE) |
| 8260B | | Air | Toluene |
| 8260B | | Air | trans-1,2-Dichloroethene |
| 8260B | | Air | trans-1,3-Dichloropropene |
| 8260B | | Air | Trichloroethene (TCE) |
| 8260B | | Air | Trichlorofluoromethane |
| 8260B | | Air | Vinyl chloride |
| 8260B | | Air | Xylenes, Total |



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ANALYTICAL SUMMARY REPORT

February 25, 2025

Eurofins TestAmerica - Albuquerque
4901 Hawkins St NE Ste D
Albuquerque, NM 87109-4372

Work Order: B25021057 Quote ID: B15626

Project Name: Fifield 5 #1 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 2/21/2025 for analysis.

| Lab ID | Client Sample ID | Collect Date | Receive Date | Matrix | Test |
|---------------|---------------------|----------------|--------------|--------|---|
| B25021057-001 | SVE-1 (885-20086-1) | 02/17/25 13:00 | 02/21/25 | Air | Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond./1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60 |

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.





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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Eurofins TestAmerica - Albuquerque
Project: Fifield 5 #1 88501698
Lab ID: B25021057-001
Client Sample ID: SVE-1 (885-20086-1)

Report Date: 02/25/25
Collection Date: 02/17/25 13:00
Date Received: 02/21/25
Matrix: Air

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---|---------|-------|------------|-------|-------------|-------------|----------------------|
| GAS CHROMATOGRAPHY ANALYSIS REPORT | | | | | | | |
| Oxygen | 21.42 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Nitrogen | 78.46 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Carbon Dioxide | 0.11 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Hydrogen Sulfide | <0.01 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Methane | <0.01 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Ethane | <0.01 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Propane | <0.01 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Isobutane | <0.01 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| n-Butane | <0.01 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Isopentane | <0.01 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| n-Pentane | <0.01 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Hexanes plus | 0.01 | Mol % | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Propane | < 0.001 | gpm | | 0.001 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Isobutane | < 0.001 | gpm | | 0.001 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| n-Butane | < 0.001 | gpm | | 0.001 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Isopentane | < 0.001 | gpm | | 0.001 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| n-Pentane | < 0.001 | gpm | | 0.001 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Hexanes plus | 0.004 | gpm | | 0.001 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| GPM Total | 0.004 | gpm | | 0.001 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| GPM Pentanes plus | 0.004 | gpm | | 0.001 | | GPA 2261-13 | 02/24/25 10:23 / jrj |

CALCULATED PROPERTIES

| | | | | | | | |
|---------------------------------------|-------|--|--|-------|--|-------------|----------------------|
| Gross BTU per cu ft @ Std Cond. (HHV) | ND | | | 1 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Net BTU per cu ft @ std cond. (LHV) | ND | | | 1 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Pseudo-critical Pressure, psia | 544 | | | 1 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Pseudo-critical Temperature, deg R | 239 | | | 1 | | GPA 2261-13 | 02/24/25 10:23 / jrj |
| Specific Gravity @ 60/60F | 0.998 | | | 0.001 | | D3588-81 | 02/24/25 10:23 / jrj |
| Air, % | 97.88 | | | 0.01 | | GPA 2261-13 | 02/24/25 10:23 / jrj |

- The analysis was not corrected for air.

COMMENTS

-
- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.
- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.
- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.
- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions: RL - Analyte Reporting Limit
QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25021057

Report Date: 02/25/25

| Analyte | Count | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|------------------------------|--------|-------|---------------------|------|-----------|------------|----------------|----------|------|
| Method: GPA 2261-13 | | | | | | | | Batch: R437178 | | |
| Lab ID: B25021057-001ADUP | 12 Sample Duplicate | | | Run: GC7890_250224A | | | | 02/24/25 11:11 | | |
| Oxygen | | 21.5 | Mol % | 0.01 | | | | 0.4 | 20 | |
| Nitrogen | | 78.4 | Mol % | 0.01 | | | | 0.1 | 20 | |
| Carbon Dioxide | | 0.11 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Hydrogen Sulfide | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Methane | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Ethane | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Propane | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isobutane | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| n-Butane | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Isopentane | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| n-Pentane | | <0.01 | Mol % | 0.01 | | | | | 20 | |
| Hexanes plus | | 0.01 | Mol % | 0.01 | | | | 0.0 | 20 | |
| Lab ID: LCS022425 | | | | | | | | 02/24/25 13:10 | | |
| | 11 Laboratory Control Sample | | | Run: GC7890_250224A | | | | | | |
| Oxygen | | 0.62 | Mol % | 0.01 | 126 | 70 | 130 | | | |
| Nitrogen | | 6.09 | Mol % | 0.01 | 103 | 70 | 130 | | | |
| Carbon Dioxide | | 0.99 | Mol % | 0.01 | 99 | 70 | 130 | | | |
| Methane | | 76.0 | Mol % | 0.01 | 99 | 70 | 130 | | | |
| Ethane | | 6.11 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Propane | | 5.04 | Mol % | 0.01 | 101 | 70 | 130 | | | |
| Isobutane | | 1.93 | Mol % | 0.01 | 97 | 70 | 130 | | | |
| n-Butane | | 2.00 | Mol % | 0.01 | 100 | 70 | 130 | | | |
| Isopentane | | 0.51 | Mol % | 0.01 | 102 | 70 | 130 | | | |
| n-Pentane | | 0.51 | Mol % | 0.01 | 102 | 70 | 130 | | | |
| Hexanes plus | | 0.21 | Mol % | 0.01 | 102 | 70 | 130 | | | |

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Work Order Receipt Checklist

Eurofins TestAmerica - Albuquerque

B25021057

Login completed by: Kyelie L. Pflock

Date Received: 2/21/2025

Reviewed by: dharris

Received by: CMJ

Reviewed Date: 2/24/2025

Carrier name: FedEx NDA

| | | | |
|--|---|--|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on all sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | Not Applicable <input type="checkbox"/> |
| Container/Temp Blank temperature: | 9.6°C No Ice | | |
| Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4"). | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None





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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

| | Agency | Number |
|---|--------------------------------------|------------------|
| Billings, MT   | Alaska | 17-023 |
| | California | 3087 |
| | Colorado | MT00005 |
| | Department of Defense (DoD)/ISO17025 | ADE-2588 |
| | Florida (Primary NELAP) | E87668 |
| | Idaho | MT00005 |
| | Louisiana | 05079 |
| | Montana | CERT0044 |
| | Nebraska | NE-OS-13-04 |
| | Nevada | NV-C24-00250 |
| | North Dakota | R-007 |
| | National Radon Proficiency | 109383-RMP |
| | Oregon | 4184 |
| | South Dakota | ARSD 74:04:07 |
| | Texas | TX-C24-00302 |
| | US EPA Region VIII | Reciprocal |
| USDA Soil Permit | P330-20-00170 | |
| Washington | C1039 | |
| Casper, WY  | Alaska | 20-006 |
| | California | 3021 |
| | Colorado | WY00002 |
| | Florida (Primary NELAP) | E87641 |
| | Idaho | WY00002 |
| | Louisiana | 05083 |
| | Montana | CERT0002 |
| | Nebraska | NE-OS-08-04 |
| | Nevada | NV-C24-00245 |
| | North Dakota | R-125 |
| | Oregon | WY200001 |
| | South Dakota | WY00002 |
| | Texas | T104704181-23-21 |
| | US EPA Region VIII | WY00002 |
| | USNRC License | 49-26846-01 |
| Washington | C1012 | |
| Gillette, WY | US EPA Region VIII | WY00006 |
| Helena, MT | Colorado | MT00945 |
| | Montana | CERT0079 |
| | Nevada | NV-C24-00119 |
| | US EPA Region VIII | Reciprocal |
| | USDA Soil Permit | P330-20-00090 |

ICOC No:
885-3915

Containers

Count Container Type
1 Tedlar Bag 1L

Preservative
None

Subcontract Method Instructions

| Sample IDs | Method | Method Description | Method Comments |
|------------|-------------|--------------------------------|-----------------|
| 1 | SUBCONTRACT | SUB (Fixed Gases)/ Fixed Gases | Fixed Gases |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: brandon.sinclair@chikarp.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush

Project Name:

Field 5 #1

Project #:

Project Manager:

Mitch Killough

Sampler: Brandon Sinclair

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 3.0 - 0.1 - 2.4 (°C)

Container Type and #

2 Teller

Preservative Type

HEAL No.

HALL ENVIRONME ANALYSIS LABOR

www.hallenvironmental.com

885-20086 COC

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| | |
|--|-------------------------------------|
| BTEX / MTBE / TMBs (8021) | |
| TPH:8015D(GRO / DRO / MRO) | |
| 8081 Pesticides/8082 PCBs | |
| EDB (Method 504.1) | |
| PAHs by 8310 or 8270SIMS | |
| RCRA 8 Metals | |
| Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ | |
| 8260 (VOA) | <input checked="" type="checkbox"/> |
| 8270 (Semi-VOA) | |
| Total Coliform (Present/Absent) | <input checked="" type="checkbox"/> |
| 8015 T VPT | <input checked="" type="checkbox"/> |
| Fixed gas O ₂ & CO ₂ | <input checked="" type="checkbox"/> |

Received by: Brandon Sinclair Date: 2/17/25 Time: 15:11

Received by: Mitch Killough Date: 2/17/25 Time: 7:20

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-20086-1

Login Number: 20086

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 452118

CONDITIONS

| | |
|--|---|
| Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002 | OGRID: 372171 |
| | Action Number: 452118 |
| | Action Type: [REPORT] Alternative Remediation Report (C-141AR) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| nvez | SVE reviewed: 1. Continue further actions as stated in report. 2. Submit next quarterly report by July 15, 2025. | 4/15/2025 |