

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |               |
|----------------|---------------|
| Incident ID    | NCS1917854937 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

## Release Notification

### Responsible Party

|  |   |
|--|---|
| Responsible Party EPIC Energy L.L.C                                | OGRID 372834                              |
| Contact Name Vanessa Fields  | Contact Telephone 505-787-9100            |
| Contact email vanessa@walsheng.net                                 | Incident # (assigned by OCD) NCS191754937 |
| Contact mailing address 7415 East Main Street Farmington, NM 87402 |   |

### Location of Release Source

Latitude 36.9098244 Longitude -108.0269318  
(NAD 83 in decimal degrees to 5 decimal places)

|                             |                                   |
|-----------------------------|-----------------------------------|
| Site Name Horton #001D      | Site Type Gas                     |
| Date Release Discovered N/A | API# (if applicable) 30-045-33065 |

| Unit Letter | Section | Township | Range | County   |
|-------------|---------|----------|-------|----------|
| I           | 07      | 31N      | 11W   | San Juan |

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|   |  |  |
|---|--|--|
| <input type="checkbox"/> Crude Oil        | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Produced Water   | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
|   | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate       | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas      | Volume Released (Mcf)  | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                  |

Cause of Release: 1 (5) point composite sample collected from the removal of the BGT. Sample was analyzed and came back at 759 ppm GRO/DRO. Closure sample criteria is 1000 ppm. A release occurred however was under the regulatory standard. No further action required.

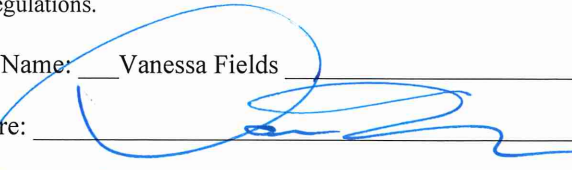
State of New Mexico  
Oil Conservation Division

|                |  |
|----------------|--|
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|   |  |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                          |  |

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

|  |   |
|--|---|
| <input type="checkbox"/> The source of the release has been stopped.<br><input type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |   |
| If all the actions described above have <u>not</u> been undertaken, explain why:   |   |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |   |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |   |
| Printed Name: <u>Vanessa Fields</u>  | Title: <u>Regulatory Compliance Manager</u> |
| Signature:    | Date: <u>6/19/2019</u>                      |
| email: <u>vanessa@walsheng.net</u>   | Telephone: <u>505-787-9100</u>              |
| <b><u>OCD Only</u></b>   |   |
| Received by: _____   | Date: _____                                 |

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | 100' (ft<br>bgs)  |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

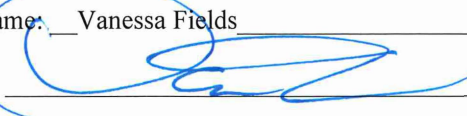
- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

|                |  |
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Vanessa Fields Title: Regulatory Compliance Manager  
Signature:  Date: 11/09/2020  
email: vanessa@walsheng.net Telephone: 505-787-9100

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



State of New Mexico  
Oil Conservation Division

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|----------------|--|
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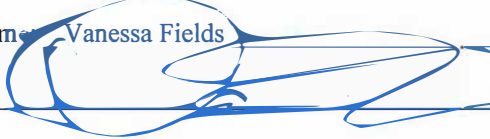
## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Vanessa Fields Title: Regulatory Compliance Manager  
Signature:  Date: 11/09/2020  
email: vanessa@walsheng.net Telephone: 505-787-9100

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 10/04/2021  
Printed Name: Nelson Velez Title: Environmental Specialist - Adv

**Vanessa**

**From:** Michael Dean <michael.dean@walsheng.net>  
**Sent:** Friday, May 24, 2019 8:06 AM  
**To:** 'Vanessa'  
**Subject:** FW: Hallador BGT closures  
**Attachments:** Horton 1B,1C,1D,5 BGT P807010 Envirotech2\_v15 FINAL 11 Jul 18 1104.pdf

**From:** vern@walsheng.net [mailto:vern@walsheng.net]  
**Sent:** Wednesday, July 18, 2018 10:16 AM  
**To:** L1thomas@blm.gov; 'Perry, Heather'; Tim Lovseth; 'John Jr.'; 'Michael Dean'  
**Cc:** 'Smith, Cory, EMNRD'  
**Subject:** Hallador BGT closures

Whitney,

Per our conversation, we are working on the closure of below grade tanks for Hallador north of Aztec off HWY 574 in section 7, T31N, R11W. We have sampled the following BGT's and will be able to close 3 of the BGT's per the site ranking and TPH level requirements. BTEX and Chloride levels were acceptable on all samples.

We will have to dig and resample the Horton #1B, contaminated soil will be hauled to IEL Landfarm on Crouch Mesa.

We will get with Heather Perry for approved soil to backfill the excavation on the Horton #1B location.

The below grade tanks will be closed and set above surface with the facility piping changed to accommodate. Site security/site facility diagrams will be updated and submitted to your office via sundry. A final C-141 will be submitted when the site ranking criteria for the releases is reached.

| Well Name    | Lease Type | Well Status | OCD UL | SECT | TWN | RANGE | API #        | Site Ranking | TPH ranking (allowable) level |
|--------------|------------|-------------|--------|------|-----|-------|--------------|--------------|-------------------------------|
| HORTON #001B | F          | Active      | J      | 7    | 31N | 11W   | 30-045-30165 | 10           | 1000 ppm                      |
| HORTON #001C | F          | Active      | A      | 7    | 31N | 11W   | 30-045-33061 | 10           | 1000 ppm                      |
| HORTON #001D | F          | Active      | I      | 7    | 31N | 11W   | 30-045-33065 | 10           | 1000 ppm                      |
| HORTON #005  | F          | Active      | G      | 7    | 31N | 11W   | 30-045-22933 | 0            | 5000 ppm                      |
|              |            |             |        |      |     |       |              |              |                               |

If you have any further questions, please feel free to contact us.


Thank you,  
 Vern Andrews  
 505-320-1763  
[vern@walsheng.net](mailto:vern@walsheng.net)




## Analytical Report

### Report Summary

Client: Hallador  
Chain Of Custody Number:  
Samples Received: 7/6/2018 4:30:00PM  
Job Number: 18010-0004  
Work Order: P807010  
Project Name/Location: Below Grade Pits

Report Reviewed By:  Date: 7/13/18  
Walter Hinchman, Laboratory Director

 Date: 7/13/18  
Tim Cain, Project Manager

Supplement to analytical report generated on: 7/11/18 11:04 am



Envirotech Inc. certifies the test results meet all requirements of TNi unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
Envirotech, Inc, currently holds the appropriate and available Utah TNi certification NM009792018-1 for the data reported.



|                            |                  |                  |                              |
|----------------------------|------------------|------------------|------------------------------|
| Hallador                   | Project Name:    | Below Grade Pits | Reported:<br>13-Jul-18 09:33 |
| 1660 Lincoln St Suite 2700 | Project Number:  | 18010-0004       |                              |
| Denver CO, 80264           | Project Manager: | Vern Andrews     |                              |

**Analytical Report for Samples**

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| Horton 1C        | P807010-01A   | Soil   | 07/06/18 | 07/06/18 | Glass Jar, 4 oz. |
| Horton 1D        | P807010-02A   | Soil   | 07/06/18 | 07/06/18 | Glass Jar, 4 oz. |
| Horton 1B        | P807010-03A   | Soil   | 07/06/18 | 07/06/18 | Glass Jar, 4 oz. |
| Horton 5         | P807010-04A   | Soil   | 07/06/18 | 07/06/18 | Glass Jar, 4 oz. |

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|                            |                  |                  |                                     |
|----------------------------|------------------|------------------|-------------------------------------|
| Hallador                   | Project Name:    | Below Grade Pits | <b>Reported:</b><br>13-Jul-18 09:33 |
| 1660 Lincoln St Suite 2700 | Project Number:  | 18010-0004       |                                     |
| Denver CO, 80264           | Project Manager: | Vern Andrews     |                                     |

**Horton 1C**  
**P807010-01 (Solid)**

| Reporting                               |        |        |       |          |         |          |          |                 |       |
|---|--------|--------|-------|----------|---------|----------|----------|-----------------|-------|
| Analyte                                 | Result | Limit  | Units | Dilution | Batch   | Prepared | Analyzed | Method          | Notes |
| <b>Volatile Organics by EPA 8021</b>    |        |        |       |          |         |          |          |                 |       |
| Benzene                                 | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B       |       |
| Toluene                                 | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B       |       |
| Ethylbenzene                            | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B       |       |
| p,m-Xylene                              | ND     | 200    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B       |       |
| o-Xylene                                | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B       |       |
| Total Xylenes                           | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B       |       |
| Total BTEX                              | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B       |       |
| Surrogate: 4-Bromochlorobenzene-PID     |        | 99.1 % |       | 50-150   | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B       |       |
| <b>Nonhalogenated Organics by 8015</b>  |        |        |       |          |         |          |          |                 |       |
| Gasoline Range Organics (C6-C10)        | ND     | 20.0   | mg/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8015D       |       |
| Diesel Range Organics (C10-C28)         | ND     | 25.0   | mg/kg | 1        | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D       |       |
| Oil Range Organics (C28-C40+)           | ND     | 50.0   | mg/kg | 1        | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID |        | 99.1 % |       | 50-150   | 1828003 | 07/09/18 | 07/10/18 | EPA 8015D       |       |
| Surrogate: n-Nonane                     |        | 87.5 % |       | 50-200   | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D       |       |
| <b>Anions by 300.0/9056A</b>            |        |        |       |          |         |          |          |                 |       |
| Chloride                                | ND     | 20.0   | mg/kg | 1        | 1828001 | 07/09/18 | 07/09/18 | EPA 300.0/9056A |       |

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|                            |                  |                  |                                     |
|----------------------------|------------------|------------------|-------------------------------------|
| Hallador                   | Project Name:    | Below Grade Pits | <b>Reported:</b><br>13-Jul-18 09:33 |
| 1660 Lincoln St Suite 2700 | Project Number:  | 18010-0004       |                                     |
| Denver CO, 80264           | Project Manager: | Vern Andrews     |                                     |

**Horton 1D**  
**P807010-02 (Solid)**

Reporting

| Analyte                                 | Result | Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method             | Notes |
|---|--------|-------|-------|----------|---------|----------|----------|--------------------|-------|
| <b>Volatile Organics by EPA 8021</b>    |        |       |       |          |         |          |          |                    |       |
| Benzene                                 | ND     | 100   | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Toluene                                 | 262    | 100   | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Ethylbenzene                            | 1210   | 100   | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| p,m-Xylene                              | 7380   | 200   | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| o-Xylene                                | 447    | 100   | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Total Xylenes                           | 7830   | 100   | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Total BTEX                              | 9300   | 100   | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Surrogate: 4-Bromochlorobenzene-PID     |        | 106 % |       | 50-150   | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| <b>Nonhalogenated Organics by 8015</b>  |        |       |       |          |         |          |          |                    |       |
| Gasoline Range Organics (C6-C10)        | 128    | 20.0  | mg/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| Diesel Range Organics (C10-C28)         | 630    | 50.0  | mg/kg | 2        | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| Oil Range Organics (C28-C40+)           | ND     | 100   | mg/kg | 2        | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID |        | 104 % |       | 50-150   | 1828003 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| Surrogate: n-Nonane                     |        | 100 % |       | 50-200   | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| <b>Anions by 300.0/9056A</b>            |        |       |       |          |         |          |          |                    |       |
| Chloride                                | ND     | 20.0  | mg/kg | 1        | 1828001 | 07/09/18 | 07/09/18 | EPA<br>300.0/9056A |       |

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com  
laboratory@envirotech-inc.com



|                            |                  |                  |                                     |
|----------------------------|------------------|------------------|-------------------------------------|
| Hallador                   | Project Name:    | Below Grade Pits | <b>Reported:</b><br>13-Jul-18 09:33 |
| 1660 Lincoln St Suite 2700 | Project Number:  | 18010-0004       |                                     |
| Denver CO, 80264           | Project Manager: | Vern Andrews     |                                     |

**Horton 1B**  
**P807010-03 (Solid)**

Reporting

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-------|-------|----------|-------|----------|----------|--------|-------|

**Volatile Organics by EPA 8021**

|               |      |     |       |   |         |          |          |           |  |
|---------------|------|-----|-------|---|---------|----------|----------|-----------|--|
| Benzene       | ND   | 100 | ug/kg | 1 | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B |  |
| Toluene       | 360  | 100 | ug/kg | 1 | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B |  |
| Ethylbenzene  | 1440 | 100 | ug/kg | 1 | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B |  |
| p,m-Xylene    | 4960 | 200 | ug/kg | 1 | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B |  |
| o-Xylene      | 976  | 100 | ug/kg | 1 | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B |  |
| Total Xylenes | 5930 | 100 | ug/kg | 1 | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B |  |
| Total BTEX    | 7740 | 100 | ug/kg | 1 | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B |  |

Surrogate: 4-Bromochlorobenzene-PID 122 % 50-150 1828003 07/09/18 07/10/18 EPA 8021B

**Nonhalogenated Organics by 8015**

|                                  |      |      |       |    |         |          |          |           |  |
|----------------------------------|------|------|-------|----|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10) | 224  | 20.0 | mg/kg | 1  | 1828003 | 07/09/18 | 07/10/18 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)  | 6260 | 250  | mg/kg | 10 | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D |  |
| Oil Range Organics (C28-C40+)    | 3380 | 500  | mg/kg | 10 | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D |  |

Surrogate: 1-Chloro-4-fluorobenzene-FID 115 % 50-150 1828003 07/09/18 07/10/18 EPA 8015D

Surrogate: n-Nonane 119 % 50-200 1828004 07/09/18 07/10/18 EPA 8015D

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1828001 | 07/09/18 | 07/09/18 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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laboratory@envirotech-inc.com



Hallador  
1660 Lincoln St Suite 2700  
Denver CO, 80264

Project Name: Below Grade Pits  
Project Number: 18010-0004  
Project Manager: Vern Andrews

Reported:  
13-Jul-18 09:33

**Horton 5**  
**P807010-04 (Solid)**

Reporting

| Analyte                                 | Result | Limit  | Units | Dilution | Batch   | Prepared | Analyzed | Method             | Notes |
|---|--------|--------|-------|----------|---------|----------|----------|--------------------|-------|
| <b>Volatile Organics by EPA 8021</b>    |        |        |       |          |         |          |          |                    |       |
| Benzene                                 | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Toluene                                 | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Ethylbenzene                            | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| p,m-Xylene                              | ND     | 200    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| o-Xylene                                | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Total Xylenes                           | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Total BTEX                              | ND     | 100    | ug/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| Surrogate: 4-Bromochlorobenzene-PID     |        | 98.2 % |       | 50-150   | 1828003 | 07/09/18 | 07/10/18 | EPA 8021B          |       |
| <b>Nonhalogenated Organics by 8015</b>  |        |        |       |          |         |          |          |                    |       |
| Gasoline Range Organics (C6-C10)        | ND     | 20.0   | mg/kg | 1        | 1828003 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| Diesel Range Organics (C10-C28)         | ND     | 25.0   | mg/kg | 1        | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| Oil Range Organics (C28-C40+)           | ND     | 50.0   | mg/kg | 1        | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID |        | 98.6 % |       | 50-150   | 1828003 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| Surrogate: n-Nonane                     |        | 97.0 % |       | 50-200   | 1828004 | 07/09/18 | 07/10/18 | EPA 8015D          |       |
| <b>Anions by 300.0/9056A</b>            |        |        |       |          |         |          |          |                    |       |
| Chloride                                | ND     | 20.0   | mg/kg | 1        | 1828001 | 07/09/18 | 07/09/18 | EPA<br>300.0/9056A |       |

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Page 13 of 33  
Received by OCD: 12/3/2020 1:57:30 PM  
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|  |   |                              |
|--|---|------------------------------|
| Hallador<br>1660 Lincoln St Suite 2700<br>Denver CO, 80264 | Project Name: Below Grade Pits<br>Project Number: 18010-0004<br>Project Manager: Vern Andrews | Reported:<br>13-Jul-18 09:33 |
|--|---|------------------------------|

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1828003 - Purge and Trap EPA 5030A

Blank (1828003-BLK1)

Prepared & Analyzed: 09-Jul-18

|                                     |      |     |       |      |  |      |        |  |  |  |
|-------------------------------------|------|-----|-------|------|--|------|--------|--|--|--|
| Benzene                             | ND   | 100 | ug/kg |      |  |      |        |  |  |  |
| Toluene                             | ND   | 100 | "     |      |  |      |        |  |  |  |
| Ethylbenzene                        | ND   | 100 | "     |      |  |      |        |  |  |  |
| p,m-Xylene                          | ND   | 200 | "     |      |  |      |        |  |  |  |
| o-Xylene                            | ND   | 100 | "     |      |  |      |        |  |  |  |
| Total Xylenes                       | ND   | 100 | "     |      |  |      |        |  |  |  |
| Total BTEX                          | ND   | 100 | "     |      |  |      |        |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7830 |     | "     | 8000 |  | 97.8 | 50-150 |  |  |  |

LCS (1828003-BS1)

Prepared & Analyzed: 09-Jul-18

|                                     |       |     |       |       |  |      |        |  |  |  |
|-------------------------------------|-------|-----|-------|-------|--|------|--------|--|--|--|
| Benzene                             | 4440  | 100 | ug/kg | 5000  |  | 88.9 | 70-130 |  |  |  |
| Toluene                             | 4520  | 100 | "     | 5000  |  | 90.5 | 70-130 |  |  |  |
| Ethylbenzene                        | 4590  | 100 | "     | 5000  |  | 91.8 | 70-130 |  |  |  |
| p,m-Xylene                          | 8920  | 200 | "     | 10000 |  | 89.2 | 70-130 |  |  |  |
| o-Xylene                            | 4620  | 100 | "     | 5000  |  | 92.4 | 70-130 |  |  |  |
| Total Xylenes                       | 13500 | 100 | "     | 15000 |  | 90.3 | 70-130 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7880  |     | "     | 8000  |  | 98.5 | 50-150 |  |  |  |

Matrix Spike (1828003-MS1)

Source: P807007-01

Prepared & Analyzed: 09-Jul-18

|                                     |       |     |       |       |    |      |          |  |  |  |
|-------------------------------------|-------|-----|-------|-------|----|------|----------|--|--|--|
| Benzene                             | 4240  | 100 | ug/kg | 5000  | ND | 84.8 | 54.3-133 |  |  |  |
| Toluene                             | 4300  | 100 | "     | 5000  | ND | 86.0 | 61.4-130 |  |  |  |
| Ethylbenzene                        | 4350  | 100 | "     | 5000  | ND | 87.0 | 61.4-133 |  |  |  |
| p,m-Xylene                          | 8450  | 200 | "     | 10000 | ND | 84.6 | 63.3-131 |  |  |  |
| o-Xylene                            | 4310  | 100 | "     | 5000  | ND | 86.2 | 63.3-131 |  |  |  |
| Total Xylenes                       | 12800 | 100 | "     | 15000 | ND | 85.1 | 63.3-131 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7870  |     | "     | 8000  |    | 98.3 | 50-150   |  |  |  |

Matrix Spike Dup (1828003-MSD1)

Source: P807007-01

Prepared & Analyzed: 09-Jul-18

|                                     |       |     |       |       |    |      |          |      |    |    |
|-------------------------------------|-------|-----|-------|-------|----|------|----------|------|----|----|
| Benzene                             | 5600  | 100 | ug/kg | 5000  | ND | 112  | 54.3-133 | 27.6 | 20 | D1 |
| Toluene                             | 5670  | 100 | "     | 5000  | ND | 114  | 61.4-130 | 27.5 | 20 | D1 |
| Ethylbenzene                        | 5740  | 100 | "     | 5000  | ND | 115  | 61.4-133 | 27.6 | 20 | D1 |
| p,m-Xylene                          | 11100 | 200 | "     | 10000 | ND | 111  | 63.3-131 | 26.8 | 20 | D1 |
| o-Xylene                            | 5700  | 100 | "     | 5000  | ND | 114  | 63.3-131 | 27.8 | 20 | D1 |
| Total Xylenes                       | 16800 | 100 | "     | 15000 | ND | 112  | 63.3-131 | 27.2 | 20 | D1 |
| Surrogate: 4-Bromochlorobenzene-PID | 7870  |     | "     | 8000  |    | 98.3 | 50-150   |      |    |    |

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laboratory@envirotech-inc.com



Hallador  
1660 Lincoln St Suite 2700  
Denver CO, 80264

Project Name: Below Grade Pits  
Project Number: 18010-0004  
Project Manager: Vern Andrews

Reported:  
13-Jul-18 09:33

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch 1828003 - Purge and Trap EPA 5030A

##### Blank (1828003-BLK1)

Prepared & Analyzed: 09-Jul-18

|   |      |      |       |      |  |      |        |  |  |  |
|---|------|------|-------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 | mg/kg |      |  |      |        |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.99 |      | "     | 8.00 |  | 99.9 | 50-150 |  |  |  |

##### LCS (1828003-BS2)

Prepared & Analyzed: 09-Jul-18

|   |      |      |       |      |  |      |        |  |  |  |
|---|------|------|-------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 49.3 | 20.0 | mg/kg | 50.0 |  | 98.6 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.07 |      | "     | 8.00 |  | 101  | 50-150 |  |  |  |

##### Matrix Spike (1828003-MS2)

Source: P807007-01

Prepared & Analyzed: 09-Jul-18

|   |      |      |       |      |    |     |        |  |  |  |
|---|------|------|-------|------|----|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 51.3 | 20.0 | mg/kg | 50.0 | ND | 103 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.13 |      | "     | 8.00 |    | 102 | 50-150 |  |  |  |

##### Matrix Spike Dup (1828003-MSD2)

Source: P807007-01

Prepared & Analyzed: 09-Jul-18

|   |      |      |       |      |    |      |        |      |    |  |
|---|------|------|-------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10)        | 50.1 | 20.0 | mg/kg | 50.0 | ND | 100  | 70-130 | 2.22 | 20 |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.97 |      | "     | 8.00 |    | 99.6 | 50-150 |      |    |  |

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|                            |                  |                  |                                     |
|----------------------------|------------------|------------------|-------------------------------------|
| Hallador                   | Project Name:    | Below Grade Pits | <b>Reported:</b><br>13-Jul-18 09:33 |
| 1660 Lincoln St Suite 2700 | Project Number:  | 18010-0004       |                                     |
| Denver CO, 80264           | Project Manager: | Vern Andrews     |                                     |

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch 1828004 - DRO Extraction EPA 3570

|  |      |      |       |   |     |   |        |      |    |  |
|--|------|------|-------|---|-----|---|--------|------|----|--|
| <b>Blank (1828004-BLK1)</b>            |      |      |       | Prepared: 09-Jul-18 Analyzed: 10-Jul-18 |     |   |        |      |    |  |
| Diesel Range Organics (C10-C28)        | ND   | 25.0 | mg/kg |   |     |   |        |      |    |  |
| Oil Range Organics (C28-C40+)          | ND   | 50.0 | "     |   |     |   |        |      |    |  |
| Surrogate: n-Nonane                    | 44.6 |      | "     | 50.0                                    |     | 89.2                                    | 50-200 |      |    |  |
| <b>LCS (1828004-BS1)</b>               |      |      |       | Prepared: 09-Jul-18 Analyzed: 10-Jul-18 |     |   |        |      |    |  |
| Diesel Range Organics (C10-C28)        | 486  | 25.0 | mg/kg | 500                                     |     | 97.1                                    | 38-132 |      |    |  |
| Surrogate: n-Nonane                    | 48.3 |      | "     | 50.0                                    |     | 96.6                                    | 50-200 |      |    |  |
| <b>Matrix Spike (1828004-MS1)</b>      |      |      |       | <b>Source: P807007-01</b>               |     | Prepared: 09-Jul-18 Analyzed: 10-Jul-18 |        |      |    |  |
| Diesel Range Organics (C10-C28)        | 928  | 25.0 | mg/kg | 500                                     | 366 | 112                                     | 38-132 |      |    |  |
| Surrogate: n-Nonane                    | 62.9 |      | "     | 50.0                                    |     | 126                                     | 50-200 |      |    |  |
| <b>Matrix Spike Dup (1828004-MSD1)</b> |      |      |       | <b>Source: P807007-01</b>               |     | Prepared: 09-Jul-18 Analyzed: 10-Jul-18 |        |      |    |  |
| Diesel Range Organics (C10-C28)        | 918  | 25.0 | mg/kg | 500                                     | 366 | 110                                     | 38-132 | 1.05 | 20 |  |
| Surrogate: n-Nonane                    | 63.7 |      | "     | 50.0                                    |     | 127                                     | 50-200 |      |    |  |

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|                            |                  |                  |                                     |
|----------------------------|------------------|------------------|-------------------------------------|
| Hallador                   | Project Name:    | Below Grade Pits | <b>Reported:</b><br>13-Jul-18 09:33 |
| 1660 Lincoln St Suite 2700 | Project Number:  | 18010-0004       |                                     |
| Denver CO, 80264           | Project Manager: | Vern Andrews     |                                     |

**Anions by 300.0/9056A - Quality Control**

**Envirotech Analytical Laboratory**

| Analyte   | Result | Reporting Limit | Units | Spike Level                    | Source Result | %REC                           | %REC Limits | RPD    | RPD Limit | Notes |
|---|--------|-----------------|-------|--------------------------------|---------------|--------------------------------|-------------|--------|-----------|-------|
| <b>Batch 1828001 - Anion Extraction EPA 300.0/9056A</b> |        |                 |       |                                |               |                                |             |        |           |       |
| <b>Blank (1828001-BLK1)</b>                             |        |                 |       | Prepared & Analyzed: 09-Jul-18 |               |                                |             |        |           |       |
| Chloride  | ND     | 20.0            | mg/kg |                                |               |                                |             |        |           |       |
| <b>LCS (1828001-BS1)</b>                                |        |                 |       | Prepared & Analyzed: 09-Jul-18 |               |                                |             |        |           |       |
| Chloride  | 255    | 20.0            | mg/kg | 250                            |               | 102                            | 90-110      |        |           |       |
| <b>Matrix Spike (1828001-MS1)</b>                       |        |                 |       | <b>Source: P807010-01</b>      |               | Prepared & Analyzed: 09-Jul-18 |             |        |           |       |
| Chloride  | 270    | 20.0            | mg/kg | 250                            | ND            | 108                            | 80-120      |        |           |       |
| <b>Matrix Spike Dup (1828001-MSD1)</b>                  |        |                 |       | <b>Source: P807010-01</b>      |               | Prepared & Analyzed: 09-Jul-18 |             |        |           |       |
| Chloride  | 270    | 20.0            | mg/kg | 250                            | ND            | 108                            | 80-120      | 0.0556 | 20        |       |

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|                            |                  |                  |                 |
|----------------------------|------------------|------------------|-----------------|
| Hallador                   | Project Name:    | Below Grade Pits |                 |
| 1660 Lincoln St Suite 2700 | Project Number:  | 18010-0004       | Reported:       |
| Denver CO, 80264           | Project Manager: | Vern Andrews     | 13-Jul-18 09:33 |

Notes and Definitions

- D1 Duplicates or Matrix Spike Duplicates or Laboratory Control Sample Duplicates Relative Percent Difference is outside of control limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- \*\* Methods marked with \*\* are non-accredited methods.

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## Project Information

## Chain of Custody

Page \_\_\_\_\_ of \_\_\_\_\_

[illegible]

**Additional Instructions:**

Vis ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: John Hampton Jr.

John Hampton Jr.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

|  |                |                 |  |                |              |  |
|--|----------------|-----------------|--|----------------|--------------|--|
| Relinquished by: (Signature)<br><i>[Signature]</i> | Date<br>7-6-18 | Time<br>4:30 pm | Received by: (Signature)<br><i>[Signature]</i> | Date<br>7/6/18 | Time<br>1630 | Lab Use Only<br>Received on ice: <input checked="" type="checkbox"/> N<br>T1 _____ T2 _____ T3 _____<br>AVG Temp °C <u>4.0</u> |
| Relinquished by: (Signature)                       | Date           | Time            | Received by: (Signature)                       | Date           | Time         |  |

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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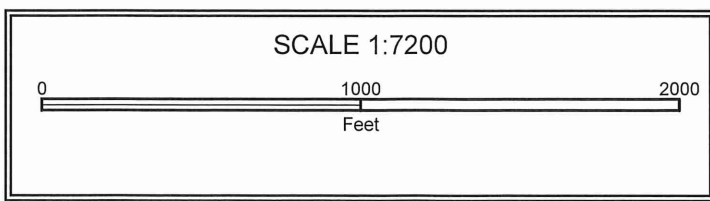
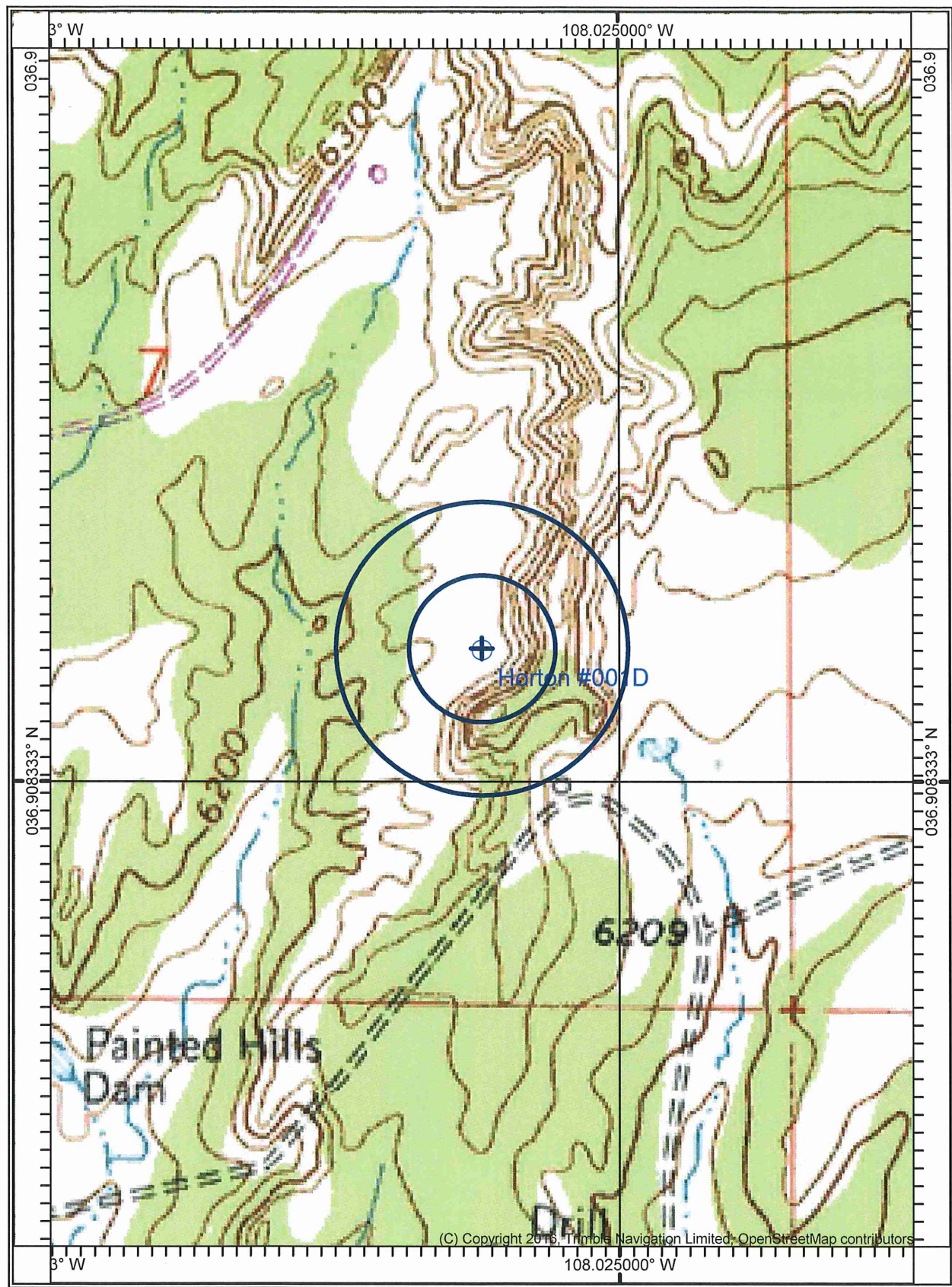
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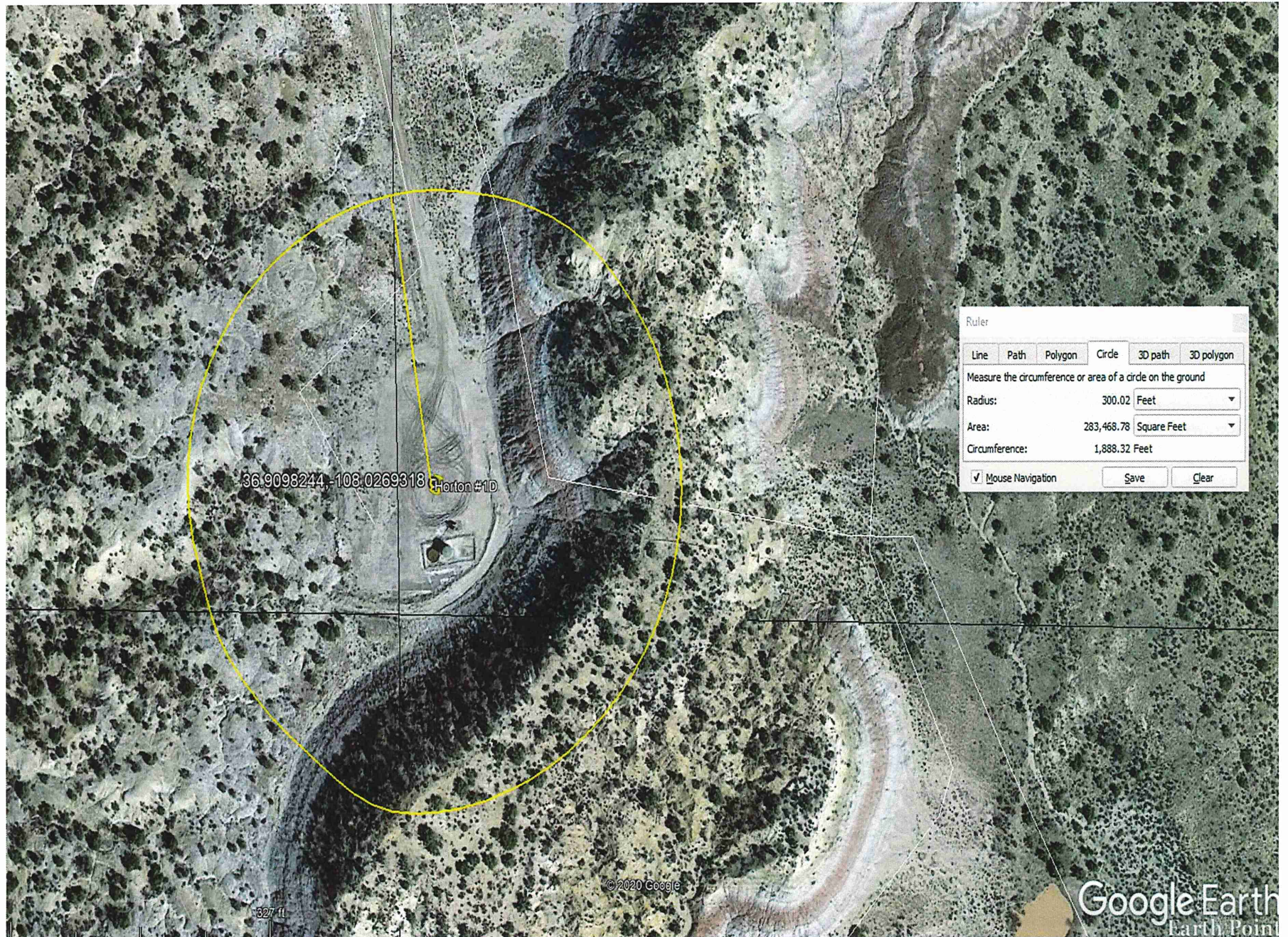
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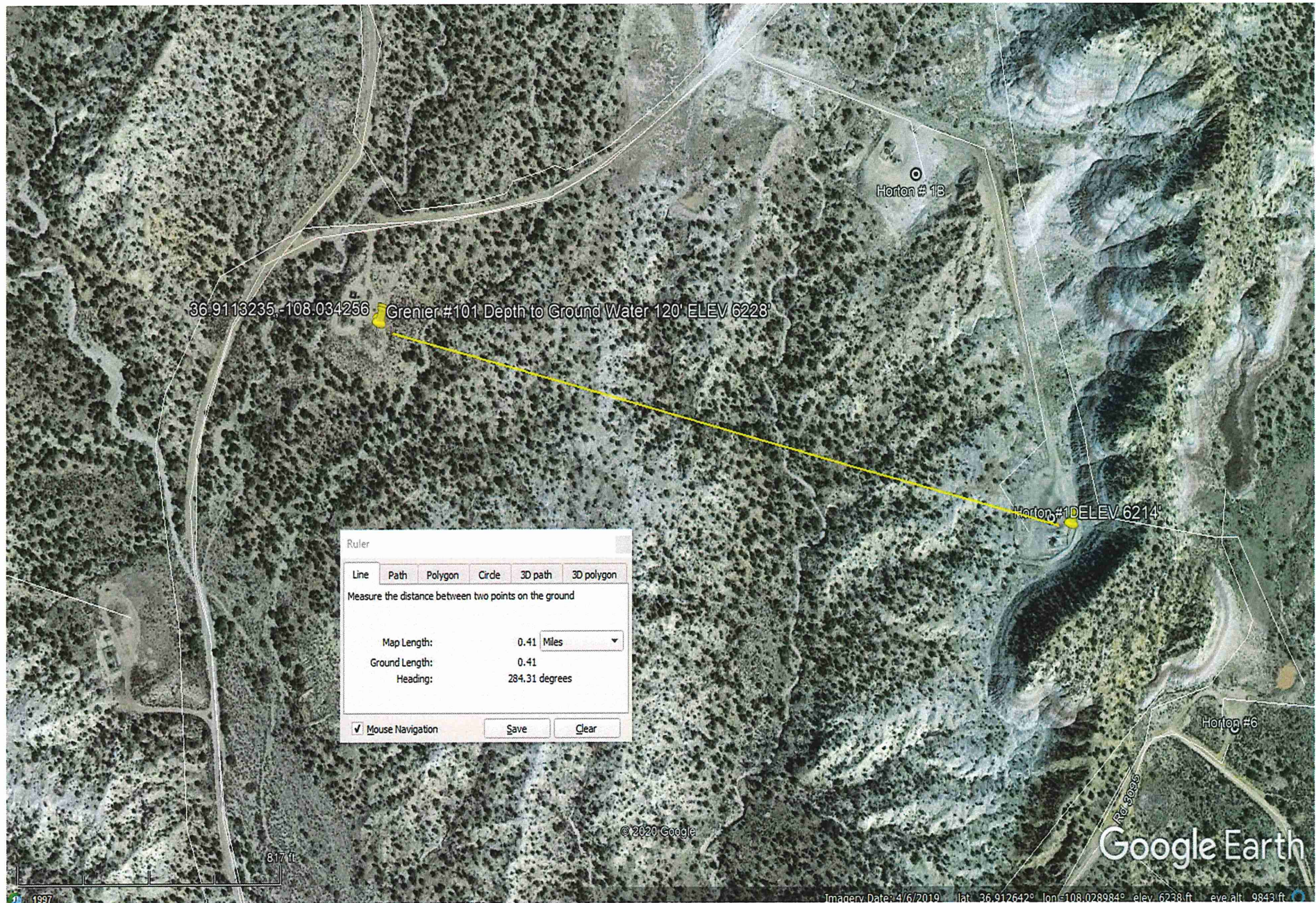


# Horton #001D Sitting Criteria





Horton #001D Depth TO Groundwater  
Referenced Cathodic Report Grenier #101





644

30-045-27247

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO

2268W

Operator Meridian Location: Unit K Sec. 7 Twp 31 Rng 11Name of Well/Wells or Pipeline Serviced Grenier #101Elevation \_\_\_\_\_ Completion Date 10/15/91 Total Depth 400' Land Type FCasing Strings, Sizes, Types & Depths 100' of 8" PVC WITH  
25 SACKS OF CEMENTIf Casing Strings are cemented, show amounts & types used 100' of 8"  
PVC WITH 25 SACKSIf Cement or Bentonite Plugs have been placed, show depths & amounts used  
NONEDepths & thickness of water zones with description of water: Fresh, Clear,  
Salty, Sulphur, Etc. HIT WATER AT 120', WAS FRESHDepths gas encountered: NONEGround bed depth with type & amount of coke breeze used: Drilled 400' AND  
USED 40 SACKS LOTESCO AND 34 SACKS ASBURY (5700#)Depths anodes placed: 380, 370, 360, 280, 270, 260, 250, 190, 180, 170, 140, + 130Depths vent pipes placed: SURFACE TO 400'Vent pipe perforations: BOTTOM 280'

Remarks: \_\_\_\_\_

RECEIVED

FEB 24 1992

OIL CON. DIV.  
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.

# CPS GROUND BED CONSTRUCTION WORKSHEET

|       |                        |       |      |        |  |          |              |
|-------|------------------------|-------|------|--------|--|----------|--------------|
| CPS#  | P/L NAME(s), NUMBER(s) |       |      |        |  | DATE     | NAME         |
| 2268W | Grenier #101           |       |      |        |  | 10/15/91 | JOHN L. MOSS |
| #     | TOTAL                  | VOLTS | AMPS | - OHMS |  |          |              |
| 1774  |                        | 11.7  | 27.3 | .43    |  |          |              |

REMARKS (notes for construction log)

Driller Hit Water AT 120'

BOTTOM 280' OF VENT PIPE IS PERFORATED. HOLE DEPTH 400'

| DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|       | ANODE | #     |       | ANODE | #     |       | ANODE | #     |       | ANODE | #     |       |
| 100   |       |       | 295   | 2.4   |       | 490   |       |       | 685   |       |       |       |
| 105   |       |       | 300   | 2.1   |       | 495   |       |       | 690   |       |       |       |
| 110   | 1.5   |       | 305   | 2.2   |       | 500   |       |       | 695   |       |       |       |
| 115   | 1.5   |       | 310   | 2.1   |       | 505   |       |       | 700   |       |       |       |
| 120   | 1.4   |       | 315   | 2.4   |       | 510   |       |       | ANODE | DEPTH | NO.   | FULLY |
| 125   | 2.5   |       | 320   | 1.2   |       | 515   |       |       | #     |       | COKE  | COK'D |
| 130   | 3.7   | 12    | 325   | 1.2   |       | 520   |       |       | 1     | 380   | 2.6   | 5.7   |
| 135   | 2.9   |       | 330   | 1.3   |       | 525   |       |       | 2     | 370   | 2.9   | 5.9   |
| 140   | 2.6   | 11    | 335   | 1.0   |       | 530   |       |       | 3     | 360   | 2.7   | 5.0   |
| 145   | 2.1   |       | 340   | 1.2   |       | 535   |       |       | 4     | 280   | 3.0   | 6.2   |
| 150   | 1.8   |       | 345   | 1.9   |       | 540   |       |       | 5     | 270   | 3.2   | 7.0   |
| 155   | 2.1   |       | 350   | 1.4   |       | 545   |       |       | 6     | 260   | 3.6   | 6.8   |
| 160   | 2.5   |       | 355   | 2.4   |       | 550   |       |       | 7     | 250   | 2.7   | 4.3   |
| 165   | 3.8   |       | 360   | 3.0   | 3     | 555   |       |       | 8     | 190   | 4.1   | 8.1   |
| 170   | 3.6   | 10    | 365   | 2.9   |       | 560   |       |       | 9     | 180   | 4.2   | 8.5   |
| 175   | 3.8   |       | 370   | 2.8   | 2     | 565   |       |       | 10    | 170   | 3.9   | 8.2   |
| 180   | 4.1   | 9     | 375   | 2.5   |       | 570   |       |       | 11    | 140   | 2.8   | 6.4   |
| 185   | 3.5   |       | 380   | 2.6   | 1     | 575   |       |       | 12    | 130   | 3.1   | 6.1   |
| 190   | 4.2   | 8     | 385   | 1.8   |       | 580   |       |       | 13    |       |       |       |
| 195   | 3.3   |       | 390   | 1.5   |       | 585   |       |       | 14    |       |       |       |
| 200   | 2.9   |       | 395   | 1.4   |       | 590   |       |       | 15    |       |       |       |
| 205   | 2.2   |       | 400   |       |       | 595   |       |       | 16    |       |       |       |
| 210   | 2.3   |       | 405   |       |       | 600   |       |       | 17    |       |       |       |
| 215   | 1.5   |       | 410   |       |       | 605   |       |       | 18    |       |       |       |
| 220   | 1.4   |       | 415   |       |       | 610   |       |       | 19    |       |       |       |
| 225   | 1.8   |       | 420   |       |       | 615   |       |       | 20    |       |       |       |
| 230   | 1.3   |       | 425   |       |       | 620   |       |       | 21    |       |       |       |
| 235   | 1.3   |       | 430   |       |       | 625   |       |       | 22    |       |       |       |
| 240   | 1.1   |       | 435   |       |       | 630   |       |       | 23    |       |       |       |
| 245   | 1.5   |       | 440   |       |       | 635   |       |       | 24    |       |       |       |
| 250   | 3.4   | 7     | 445   |       |       | 640   |       |       | 25    |       |       |       |
| 255   | 3.0   |       | 450   |       |       | 645   |       |       | 26    |       |       |       |
| 260   | 3.2   | 6     | 455   |       |       | 650   |       |       | 27    |       |       |       |
| 265   | 3.1   |       | 460   |       |       | 655   |       |       | 28    |       |       |       |
| 270   | 3.0   | 5     | 465   |       |       | 660   |       |       | 29    |       |       |       |
| 275   | 2.9   |       | 470   |       |       | 665   |       |       | 30    |       |       |       |
| 280   | 2.9   | 4     | 475   |       |       | 670   |       |       |       |       |       |       |
| 285   | 2.6   |       | 480   |       |       | 675   |       |       |       |       |       |       |
| 290   | 2.5   |       | 485   |       |       | 680   |       |       |       |       |       |       |

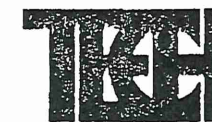
DISTRIBUTION - original - permanent CPS FILE  
 copy - Division Corrosion Supervisor  
 copy - Region Corrosion Specialist



## API WATER ANALYSIS REPORT FORM

221  
Laboratory No. 25-91108-13

|  |  |                                |  |                              |  |
|--|--|--------------------------------|--|------------------------------|--|
| Company<br>MERIDIAN                                |  | Sample No.                     |  | Date Sampled<br>10-15-91     |  |
| Field<br>2268W                                     |  | Legal Description<br>K-7-31-11 |  | County or Parish<br>SAN JUAN |  |
| Lease or Unit<br>Glenick                           |  | Well<br># 101                  |  | Depth<br>120'                |  |
| Type of Water (Produced, Supply, etc.)<br>Produced |  | Formation<br>Wicks Table       |  | Water, B/D                   |  |
| Sampling Point                                     |  | Sampled By<br>J. L. MOSS       |  |                              |  |



TECH, Inc.  
333 East Main  
Farmington  
New Mexico  
87401  
505/327-3311

## DISSOLVED SOLIDS

## CATIONS

|                    | mg/l  | me/l |
|--------------------|-------|------|
| Sodium, Na (calc.) | 2,190 | 95   |
| Calcium, Ca        | 591   | 29.5 |
| Magnesium, Mg      | 52.2  | 4.3  |
| Barium, Ba         |       |      |
|                    |       |      |
|                    |       |      |

## OTHER PROPERTIES

|                                   |        |
|-----------------------------------|--------|
| pH                                | 6.94   |
| Specific Gravity, 60/60 F.        | 1.0103 |
| Resistivity (ohm-meters) _____ F. | 0.9    |
|                                   |        |
|                                   |        |

Total Dissolved Solids (calc.)

8,220

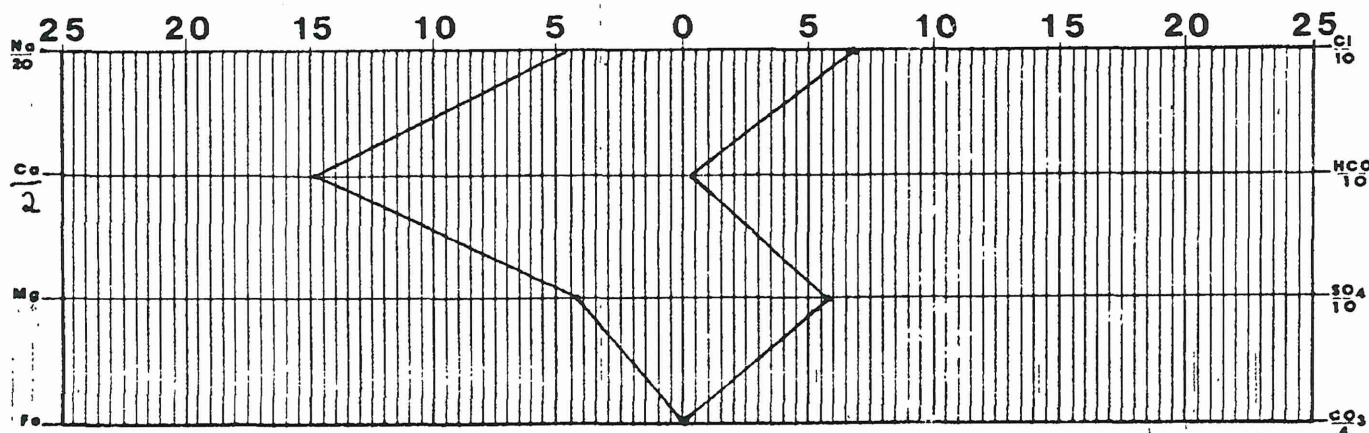
## ANIONS

|                               |       |      |
|-------------------------------|-------|------|
| Chloride, Cl                  | 2,410 | 68   |
| Sulfate, So <sub>4</sub>      | 2,730 | 56.8 |
| Carbonate, CO <sub>3</sub>    | -     | -    |
| Bicarbonate, HCO <sub>3</sub> | 844   | 4.0  |
|                               |       |      |
|                               |       |      |

Iron, Fe (total)  
Sulfide, as H<sub>2</sub>S

## REMARKS &amp; RECOMMENDATIONS:

ATTN: C.W. OONORME



|                                 |           |                                  |                      |
|---------------------------------|-----------|----------------------------------|----------------------|
| Date Received<br>8th Nov, 1991. | Preserved | Date Analyzed<br>23rd Dec, 1991. | Analyzed By<br>R. H. |
|---------------------------------|-----------|----------------------------------|----------------------|



## API WATER ANALYSIS REPORT FORM

Laboratory No. 25-930417-10

|  |  |   |  |                                  |  |
|--|--|---|--|----------------------------------|--|
| Company<br><b>Meridian Oil</b>         |  | Sample No.                                |  | Date Sampled<br><b>3-25-93</b>   |  |
| Field<br><b>4067 W</b>                 |  | Legal Description<br><b>D-7, 31-11</b>    |  | County or Parish<br><b>SJ</b>    |  |
| Lease or Unit                          |  | Well<br><b>Grenier #4</b>                 |  | Depth<br><b>120'</b>             |  |
|  |  | Formation                                 |  | Water, B/D                       |  |
| Type of Water (Produced, Supply, etc.) |  | Sampling Point<br><b>C. A. Ground Bed</b> |  | Sampled By<br><b>D. Ashworth</b> |  |

## DISSOLVED SOLIDS

| CATIONS            | mg/l        | me/l       |
|--------------------|-------------|------------|
| Sodium, Na (calc.) | <b>1900</b> | <b>82</b>  |
| Calcium, Ca        | <b>400</b>  | <b>20</b>  |
| Magnesium, Mg      | <b>17</b>   | <b>1.4</b> |
| Barium, Ba         |             |            |
|                    |             |            |
|                    |             |            |

## OTHER PROPERTIES

|                                       |               |
|---------------------------------------|---------------|
| pH                                    | <b>7.57</b>   |
| Specific Gravity, 60/60 F.            | <b>1.0091</b> |
| Resistivity (ohm-meters) <b>71</b> F. | <b>1.5</b>    |
|                                       |               |
|                                       |               |

Total Dissolved Solids (calc.)

**7100**

## ANIONS

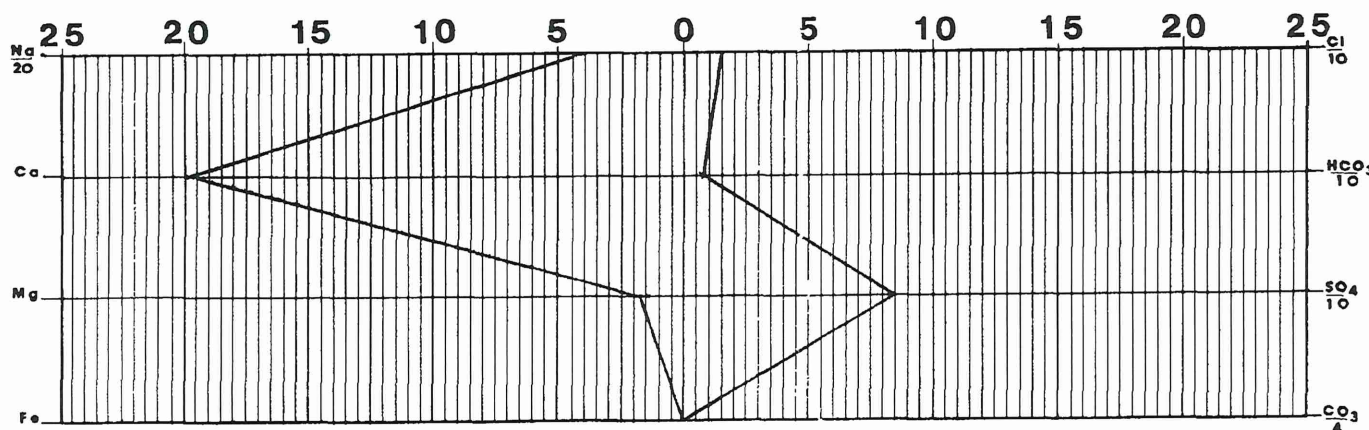
|                      |             |            |
|----------------------|-------------|------------|
| Chloride, Cl         | <b>500</b>  | <b>14</b>  |
| Sulfate, $SO_4$      | <b>4000</b> | <b>84</b>  |
| Carbonate, $CO_3$    |             |            |
| Bicarbonate, $HCO_3$ | <b>340</b>  | <b>5.6</b> |
|                      |             |            |
|                      |             |            |

Iron, Fe (total)

Sulfide, as  $H_2S$ 

## REMARKS &amp; RECOMMENDATIONS:

ATTN: Bill Donahue



|  |           |   |                            |
|--|-----------|---|----------------------------|
| Date Received<br><b>April 17th, 1993</b> | Preserved | Date Analyzed<br><b>April 24th 1993</b> | Analyzed By<br><b>P.H.</b> |
|--|-----------|---|----------------------------|



**TECH, Inc.**  
 333 East Main  
 Farmington  
 New Mexico  
 87401  
 505/327-3311



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 07      Township: 31N      Range: 11W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/11/20 10:06 AM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



## New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

### PLSS Search:

**Section(s):** 07

**Township:** 32N

**Range:** 11W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/11/20 10:07 AM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has been  
replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)




























(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number               | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | DepthWell | DepthWater | Water Column |
|--------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|-----------|------------|--------------|
| <a href="#">SJ 00135</a> |      | SJAR          | SJ     | 1    | 4    | 07  | 30N | 11W |     | 229764 | 4079745* | 180       | 23         | 157          |
| <a href="#">SJ 00162</a> |      | SJAR          | SJ     | 3    | 1    | 4   | 07  | 30N | 11W | 229663 | 4079644* | 58        | 23         | 35           |
| <a href="#">SJ 00259</a> |      | SJAR          | SJ     | 4    | 2    | 07  | 30N | 11W |     | 230184 | 4080137* | 25        | 12         | 13           |
| <a href="#">SJ 00329</a> |      | SJAR          | SJ     | 3    | 1    | 4   | 07  | 30N | 11W | 229663 | 4079644* | 63        | 20         | 43           |
| <a href="#">SJ 00358</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* | 61        | 38         | 23           |
| <a href="#">SJ 00387</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* |           |            |              |
| <a href="#">SJ 00389</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* | 53        |            |              |
| <a href="#">SJ 00397</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* | 56        | 35         | 21           |
| <a href="#">SJ 00415</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* | 53        | 40         | 13           |
| <a href="#">SJ 00601</a> |      | SJAR          | SJ     | 2    | 3    | 4   | 07  | 30N | 11W | 229844 | 4079443* | 40        | 22         | 18           |
| <a href="#">SJ 00604</a> |      | SJAR          | SJ     | 2    | 3    | 4   | 07  | 30N | 11W | 229844 | 4079443* | 38        | 22         | 16           |
| <a href="#">SJ 00620</a> |      | SJAR          | SJ     | 3    | 1    | 4   | 07  | 30N | 11W | 229663 | 4079644* | 52        | 35         | 17           |
| <a href="#">SJ 00679</a> |      | SJAR          | SJ     | 3    | 1    | 4   | 07  | 30N | 11W | 229663 | 4079644* | 48        | 22         | 26           |
| <a href="#">SJ 00688</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* | 70        | 58         | 12           |
| <a href="#">SJ 00689</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* | 78        | 65         | 13           |
| <a href="#">SJ 00690</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* | 60        |            |              |
| <a href="#">SJ 00739</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* | 70        | 58         | 12           |
| <a href="#">SJ 00748</a> |      | SJAR          | SJ     | 3    | 4    | 1   | 07  | 30N | 11W | 229289 | 4080055* | 60        | 41         | 19           |
| <a href="#">SJ 00769</a> |      | SJAR          | SJ     | 1    | 4    | 07  | 30N | 11W |     | 229764 | 4079745* | 50        | 14         | 36           |



|                          |      |    |   |   |   |    |     |     |        |  |    |    |    |
|--------------------------|------|----|---|---|---|----|-----|-----|--------|--|----|----|----|
| <a href="#">SJ 00806</a> | SJAR | SJ | 3 | 4 | 1 | 07 | 30N | 11W | 229289 | 4080055*     | 38 | 20 | 18 |
| <a href="#">SJ 00882</a> | SJAR | SJ | 3 | 4 | 1 | 07 | 30N | 11W | 229289 | 4080055*    | 60 | 50 | 10 |
| <a href="#">SJ 00889</a> | SJAR | SJ | 3 | 4 | 1 | 07 | 30N | 11W | 229289 | 4080055*    | 55 |    |    |
| <a href="#">SJ 00893</a> | SJAR | SJ |   | 2 | 4 | 07 | 30N | 11W | 230166 | 4079735*    | 80 | 40 | 40 |
| <a href="#">SJ 00918</a> | SJAR | SJ | 2 | 3 | 4 | 07 | 30N | 11W | 229844 | 4079443*    | 35 | 14 | 21 |
| <a href="#">SJ 00919</a> | SJAR | SJ | 2 | 3 | 4 | 07 | 30N | 11W | 229844 | 4079443*    | 35 | 12 | 23 |
| <a href="#">SJ 00920</a> | SJAR | SJ | 2 | 3 | 4 | 07 | 30N | 11W | 229844 | 4079443*    | 35 | 12 | 23 |
| <a href="#">SJ 01172</a> | SJAR | SJ |   | 2 | 3 | 07 | 30N | 11W | 229375 | 4079755*    | 50 | 30 | 20 |
| <a href="#">SJ 01310</a> | SJAR | SJ |   | 3 | 3 | 07 | 30N | 11W | 228950 | 4079364*    | 80 | 50 | 30 |
| <a href="#">SJ 01404</a> | SJAR | SJ |   | 3 | 4 | 07 | 30N | 11W | 229745 | 4079344*    | 40 | 15 | 25 |
| <a href="#">SJ 01406</a> | SJAR | SJ |   | 1 | 4 | 07 | 30N | 11W | 229764 | 4079745*    | 45 | 12 | 33 |
| <a href="#">SJ 01425</a> | SJAR | SJ |   | 4 | 3 | 07 | 30N | 11W | 229361 | 4079353*    | 55 | 25 | 30 |
| <a href="#">SJ 01468</a> | SJAR | SJ |   | 4 | 3 | 07 | 30N | 11W | 229361 | 4079353*    | 60 | 25 | 35 |
| <a href="#">SJ 01475</a> | SJAR | SJ | 3 | 3 | 2 | 07 | 30N | 11W | 229682 | 4080046*    | 49 | 27 | 22 |
| <a href="#">SJ 01484</a> | SJAR | SJ |   | 3 | 3 | 07 | 30N | 11W | 228950 | 4079364*    | 61 | 10 | 51 |
| <a href="#">SJ 01492</a> | SJAR | SJ |   |   | 3 | 07 | 30N | 11W | 229151 | 4079565*    | 60 | 22 | 38 |
| <a href="#">SJ 01567</a> | SJAR | SJ | 2 | 4 | 4 | 07 | 30N | 11W | 230247 | 4079431*  | 35 | 14 | 21 |
| <a href="#">SJ 01667</a> | SJAR | SJ |   | 3 | 4 | 07 | 30N | 11W | 229745 | 4079344*  | 41 | 21 | 20 |
| <a href="#">SJ 02005</a> | SJAR | SJ | 4 | 4 | 3 | 07 | 30N | 11W | 229460 | 4079252*  | 55 | 20 | 35 |
| <a href="#">SJ 02006</a> | SJAR | SJ | 2 | 4 | 3 | 07 | 30N | 11W | 229460 | 4079452*  | 50 | 24 | 26 |
| <a href="#">SJ 02140</a> | SJAR | SJ | 1 | 1 | 1 | 07 | 30N | 11W | 228886 | 4080666*  | 70 | 60 | 10 |
| <a href="#">SJ 02194</a> | SJAR | SJ |   |   |   | 07 | 30N | 11W | 229553 | 4079967*  | 59 | 22 | 37 |
| <a href="#">SJ 02715</a> | SJAR | SJ | 4 | 4 | 3 | 07 | 30N | 11W | 229460 | 4079252*  | 68 | 20 | 48 |
| <a href="#">SJ 02906</a> | SJAR | SJ | 4 | 1 | 4 | 07 | 30N | 11W | 229863 | 4079644*  | 45 | 24 | 21 |
| <a href="#">SJ 02936</a> | SJAR | SJ | 1 | 1 | 4 | 07 | 30N | 11W | 229663 | 4079844*  | 38 | 30 | 8  |
| <a href="#">SJ 03271</a> | SJAR | SJ | 2 | 3 | 2 | 07 | 30N | 11W | 229882 | 4080246*  |    |    |    |
| <a href="#">SJ 03465</a> | SJAR | SJ | 4 | 3 | 2 | 07 | 30N | 11W | 229882 | 4080046*  | 80 |    |    |

11/11/2020

nmwrrs.ose.state.nm.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"waterColumn"%2C%0A"BasinDiv"%3A"true"%2C%0A"Basin"%3A"%2C%0A"County"%3A"%2C%0A"Sub\_b...

|                               |      |    |   |   |   |    |     |     |        |          |   |     |    |    |
|-------------------------------|------|----|---|---|---|----|-----|-----|--------|----------|---|-----|----|----|
| <a href="#">SJ 03484</a>      | SJAR | SJ | 3 | 4 | 3 | 07 | 30N | 11W | 229260 | 4079252* |   | 75  |    |    |
| <a href="#">SJ 03630</a>      | SJAR | SJ | 3 | 3 | 3 | 07 | 30N | 11W | 228849 | 4079263* |  | 68  | 24 | 44 |
| <a href="#">SJ 03794 POD1</a> | SJAR | SJ | 3 | 1 | 3 | 07 | 30N | 11W | 228894 | 4079720  |  | 44  | 27 | 17 |
| <a href="#">SJ 03914 POD1</a> | SJAR | SJ | 3 | 3 | 2 | 07 | 30N | 11W | 229772 | 4080131  |  | 140 | 65 | 75 |
| <a href="#">SJ 04048 POD1</a> | SJAR | SJ | 3 | 3 | 3 | 07 | 30N | 11W | 228774 | 4079213  |  | 52  | 4  | 48 |
| <a href="#">SJ 04337 POD1</a> | SJAR | SJ | 2 | 4 | 3 | 07 | 30N | 11W | 229295 | 4079512  |  | 95  | 65 | 30 |
| <a href="#">SJ 04404 POD1</a> | SJAR | SJ |   | 4 | 4 | 07 | 30N | 11W | 230236 | 4079735  |  | 70  |    |    |

Average Depth to Water: **29 feet**Minimum Depth: **4 feet**Maximum Depth: **65 feet****Record Count:** 53**PLSS Search:****Section(s):** 07**Township:** 30N**Range:** 11W

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/11/20 10:07 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER

## Horton #001D

### Remediation Summary

Epic Energy representative arrived Horton #001D on the morning of July 08, 2018 to remove the below grade tank (BGT).

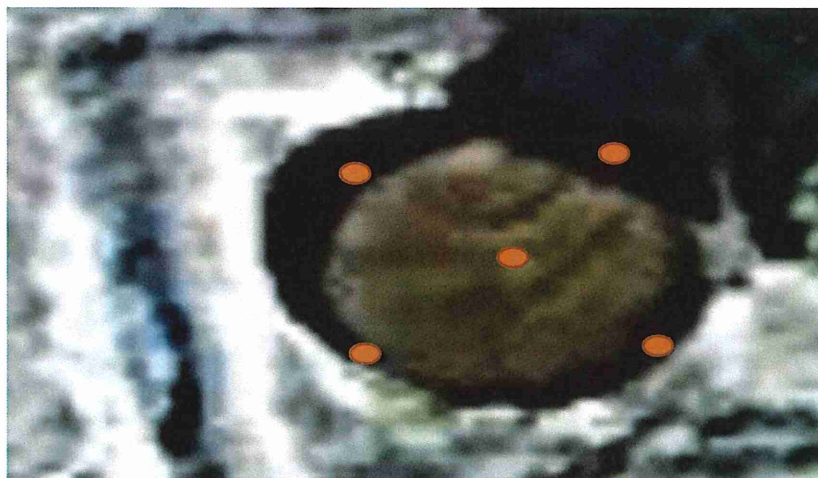
An initial C-141 is attached for Closure of the C-144 demonstrating a release but was under regulatory standards. The NMOCD and BLM were notified of the release and given incident # nCS1917854937. Sampling was conducted on July 8, 2018, the NMOCD was present for the sampling event. (1) 5 composite samples were collected in the base of the BGT All analytical results came below regulatory standards

**Sample Closure photos are not attached due to historic nature of the closure**

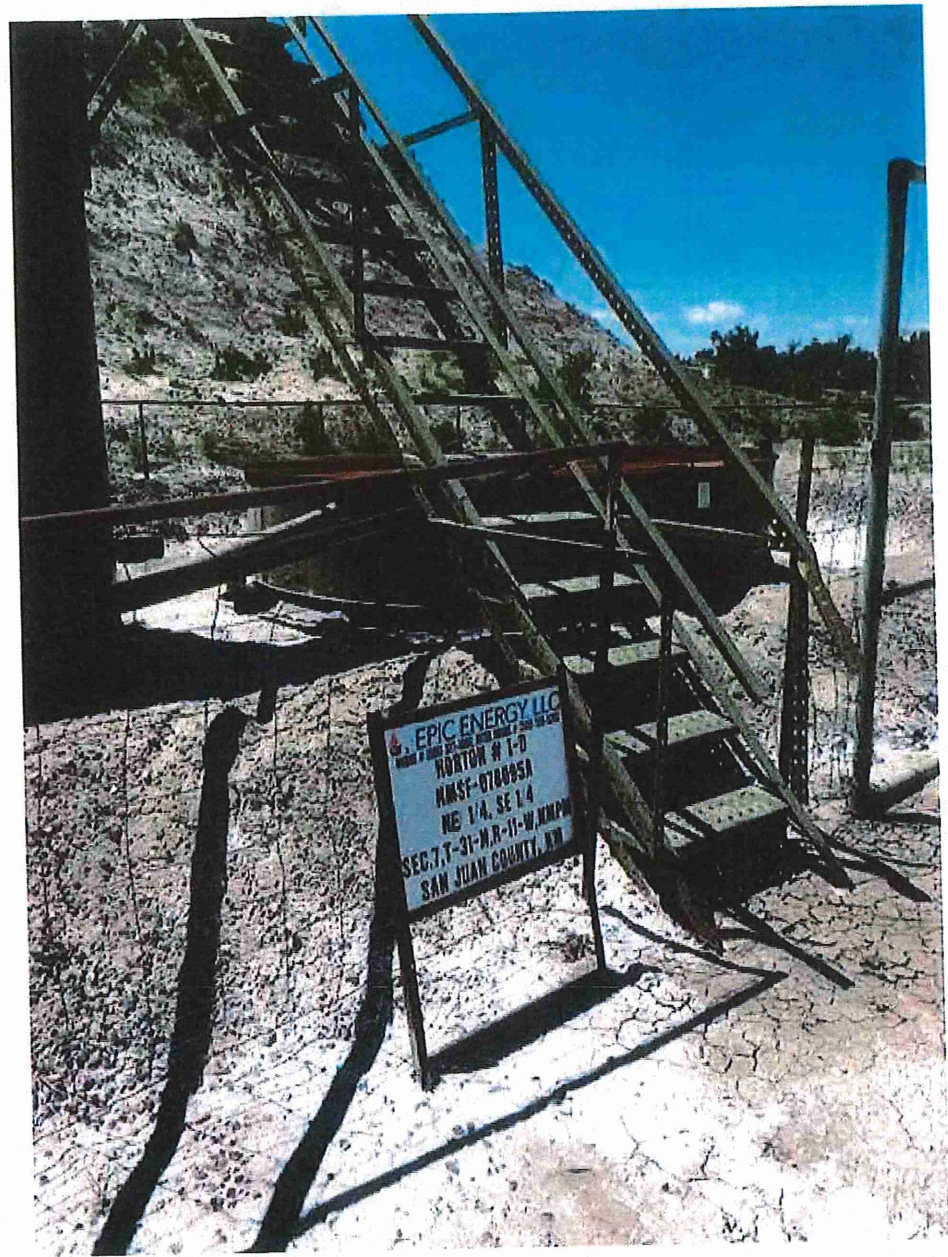
A C-141 is attached for Closure demonstrating a release did occur on the Horton #001D but was below regulatory standards.

|                  |            |
|------------------|------------|
| 8021 BTEX        | 9.3 mg/kg  |
| Benzene          | Non-Detect |
| 8015 GRO/DRO/ORO | 758 mg/kg  |
| Chloride         | Non-Detect |

5- point Composite Sampling Area









**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 11422

**CONDITIONS**

|  |   |
|--|---|
| Operator:<br>EPIC ENERGY, L.L.C.<br>332 Road 3100<br>Aztec, NM 87410 | OGRID:<br>372834  |
|  | Action Number:<br>11422                                   |
|  | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| nvelez     | 1. Site must be reclaimed per 19.15.29.13 NMAC. 2. Future incidents meet required timeline. 3. Communication with NMOCD for anticipated delays or time extensions be recorded accordingly. | 10/4/2021      |