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-144 Revised April 3, 2017

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For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

## Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:  $\square$  Below grade tank registration

Permit of a pit or proposed alternative method

Closure of a pit, below-grade tank, or proposed alternative method

Modification to an existing permit/or registration

Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,

or proposed alternative method

BGT1

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

| 1.     Operator:     Hilcorp Energy Company     OGRID #:     372171   |
|---|
| Address: 382 Road 3100 Aztec NM 87410   |
| Facility or well name: Hare Gas Com D 1   |
| API Number: 30-045-08303 OCD Permit Number  |
| U/L or Qtr/Qtr I Section 14 Township 29N Range 11W County: San Juan   |
| Center of Proposed Design: Latitude <u>36.725647</u> °N Longitude <u>-107.955941</u> °W NAD83   |
| Surface Owner: 🗌 Federal 🗌 State 🖂 Private 🗌 Tribal Trust or Indian Allotment   |
| 2.<br>Pit: Subsection F, G or J of 19.15.17.11 NMAC   |
| Temporary: Drilling Workover  |
| Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no   |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other   |
| String-Reinforced   |
| Liner Seams: 🗌 Welded 🗋 Factory 🗋 Other Volume:bbl Dimensions: L x W x D  |
| 3.  |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC  |
| Volume: <u>Max 120</u> bbl Type of fluid: <u>Produced Water</u>   |
| Tank Construction material: <u>Metal</u>  |
| Secondary containment with leak detection 🛛 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off   |
| □ Visible sidewalls and liner □ Visible sidewalls only □ Other  |
| Liner type: Thickness45mil  |
| 4.  |
| Alternative Method:   |
| Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.                              |
| 5.  |
| Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  |
| Chain link, six feet in height, two strands of barbed wire at top ( <i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i> ) |
| Four foot height, four strands of barbed wire evenly spaced between one and four feet   |
| Alternate. Please specify <u>4' hog wire fence with a single strand of barbed wire on top</u>   |

**Netting:** Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen D Netting Other\_

Monthly inspections (If netting or screening is not physically feasible)

#### Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

#### Variances and Exceptions:

7.

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

- Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

| General siting  |                    |  |  |  |  |  |
|---|--------------------|--|--|--|--|--|
| Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells   |                    |  |  |  |  |  |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.<br>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | ☐ Yes ☐ No<br>☐ NA |  |  |  |  |  |
| <ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul> | 🗌 Yes 🗌 No         |  |  |  |  |  |
| <ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>   | Yes No             |  |  |  |  |  |
| <ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>   | 🗌 Yes 🗌 No         |  |  |  |  |  |
| Within a 100-year floodplain. (Does not apply to below grade tanks)<br>- FEMA map   | ☐ Yes ☐ No         |  |  |  |  |  |
| Below Grade Tanks   |                    |  |  |  |  |  |
| <ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | 🗌 Yes 🛛 No         |  |  |  |  |  |
| <ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>  |                    |  |  |  |  |  |
| Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)  |                    |  |  |  |  |  |
| <ul> <li>Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>                         |                    |  |  |  |  |  |
| <ul> <li>Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>   |                    |  |  |  |  |  |
| Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock  |                    |  |  |  |  |  |

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

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|--|-------------------------------------|
| <ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | Yes No                              |
| <u>Temporary Pit Non-low chloride drilling fluid</u>   |                                     |
| <ul> <li>Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>   | 🗌 Yes 🗌 No                          |
| <ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>   | 🗌 Yes 🗌 No                          |
| <ul> <li>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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>  | 🗌 Yes 🗌 No                          |
| <ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | 🗌 Yes 🗌 No                          |
| <u>Permanent Pit or Multi-Well Fluid Management Pit</u>  |                                     |
| <ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | 🗌 Yes 🗌 No                          |
| <ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>  | 🗌 Yes 🗌 No                          |
| <ul> <li>Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>   | 🗌 Yes 🗌 No                          |
| <ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | 🗌 Yes 🗌 No                          |
| 10.         Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:       Subsection B of 19.15.17.9 N         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.            Mydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC             Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC             Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC             Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC             Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC             Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC             Previously Approved Design (attach copy of design) | vuments are<br>NMAC<br>15.17.9 NMAC |
|  |                                     |
| 11.         Multi-Well Fluid Management Pit Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.  | .15.17.9 NMAC                       |
| Previously Approved Design (attach copy of design) API Number: or Permit Number:   |                                     |
|  |                                     |

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| 12.         Permanent Pits Permit Application Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the orattached.            Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC            Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC            Climatological Factors Assessment             Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC            Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC            Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC            Lake Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC            Quality Control/Quality Assurance Construction and Installation Plan            Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC            Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC            Dil Field Waste Stream Characterization            Monitoring and Inspection Plan            Errosion Control Plan            Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC <th>locuments are</th> | locuments are      |  |  |  |  |
|---|--------------------|--|--|--|--|
| 13.       Proposed Closure:       19.15.17.13 NMAC         Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.         Type:       Drilling       Workover       Emergency       Cavitation       P&A       Permanent Pit       Below-grade Tank       Multi-well FI         Alternative       Alternative         Proposed Closure Method:       Waste Excavation and Removal         Waste Removal (Closed-loop systems only)         On-site Closure Method (Only for temporary pits and closed-loop systems)         In-place Burial       On-site Trench Burial         Alternative Closure Method   | uid Management Pit |  |  |  |  |
| <ul> <li>14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>   |                    |  |  |  |  |
| 15.<br>Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC<br>Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour<br>provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P<br>19.15.17.10 NMAC for guidance.  |                    |  |  |  |  |
| <ul> <li>Ground water is less than 25 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>   | □ Yes □ No<br>□ NA |  |  |  |  |
| Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   |                    |  |  |  |  |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells<br>Yes No NA   |                    |  |  |  |  |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Topographic map; Visual inspection (certification) of the proposed site  |                    |  |  |  |  |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  |                    |  |  |  |  |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site   |                    |  |  |  |  |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality   | 🗌 Yes 🗌 No         |  |  |  |  |
| Within 300 feet of a wetland.<br>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   |                    |  |  |  |  |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance   |                    |  |  |  |  |
| Form C-144 Oil Conservation Division Page 4 o   | fG                 |  |  |  |  |

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|---|--------------------------|
| adopted pursuant to NMSA 1978, Section 3-27-3, as amended.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipality   | Yes No                   |
| <ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>   | 🗌 Yes 🗌 No               |
| <ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological<br/>Society; Topographic map</li> </ul>   | 🗌 Yes 🗌 No               |
| Within a 100-year floodplain.<br>- FEMA map   | Yes No                   |
| <ul> <li>16.</li> <li>On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plat by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul> | 11 NMAC<br>15.17.11 NMAC |
| <ul> <li>17.</li> <li>Operator Application Certification:</li> <li>I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.</li> </ul>  | ef.                      |
| Name (Print): Kandis Roland Title: Operations/Regulatory Technician   | <u>1 – Sr.</u>           |
| Signature: Kandis Roland Date: 1/10/2023  |                          |
| e-mail address: <u>kroland@hilcorp.com</u> Telephone: <u>713-757-5246</u>   |                          |
| 18. OCD Approval: X Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)   |                          |
| OCD Representative Signature: Jaclyn Burdine Approval Date: 01/10/2   | .023                     |
| Title:       Environmental Specialist-A       OCD Permit Number:       BGT1   |                          |
| 19.<br><u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC<br>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting<br>The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not<br>section of the form until an approved closure plan has been obtained and the closure activities have been completed.<br>Closure Completion Date:  |                          |
| 20.         Closure Method:         □ Waste Excavation and Removal □ On-Site Closure Method □ Alternative Closure Method □ Waste Removal (Closed-log □ If different from approved plan, please explain.   | op systems only)         |
| <ul> <li>21.</li> <li><u>Closure Report Attachment Checklist</u>: <i>Instructions: Each of the following items must be attached to the closure report. Please indemark in the box, that the documents are attached.</i> <ul> <li>Proof of Closure Notice (surface owner and division)</li> <li>Proof of Deed Notice (required for on-site closure for private land only)</li> <li>Plot Plan (for on-site closures and temporary pits)</li> <li>Confirmation Sampling Analytical Results (if applicable)</li> </ul> </li> </ul>  | łicate, by a check       |

| 22.<br>Operator Closure Certification:   |            |  |  |  |  |
|--|------------|--|--|--|--|
| I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. |            |  |  |  |  |
| Name (Print):  | Title:     |  |  |  |  |
| Signature:   | Date:      |  |  |  |  |
| e-mail address:  | Telephone: |  |  |  |  |
|  |            |  |  |  |  |

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### Hare Gas Com D 1 (BELOW GRADE TANK)

Hilcorp Energy Company requests a variance for the items listed below. The requested variance, per 19.15.17.15.A, provides equal or better protection of fresh water, public health & the environment.

- 1. Fencing
  - Fencing as described in Section 5 under Alternate, Hilcorp will construct all new fences around the below grade tank utilizing 48" steel mesh field-fence (hog-wire) on the bottom with a single strand of barbed wire or a welded railing on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Below grade tanks will be fenced, regardless of location.
- 2. Geo-membrane Liner
  - The geo-membrane liner consists of a 45-mil flexible LLDPE material manufactured by Brawler Industries, LLC as SuperScrim H45. SuperScrim H45 is manufactured with LLDPE and is 45 mil inch thickness and is reinforced with polyester scrim. The geomembrane liner has a hydraulic conductivity of less than 5 X 10<sup>-14</sup> cm/s and is resistant to ultraviolet light, petroleum hydrocarbons, salts and acidic and alkaline solutions. The manufacturer specific sheet is attached.
- 3. Hilcorp will notify Public Entity Surface Owners by email in lieu of certified mail. Private Entity Surface Owners will still be notified via certified mail.

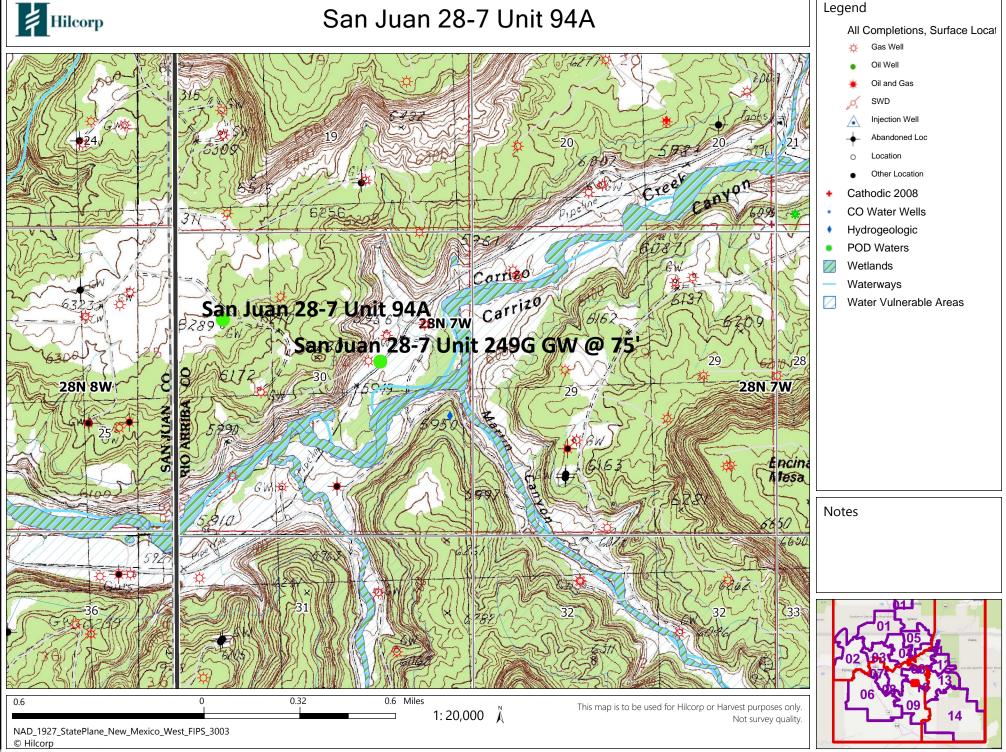
|         |                   |                          | v Mexico<br>nt of                                    |              |                 |           | v         |                         | U                                |         |
|---------|-------------------|--------------------------|--|--------------|-----------------|-----------|-----------|-------------------------|----------------------------------|---------|
| Well Ta | 0                 | <b>) Number</b><br>)3175 | (quarters ar<br>(quarters a<br><b>Q64 Q16</b><br>1 2 | re sma<br>Q4 | llest to<br>Sec | o largest | Rng       | (NAD83 U<br>X<br>236060 | TM in meters)<br>Y<br>4068423* 🥌 | )       |
|         | License:<br>Name: | 717                      | Driller Co   | mpar         | ıy:             | WE        | ESTERN V  | WATER W                 | ELLS                             |         |
| Drill S | tart Date:        | 09/21/2002               | <b>Drill Finis</b>                                   | h Dat        | e:              | 0         | 9/23/2002 | Plu                     | ug Date:                         |         |
| Log Fi  | le Date:          | 09/29/2002               | PCW Rev  | Date         | :               |           |           | So                      | urce:                            | Shallow |
| Pump    | Туре:             |                          | Pipe Disch   | arge         | Size            | :         |           | Es                      | timated Yield:                   | 1 GPM   |
| Casing  | Size:             | 6.00                     | Depth We   | l:           |                 | 6         | 0 feet    | De                      | epth Water:                      | 24 feet |

\*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.

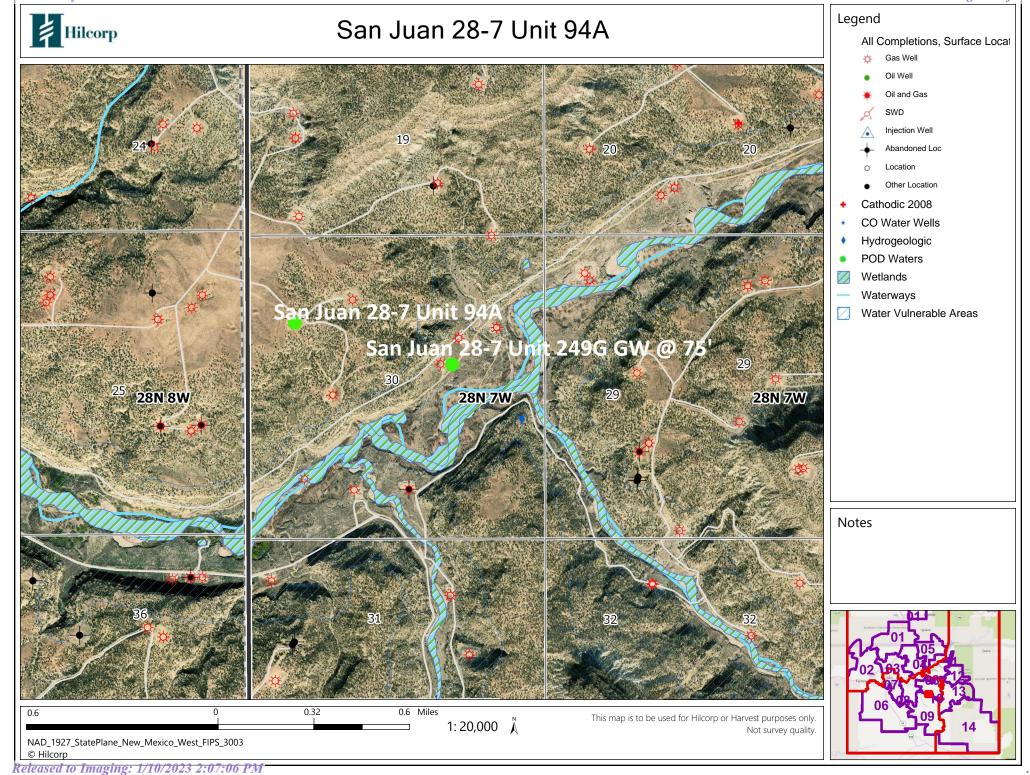
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POINT OF DIVERSION SUMMARY



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Received by OCD: 1/10/2023 9:59:08 AM



## Below Grade Tank (BGT) Siting Criteria and Compliance Demonstrations

Well Name: Hare Gas Com D 1

- <u>Depth to groundwater (should not be less than 25 feet)</u>: The nearest recorded well with available water-depth information is the POD # SJ-03175 with groundwater @ 24' as indicated in the **iWaters Sheet** attached. The subject well is 4' more in elevation from the bottom of the BGT making depth to groundwater at 28'.
- Distance to watercourse (should not be within 100 feet of a continuously flowing watercourse, other significant watercourse, lakebed, sinkhole, wetland or playa lake [measured from the ordinary high-water mark]):

Aerial map attached indicates that there are **no** lakebeds, sinkholes, playa lakes, or watercourses within 100 feet of the proposed Below Grade Tank.

3. <u>Distance to springs or wells (should not be within 200 feet of a spring or a fresh water</u> well used for public or livestock consumption):

Aerial map attached indicates that the Below Grade Tank will **not** be within 200 feet of any recorded well or spring.

## Hydrogeological report for Alluvium Quaternary Formation Hydro Formation

## **Regional Geological context:**

Quaternary and recent deposits in the San Juan Basin include stream-deposited alluvium and older terrace deposits, landslide deposits, and Aeolian sand. Most Quaternary and younger deposits area unconsolidated and form a thin covering over older bedrock sediments.

Stream-deposited alluvium and older terrace deposits are associated with major streams and rivers in the San Juan Basin. The alluvium consists of unconsolidated sediments that range from silt to cobbles in size but predominantly are sand and gravel. Along major streams the alluvium is varied in composition, depending on the mix of material from the various erosional source areas and fluvialy-driven sorting. Alluvial deposits also occur as a thin veneer of fine-grained sediments in the valleys of intermittent streams. Landslide deposits are mapped on the northeastern flank of the Chuska Mountains and locally in the San Juan Mountains. These colluvial deposits consist of material derived from the topographically higher source areas. The landslide material on the flank of Chuska Mountains consists of reworked sand from the Chuska Sandstone; the deposits in the San Juan Mountains primarily are derived from volcanic or volcaniclastic sources. Unconsolidated wind-blown deposits are common in the central part of the basin, although they generally are not mapped on small scale geologic maps. Typically, these deposits are very thin, but local dunes near dry washes, which are excellent sources of fine-grained material, may reach heights of 20 feet. These recent Aeolian deposits are not known to yield water to wells.

### **Hydraulic Properties:**

In the absence of other sources of water, alluvial deposits, where present, are commonly relied upon as a source of water for domestic and livestock use. Along the major rivers and streams, wells are of conventional vertical design, whereas in the valleys of intermittent streams, where the hydraulic conductivities and saturated thickness are generally small, most wells are constructed as galleries of horizontal drains feeding to a central collector. Reported well yields range from less than 1 gallon per minute to as much as 1,100 gallons per minute. The median yield of 48 wells is 15 gallons per minute.

Hydraulic conductivities of sand and gravel can vary from 10 to 1,000,000 gallons per day per foot squared (roughly 1 to 100,000 feet per day) (Freeze and Cherry, 1979, table 2.2.) but a more typical range is from 15 feet per day for fine sand to about 1,000 feet per day for coarse gravel (Lohman, 1972, table 17). Tests along the San Juan River upstream from Farmington indicate that the hydraulic conductivity of alluvium ranges from 0.006 to 220 feet per day (Peter et al, 1987, p. 29). The thickness of alluvium at this site was reported to range from about 14 to 61 feet, and the saturated thickness was less than 25 feet in all 13 test holes. Water occurs in the alluvium under unconfined conditions. No tests have been made where the storage coefficient of the alluvium was determined.

However, a typical specific yield for moderate to well-sorted unconsolidated sediments would be in the range of 0.1 to 0.25.

No known hydraulic data exists for the landslide and recent Aeolian deposits in the basin. No instances are known where these deposits are used as a source of water.

### **References:**

Freeze, R.A., and Cherry, J.A., 1979, Groundwater: Englewood cliffs, N.J., Prentice-Hall, Inc., 604 p.

Lohman, S.W., 1972, Ground-water hydraulics: U.S.G.S. Professional Paper 708, 70 p. Peter, K.D., Williams, R.A., and King, K.W., 1987, Hydrogeologic characteristics of the Lee Acres landfill area, San Juan County, New Mexico: U.S.G.S. Water Resources Investigations Report 87-4246, 69 p.

#### **Below Grade Tank Design and Construction**

In accordance with NMAC 19.15.17 the following information describes the design and construction of below-grade tanks on Hilcorp Energy Company, hereinafter known as HEC, locations. This is HEC's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

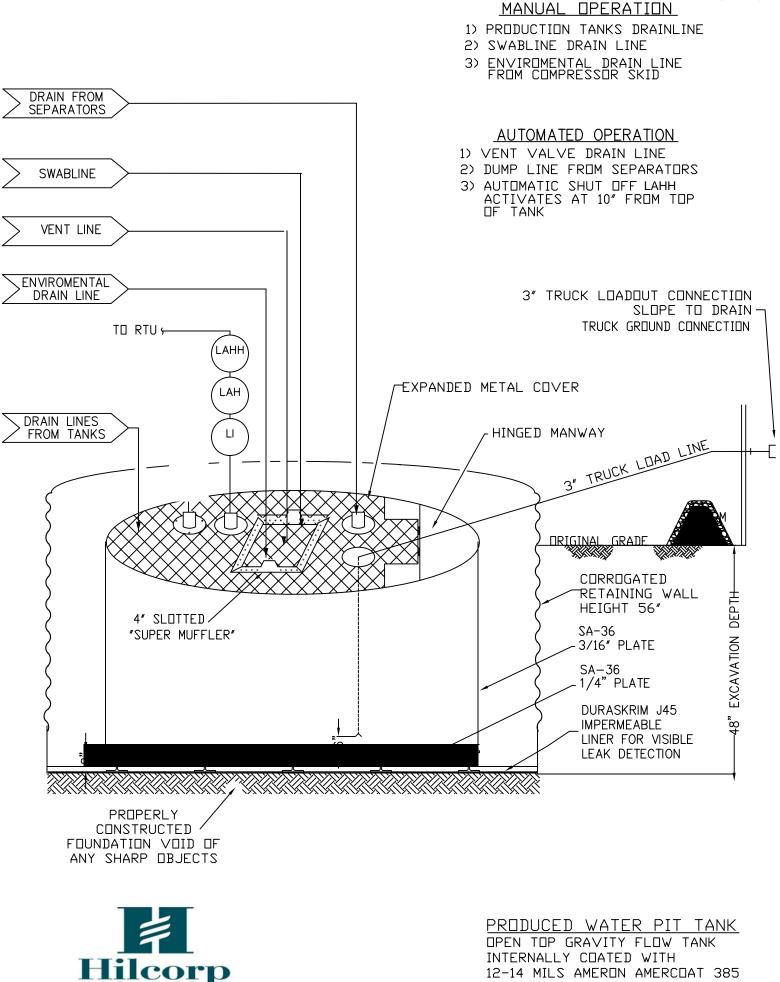
#### **General Plan:**

- 1. HEC will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. HEC signage will comply with 19.15.17.11.C NMAC.
- 3. HEC is requesting approval of an alternative fencing to be used on BGT tank locations. HEC requests to utilize 48" steel mesh field-fence (hog-wire) on the bottom with a single strand of barbed wire or a welded railing on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. BGTs will be fenced, regardless of location.
  - a. If the BGT is located within 1000' of an occupied permanent residence, school, hospital, institution or church, HEC will construct A 6' chain link fence with two strands of barbed wire or a welded railing on top. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. HEC will construct a screened, expanded metal covering, on the top of the BGT.
- 5. HEC will ensure that a BGT is constructed of materials resistant to the BGT's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The HEC BGT system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. HEC shall operate and install the BGT to prevent the collection of surface water run-on. HEC has built in shut off devices that do not allow a BGT to overflow. HEC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the BGT as shown on the design plan.
- 8. If HEC needs to modify/retrofit the existing BGT it will meet the below specifications.
- 9. HEC will construct and use a BGT that does not have double walls. The BGT's side walls will be open for visual inspection for leaks, the BGT's bottom is elevated a minimum of six inches above the underlying ground surface and the BGT is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.
- 10. HEC will equip below grade tanks with a properly functioning, automatic high-level shut off control device, as well as manual controls, to prevent overflows.
- 11. HEC will utilize a geomembrane liner manufactured by Brawler Industries, LLC as SuperScrim H45. SuperScrim H45 is manufactured with LLDPE and is 45 mil inch thickness and is reinforced with polyester scrim. The geomembrane liner has a hydraulic conductivity of less than 5 X 10<sup>-14</sup> cm/s and is resistant to ultraviolet light, petroleum hydrocarbons, salts and acidic and alkaline solutions. The manufacturer specific sheet is attached.
- 12. The general specification for design and construction are attached

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## SuperScrim<sup>™</sup> H Product Specifications

#### This product meets GRI GM 25 Specifications

| This product meets and an 25 specifications                             |                                |             |        |           |          |  |
|---|--------------------------------|-------------|--------|-----------|----------|--|
| Properties Test Method Frequ  |                                | Frequency   | Minimu | m Average | e Values |  |
|   |                                |             | H30    | H36       | H45      |  |
| Thickness,  |                                | Devicell    | 30     | 36        | 45       |  |
| Nominal (mils)<br>Min. Ave. (mils)                                      | ASTM D5199                     | Per roll    | 27     | 32        | 40       |  |
| Weight  |                                |             |        |           |          |  |
| Nominal (lb/1000, ft <sup>2</sup> )                                     | ASTM D5261                     | Per roll    | 140    | 168       | 210      |  |
| Min. Ave. (lb/1000, ft <sup>2</sup> )                                   |                                |             | 125    | 151       | 189      |  |
| Grab Tensile  | ASTM D7004                     |             |        |           |          |  |
| Strength (lb), min. ave.  | (each direction)               | 30,000 lb   | 300    | 310       | 320      |  |
| Elongation (%), min. ave.   | (each direction)               |             | 25     | 25        | 25       |  |
| Tongue Tear (lb), min. ave.   | ASTM D5884<br>(each direction) | 30,000 lb   | 130    | 130       | 130      |  |
| Index Puncture (lb), min. ave.  | ASTM D4833                     | 30,000 lb   | 85     | 103       | 105      |  |
| Ply Adhesion (lb), min. ave. (1)  | ASTM D6636                     | 30,000 lb   | 20     | 25        | 25       |  |
| Oxidative Induction Time (OIT) <sup>(2)</sup><br>(a) Standard OIT<br>Or | ASTM D3895                     | Formulation | >100   | >100      | >100     |  |
| (b) High Pressure OIT   | ASTM D5885                     |             | >1000  | >1000     | >1000    |  |
| Standard Roll Dimensions  |                                |             |        |           |          |  |
| Roll Width (3), ft  |                                |             | 11.83  | 11.83     | 11.83    |  |
| Roll Length (3), ft   | 1500                           | 1230        | 1000   |           |          |  |
| Roll Area, ft <sup>2</sup>  | 17,745                         | 14,551      | 11,830 |           |          |  |

<sup>(1)</sup>Alternatively, an acceptable ply adhesion is to have a film tearing bond occur within the sheet material. <sup>(2)</sup>The Manufacturer has the option to select either one of the OIT methods listed to evaluate the

antioxidant effectiveness in the geomembrane.

<sup>(3)</sup>Roll widths and lengths have a tolerance of  $\pm 1\%$ 

\*Custom material thicknesses also available

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This is a preliminary data sheet based upon laboratory testing of initial manufacturing lots and may be changed without notice as additional product testing data becomes available.



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## SuperScrim<sup>™</sup> WC Product Specifications

| Properties                      | Test Method | Minimum Average Values             |                                    |                                    |                                    |                                    |                                    |
|---------------------------------|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
|                                 |             | 9 mil                              | 12 mil                             | 16 mil                             | 20 mil                             | 24 mil                             | 30 mil                             |
| Weight                          | D5261       | 5.4 oz/yd <sup>2</sup>             | 5.7 oz/yd <sup>2</sup>             | 7.2 oz/yd <sup>2</sup>             | 9.6 oz/yd <sup>2</sup>             | 11.5 oz/yd <sup>2</sup>            | 13.4 oz/yd <sup>2</sup>            |
| Thickness                       |             | 9 mil                              | 12 mil                             | 16 mil                             | 20 mil                             | 24 mil                             | 30 mil                             |
| Grab Tensile (lbs.)             | D751        | MD 200<br>CD 135                   | MD 210<br>CD 176                   | MD 230<br>CD 210                   | MD 330<br>CD 286                   | MD 352<br>CD 300                   | MD 352<br>CD 300                   |
| Mullen Burst                    | D6241       | 300 psi                            | 350 psi                            | 400 psi                            | 600 psi                            | 680 psi                            | 780 psi                            |
| Accelerated UV Weathering       | D4355       | >80% after<br>2000 hrs<br>exposure | >90% after<br>2000 hrs<br>exposure |
| Standard Roll Dimensions        |             |                                    |                                    |                                    |                                    |                                    |                                    |
| Roll Length <sup>(2)</sup> , Ft |             | 3,000                              | 3,000                              | 4,000                              | 3,000                              | 2,250                              | 2,250                              |
| Roll Width (2), Ft              |             | 12                                 | 12                                 | 12                                 | 12                                 | 12                                 | 12                                 |
| Roll Area, Ft <sup>2</sup>      |             | 36,000                             | 36,000                             | 48,000                             | 36,000                             | 27,000                             | 27,000                             |

 $^{(1)}$ 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.  $^{(2)}$ Roll widths and lengths have a tolerance of  $\pm$  1%

Custom material thicknesses also available

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#### Hilcorp Energy Company San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of a below-grade tank (BGT) on a Hilcorp Energy Company (HEC) location. This is HEC's standard procedure for all BGT's. A separate plan will be submitted for any BGT which does not conform to this plan.

#### **General Plan:**

- 1. HEC will operator and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and the environmental. HEC will perform an inspection on a monthly basis, install cathodic protection and automatic overflow shutoff devices as seen on the design plan.
- 2. HEC will not discharge into or store any hazardous waste in the BGT.
- 3. HEC shall operator and install the BGT to prevent the collection of surface water run-on. HEC has built in shut-off devices that do not all ow a BGT to overflow. HEC constructs berms and corrugated retained walls at least 6" above grade to keep surface water run-on from entering the BGT as shown on the design plan.
- 4. As per 19.15.17.12.D(3), HEC will inspect the BGT for leakage and damage at least monthly. The operator will document the integrity of each tank at least annually and maintain a written record for 5 years. Inspections may include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. HEC shall remove any visible or measurable layer of oil from the fluid surface of the BGT in an effort to prevent significant accumulation of oil overtime.
- 5. HEC shall maintain adequate freeboard to prevent overtopping of the BGT.
- 6. If a BGT develops a leak, then HEC shall removal all liquid above the damage or leak within 48 hours of discovery, notify the appropriate division office pursuant to 19.15.29 NMAC and repair the damage or replace BGT as applicable.
- 7. If HEC discovers a BGT designed in accordance with 19.15.17.11.I(5) has lost integrity the BGT will promptly be drained and removed from service and HEC will follow the approved closure plan. If HEC discovers a retrofitted BGT designed in accordance with 19.15.17.11.I(4)(a-c), does not demonstrate integrity or that the BGT develops any of the conditions identified in Paragraph (5) of Subsection A of 19.15.17.12 NMAC shall repair the damage or close the existing BGT pursuant to the closure requirements of 19.15.17.13 NMAC.
- 8. If HEC equips or retrofits the existing BGT to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, HEC shall visually inspect the area beneath the BGT during the retrofit and document any areas that are wet, discolored or showing other evidence of a release on form C-141. HEC shall measure and report to the division the concentration of contaminants in the wet or discolored soil with respect to the standards set forth in Table I of 19.15.17.13 NMAC. If there is no wet or discolored soil or if the concentration of contaminants in the wet or discolored soil is less than the standard set forth in Table I of 19.15.17.13 NMAC, then HEC will proceed with the closure requirements of 19.15.17.13 NMAC prior to initiating the retrofit or replacement.

### Hilcorp Energy Company San Juan Asset Production BGT Closure Plan

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of a below-grade tank (BGT) on any Hilcorp Energy Company (HEC) location in the San Juan Asset. This is HEC's standard closure procedure for all BGT's regulated under Rule 19.15.17 NMAC and operated by HEC. For those closures which do not conform to this standard closure plan, a separate BGT specific closure plan will be developed and utilized.

#### **Closure Conditions and Timing for BGT:**

- Within 60 days of cessation of operation HEC will:
  - Remove all liquids and sludge and dispose in a division approved manner.
- Within 72 hours or 1 week prior to closure HEC will:
  - Give notice to surface owners by certified mail. For public entities by email as specified on the variance page.
  - Give notice to Division District Office verbal or in writing/email.
- Within 6 months of cessation of operation HEC will:
  - Remove BGT and dispose, recycle, reuse, or reclaim in a division approved manner.
  - Remove unused onsite equipment associated with the BGT.
- Within 60 days of closure HEC will:
  - Send the Division District Office a Closure Report per 19.15.17.13.F (1).

#### General Plan Requirements:

- 1. Prior to initiating any BGT closure, except in the case of an emergency, HEC will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or 1 week before closure and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner will be notified as soon as practical.
- 2. Notice of closure will be given to the Division District office between 72 hours and 1 week of the scheduled closure via email or phone. The notification of closure will include the following:
  - a. Operators Name
  - b. Well Name and API Number
  - c. Location
- 3. All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed of at one of HEC's approved Salt Water Disposal facilities or at a Division District Office approved facility.
- 4. Solids and sludge's will be shoveled and/or vacuumed out for disposal at one of the Division District Office approved facilities, depending on the proximity of the BGT site: Envirotech Land Farm (Permit #NM-01-011), Industrial Ecosystems Inc. JFJ Land Farm (Permit #NM-01-0010B), and Basin Disposal (Permit #NM-01-005).
- 5. HEC will obtain prior approval from the Division District Office to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division District Office. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liner materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC. Disposal will be at a licensed disposal facility, presently San Juan County Landfill operated by Waste Management under NMED Permit SWM-052426.
- 6. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure, will be removed.

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- 7. Following removal of the tank and any liner material, HEC will test the soils beneath the BGT as follows:
  - a. At a minimum, a five-point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
  - b. The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13.

| Table I  |  |                                  |              |  |  |  |
|--|--|----------------------------------|--------------|--|--|--|
| Closure Criteria for Soils Beneath Below-Grade Tanks, Drying Pads Associated with Closed-Loop Systems and Pits |  |                                  |              |  |  |  |
|  | where C  | ontents are Removed              | -            |  |  |  |
| Depth below bottom of pit to   | Depth below bottom of pit to Constituent Method* |                                  |              |  |  |  |
| groundwater less than 10,000   |  |                                  |              |  |  |  |
| mg/I TDS   |  |                                  |              |  |  |  |
| $\frown$   | Chloride   | EPA 300.0                        | 600 mg/kg    |  |  |  |
| ≤50 feet   | TPH  | EPA SW-846 Method 418.1          | 100 mg/kg    |  |  |  |
|  | BTEX   | EPA SW-846 Method 8021B or 8260B | 50 mg/kg     |  |  |  |
|  | Benzene  | EPA SW-846 Method 8021B or 8015M | 10 mg/kg     |  |  |  |
|  | Chloride   | EPA 300.0                        | 10,000 mg/kg |  |  |  |
| 51 feet-100 feet   | ТРН  | EPA SW-846 Method 418.1          | 2,500 mg/kg  |  |  |  |
| -  | GRO+DRO  | EPA SW-846 Method 8015M          | 1,000 mg/kg  |  |  |  |
| -  | BTEX   | EPA SW-846 Method 8021B or 8260B | 50 mg/kg     |  |  |  |
| -  | Benzene  | EPA SW-846 Method 8021B or 8015M | 10 mg/kg     |  |  |  |
|  | Chloride   | EPA 300.0                        | 20,000 mg/kg |  |  |  |
| > 100 feet   | TPH  | EPA SW-846 Method 418.1          | 2,500 mg/kg  |  |  |  |
|  | GRO+DRO  | EPA SW-846 Method 8015M          | 1,000 mg/kg  |  |  |  |
|  | BTEX   | EPA SW-846 Method 8021B or 8260B | 50 mg/kg     |  |  |  |
|  | Benzene  | EPA SW-846 Method 8021B or 8015M | 10 mg/kg     |  |  |  |

\*Or other test methods approved by the division

\*\*Numerical limits or natural background level, whichever is greater

(19.15.17.13 NMAC-Ro, 19.15.17.13 NMAC 3/28/2013)

- 8. If the Division District Office and/or HEC determine there is a release, HEC will comply with 19.15.17.13.C.3b.
- 9. Upon completion of the tank removal, pursuant to 19.15.17.13.C.3c, if all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, the excavation will be backfilled with non-waste containing earthen material compacted and covered with a minimum of one foot top soil, or background thickness of top soil, whichever is greater. The surface will then be re-contoured to match the native grade, prevent ponding of water, and prevent erosion of cover material.
- 10. For those portions of the former BGT area no longer required for production activities, HEC will seed the disturbed area in the first favorable growing season following the closure of the BGT. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division District Office approved methods. HEC will notify the Division District Office when reclamation and re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

- Established vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels.
- Total plant cover is at least 70% of pre-disturbance levels (Excluding noxious weeds) OR
- Pursuant to 19.15.17.13.H.5d HEC will comply with obligations imposed by other applicable federal or tribal agencies in which there re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment.

Revised 3/15/2016

11. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

#### **Closure Report:**

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division District Office Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner and Division District Office)
- Backfilling & cover installation
- Confirmation Sampling Analytical Results
- Application Rate & Seeding techniques
- Photo Documentation of Reclamation

Revised 3/15/2016

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

CONDITIONS

| Operator:              | OGRID:                                 |
|------------------------|--|
| HILCORP ENERGY COMPANY | 372171                                 |
| 1111 Travis Street     | Action Number:                         |
| Houston, TX 77002      | 174534                                 |
|                        | Action Type:                           |
|                        | [C-144] Below Grade Tank Plan (C-144B) |
|                        |  |

#### CONDITIONS

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