

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 October 11, 2022

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

Type of action: 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

Facility ID [fJZS2601450290]

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: PO Box 61229, Houston TX 77208

Facility or well name: San Juan 32-8 701 Multi-well pad

API Number: 30-045-38387 OCD Permit Number: FJZS2601450290

U/L or Qtr/Qtr N Section 27 Township 32 N Range 8 W County: San Juan County

Center of Proposed Design: Latitude 36°56'54.97"N Longitude 107°39'46.72"W NAD83

Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2.

Pit: Subsection F, G or J of 19.15.17.11 NMAC **Burial Trench**

Temporary: Drilling Workover

Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no

Lined Unlined Liner type: Thickness 20 mil LLDPE HDPE PVC Other _____

String-Reinforced

Liner Seams: Welded Factory Other _____ Volume: _____ bbl Dimensions: L 400 x W 40 x D 10

3.

Below-grade tank: Subsection I of 19.15.17.11 NMAC

Volume: _____ bbl Type of fluid: _____

Tank Construction material: _____

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: Thickness _____ mil HDPE PVC Other _____

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 (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify _____

6.

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

Screen Netting Other _____

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

7.

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

8.

Variances and Exceptions:
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.

9.

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

Yes No
 NA

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit .

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

Yes No
 NA

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)**

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

Yes No

Within the area overlying a subsurface mine. (Does not apply to below grade tanks)

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

Yes No

Within an unstable area. (Does not apply to below grade tanks)

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

Yes No

Within a 100-year floodplain. (Does not apply to below grade tanks)

- FEMA map

Yes No

Below Grade Tanks

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

Yes No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Yes No

Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)

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.)

- Topographic map; Visual inspection (certification) of the proposed site

Yes No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

Yes No

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

Yes No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Temporary Pit Non-low chloride drilling fluid	
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). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
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; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No

Permanent Pit or Multi-Well Fluid Management Pit

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). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
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. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 documents are attached.

Hydrogeologic 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 19.15.17.11 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 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

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 documents are attached.

Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 A List of wells with approved application for permit to drill associated with the pit.
 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
 Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

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 documents are attached.

- 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
- Liner Specifications and Compatibility Assessment - 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
- Nuisance or Hazardous Odors, including H₂S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

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 Fluid Management Pit
 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

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.

- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

- Yes No
- NA

Ground water is between 25-50 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

- Yes No
- NA

Ground water is more than 100 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

- 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

- Yes No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

- Yes No

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

- Yes No

Written confirmation or verification from the municipality; Written approval obtained from the municipality

- Yes No
- NA

Within 300 feet of a wetland.

US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

- Yes No

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.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

Yes No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

Yes No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

Yes No

Within a 100-year floodplain.

- FEMA map

Yes No

16.

On-Site 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.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Kathryn Kaufman Title: Env. Specialist

Signature: Kathy Date: 1/9/2026

e-mail address: kkaufman@ui1corp.com Telephone: 346-237-2275

18.

OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature: Joel Stone Approval Date: 01/14/2026

Title: Senior Environmental Scientist OCD Permit Number: FJZS2601450290

19.

Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

Closure Completion Date: _____

20.

Closure Method:

- Waste Excavation and Removal
- On-Site Closure Method
- Alternative Closure Method
- Waste Removal (Closed-loop systems only)

If different from approved plan, please explain.

21.

Closure Report Attachment Checklist: **Instructions:** *Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure for private land only)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: 1927 1983

22.

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: _____



C-144 PERMIT INFORMATION FOR A BURIAL TRENCH

Site:

**San Juan 32-8 701/702 Multi-Well Pad
Unit N, Section 27, Township 32 North, Range 8 West
San Juan County, New Mexico**

January 9, 2026

**Hilcorp Energy Company
PO Box 61229
Houston, Texas 77208**

Prepared by:

**Stuart Hyde
Senior Managing Geologist
Ensolum, LLC**

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- Appendix A: Site Plat Map
- Appendix B: Site Figures
- Appendix C: Depth to Water Documents
- Appendix D: Surface Use Plan of Operations

1.0 SITE DESCRIPTION

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), has prepared this permit packet to submit with Form C-144 to permit a burial trench at the San Juan 32-8 701/702 multi-well pad (Site). The Site is located in Unit N, Section 27, Township 32 North, Range 8 West, San Juan County, New Mexico. A plat of the well pad and burial trench location is provided in Appendix A. Only waste materials generated or used during the drilling, completion, or workover processes of the Site wells (listed below) will be placed in the Site burial trench. The cuttings will be managed through a closed-loop system and dried prior to placement into the trench.

Waste material from the following wells may be placed in the on-Site burial trench.

- San Juan 32-8 701 Federal Com #601H, API 30-045-38387
- San Juan 32-8 701 Federal Com #603H, API 30-045-38389
- San Juan 32-8 701 Federal Com #604H, API 30-045-38390
- San Juan 32-8 701 Federal Com #605H, API 30-045-38391
- San Juan 32-8 701 Federal Com #606H, API 30-045-38392
- San Juan 32-8 701 Federal Com #607H, API 30-045-38393
- San Juan 32-8 701 Federal Com #608H, API 30-045-38394
- San Juan 32-8 701 Federal Com #609H, API 30-045-38395
- San Juan 32-8 702 Federal Com #601H, API 30-045-38396
- San Juan 32-8 702 Federal Com #602H, API 30-045-38397
- San Juan 32-8 702 Federal Com #603H, API 30-045-38398
- San Juan 32-8 702 Federal Com #604H, API 30-045-38399
- San Juan 32-8 702 Federal Com #605H, API 30-045-38400
- San Juan 32-8 702 Federal Com #606H, API 30-045-38401
- San Juan 32-8 702 Federal Com #607H, API 30-045-38402
- San Juan 32-8 702 Federal Com #608H, API 30-045-38403
- San Juan 32-8 702 Federal Com #609H, API 30-045-38404

2.0 SITE CHARACTERIZATION

As part of the permit process, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 17, Section 10 (19.15.17.10) of the New Mexico Administrative Code (NMAC). Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and Site-specific observations. Visual inspection of the Site was also performed by Ensolum personnel on November 21, 2025, to certify no additional potential receptors are present within the specified radii around the proposed burial trench location. Figures supporting this Site characterization are provided in Appendix B. This information is further discussed below.

2.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is located on Tertiary (Eocene) age San Jose Formation and is underlain by the Nacimiento Geologic Formation. In the report titled “*Hydrogeology and Water Resources of San Juan Basin, New Mexico*” (Stone, et. al., 1983), the San Jose Formation is composed of interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about 2,700 feet. The hydrologic properties of the San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

2.2 DEPTH TO GROUNDWATER

Figure 2 in Appendix B presents interpreted groundwater elevation isocontours based on NMOSE permitted freshwater wells located near the Site. Based on the Site ground surface elevation of approximately 6,696 feet above mean seal level (AMSL), groundwater is greater than 100 feet below ground surface (bgs) beneath the Site. Additionally, cathodic well logs located on nearby natural gas production well pads also indicate groundwater is greater than 100 feet bgs in the vicinity of the Site. Well logs for nearby NMOSE-permitted freshwater wells and cathodic wells are attached as Appendix C.

2.3 CONTINUOUSLY FLOWING WATERCOURSE OR OTHER SIGNIFICANT WATERCOURSE, LAKEBED, SINKHOLE, OR PLAYA LAKE

Figure 3 in Appendix B presents nearby significant watercourses which are located north and south of the Site at distances greater than 100 feet. Figure 4 in Appendix B presents nearby lakebeds, sinkholes, and/or playa lakes which are located west and north of the Site at distances greater than 200 feet. These features were field verified by Ensolum personnel on November 21, 2025.

2.4 PERMANENT RESIDENCE, SCHOOL, HOSPITAL, INSTITUTION, OR CHURCH

Figure 5 in Appendix B presents nearby permanent residences, schools, hospitals, institutions, and/or churches to the Site. These structures are not located within 300 feet of the Site and were field verified by Ensolum personnel on November 21, 2025.

2.5 PRIVATE, DOMESTIC FRESHWATER WELL OR SPRING

Figure 6 in Appendix B presents the locations of private domestic and/or stock wells and springs located near the Site. The closest domestic fresh water well or spring used for domestic or stock watering purposes is located approximately 0.26 miles northwest of the Site (NMOSE permitted

well SJ-03823-POD1), as field verified by Ensolum personnel on November 21, 2025. Several points of diversion (PODs) associated with NMOSE permit SJ-04023 are located 850 to 1,600 feet west of the Site. These wells are permitted as monitoring wells and were installed to monitor for the presence of hydrogen sulfide and methane in the subsurface.

2.6 WETLANDS

Figure 7 in Appendix B presents the locations wetlands near the Site. The closest wetland is located approximately 650 feet north of the Site and was field verified by Ensolum personnel on November 21, 2025.

2.7 MUNICIPAL BOUNDARIES OR FRESHWATER FIELDS

Figure 8 in Appendix B presents the locations municipal boundaries and/or freshwater fields near the Site. The municipality and/or freshwater field is the City of Aztec at a distance greater than 5 miles southwest of the Site.

2.8 SUBSURFACE MINES

Figure 9 in Appendix B presents the locations of mines near the Site. The closest surface and/or subsurface mine is located greater than 5 miles west of the Site.

2.9 UNSTABLE AREAS

Figure 10 in Appendix B presents the locations unstable areas near the Site. Based on the definition of an unstable area in 19.15.2 NMAC, no unstable areas are present near the Site and was field verified by Ensolum personnel on November 21, 2025.

2.10 100-YEAR FLOODPLAIN

Figure 11 in Appendix B presents the FEMA National Flood Insurance Program Flood Insurance Rate Map (FIRM) for the area surrounding the Site. The closest 100-year floodplain is located approximately 1.1 miles southwest of the Site.

3.0 BURIAL TRENCH DESIGN AND CONSTRUCTION SPECIFICATIONS

The burial trench will be constructed on the permitted San Juan 32-8 multi-well pad. The trench will be lined with dimensions approximately 400 feet long by 40 feet wide by 10 feet deep. The bottom 6 feet of the trench will be used as capacity for placement of waste material. The top 4 feet will be reserved for backfill material once the trench is closed. The burial trench will be constructed in accordance with 19.15.17.11 NMAC and as described below.

- Hilcorp is the surface owner of the Site, as such, proof of notification to the surface owner is not necessary.
- A fence will be installed around the perimeter of the trench to prevent access when material is not being placed in the trench. The well pad will also be fenced for drilling operations.
- The Site has been prepped for well drilling and is smooth and flat. The trench will have a properly constructed foundation and side walls consisting of a firm, unyielding base, smooth and free of rocks, debris, sharp edges or irregularities to prevent the liner's rupture or tear.
- Hilcorp will provide the NMOCD 72-hour notification prior to installing the liner in order to allow NMOCD staff to inspect the liner foundation.
- Geotextile material will be installed under the liner where needed to reduce localized stress-strain or protuberances that may otherwise compromise the liner's integrity.
- The trench will be constructed with a geomembrane liner. The geomembrane will consist of a 20-mil string reinforced linear low-density polyethylene (LLDPE) liner. The geomembrane liner will be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts, and acidic and alkaline solutions. Liner compatibility will comply with United States Environmental Protection Agency (EPA) SW-846 Method 9090A.
- The liner installer will minimize liner seams and orient them up and down, not across, a slope. The liner installer will use factory welded seams where possible. Prior to field seaming, the operator will overlap liners 4 to 6 inches and orient liner seams parallel to the line of maximum slope, i.e.: oriented along, not across, the slope. Field seams will be minimized in corners and irregularly shaped areas. Only qualified personnel will perform field welding and testing.
- The liner installer will install sufficient liner material to reduce stress-strain on the liner.
- The liner installer will confirm the outer edges of all liners are secured for the deposit of the excavated waste material into the trench.

4.0 OPERATION AND CLOSURE PLAN

In accordance with 19.15.17.13 NMAC, the Site will be operated and closed in accordance with the following procedures.

4.1 CLOSURE CRITERIA FOR BURIAL TRENCHES

Based on the information presented in Section 2.0 and in accordance with the *Table II, Closure Criteria for Burial Trenches and Waste Left in Place in Temporary Pits* (19.15.17.13 NMAC), the following Closure Criteria for constituents of concern (COCs) should be applied to waste material buried at the Site:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- TPH as a combination of GRO and DRO: 1,000 mg/kg
- Chloride: 80,000 mg/kg

4.2 BURIAL TRENCH OPERATIONAL REQUIREMENTS

The following closure procedures will be followed:

- Prior to closure, Hilcorp will remove any free liquids from the trench that may have accumulated due to precipitation events. The liquids will be disposed at an NMOCD-approved facility.
- Only waste materials generated or used during the drilling, completion, or workover processes of the Site wells (listed above) will be placed in the Site burial trench.
- Prior to transferring waste material into the burial trench, Hilcorp will stabilize or solidify the waste contents to a capacity sufficient to support the final cover of the burial trench. Hilcorp will mix the waste with soil or other material at a mixing ratio no greater than three to one (3:1), soil or other material to contents. The waste mixture must pass the paint filter liquids test (EPA SW-846, Method 9095 or other test methods approved by the division).
- Prior to placing waste material into the burial trench, Hilcorp will collect, at a minimum, one five point composite sample of the contents of the waste material to demonstrate that, after the waste material is solidified or stabilized with soil or other non-waste material at a ratio of no more than 3:1 soil or other non-waste material to waste, the concentration of any contaminant in the stabilized waste is not higher than the parameters listed in Table II of 19.15.17.13 NMAC and presented in Section 4.1 above. If, after appropriate stabilization, the concentrations of all contaminants waste material are less than or equal to the parameters listed in Table II, Hilcorp will proceed to dispose of wastes in the burial trench.
- If the concentration of any contaminant in the contents, after mixing with soil or non-waste material to a maximum ratio of 3:1, is higher than constituent concentrations shown in Table II, then waste material will be disposed at an off-Site facility approved by the NMOCD.

4.3 BURIAL TRENCH CLOSURE REQUIREMENTS AND PROCEDURES

After transferring the stabilized waste material to the Site burial trench, the operator will follow the procedures outlined below.

- Hilcorp will notify the appropriate division district office verbally and in writing at least 72 hours, but not more than one week, prior to final closure of the burial trench. The notice will include the operator's name and the location to be closed by unit letter, section, township and range. The notice will also include the well's name, number, and API number.
- Upon closure, the outer edges of the trench liner will be folded to overlap the waste material in the trench prior to the installation of the geomembrane cover.
- A geomembrane cover will be installed over the waste material in the lined trench. The operator will install the geomembrane cover in a manner that prevents the collection of infiltration water in the lined trench area and on the geomembrane cover after the soil cover is in place. The geomembrane cover will consist of a 20-mil string reinforced LLDPE liner and will be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions with compatibility that complies with EPA SW-846 Method 9090A.
- After the cover is installed, the trench will be backfilled with 4 feet of non-waste containing, uncontaminated, earthen materials up to ground surface.
- Because the burial trench is located on private land, Hilcorp will file a deed notice with the San Juan County Clerk identifying the exact location of the on-Site burial.

4.4 CLOSURE REPORTING AND BURIAL IDENTIFICATION:

- Within 60 days of closure completion, the Hilcorp will submit a closure report on form C-144, with necessary attachments to document all closure activities including sampling results, information required by 19.15.17 NMAC, and details on backfilling, capping and covering, where applicable. In the closure report, Hilcorp will certify all information in the report and attachments is correct and that they have complied with all applicable closure requirements and conditions specified in the approved closure plan.
- Because Hilcorp is conducting on-Site burial, they will report the exact location of the burial trench on a Form C-105 to be filed with the NMOCD.
- Hilcorp will place a steel marker at the center of an on-Site burial trench. Because the burial trench will be located within the active well-pad boundary, a flush-mount steel marker will be used to identify the location of the burial trench until final reclamation activities are conducted in the area of the burial trench. The flush mount steel marker will be cemented in a 3-foot deep hole at a minimum and will be large enough in diameter to identify the burial trench as specified below. Once the burial trench area has undergone final reclamation, the flush mount marker will be replaced with a steel marker at least 4 inches in diameter. The final steel marker will extend at least 4 feet above mean ground level and at least 3 feet below ground level. On both markers, the operator's name, lease name, well number, and location (including unit letter, section, township, and range), as well as a statement that the marker designates an on-Site burial location, shall be welded, stamped, or otherwise permanently engraved into the metal of the steel marker.

- Hilcorp will not build permanent structures over the burial trench without the appropriate NMOCD district office's written approval. Hilcorp will also not remove the marker without the division's written permission.

5.0 RECLAMATION PLAN

The Site burial trench will be located entirely within the well-pad disturbance area being utilized for the drilling, completion, and operation of the wells listed in Section 1.0. Based on the *Surface Use Plan of Operations* (SUPO) prepared for Hilcorp by EIS and dated August 2024, the burial trench will be located in the cut area of the well pad and within the 14.46-acre disturbance area. As such, and allowed by 19.15.17.13.H(1)(c) NMAC, the burial trench will be backfilled, compacted, and maintained as part of the active well pad in such a way to minimize dust and erosion to the extent practicable until the well pad is reclaimed.

Additionally, reclamation activities for the burial trench will follow the SUPO and associated surface reclamation plan presented within the SUPO as Appendix D, as allowed by 19.15.17.13.H(5)(d) NMAC.

6.0 VARIANCE REQUEST

As stated in Section 4.4 above, the burial trench will be located within the active well-pad boundary for the foreseeable future. As such, Hilcorp is requesting a variance to the requirement set forth in 19.15.17.13.F(3) NMAC that requires a steel marker be installed at least four feet above mean ground level at the time of closure. Hilcorp proposes to place a flush-mounted steel marker at the center of the on-Site burial trench until final reclamation activities are conducted in the area of the burial trench. The flush mount steel marker will be cemented in a 3-foot deep hole at a minimum and will be large enough in diameter to identify the burial trench as specified below.

As required by 19.15.17.13.F(3) NMAC, once the burial trench area has undergone final reclamation, the flush mount marker will be replaced with a steel marker at least 4 inches in diameter. The final steel marker will extend at least 4 feet above mean ground level and at least 3 feet below ground level. On both markers, the operator's name, lease name, well number, and location (including unit letter, section, township, and range), as well as a statement that the marker designates an on-Site burial location, shall be welded, stamped, or otherwise permanently engraved into the metal of the steel marker.

Because the burial trench will be located on an active well pad, an aboveground steel marker would hinder ongoing operations and vehicle/equipment movement on the well pad. An aboveground marker could also pose a human-health risk if an operator were to strike the marker with a vehicle or equipment operating on the Site. As such, this variance request provides equal protection to fresh water and the environment and better protection of public health by removing a potential hazard from the Site.

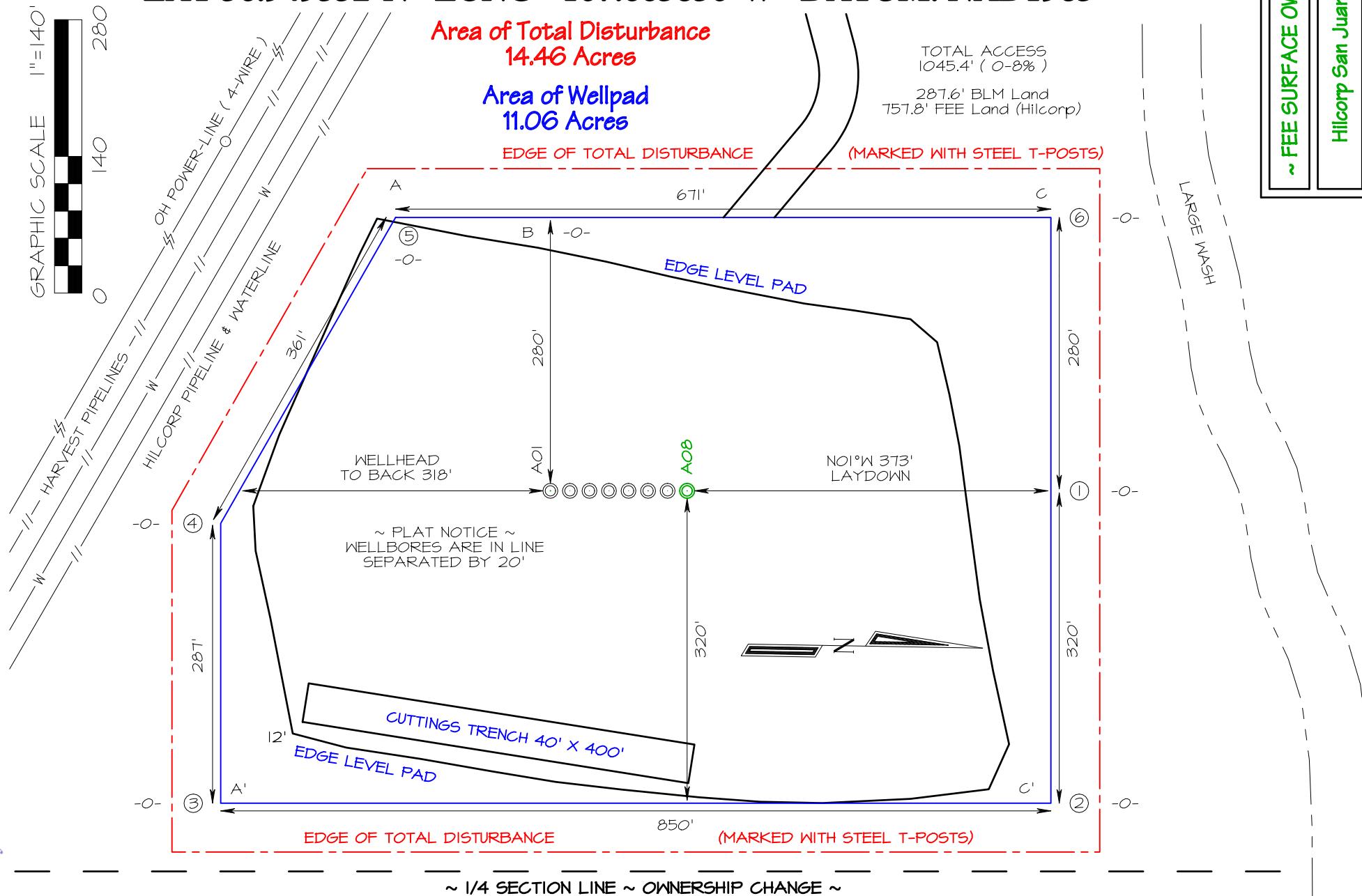


APPENDIX A

Site Plat Map

**HILCORP ENERGY SAN JUAN 32 8 701 FEDERAL COM #602H
696' FSL & 2199' FWL, SECTION 27, T32N, R8W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6703'
LAT 36.949352°N LONG -107.663830°W DATUM: NAD1983**

A graphic scale bar consisting of a vertical line with a black segment at the top and a white segment at the bottom. Below this is a black and white checkered pattern. The text "GRAPHIC SCALE" is written vertically to the left of the bar, and "1' = 140'" and "280'" are written vertically to the right of the bar.

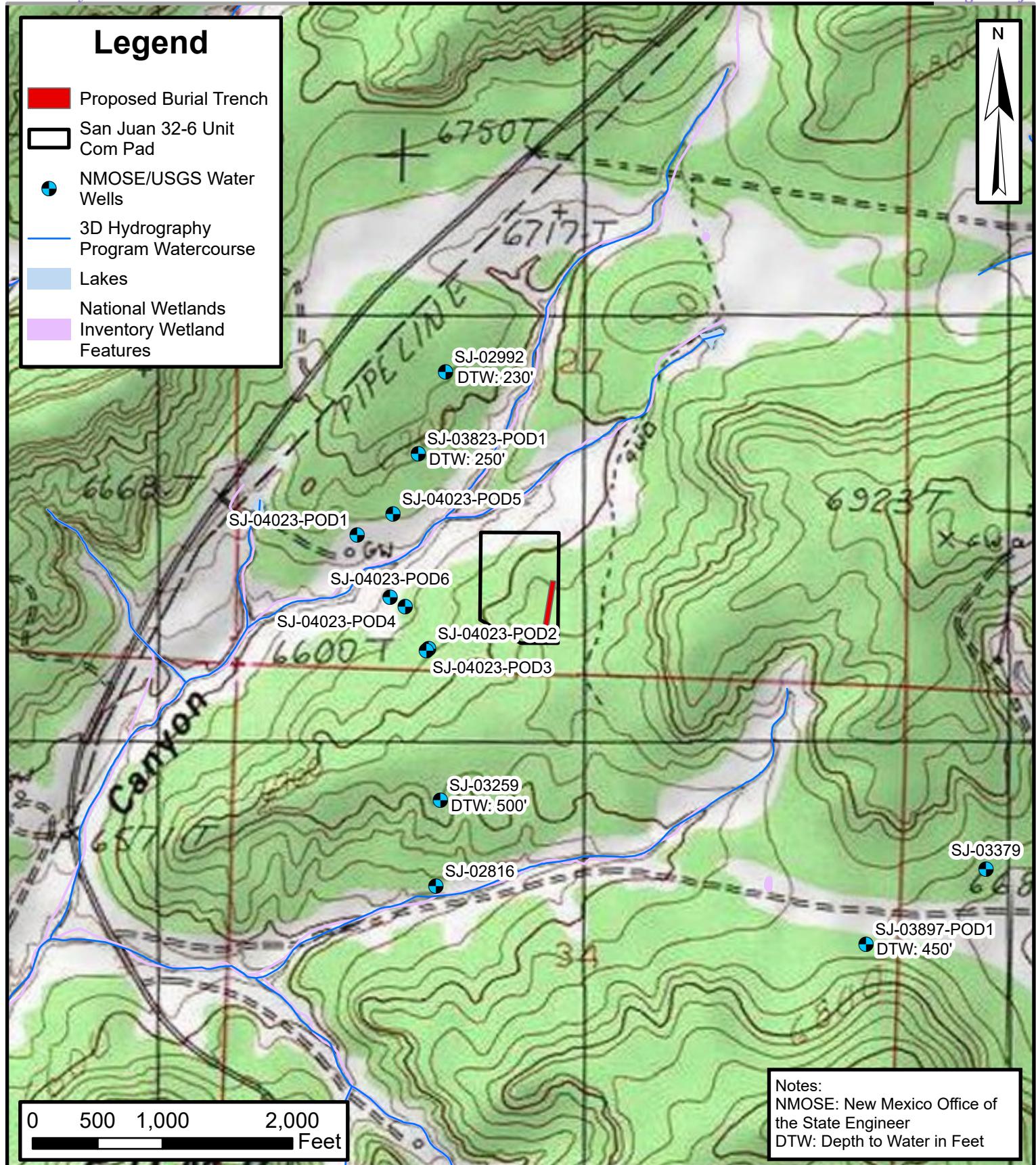


Steel T-Posts have been set to define the Edge of Disturbance limits which are 50' offset from the edge of the staked wellpad.



APPENDIX B

Site Figures



Site Location Map

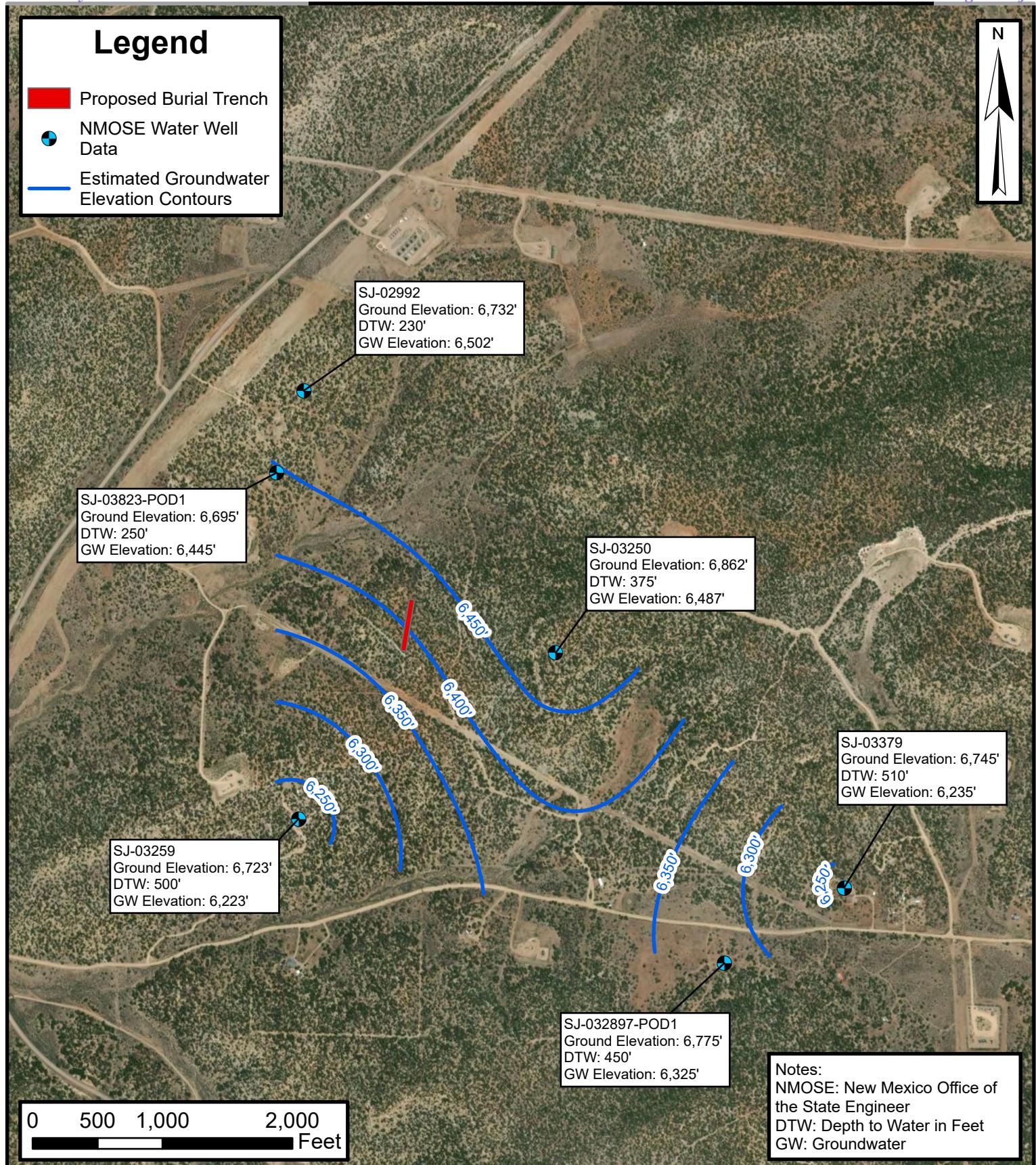
San Juan 32-8 Unit Com Pad Burial Trench
 Hilcorp Energy Company

36.94860, -107.66298
 San Juan County, New Mexico



Environmental, Engineering and
 Hydrogeologic Consultants

FIGURE
 1



Local Groundwater Hydrogeology

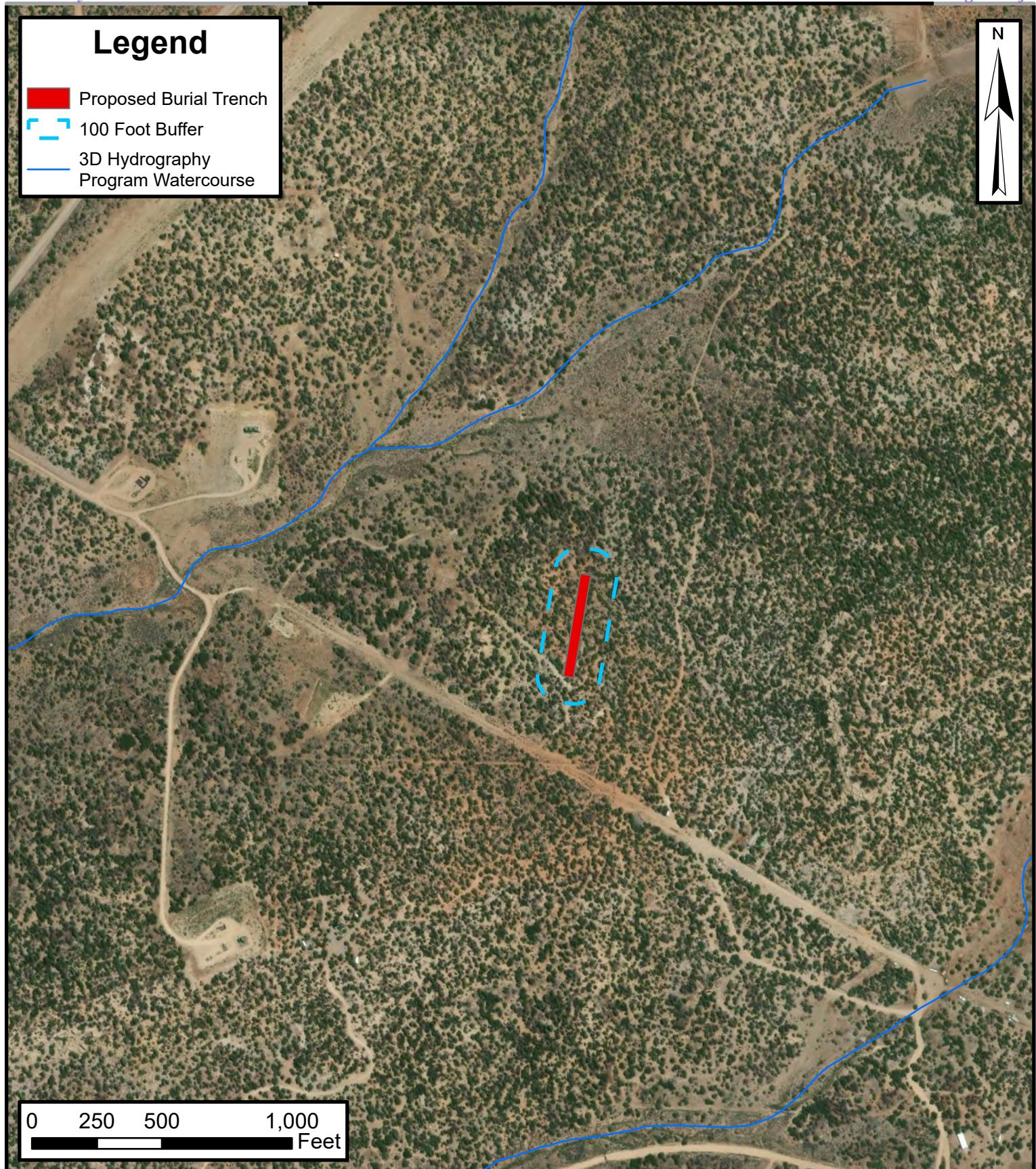
San Juan 32-8 Unit Com Pad Burial Trench
Hilcorp Energy Company

36.94860, -107.66298
San Juan County, New Mexico



Environmental, Engineering and
Hydrogeologic Consultants

FIGURE
2



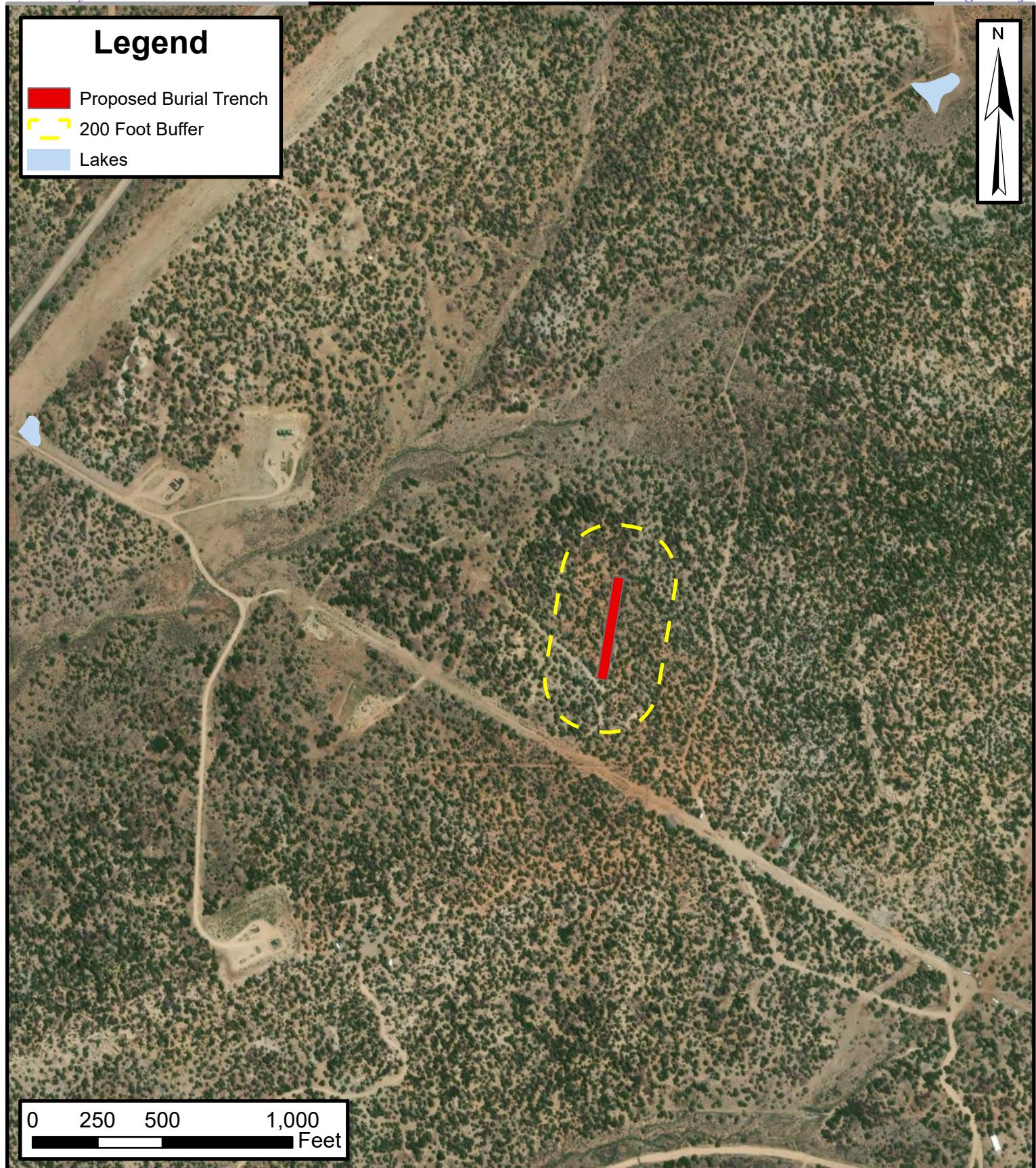
Environmental, Engineering and
Hydrogeologic Consultants

Significant Watercourses

San Juan 32-8 Unit Com Pad Burial Trench
Hilcorp Energy Company

36.94860, -107.66298
San Juan County, New Mexico

**FIGURE
3**



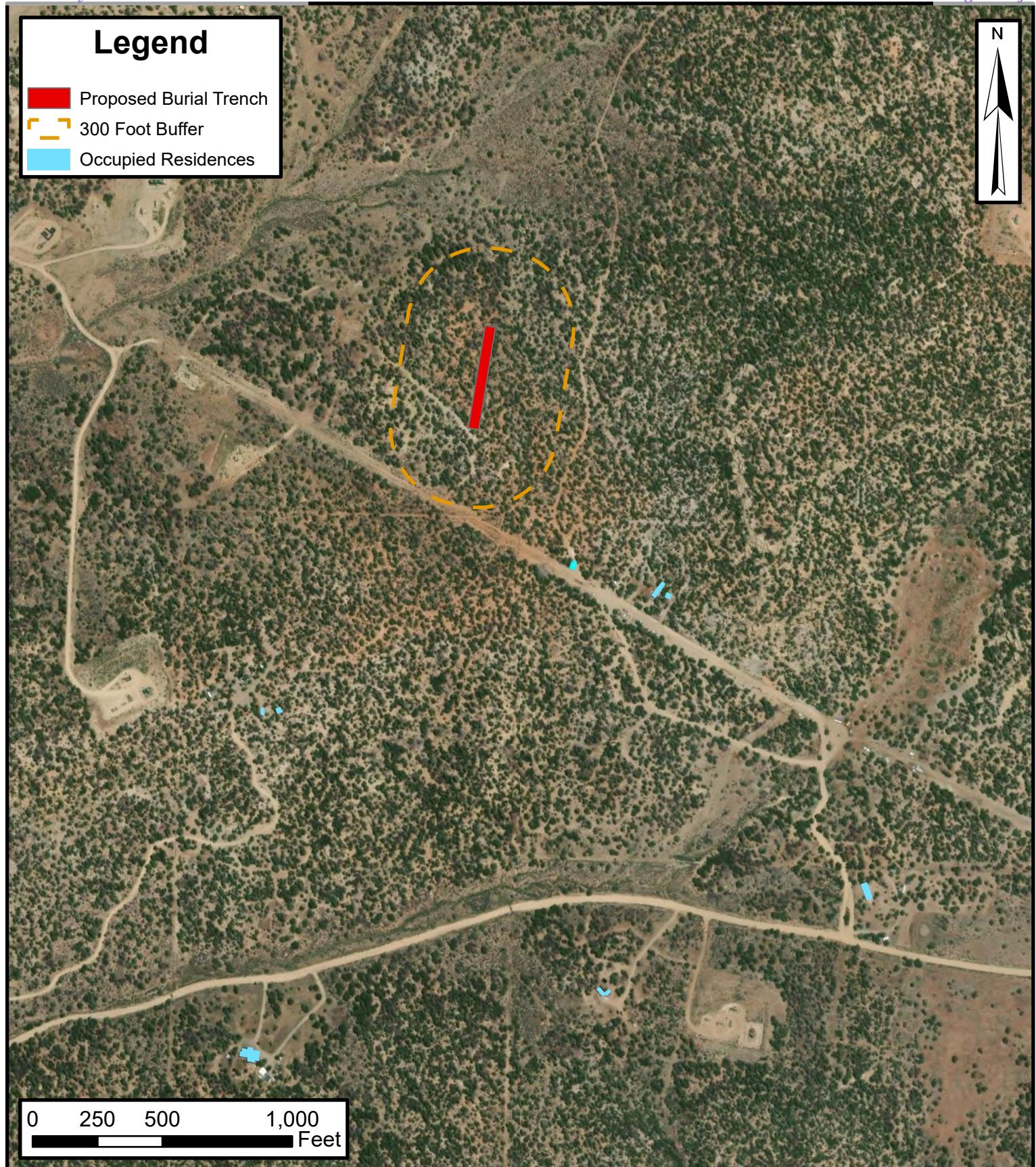
Environmental, Engineering and
Hydrogeologic Consultants

Distance to Lakebeds, Sinkholes, & Playa Lakes

San Juan 32-8 Unit Com Pad Burial Trench
Hilcorp Energy Company

36.94860, -107.66298
San Juan County, New Mexico

FIGURE
4



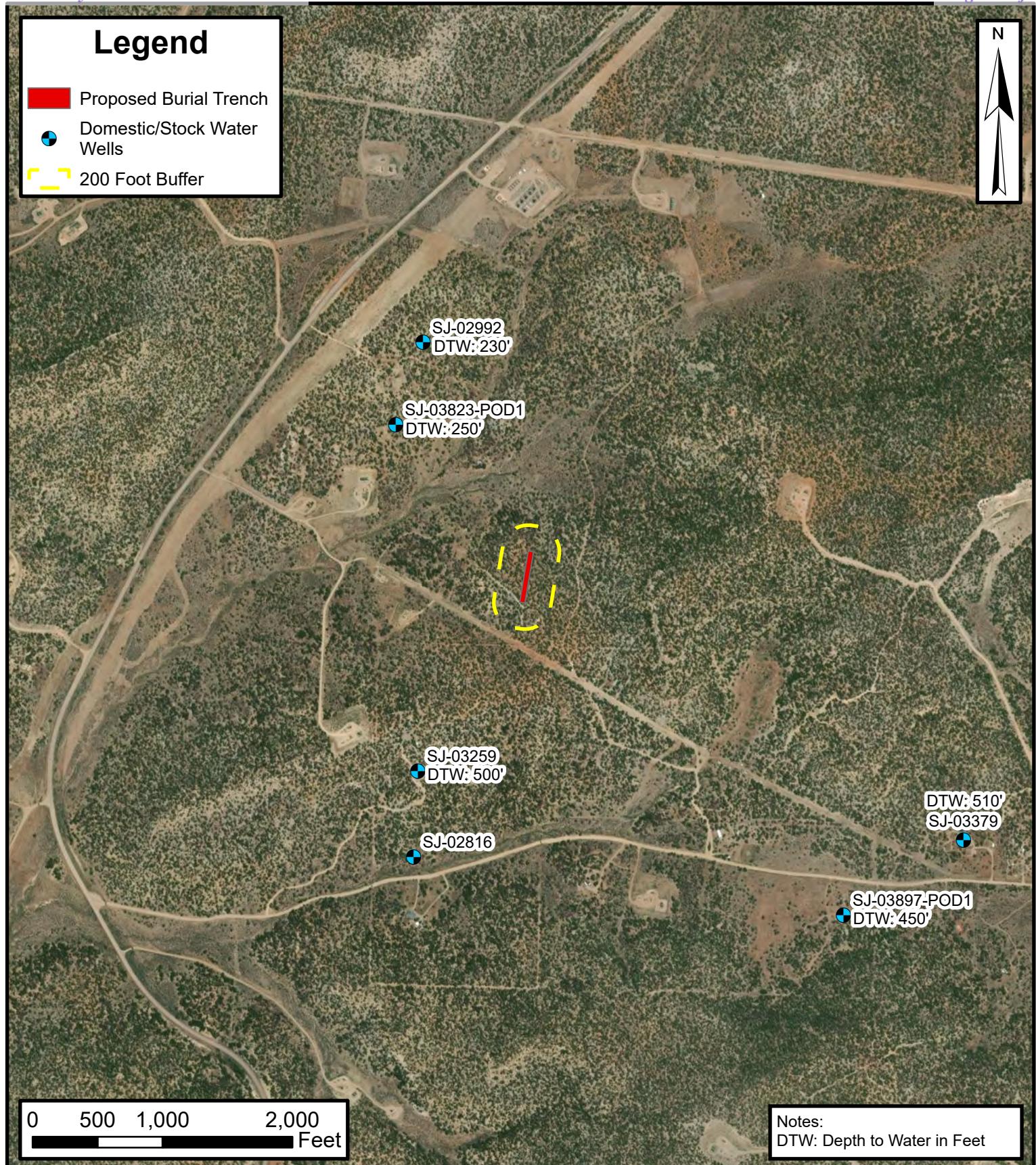
Environmental, Engineering and
Hydrogeologic Consultants

Distance to Residences, Schools, Hospitals, Institutions & Churches

San Juan 32-8 Unit Com Pad Burial Trench
Hilcorp Energy Company

36.94860, -107.66298
San Juan County, New Mexico

**FIGURE
5**

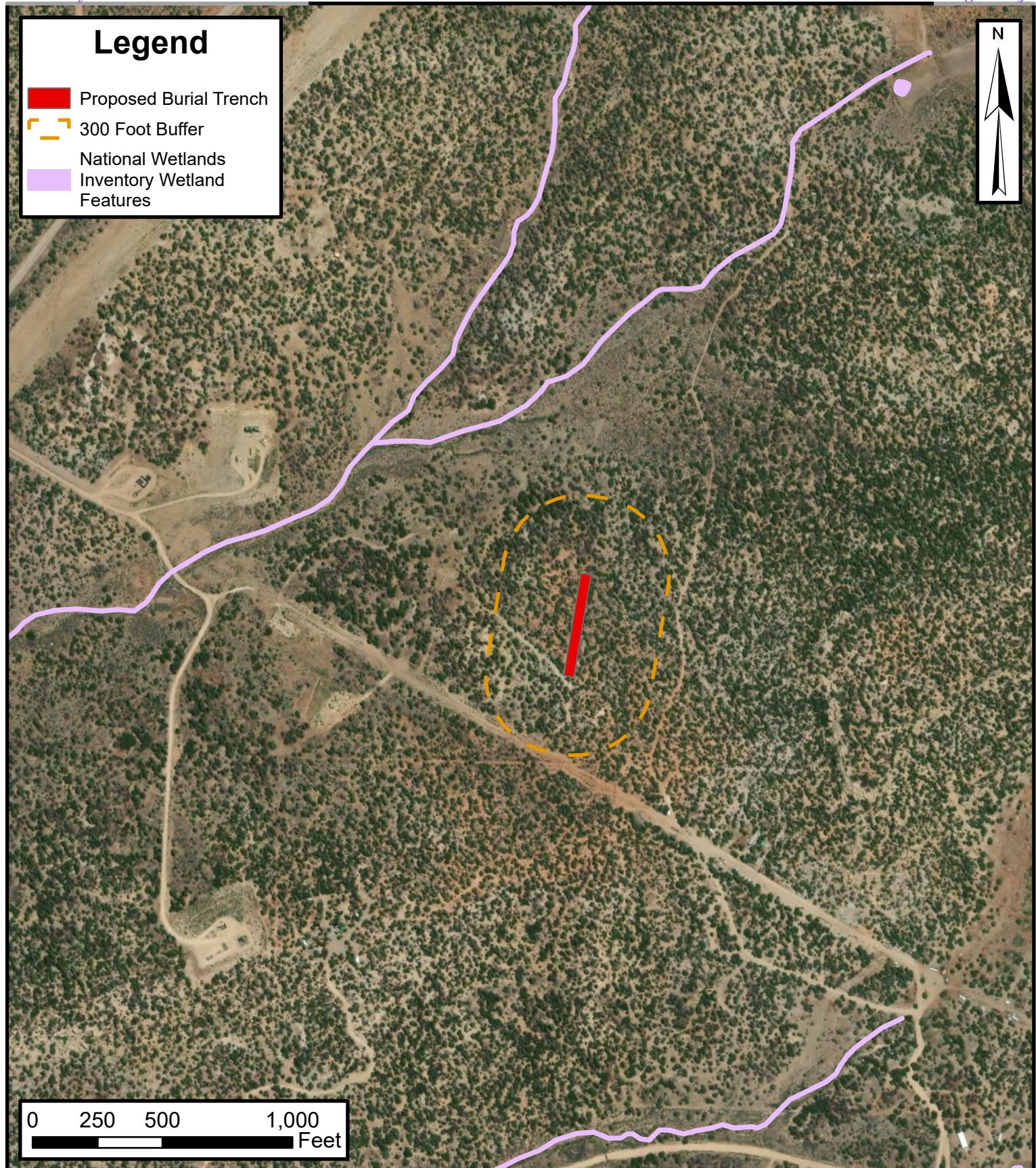


Distance to Domestic and Stock Water Wells

San Juan 32-8 Unit Com Pad Burial Trench
Hilcorp Energy Company

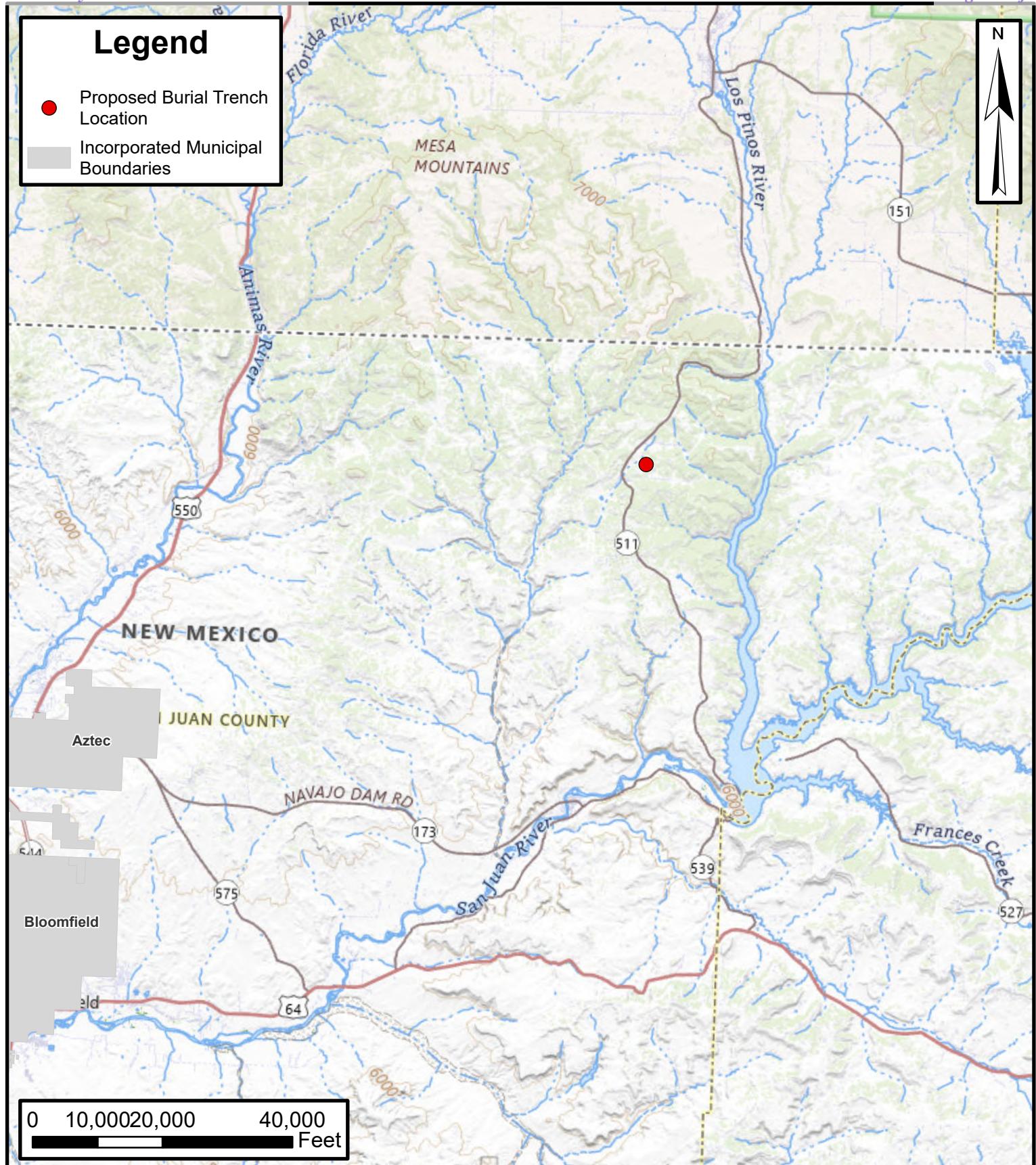
36.94860, -107.66298
San Juan County, New Mexico

FIGURE
6



Distance to Wetlands
San Juan 32-8 Unit Com Pad Burial Trench
Hilcorp Energy Company
36.94860, -107.66298
San Juan County, New Mexico

FIGURE
7



Distance to Incorporated Municipal Boundaries

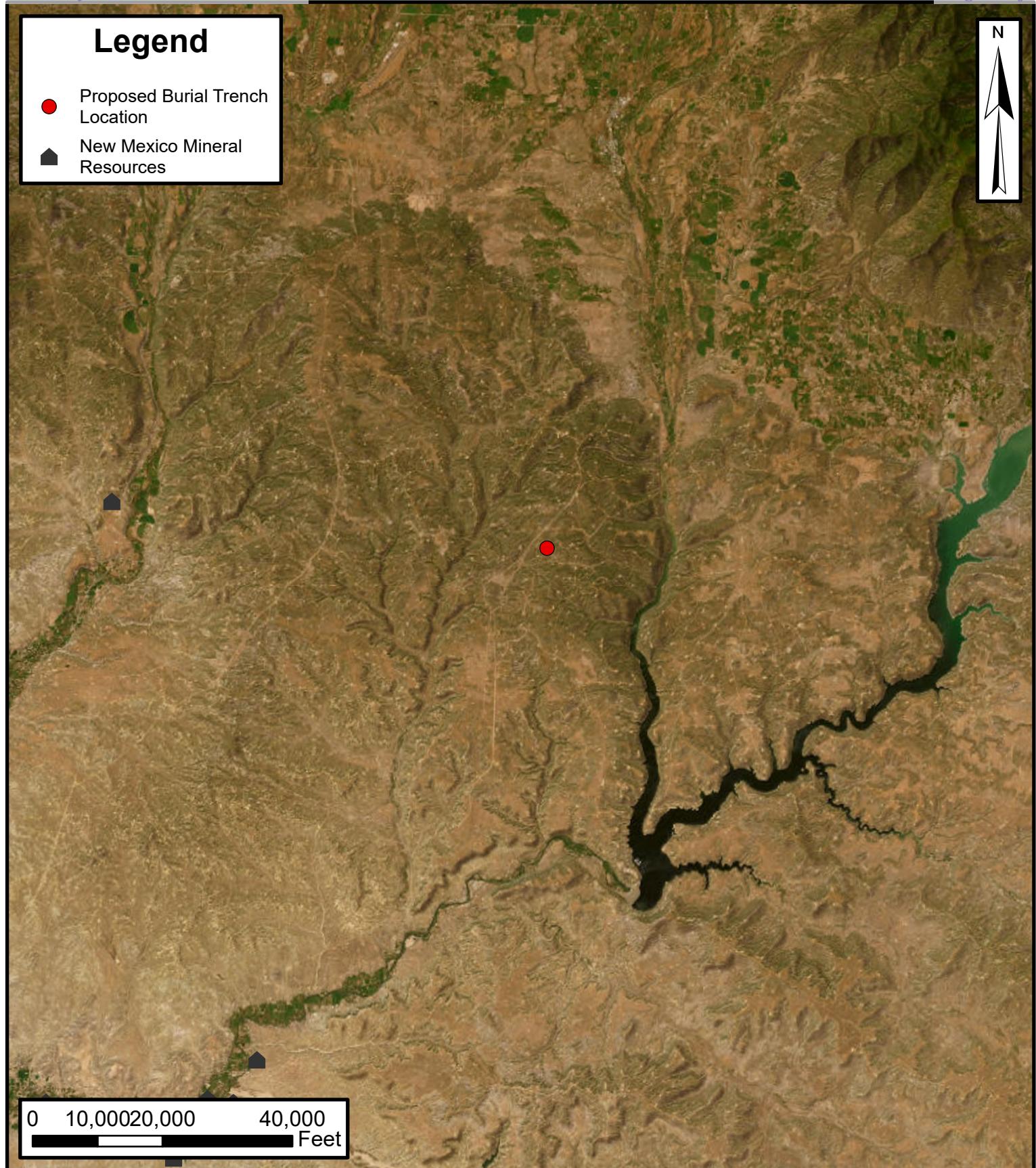
San Juan 32-8 Unit Com Pad Burial Trench
Hilcorp Energy Company

36.94860, -107.66298
San Juan County, New Mexico



Environmental, Engineering and
Hydrogeologic Consultants

FIGURE
8



Environmental, Engineering and
Hydrogeologic Consultants

Distance to Mines

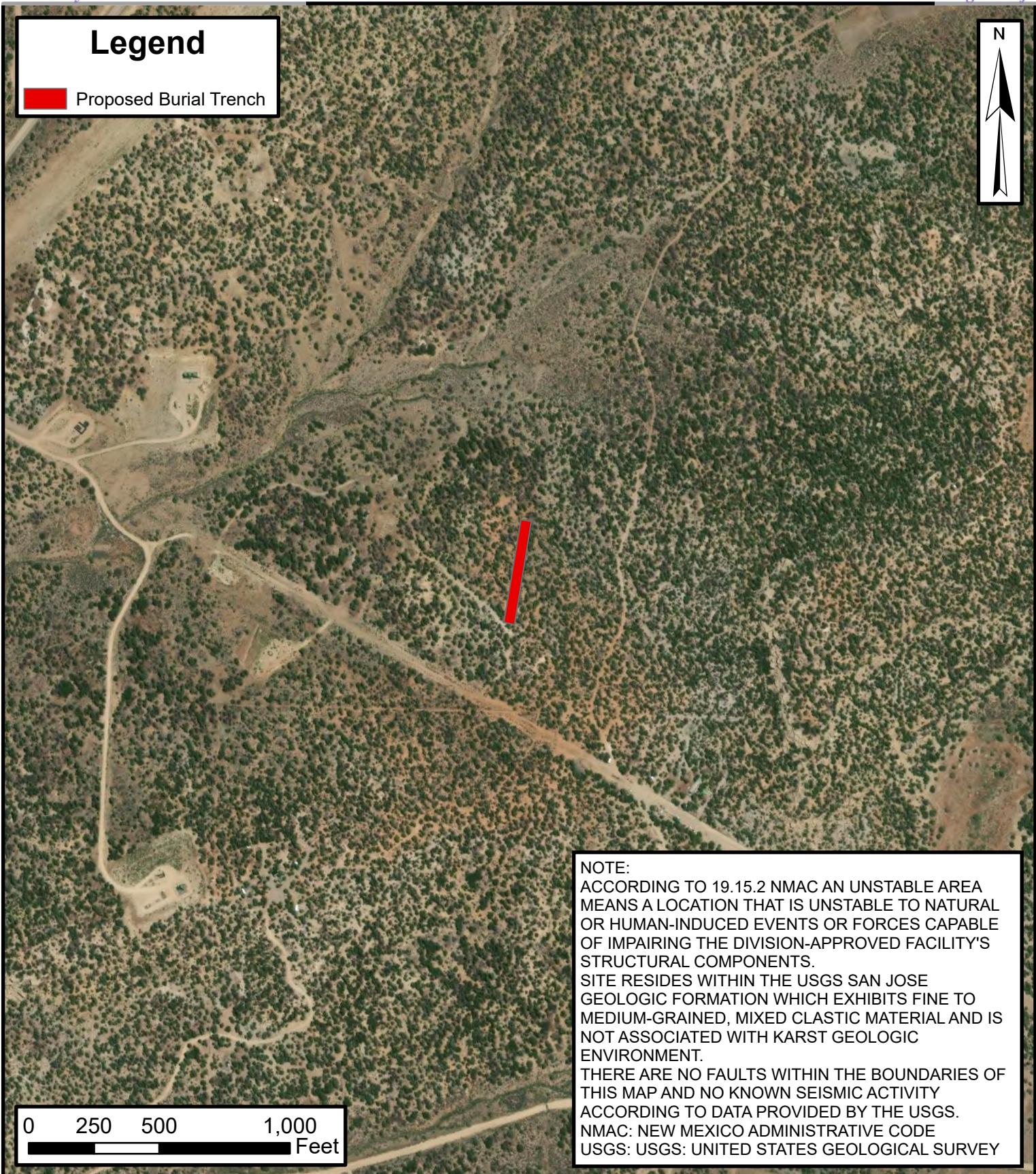
San Juan 32-8 Unit Com Pad Burial Trench
Hilcorp Energy Company

36.94860, -107.66298
San Juan County, New Mexico

**FIGURE
9**

Legend

 Proposed Burial Trench



Environmental, Engineering and
Hydrogeologic Consultants

Proximity to Unstable Area

San Juan 32-8 Unit Com Pad Burial Trench
Hilcorp Energy Company

36.94860, -107.66298
San Juan County, New Mexico

FIGURE
10



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP
FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99
	Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee See Notes Zone X
LINK> </CLR> for official maps and additional	Area with Flood Risk due to Levee Zone D
OTHER AREAS OF FLOOD HAZARD	NO SCREEN Area of Minimal Flood Hazard Zone X
	Effective LOMRs
OTHER AREAS	Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
OTHER FEATURES	20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation 8 Coastal Transect --- Coastal Transect Baseline --- Profile Baseline --- Hydrographic Feature ~~~ 513 ~~~ Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-338-2627) or visit the FEMA Flood Map Service Center website at <https://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6262.

Basemap information shown on this FIRM was provided in digital format by USDA, Farm Service Agency (FSA). This information was derived from NAIP, dated April 11, 2018.

This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 11/21/2025 6:42 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at <https://www.fema.gov/media-library/assets/documents/18418>

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date.

SCALE

Map Projection:
GCS, Geodetic Reference System 1980;
Vertical Datum: No elevation features on this FIRM

For information about the specific vertical datum for elevation features, datum conversions, or vertical monuments used to create this map, please see the Flood Insurance Study (FIS) Report for your community at <https://msc.fema.gov>

1 inch = 2,000 feet
1:24,000
0 1,000 2,000 4,000 6,000 8,000
Feet
0 210 420 840 1,260 1,680
Meters

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PANEL 450 of 2750



Panel Contains:
COMMUNITY
SAN JUAN COUNTY
SOUTHERN UTE
INDIAN TRIBE

NUMBER
080THR
PANEL
0450

MAP NUMBER
35045C0450F
EFFECTIVE DATE
August 05, 2010



APPENDIX C

Depth to Water Documents



PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SJ 03250

Well owner: James Good Phone No.:

Mailing address: 1448 NM HWY 511 #2

City: Navajo City State: New Mexico Zip code: 87419

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: WDC Exploration & Wells
- 2) New Mexico Well Driller License No.: WD1210 Expiration Date: 12/31/2013
- 3) Well plugging activities were supervised by the following well driller(s) /rig supervisor(s): Christopher Thornburg
- 4) Date well plugging began: 06/10/2012 Date well plugging concluded: 06/11/2012
- 5) GPS Well Location: Latitude: 36 deg, 56 min, 52.27 sec
 Longitude: 107 deg, 39 min, 58.28 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 415' ft below ground level (bgl),
by the following manner: Manual Tagger Tape
- 7) Static water level measured at initiation of plugging: 374.6 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 06/08/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe
differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

2012 JUN 18 AM 10:47
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

55-3250

#238611

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

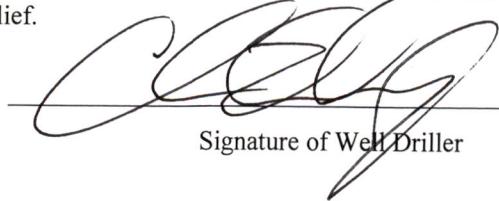
<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)									
0'-2'	Concrete Ready Mix Plug 96% Portland Cement 4% Bentonite Powder To 2' BGS	788.39 Gallons	782.939 Gallons	Geo Loop Grouting Pump With 1" x 415' Tremie	The theoretical volume is based on the annulus having no gravel pack. Even though this is an unlikely scenario, the OSE well record does not indicate gravel pack. The pipe displacement is also considered into the calculation.									
100'														
200'														
300'														
340'					1' lengths of Perforations alternating in 5' intervals 180 degrees side to side stopped at 200' due to cement in the annulus of the casing									
400'														
415'	96%Portland Cement & 4%Bentonite Powder Slurry To 415' BGS			Geo Loop Grouting Pump With 1" x 415' Tremie	340' Top of Screen									
		<table border="1"> <tr> <td>MULTIPLY</td> <td>BY</td> <td>AND OBTAIN</td> </tr> <tr> <td>cubic feet</td> <td>x</td> <td>7.4805 = gallons</td> </tr> <tr> <td>cubic yards</td> <td>x</td> <td>201.97 = gallons</td> </tr> </table>				MULTIPLY	BY	AND OBTAIN	cubic feet	x	7.4805 = gallons	cubic yards	x	201.97 = gallons
MULTIPLY	BY	AND OBTAIN												
cubic feet	x	7.4805 = gallons												
cubic yards	x	201.97 = gallons												
					400' Bottom of Screen 400' to 415' Sump									

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

2012 JUN 18 AM 10:47

III. SIGNATURE:

I, CHRISTOPHER THORNBERG, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.



Signature of Well Driller

6/13/12
Date

2012 JUN 18 AM 10:47
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

Revised: June 1977

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well James C. Good Owner's Well No. SJ 3250
 Street or Post Office Address 1448 NM Hwy 511 #2
 City and State Navajo Dam, NM 87419

Well was drilled under Permit No. SJ 3250 and is located in the:

a. SE 1/4 SW 1/4 SE 1/4 1/4 of Section 27 Township 32N Range 8W N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in San Juan County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Mark Bailey - Bailey Drilling Co. License No. WD-1357

Address 4203 Terrace Dr. Farmington, NM 87402

Drilling Began 8-28-02 Completed 9-5-02 Type tools rotary air Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 400 ft.

Completed well is shallow artesian. Depth to water upon completion of well 375 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
375	390	15	Sand Stone	3

Section 3. RECORD OF CASING

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)			Perforations	
From	To						From	To
5							4	
							360	400
							37	38

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement	
From	To				From	To

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____
 State Engineer Representative _____

Depth in Feet		Cubic Feet of Cement	
From	To		
1			
2			
3			
4			

Date Received 9-19-02

FOR USE OF STATE ENGINEER ONLY

File No. SJ-3250

Quad _____ FWL _____ FSL _____
 Use Dom Location No. 32N. 8W. 27.434

SECTION 6. FUNCTIONS

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Mark Bailey
Dallas

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when a canal is closed, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.
- H & I See side margins.

H & I See side margins.

SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a \$5.00 filing fee to the State Engineer. A separate application must be filed for each well to be drilled or re-drilled.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

Applications for appropriation, well records and requests for information in the following basins should be addressed to the State Engineer at the location indicated.

Office of the State Engineer
121 Tijeras, NE., Suite 2000
Albuquerque, NM 87102-3400

Capitan, Carlsbad, Curry County, Fort Sumner, Mendo, Jai, Lea County, Peñasco, Portales, Roswell, Tucumcari and Upper Pecos Basin District No. 2, 1900 West Second Street, Roswell, NM 88201

Animes, Gila-San Joaquin, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon and Virden Valley Basins
District No. 3, P.O. Box 844, Deming, NM 88031

**Lower Rio Grande, Tularosa, Hueco, Las Animas Creek and Hot Springs Basins
District No. 4, 133 Wyatt Drive, Suite 3, Las Cruces, NM 88001**

Canadian River Basin
State Engineer Office, P.O. Box 25102, Santa Fe, NM 87504-5102

San Juan Basin
State Engineer Office
100 S. Oliver
Aztec, NM 87410

The amount and uses of water permitted under this Application are subject to such limitations as may be imposed by the courts or by lawful municipal and county ordinances which are more restrictive than applicable State Engineer Regulations and the conditions of this permit.

1

OSE FILE NUMBER

For OSE Use Only

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD and DRILLING LOG

1. PERMIT HOLDER(S)

Name: Lynn Robbins
 Address: 1448 Highway 511 #25
 City: Navajo Dam
 State: NM Zip: 87419
 Phone: _____
 Contact: _____
 Contact Phone: _____

Name: _____
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone: _____

2. STATE ENGINEER REFERENCE NUMBERS:File # SJ 3823, Well # _____**3. LOCATION OF WELL (The Datum Is Assumed To Be WGS 84 Unless Otherwise Specified)**

Latitude: N36 Deg 57 Min 003 Sec
 Longitude: W107 Deg 40 Min 659 Sec
 (Enter Lat/Long To At Least 1/10th Of A Second)

Datum If Not WGS 84: _____

4. DRILLING CONTRACTOR

License Number: WD 1357
 Name: Bailey Drilling Company Work Phone: 505-334-6631

Drill Rig Serial Number: 2HSCNASR1YCD58064

List The Name Of Each Drill Rig Supervisor That Managed On-Site Operations During The Drilling Process:

Mark Bailey**5. DRILLING RECORD**Drilling Began: 4-10-08; Completed: 4-23-08; Drilling Method rotary air;Diameter Of Bore Hole: 7 7/8 (in);Total Depth Of Well: 380 (ft);Completed Well Is (Circle One): Shallow Artesian;Depth To Water First Encountered: 260 (ft);Depth To Water Upon Completion Of Well: 250 (ft).

Do Not Write Below This Line

TRN Number: 405289
Form: wr-20 May 07File Number: SJ - 03823
 STATE ENGINEER OFFICE
 AZTEC, NEW MEXICO

2009 MAY - 9 AM 11:56

OSE FILE NUMBER

For OSE Use Only

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD and DRILLING LOG**

6. RECORD OF CASING

7. RECORD OF MUDDING AND CEMENTING

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

200 MAY - 9 AM 11:56

Do Not Write Below This Line

Trn Number:

Form: wr-20 May 07

OSE FILE NUMBER

For OSE Use Only

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD**

8. LOG OF HOLE. For Each Water Bearing Strata, Estimate The Yield Of The Formation In Gallons Per Minute.

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

Enter Method Used To Estimate Yield: _____

Do Not Write Below This Line

Trn Number: _____
Form wr-20 May 07

File Number:

OSE FILE NUMBER

For OSE Use Only

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD**

9. ADDITIONAL STATEMENTS OR EXPLANATIONS:

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

2008 MAY -9 AM 11:56

The undersigned hereby certifies that, to the best of his or her knowledge and belief, the foregoing is a true and correct record of the above described bore hole. The undersigned further certifies that he or she will file this well record with the Office Of The State Engineer and permit holder within 20 days after completion of the well drilling.

mark Bailey

5-7-08
(mm/dd/year)

Do Not Write Below This Line

Trn Number: _____
Form wr-20 May 07

File Number:

page 4 of 4

Revised June 1973

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Dewayne Albin Owner's Well No. SJ-3259
 Street or Post Office Address 3921 Highland View
 City and State Farmington, NM 87401

Well was drilled under Permit No. SJ-3259 and is located in the:

a. SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ $\frac{1}{4}$ of Section 34 Township 32N Range 8W N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in Rio Arriba County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Mark Bailey - Bailey Drilling Co. License No. WD 1357

Address 4203 Terrace Dr., Farmington, NM 87402

Drilling Began 9-6-02 Completed 9-13-02 Type tools rotary air Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 550 ft.

Completed well is shallow artesian. Depth to water upon completion of well 500 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
520	530	10	Sand Stone	1
				0.2
				0.3
				0.4
				0.5

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5			0	550	550		510	550

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement	STATE ENGINEER'S OFFICE	
					From	To

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____
 State Engineer Representative _____

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

Date Received 9-19-02

FOR USE OF STATE ENGINEER ONLY

Quad _____ FWL _____ FSL _____
 File No. SJ-3259 Use Dam Location No. 32N. 8W. 34. 123

Section 6. Line of control

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Mark Bailey
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT

DATA SHEET: NORTHWESTERN NEW MEXICO

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

OPERATOR: ConocoPhillips CO.
FARMINGTON, NM 87401
PHONE: 599-3400

LOCATION INFORMATION**API Number**

30-045-31671

WELL NAME OR PIPELINE SERVED: 32-8 253A **LEGAL LOCATION:** P 27 32 8 **INSTALLATION DATE:** 11/17/2003

PPCO. RECTIFIER NO.: FM-812 **ADDITIONAL WELLS:** NA

TYPE OF LEASE: FEDERAL **LEASE NUMBER:** SF-080412A

GROUND BED INFORMATION

TOTAL DEPTH: 320 **CASING DIAMETER:** 8-IN **TYPE OF CASING:** PVC **CASING DEPTH:** 20 **CASING CEMENTED:**

TOP ANODE DEPTH: 165 **BOTTOM ANODE DEPTH:** 285

ANODE DEPTHS: 165,175,185,195,205,215,225,235,255,285

AMOUNT OF COKE: 2800 LBS

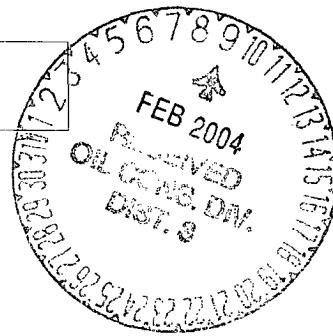
WATER INFORMATION

WATER DEPTH (1): 120 **WATER DEPTH (2):**

GAS DEPTH: **CEMENT PLUGS:**

OTHER INFORMATION

TOP OF VENT PERFORATIONS: 145 **VENT PIPE DEPTH:** 320

REMARKS: 

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Thursday, Februar

Page 10 of 850

DATA SHEET FOR DEEP BED CATHODIC PROTECTION WELLS
 NORTHWESTERN NEW MEXICO
 (SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

30-30-045-11217

202-30-045-27562

PPCO DESIGNATION: FM-473

OPERATOR: PHILLIPS PETROLEUM COMPANY
 FARMINGTON, N.M. 87401
 (505) 599-3400

LOCATION: M 27 32 8
 LEASE NUMBER: 650117

NAME OF WELL/S OR PIPELINE SERVED: (1) SJ 32-8 UNIT #30 MV
 (2) SJ 32-8 #202

ELEVATION: NA

COMPLETION DATE: 09/07/84

TOTAL DEPTH: 500 FT.

LAND: FEDERAL

CASING INFO.; SIZE: NAA IN. TYPE: NA
 DEPTH: NA FT. CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE

PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) NA (2) NA
 WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE
 COKE AMOUNT: 3725 LBS.

DEPTHS ANODES PLACED (FT):

350, 380, 390, 400, 415, 425, 435, 445, 455, 465

DEPTH VENT PIPE PLACED (FT): 500

VENT PIPE PERFORATIONS (FT): TOP 340 BOTTOM 500

REMARKS: -0-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & 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.

NA-INFORMATION NOT AVAILABLE

CC: CP FILE--FARMINGTON
 HOUSTON

RECEIVED
 FEB 21 1992

OIL CON. DIV.
 DIST. 3

OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT
DATA SHEET: NORTHWESTERN NEW MEXICO

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

OPERATOR: ConocoPhillips CO.
 FARMINGTON, NM 87401
 PHONE: 599-3400

LOCATION INFORMATION

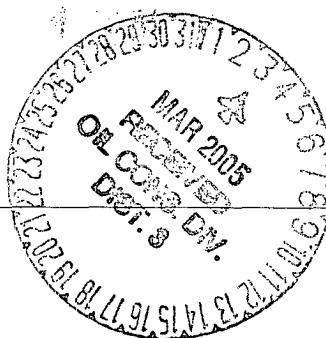
API Number

3004531869

WELL NAME OR PIPELINE SERVED:	32- 204A	LEGAL LOCATION:	34-32-8	INSTALLATION DATE:	3/22/2004
PPCO. RECTIFIER NO.:	FM-833	ADDITIONAL WELLS:			
TYPE OF LEASE:	FEDERAL	LEASE NUMBER:	NMSF079381		

GROUND BED INFORMATION

TOTAL DEPTH:	300	CASING DIAMETER:	8-IN	TYPE OF CASING:	PVC	CASING DEPTH:	20'	CASING CEMENTED:	<input type="checkbox"/>
TOP ANODE DEPTH:	205	BOTTOM ANODE DEPTH:		295					
ANODE DEPTHS: 205,215,25,235,245,255,265,275,285,295									
AMOUNT OF COKE:	2300#								

**WATER INFORMATION**

WATER DEPTH (1):	120	WATER DEPTH (2):	
GAS DEPTH:		CEMENT PLUGS:	

OTHER INFORMATION

TOP OF VENT PERFORATIONS:	120	VENT PIPE DEPTH:	300
---------------------------	-----	------------------	-----

REMARKS: RECT. STARTED ON 10-25-04

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.



APPENDIX D

Surface Use Plan of Operations

Hilcorp Energy Company's Surface Use Plan of Operations

San Juan 32 8 701 Federal Com #601H, #602H, #603H, #604H, #605H, #606H, #607H, #608H, #609H San Juan 32 8 702 Federal Com #601H, #602H, #603H, #604H, #605H, #606H, #607H, #608H, #609H and Two Future Natural Gas Well Project

August 2024



Hilcorp Energy Company
1111 Travis Street
Houston, Texas 77002
Phone: (713) 209-2400

Developed by:



479 Wolverine Drive #9180
Bayfield, Colorado 81122
Phone: (970) 884-4080

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Surface Use Plan of Operations

Pursuant to Onshore Oil and Gas Order No. 1 (43 CFR 3160), this Surface Use Plan of Operations (SUP) has been prepared for Hilcorp Energy Company's (Hilcorp) proposed San Juan 32 8 701 Federal Com #601H, #602H, #603H, #604H, #605H, #606H, #607H, #608H, #609H; and San Juan 32 8 702 Federal Com #601H, #602H, #603H, #604H, #605H, #606H, #607H, #608H, #609H, and Two Future Natural Gas Well Project (San Juan 32 8 701/702 Project) Applications for Permit to Drill (APD). This SUP has been written in accordance with Onshore Oil and Gas Order No. 1.

Infrastructure proposed to be constructed, operated, subsequently interim reclaimed, and eventually fully reclaimed as part of the San Juan 32 8 701/702 Project entails a well pad with production facilities and construction buffer zone, access road, temporary lay flat waterline, and booster pads. The aforementioned proposed infrastructure associated with the San Juan 32 8 701/702 Project would be located on fee lands. The remaining portion of the project located off-lease would all be temporary facilities installed within existing disturbance and permitted under a Grant of Right of Way (ROW). A total of 20 wells are planned to be drilled from the one proposed well pad. All 20 wells would be horizontally drilled, possibly produced, and eventually plugged and abandoned from the proposed well pad location. The proposed wells would access Federal minerals within Hilcorp's San Juan 32-8 Federal Unit.

1) EXISTING ROADS

- A. The project area would be located in northwest New Mexico; specifically, in the northeast portion of San Juan County, New Mexico:
 - From the intersection of US Hwy 550 & State Hwy 173 in Aztec, NM, travel Easterly on State Hwy 173 for 1.0 miles to fork in roadway:
 - Go Left (Easterly) remaining on State Hwy 173 for 17.0 miles to T-intersection;
 - Go Left (North-Easterly) exiting State Hwy 173 onto State Hwy 511 for 17.7 miles to existing roadway on right-hand side of State Hwy 511 @ Mile Marker 25.8;
 - Go Right (South-Easterly) exiting State Hwy 511 along existing roadway for 0.3 miles to new access on left-hand side which continues for 1045.4' to Hilcorp San Juan 32 8 701/702 Federal Com 603H proposed wellhead.
- B. For existing County Roads or roads that are considered collector roads, Hilcorp would defer to the county or to the BLM Roads Committee, when formed, for maintenance determinations.
- C. Roads would be maintained to the same or better condition as they existed prior to the commencement of operations. Maintenance would continue until final abandonment and reclamation of the well location (See Appendix B).
- D. Best management practices (BMPs) for dust abatement and erosion control would be utilized along the roads to reduce fugitive dust for the life of the project. Water application using a rear-spraying truck or other suitable means would be the primary method of dust suppression along the roads. Any additional erosion-control practices would be included in the conditions of approval (COAs) attached to the approved APD. See Hilcorp's Dust Mitigation Plan for further details.
- E. No routine maintenance activities would be performed during periods when the soil is too wet to adequately support construction equipment. If equipment creates ruts deeper than 6 inches, the soil would be deemed too wet for construction or maintenance.
- F. Road crossing of the temporary freshwater line will be done by laying the waterline on the road and constructing a ramp over the pipeline to accommodate traffic.

2) NEW OR RECONSTRUCTED ACCESS ROAD(S)

- A. Hilcorp would construct one access road as part of the San Juan 32 8 701/702 Project. The well pad access road would be a 1,045.4-foot road to access the well pad (well pad access road). An upgraded portion of the existing road as it crosses culvert will be needed. The proposed access road is shown on the construction plats in Appendix C.
- B. The proposed access road would be classified as a BLM resource road, as was designated at the project onsite, and would be designed and constructed in accordance with the BLM Gold Book: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development and BLM Manual 9113, Sections 1 and 2.
- C. Maximum width would be a 30-foot overall ROW with a 14-foot road running surface. During drilling and subsequent operations, all equipment and vehicles would be confined to the 14-foot driving surface.
- D. The maximum road grade would be no greater than eight percent, unless specified by the BLM.
- E. Topsoil removal, storage, and protection are described in detail in the Surface Reclamation Plan.
- F. No construction or routine maintenance activities would be performed during periods when the soil is too wet to adequately support construction equipment. If equipment creates ruts deeper than six (6") inches, the soil would be deemed too wet for construction or maintenance.
- G. Hilcorp will be responsible for road maintenance from the beginning of construction to completion of operations when the well is plugged and abandoned. See attached Road Maintenance Plan (Appendix B).
- H. BMPs for dust abatement and erosion control will be utilized along the road to reduce fugitive dust for the life of the project. Water application using a rear-spraying truck or other suitable means will be the primary method of dust suppression along the road. See Hilcorp's Dust Mitigation Plan for further details.

3) LOCATION OF EXISTING WELLS

Water wells and oil and gas wells (plugged and abandoned, active, and proposed) within a 1-mile radius of the proposed San Juan 32 8 701/702 Project area are depicted in Appendix F. There are no water wells and 19 oil and gas wells (plugged and abandoned, active, or proposed) within a 1-mile radius of the proposed well pad location.

4) LOCATION OF EXISTING OR PROPOSED PRODUCTION FACILITIES

A. Pipelines

- 1 To accommodate gathering and transportation of produced federal gas minerals from Hilcorp's proposed San Juan 32 8 701/702 Project, Harvest Midstream will be constructing, installing, and maintaining a well-connect pipeline with associated above ground appurtenances and cathodic protection from the proposed San Juan 32 8 701/702

Surface Use Plan of Operations

well pad to their existing infrastructure where the pipeline would tie-in for a total length of 4,681.83' with two associated TUA areas. This pipeline ROW will be located only on fee land.

B. Production Facilities

- 1 Hilcorp elects to defer providing the BLM with the well layout of production equipment per Onshore Order I Section VIII. Hilcorp will provide the well layout of production equipment Notice of Intent (NOI) once the Post Completion Facility set onsite has been conducted with the BLM's Environmental Protection Staff.
- 2 Any production equipment encompassed by a dirt berm or one in which fluids are present shall be adequately fenced and properly maintained to safeguard both livestock and wildlife.
- 3 Facilities would be painted Juniper Green, as designated during the project onsite, to blend with the natural color of the landscape surrounding the well pad. Where necessary, contrasting safety paint would be used to highlight areas that may be potentially hazardous.

5) LOCATIONS AND TYPES OF WATER SUPPLY

The San Juan 32 8 Unit 701/702 natural gas wells would be horizontally drilled, and completion would include well stimulation (hydraulic fracturing). Water for drilling and completion operations has been obtained from a written agreement between Hilcorp and the Jicarilla Apache Indian Tribe to purchase fresh water out of Navajo Reservoir under their existing water rights. Hilcorp will obtain a license agreement with the BOR for access at an existing point of diversion for the lake take out point near NAD 1983 decimal degrees Latitude 36.873088 and Longitude 107.527971.

Fresh water to be used for completion activities would be stored in 2 aboveground Poseidon tanks. The Poseidon tanks would be 190 ft. in diameter and would have a 20-foot buffer around each to accommodate for a construction/working area. Hilcorp will protect wildlife from entering the tanks by approved BLM or NMOCD means.

- Hilcorp Energy will be responsible for visual inspection of the water storage area and any tanks. Visual inspection of the storage area will occur continuously during operation
- Two primary methods of leak detection will be as follows:
 - Visual inspection of the tanks by Hilcorp personnel during operation of the storage area
 - Leak Detection will be installed in accordance with the requirements set forth for regulated freshwater storage in temporary above ground structures

To transport water to the location for drilling and completion, Hilcorp will construct, install, operate, and monitor a 58,045.5-foot temporary surface pipeline system to deliver water from the Burnt Mesa lay flat line to location. This pipeline will be placed within existing or proposed ROW corridors of 40 feet in width. The surface waterline transportation system would include the following infrastructure grouped by surface owner. Additionally, please see Appendix C for temporary surface waterline plats (water transportation route) and booster station drawings respectively.

Surface Use Plan of Operations

- Fee- Infrastructure proposed to be constructed on fee property will be located within existing pipeline ROW corridors with open pipe slots available requiring no additional ROW. All construction, maintenance, and operation activities will be in accordance with the existing SUAs in place between fee owner and Hilcorp.
 - Valley View Ranch LLC: 2,590.6 feet of temporary 12-inch lay flat hose.
 - Tazz Construction INC: 1,993.9 feet of temporary 12-inch lay flat hose.
 - Thomas D Smith: 1,486.9 feet of temporary 12-inch lay flat hose.
 - Denise Richards: 647.2 feet of temporary 12-inch lay flat hose.
 - Kelly McCoy: 309.8 feet of temporary 12-inch lay flat hose.
 - Kathleen Howell: 913.7 feet of temporary 12-inch lay flat hose and 30' x 90' temporary booster station.
 - Bernard Emershaw: 656.2 feet of temporary 12-inch lay flat hose.
 - Alfred Cordova: 656.1 feet of temporary 12-inch lay flat hose.
 - James Erbes: 656.0 feet of temporary 12-inch lay flat hose.
 - Harvest: 658.0 feet of temporary 12-inch lay flat hose.
 - Thomas Jenkins: 1,748.1 feet of temporary 12-inch lay flat hose.
 - Hilcorp: 754.4 feet of temporary 12-inch lay flat hose.
- BLM- Infrastructure proposed to be constructed on BLM lands off-lease will be permitted by via ROW applied for in concert with the application for permit to drill (APD). All construction, maintenance, and operation activities will be in accordance with the stipulations set forth in the ROW Grant stipulations. The following infrastructure is located off-lease on BLM managed lands requiring temporary ROW:
 - 43,103.0 feet of temporary 12-inch lay flat waterline.
 - Temporary Booster Station - 30' x 90'
 - Temporary Suction Header – 30' x 90'
 - Temporary Discharge Header – 30' x 90'
- BOR – Infrastructure proposed is a surface lay-flat pipeline will be installed in the ditch of an existing road for 1,861.6' and will continue past the BOR boundary until it is manifolded to existing subsurface pipelines outside of the BOR managed lands on the east side of the Pine River. The existing subsurface pipelines eventually enter into BOR managed lands. Fresh water will flow through the existing subsurface pipelines for 2,222.3' and to a manifold location outside of BOR lands on the west side of the pine river. No new surface disturbance is required on BOR managed lands for the existing subsurface pipelines or the surface lay-flat line.

Surface Use Plan of Operations

Surface Lay-Flat Line:

- Zyfire polyester filament, 12" OD, 0.205" wall thickness. Burst pressure of 450 PSI, Hilcorp intends to operate the line below 175 psi.

Existing Lines:

- Line 1: X-42 Steel, 6.625" OD, 0.188" wall thickness. The wall thickness increases to 0.250" for 450' on each side of the centerline of the Pine River. Rated for 740 psi and pressure tested to 750 psi. Hilcorp intends to operate the line below 300 psi.
- Line 2: X-42 Steel, 10.750" OD, 0.188 wall thickness. The wall thickness increases to 0.250" for 450' on each side of the centerline of the Pine River. Rated for 740 psi and pressure tested to 750 psi. Hilcorp intends to operate the line below 300 psi.

Fresh water from Navajo Reservoir will provide the primary source of water for drilling and completion operations. However, produced water from Hilcorp's existing wells in the surrounding area may also be utilized for drilling operations. In addition to the fresh water obtained from Navajo Reservoir, and as needed, fresh water may also be purchased from the list of fresh water sources below.

- A. Water would be trucked from these sources to the proposed location (See Appendix G – Water Route Maps)
 - Ignacio Water Shed - northwest 1/4 of Section 20 Township 33 North, Range 7 West, Permit Number (SJ-206)
 - Self-water hole- northeast 1/4 Section 7 Township 32 North, Range 6 West, Permit Number (SD 02964 2A)
 - Faverino water hole- northwest 1/4 of Section 7 Township 32 North, Range 6 West, Permit Number (SJ-17)
 - Aztec water shed- southeast 1/4 of Section 3 Township 30 North, Range 11 West, Permit Number (SJ-55)
 - Basin disposal- northwest 1/4 of Section 3 Township 29 North, Range 11 West, Permit Number (SJ-26)
- B. Sources for produced water may come from the list below and would be piped through Hilcorp's existing waterline infrastructure and the proposed waterline associated with this project to the proposed location.
 - Middle Mesa 1 SWD- API 30-045-27004, operated by Hilcorp Energy Company, located in the Southwest 1/4 of the Northeast 1/4 Section 25, Township 32 North, Range 7 West.
 - San Juan 32-8 Unit 303 SWD- API 30-045-28703- operated by Hilcorp Energy Company, located in the Southwest 1/4 of the Southeast 1/4 Section 14, Township 31 North, Range 8 West.
 - SJ 32-8 253 Water Transfer Station- operated by Hilcorp Energy Company- Northeast 1/4 of the Southwest 1/4 Section 27, Township 32 North, Range 8 West.

Hilcorp will report the water source(s) used during drilling operations on the subsequent drilling reports and report the water sources used during completion on the subsequent completion reports.

6) CONSTRUCTION MATERIALS

- A. The construction phase of the project would commence upon receipt of the approved APD. The Bureau of Land Management – Farmington Field Office BLM-FFO would be notified (505-564-7600) at least 48 hours prior to the start of construction activities associated with the project. All project activities would be confined to permitted areas only.
- B. All surface infrastructure would be constructed utilizing native borrow within the permitted area to create a balanced working surface. If the need for surfacing material arises, it will be obtained from a permitted location approved by the surface managing agency.
- C. Any additional fill dirt that would be used during construction for the berms around production tanks and for the padding for pipe as well as the gravel to use on the berms and around production facilities will come from one of the companies listed below. The construction material that will be brought in could be sandstone or 3/4-inch rock or 3/4-inch road base and clean fill dirt.
 - BLM Trail Canyon sandstone pit
 - Sky Ute Sand and Gravel
 - Four Corners Materials
 - Mesa Sand and Gravel
 - Crossfire Aggregate Services
 - Elam Construction
 - La Boca Gravel Pit
 - Other Permitted BLM Sandstone Pits for Road Surface Material
- D. Vegetation within the disturbance area, including trees that measure less than 3-6 inches in diameter (at ground level) and slash/brush, would be chipped or mulched and incorporated into the topsoil as additional organic matter. All trees 3-6 inches in diameter or greater (at ground level) would be cut at ground level and de-limbed. Tree trunks (left whole) and cut limbs would be donated. The subsurface portion of trees (tree stumps) would be buried in the fill slope or disposed of appropriately.
- E. Construction equipment may include chain saws, a bush hog, scraper, maintainer, excavator, hydraulic mulcher, chippers, and dozer.
- F. Construction and maintenance activities would cease if soil or road surfaces become saturated to the extent that construction equipment is unable to stay within the project area and/or when activities cause irreparable harm to roads, soils, or streams.

7) METHODS FOR HANDLING WASTE

The San Juan 32 8 701/702 Project and all horizontal natural gas wells will be drilled, and waste handled, in the same manner. Methods are outlined below.

Surface Use Plan of Operations

A. Cuttings

- 1 Drilling operations would utilize a closed-loop system. Drilling of the horizontal lateral would be accomplished with water-based mud. All cuttings would be placed in roll-off bins and hauled to a commercial disposal facility or land farm. Hilcorp would follow Onshore Oil and Gas Order No. 1 regarding the placement, operation, and removal of closed-loop systems. No blow pit would be used.
- 2 Closed-loop tanks would be adequately sized for containment of all fluids.

B. Drilling Fluids

- 1 Drilling fluids would be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids would be recycled and transferred to other permitted closed-loop systems or disposed of at one of the locations specified below in part G.

C. Spills

- 1 Any spills of non-freshwater fluids would be immediately cleaned up and removed to an approved disposal site.

D. Sewage

- 1 Portable toilets would be provided and maintained as needed during construction.

E. Garbage and other waste material

- 1 All garbage and trash would be placed in an enclosed metal trash containment. The trash and garbage would be hauled off site and dumped in an approved landfill, as needed.

F. Hazardous Waste

- 1 No chemicals subject to reporting under Superfund Amendments and Reauthorization Act Title III in an amount equal to or greater than 10,000 pounds would be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
- 2 No extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities would be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
- 3 All fluids (i.e., scrubber cleaners) used during washing of production equipment would be properly disposed of to avoid ground contamination or hazard to livestock or wildlife.

G. Produced Water:

- 1 Hilcorp would dispose of produced water from the San Juan 32 8 701/702 Project wells at the following facility:
 - San Juan 32-8 Unit 303 SWD, API 30-045-28703, operated by Hilcorp Energy Company, located in the Southwest 1/4 of the Southeast 1/4 Section 14, Township 31 North, Range 8 West.

Surface Use Plan of Operations

2 Produced water would be transported through Hilcorp's existing waterline infrastructure. Some produced water may also be used in future drilling and completion operations as an alternative disposal method.

8) ANCILLARY FACILITIES

Any existing Hilcorp locations may be used for staging during construction, drilling, and completion operations. Standard drilling operation equipment that will be on location includes drilling rig with associated equipment, temporary trailers equipped with sleeping quarters necessary for company personnel, toilet facilities, and trash containers.

9) WELL SITE LAYOUT

During construction, the proposed well pad would be leveled to provide adequate space and a level working surface for vehicles and equipment. Excavated materials from cuts would be used on fill portions of the well pad to level the surface. The approximate cuts, fills, and well pad orientation is shown on the construction plats in Appendix C. Rig orientation and the location of drilling equipment is depicted in Appendix D.

Drilling of the proposed San Juan 32 8 701/702 Project wells would require constructing a 600-foot by 671-foot (west side) 850-foot (east side) (11.06 acres) area with an additional 50-foot construction buffer zone on all sides of the pad (3.40 acres). The resulting area of the well pad and construction buffer zone would encompass a 14.46-acre disturbed area. The well pad would require a maximum cut of 41 feet on the southeast corner #3 (Corner A') and a maximum fill of 39 feet on the northwest corner #6 (Corner C). The entire area would be utilized during construction, setting of production equipment, drilling and completion phases. Topsoil would be stored in a berm within the construction buffer zone, along the northern and eastern edge of disturbance.

10) PLANS FOR SURFACE RECLAMATION

A Surface Reclamation Plan for the San Juan 32 8 701/702 Project is attached hereto in Appendix A. This Surface Reclamation Plan was prepared in accordance with Onshore Oil and Gas Order No. 1.

The Surface Reclamation plan addresses:

- Configuration of the reshaped topography;
- Drainage systems;
- Surface disturbances;
- Backfill requirements;
- Seeding or other steps to reestablish vegetation;
- Weed control;

11) SURFACE OWNERSHIP

The proposed well pad, access road, and portion of temporary surface waterline would be located on:

Surface Use Plan of Operations

Hillcorp
1111 Travis St
Houston, Texas 77002

A portion of the proposed temporary surface waterline would be located on:

Valley View Ranch LLC
15411 County Road 105
Mancos, Colorado 81328

A portion of the proposed temporary surface waterline would be located on:

Tazz Construction INC.
5600 Sundown Road
Gaithersburg, Maryland 20882

A portion of the proposed temporary surface waterline would be located on:

Thomas D Smith
1830 Galicia CT NE
Rio Rancho, New Mexico 87114

A portion of the proposed temporary surface waterline would be located on:

Denise Richards
531 Chamiso Lane
Los Ranchos, New Mexico 87107

A portion of the proposed temporary surface waterline would be located on:

Kelly McCoy
P.O. Box 475
Ignacio, Colorado 81137

A portion of the proposed temporary surface waterline would be located on:

Kathleen Howell
44 Road 6255
Kirtland, New Mexico 87417

A portion of the proposed temporary surface waterline would be located on:

Bernard Emershaw
547 E Ferguson CT
Visalia, California 93292

A portion of the proposed temporary surface waterline would be located on:

Alfred Cordova
19 Road 5221
Bloomfield, New Mexico 87413

A portion of the proposed temporary surface waterline would be located on:

Surface Use Plan of Operations

James Erbes
P.O. Box 501
Alamogordo, New Mexico 88311

A portion of the proposed temporary surface waterline would be located on:

Harvest
1111 Travis St
Houston, Texas 77002

A portion of the proposed temporary surface waterline would be located on:

Thomas Jenkins
1376 E Quinn Road
Pearce, Arizona 85625

A portion of the proposed temporary surface waterline would be located on:

Bureau of Land Management Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87401
(505) 564-7600

A portion of the proposed temporary surface waterline would be located on:

Bureau of Reclamation
Western Colorado Area Office
185 Suttle Street, Suite #2
Durango, CO 81303

12) OTHER INFORMATION

- A. Construction contractors would call New Mexico One-Call (or equivalent) to identify the location of any marked or unmarked pipelines or cables located in proximity to the proposed San Juan 32 8 701/702 Project or any other areas proposed to have ground disturbance at least two working days prior to ground disturbance.
- B. The project area has been surveyed by Stratified Environmental and Archaeological Services, LLC (SEAS). The cultural survey report will be submitted to the appropriate surface managing agencies. Cultural mitigation would occur if any is listed in the approved APD.
- C. The San Juan 32 8 701/702 Project is located within the Rattlesnake Canyon SDA (Big Game) SDA. Seasonal closures of (December 1st – March 31st) for drilling and construction. Hilcorp will seek an exception for this as they are on fee land.
- D. All activities associated with the construction, use/operation, maintenance, and abandonment or termination of the San Juan 32 8 701/702 Project wells would be limited to areas approved in the APD(s)

APPENDIX A. SURFACE RECLAMATION PLAN

A

Hilcorp Energy Company's Surface Reclamation Plan

San Juan 32 8 701 Federal Com #601H, #602H, #603H, #604H,
#605H, #606H, #607H, #608H, #609H; and San Juan 32 8 702
Federal Com #601H, #602H, #603H, #604H, #605H, #606H,
#607H, #608H, #609H, and Two Future Natural Gas Well Project

August 2024

Prepared for



Hilcorp Energy Company
1111 Travis Street
Houston, Texas 77002
Phone: (713) 209-2400

Developed by



479 Wolverine Drive
Bayfield, Colorado 81122
Phone: (970) 881-4080

Surface Reclamation Plan

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Surface Reclamation Plan

1 INTRODUCTION

Applicant	Hilcorp Energy Company
Project Name	San Juan 32 8 701 Federal Com #601H, #602H, #603H, #604H, #605H, #606H, #607H, #608H, #609H; and San Juan 32 8 702 Federal Com #601H, #602H, #603H, #604H, #605H, #606H, #607H, #608H, #609H, and Two Future Natural Gas Well Project (San Juan 32 8 701/702 Project)
Project Type	Twenty planned Oil and Natural gas wells, one Well Pad, one Access Road, Booster Pads, and one Temporary Lay-flat Waterline.
Legal Location	Section 27; Township 32 North; Range 8 West; NMPM San Juan County, New Mexico

Hilcorp Energy Company (Hilcorp) is providing this Surface Reclamation Plan to the Bureau of Land Management – Farmington Field Office (BLM-FFO) for their San Juan 32 8 701 Federal Com #601H, #602H, #603H, #604H, #605H, #606H, #607H, #608H, #609H; and San Juan 32 8 702 Federal Com #601H, #602H, #604H, #605H, #606H, #607H, #608H, #609H, and Two Future Natural Gas Well Project Applications for Permit to Drill (APDs) and Grant of Rights of Way (ROW) (San Juan 32 8 701/702 Project). This reclamation plan has been prepared to meet the requirements and guidelines of the Onshore Oil and Gas Order No. 1. The San Juan 32 8 701/702 Project and the associated well pad, access road, temporary booster pads, and one lay flat waterline is part of Hilcorp's San Juan 32 8 Unit.

The Hilcorp Contact person for this reclamation plan is:

Bobby Spearman
Construction Forman
Hilcorp Energy Company
P.O. Box 4700
Farmington, New Mexico 87499
505-324-5112

1.1 Reclamation Plan Revisions

Hilcorp may submit a request to the BLM-FFO to revise the Reclamation Plan at any time during the life of the project in accordance to page 44 of the Gold Book (USDI-USDA 2007). Hilcorp would include justification for the revision request.

2 PROJECT DESCRIPTION

Hilcorp proposes the San Juan 32 8 701 Federal Com #601H, #602H, #603H, #604H, #605H, #606H, #607H, #608H, #609H; and San Juan 32 8 702 Federal Com #601H, #602H, #603H, #604H, #605H, #606H, #607H, #608H, #609H and two future natural gas wells, one multi-well well pad, one temporary lay flat waterline, temporary booster pads, and one access road (San Juan 32 8 701/702 Project). The proposed well pad and access road within Section 27 of Township 32 North, Range 8 West N.M.P.M for

Surface Reclamation Plan

this project are located on fee lands and would access Federal minerals and be permitted through APDs. The temporary disturbance for this project including portions of lay flat waterline and booster stations within Section 17, 18, 19, 20, 21, 22, 27, 29, and 34 of Township 32 North, Range 7 West N.M.P.M and Section 24, 25, 26, and 27 of Township 32 North, Range 8 West N.M.P.M are located on public lands managed by the BLM and fee land and would be permitted as an off-lease action through a Grant of ROW. The project would include the construction, use, and subsequent reclamation of one multi-well, well pad with construction buffer zone; one access road; temporary booster stations; and one (1) temporary lay flat waterline corridor.

The project area would be located on public lands managed by the BLM-FFO within San Juan County, New Mexico. Specifically, the proposed Project would be located, as the crow flies, approximately 11.55 miles south of the town of Ignacio, Colorado. A brief description of the surface hole locations can be found in Table 2-1 below.

Table 2-1. Legal Coordinates for the Proposed Wellhead Locations.

Well Number	Legal Description
San Juan 32 8 701 Federal Com 601H	581 feet FSL and 2198 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 701 Federal Com 602H	681 feet FSL and 2199 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 701 Federal Com 603H	631 feet FSL and 2198 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 701 Federal Com 604H	531 feet FSL and 2198 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 701 Federal Com 605H	481 feet FSL and 2198 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 701 Federal Com 606H	656 feet FSL and 2199 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 701 Federal Com 607H	606 feet FSL and 2198 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 701 Federal Com 608H	556 feet FSL and 2198 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 701 Federal Com 609H	506 feet FSL and 2198 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 702 Federal Com 601H	569 feet FSL and 2238 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 702 Federal Com 602H	669 feet FSL and 2239 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 702 Federal Com 603H	619 feet FSL and 2239 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico

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San Juan 32 8 702 Federal Com 604H	519 feet FSL and 2238 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 702 Federal Com 605H	469 feet FSL and 2238 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 702 Federal Com 606H	644 feet FSL and 2239 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 702 Federal Com 607H	594 feet FSL and 2238 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 702 Federal Com 608H	544 feet FSL and 2238 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico
San Juan 32 8 702 Federal Com 609H	494 feet FSL and 2238 feet FWL, Section 27, Township 32 North, Range 8 West, NMPM San Juan County, New Mexico

2.1 Estimated Total Area of Disturbance

The San Juan 32 8 701/702 Project would result in a total of 73.30 acres of disturbance, of which 18.96 acres would be new surface disturbance. New surface disturbance is placed with respect to archeology, paleontology, geology, terrain characteristics, current/proposed Hilcorp infrastructure, and efforts to minimize ground/vegetative disturbance in areas of critical habitat to sensitive species. During interim reclamation, approximately 0.36 acres would be fully reclaimed (recontoured and reseeded) and 3.40 acres would be reseeded only. The remaining 11.42 acres would be stabilized and used as a working surface throughout the life of the project. The working surfaces and the areas that were reseeded only, would be fully reclaimed during final reclamation.

2.1.1 Well Pad

The proposed well pad would be a 600-foot by 671-foot (west side) 850-foot (east side) (11.06 acres) area with an additional 50-foot construction buffer zone on all sides of the pad (3.40 acres). The resulting area of the well pad and construction buffer zone would encompass a 14.46-acre working surface. During the construction of the well pad, elevated areas within the pad area would be excavated and utilized as fill material on low areas of the pad to establish a level working surface. The well pad would require a maximum cut of 41 feet on corner 3 and a maximum fill of 39 feet on corner 6 of the pad. This entire area would be utilized during construction, setting of production equipment, drilling, and completion phases. 20 horizontal wells are planned to be drilled from this well pad. Once all drilling and completions phases are complete for the well, the well pad would be interim reclaimed.

2.1.2 Access Road

The proposed permitted access road would be 1,045.4 feet long from the kick-off point on an existing well access road. The proposed road would be an upgrade of the existing road the entire way to the well pad. Of total 1,045.4 feet; 287.6 would be on BLM-managed lands, 757.8 would be on fee land and would be within a 30-foot-wide corridor. Construction of the access road would initiate 0.36 acres of new disturbance and 0.36 acres of upgraded well access road. During interim reclamation, approximately 0.36 acres of the newly constructed road would be fully reclaimed. For the long term, a 14-foot-wide running

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surface and the bottoms of the bar ditches along either side of the access road would remain for the life of the project (0.36 acres).

2.1.3 Temporary Lay Flat Waterline

The proposed temporary pipeline would be 58,045.5 feet long from the kick-off point at the take point from the proposed Burnt Mesa Lay-Flat line to the proposed San Juan 32 8 701 Federal Com #601H well pad. This proposed lay-flat line would utilize 27,347.9 feet of the Burnt Mesa Lay-Flat line from the Navajo take point. The total 58,045.5 feet of surface waterline travels from the Burnt Mesa Lay-Flat line to the well pad across BLM-managed lands (43,103 feet), BOR-managed lands (1,861.6), and Fee land (13,080.4 feet) within a 40-foot-wide corridor of existing pipeline ROW or roadways. All proposed temporary lay-flat waterline would be within existing disturbance and would not result in any surface disturbance, thereby not requiring any reclamation.

2.1.4 Temporary Booster Stations

Two proposed temporary booster pads and two header manifold pads would be need for this project and would consist of a 30-foot by 90-foot area (0.06 acres each). The resulting area of the four pads would encompass a total of 0.24 acres of disturbance. These areas would be utilized for the boosters required to transport water during drilling of the proposed 20 horizontal wells. These pads would be temporary, within existing disturbance, and would not require reclamation.

Table 2-2. Project Disturbance Estimates for the Proposed San Juan 32 8 701/702 Project

Feature	Total Disturbance	New Disturbance	Fully Reclaimed	Interim Reclamation	Long-term Disturbance
Well pad	14.46	14.02	-	3.4	11.06
Access Road Corridor	0.72	0.36	0.36	-	0.36
Temporary Lay Flat Pipeline and Pads	53.54	-	-	-	-
Gas Pipeline (Fee Surface)	4.58	4.58	4.58	-	-
Total:	73.30	18.96	4.94	3.40	11.42

¹ All acreage of the temporary lay-flat waterline is in existing disturbance and will not result in new surface disturbance.

² 53.54 acres of this proposed temporary use area would be within existing disturbed areas, is not anticipated to cause surface disturbance, and is not anticipated to require reclamation.

3 PRE-DISTURBANCE SITE VISIT

The pre-disturbance site visit occurred for the proposed project on April 11, 2023. Table 3-1, below, provides a list of individuals present at the site visit and a list of BMPs that will be implemented for the project as discussed at the site visit.

- An area on the existing well road will need to be upgraded as it crosses a large wash.
- Hilcorp will adhere to the Big Game Winter Closure from December 1 – March 31. Hilcorp will file for an exception from winter closure since the well pad is on fee land.

Surface Reclamation Plan

- Pre-construction migratory bird surveys will also be completed if construction is planned during May 15 – July 15 migratory bird nesting season.
- All above ground equipment will be painted Juniper Green.

Table 3-1. Pre-disturbance onsite April 11, 2023, attendees

Name	Affiliation
Ryan McBee	BLM-FFO
Emmanuel Adeloye	BLM-FFO
Emma Allison	BLM-FFO
Therese Galhouse	BLM-FFO
Ben Mitchell	Hilcorp
Bobby Spearman	Hilcorp
Chad Perkins	Hilcorp
Doug Loebig	SEAS
Jason Edwards	NCE Survey
Tanner Paulek	EIS Environmental
Grace Lee	EIS Environmental

3.1 Vegetation Community

The proposed project area within the vegetation community area classified as Pinyon/Juniper Woodland Community. The dominant species throughout the action area is Pinyon pine (*Pinus edulis*). Ground cover by the dominant species was visually estimated to be approximately 65 percent across the entire action area.

3.2 Proposed Reclamation Seed Mix

Disturbance would be re-contoured, and topsoil would be redistributed and prepared for seeding by the construction contractor. Ripping, diskng, and seeding of the site would be done by Hilcorp's construction contractor using the BLM-approved seed mix, which is shown in Table 3-2. The proposed reclamation seed mix takes into account the existing vegetation on the proposed project site.

Table 3-2. BLM Farmington Field Office Pinyon/Juniper Woodland Community Seed Mix.

Common Name	Scientific Name	Variety	Season	Form	PLS lbs/acre ¹
Mountain mahogany	<i>Cercocarpus montanus</i>	VNS	Warm	Shrub	2.0
Antelope bitterbrush	<i>Purshia tridentata</i>	VNS	Cool	Shrub	2.0
Sand dropseed	<i>Sporobolus cryptandrus</i>	VNS	Warm	Bunch	0.5
Western wheatgrass	<i>Pascopyrum smithii</i>	Arriba	Cool	Sod- forming	4.0
Indian ricegrass	<i>Achnatherum hymenoides</i>	Paloma or Rimrock	Cool	Bunch	10.0
Bottle brush squirreltail	<i>Elymus elymoides</i>	Tusas or VNS	Cool	Bunch	3.0
Blue flax	<i>Linum lewisii</i>	Apar	Cool	Forb	0.25

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Blue grama	<i>Bouteloua gracilis</i>	Alma or Hachita	Warm	Sod	2.5
Rocky Mtn. bee plant	<i>Cleome serrulate</i>	Local collection or VNS	Cool	Forb	0.5
¹ Based on 60 PLS per square foot, drill seeded; double this rate (120 PLS per square foot) if broadcast or hydro-seeded.					

3.3 Pre-Disturbance Weed Survey

During the onsite visit, the proposed action area was surveyed for noxious weeds listed on the NMDA's Class-A and Class-B noxious weeds list. No NMDA Class A or B listed species were identified. The Onsite Noxious Weed form for the San Juan 32 8 701/702 Project area was completed and signed by the BLM-FFO representative. The form is attached to this Surface Reclamation Plan.

3.4 Pre-Disturbance Soil Evaluation

The BLM-FFO representative and Hilcorp representative collaboratively decided at the pre-disturbance site visit that no soil testing is necessary for the proposed project areas.

3.5 Pre-Disturbance Site Photographs

Photographs were taken of the pre-disturbance sites. Each photograph in this Surface Reclamation Plan is notated with the direction the photograph was taken and the location of the photo point. The photographs and locations are listed in Table 3-3 below.

Table 3-3. List of required pre-disturbance site photographs.

Photographs	Location Description
1, 2, 3, 4	From each well pad corner, looking toward the center stake
5, 6, 7, 8	Four Cardinal direction from the center stake
9	Start of Access and Well-Connect Pipeline
10	End of Access and Well-Connect Pipeline

Surface Reclamation Plan



Figure 1. Well Pad Corner 2, Looking Towards the Southwest.



Figure 2. Well Pad Corner 3, Looking Towards the Northwest.

Surface Reclamation Plan



Figure 3. Well Pad Corner 5, Looking Towards the Northeast.



Figure 4. Well Pad Corner 6, Looking Towards the Southeast.

Surface Reclamation Plan



Figure 5. Well Head Stake, Looking Towards the North.



Figure 6. Well Head Stake, Looking Towards the East.

Surface Reclamation Plan



Figure 7. Well Head Stake, Looking Towards the South.



Figure 8. Well Head Stake, Looking Towards the West.

Surface Reclamation Plan



Figure 9. Access Road Start, Looking Towards the East.



Figure 10. Access Road End, Looking Towards the West.

Surface Reclamation Plan

4 RECLAMATION TECHNIQUES FOR SUCCESSFUL REVEGETATION

All activities associated with the construction, use/operation, maintenance, and abandonment or termination of the San Juan 32 8 701/702 Project are limited to areas approved in the APD's.

4.1 Vegetation and Site Clearing

Vegetation removed during construction, including trees that measure less than three to six inches in diameter (at ground level) and slash/brush, would be chipped or mulched and incorporated into the topsoil as additional organic matter. If trees are present, all trees three to six inches in diameter or greater (at ground level) would be cut to ground level and delimbed. Tree trunks (left whole) and cut limbs would be donated. The subsurface portion of trees (tree stumps) would be disposed of appropriately.

4.2 Topsoil Stripping, Storage, and Replacement

Topsoil will not be expected to be removed from this project as the landowner would like to keep this pad flat and as an entire working area.

4.3 Water Management/Erosion Control Features

The BLM-FFO representative and the Hilcorp representative would work in collaboration to develop site-specific erosion control or water management features and to identify installation locations. Potential erosion control or water management features that may be used include (but are not limited to) water bars or rolling dips for roads, sediment basins or sediment traps, check dams, silt fencing, outlet protection for culverts, erosion control blankets or geotextiles, and straw wattles.

Hilcorp (or its contractors) may use erosion control blankets, straw bales, or straw wattles as appropriate to limit erosion and sediment transport from any stockpiled soils.

The following best management practices concerning water management would be applied to the San Juan 32 8 701/702 Project as determined during the April 11, 2023, onsite visit.

- Diversions would be installed upon reclamation.
- Silt traps would be installed upon reclamation.
- Upon interim reclamation, the area would be reseeded with the BLM approved pinyon/juniper woodland seed mix to reduce soil erosion.

4.4 Seedbed Preparation

For cut-and-fill slopes, initial seedbed preparation would consist of backfilling and re-contouring. Disturbed areas would be re-contoured to blend with the surrounding landscape, emphasizing restoration of the existing drainage patterns and landform to pre-construction condition, to the extent practicable.

Within areas that would be reseeded, stockpiled topsoil would be evenly redistributed prior to final seedbed preparation. Topsoil would not be redistributed when the ground or topsoil is wet. Seedbed preparation within compacted areas would include ripping to a minimum depth of 18 inches and spacing furrows two feet apart. Ripping would be conducted perpendicularly in two phases, where practicable. If large clumps/clods result from the ripping process, diskng would be conducted perpendicular to slopes in order to provide terracing and minimize runoff and erosion. Final seedbed preparation would consist of

Surface Reclamation Plan

raking or harrowing the spread topsoil prior to seeding to promote a firm (but not compacted) seedbed without surface crusting. Seedbed preparation may not be necessary for topsoil storage piles or other areas of temporary seeding.

4.5 Soil Amendments

Soil amendments would be added to the topsoil, if needed, as advised by the Hilcorp environmental scientist or appropriate agent/contractor.

4.6 Seeding

The seed mix chosen for this project area is listed in Table 3-2. Seeding would occur at the time of interim reclamation. A disc-type seed drill with two boxes for various seed sizes would be utilized for seeding the disturbed areas of the site. Hilcorp or its reclamation subcontractor would ensure that perennial grasses and shrubs are planted at the appropriate depth. Intermediate size seeds (such as wheatgrasses and shrubs) would be planted at a depth of 0.5-inch, larger seeds (such as Indian ricegrass) would be planted at a depth of one to two inches, and small seeds (such as alkali sacaton and sand dropseed) would be planted at a depth of 0.25 inch. In situations where differing planting depths are not practicable with the equipment being used, the entire mix would be planted no deeper than 0.25 inch. A drag, packer, or roller would follow the seeder to ensure uniform seed coverage and adequate compaction. Seed would be drilled perpendicular to slopes in order to minimize runoff and erosion.

Drill seeding may be used on well-packed and stable soils that occur on gentler slopes and where tractors and drills can safely operate. Where drill seeding is not practicable due to topography, the contractor would hand-broadcast seed using a “cyclone” hand seeder or similar broadcast seeder. Broadcast application of seed requires a doubling of the drill-seeding rate. The seed would then be raked into the ground so the seed is planted no deeper than 0.25 inch below the surface.

4.7 Noxious and Invasive Weed Control

Hilcorp will manage the weeds should any noxious or invasive weeds arise in the project area. Hilcorp will treat with specific requirements and follow the weed treatment, including the period of treatment, using the list of approved herbicides.

5 VEGETATION RECLAMATION STANDARDS

Interim reclamation of all disturbed areas is successful when all ground surface disturbing activities at the site have been completed, and all disturbed areas have been either built on, compacted, covered, paved, or otherwise stabilized in such a way as to permanently prevent erosion, or when all of the following criteria have been met.

6 MONITORING REQUIREMENTS

The San Juan 32 8 701/702 Project would not be under monitoring requirements as this project would be on fee land and the fee owner will be left with the monitoring requirements.

Surface Reclamation Plan

7 REFERENCES

43 CFR Part 3160, "Onshore Oil and Gas Order No. 1; Onshore Oil and Gas Operations; Federal and Indian Oil and Gas Leases; Approval of Operations," 72 Federal Register 44 (March 2007), pp. 10328-10338.

U.S. Department of the Interior - U.S. Department of Agriculture (USDI-USDA). 2007. Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development. BLM/WO/ST-06/021+307/REV 07. Bureau of Land Management. Denver, Colorado. 84 pp.

APPENDIX B. ROAD MAINTENANCE PLAN

B



Hilcorp

Road Maintenance Plan

The following Road Maintenance Plan will be implemented and followed by Hilcorp Energy Company (Hilcorp) for roads utilized in its San Juan Basin Operations. All roads will be constructed and maintained to meet Bureau of Land Management (BLM) Gold Book Standards, BLM Manuals 9113-1 (Roads Design Handbook), and BLM Manuals 9113-2 (Roads National Inventory and Condition Assessment Guidance and Instructions Handbook).

Road Inspections

1. A Hilcorp representative or designated inspector will conduct regular inspections of all newly constructed, reconstructed, and improved roads used for construction, operation, maintenance, and termination of Hilcorp's oil and gas operations.
2. Inspector will examine roads for proper maintenance of key features including: reduction of ruts and holes, maintenance of crowns and sloped areas related to the roads, condition of surface materials, efficacy of culverts and sediment traps, condition of interim reclamation, and presence of noxious weeds.
3. Road inspections will be conducted within 5 business days of major storm events such as major snow melt or prolonged rain, in order to ensure proper operation of drainage systems, and erosion and sediment control structures and features.
4. Inspectors will examine the roadways and document the inspection using the attached checklist during each inspection.
5. Inspection records will be filed and provided to the BLM upon written request.

Maintenance Procedures

For existing County Roads or roads that are considered collector roads, Hilcorp would defer to the county or to the Roads Committee, when formed, for maintenance determinations.

Roads would be maintained to the same or better condition as existed prior to the commencement of operations. Maintenance would continue until final abandonment and reclamation of Hilcorp's related oil and gas operation.

Best management practices (BMPs) for dust abatement and erosion control would be utilized along the roads to reduce fugitive dust on as needed basis. Water application using a rear-spraying truck or other suitable means would be the primary method of dust suppression along the roads.

No routine maintenance activities would be performed during periods when the soil is too wet to adequately support construction equipment. If equipment creates ruts deeper than 6 inches, the soil would be deemed too wet for construction or maintenance.

In addition to regular maintenance, road inspection would be used to identify any additional maintenance needs.



Road and Drainage Structures and Features

1. Road Crown

Maintenance of road crowns will be conducted to rectify ruts, holes, and rough areas and ensure adequate drainage on road features and outslopes. Needed maintenance will be conducted using a maintainer to re-grade and/or resurface the road crown.

2. Culverts

Culverts and silt trap maintenance and/or repair will be conducted on as-needed basis, using hand tools or machinery such as a back hoe. Excavation and debris removal activities will be conducted in accordance to the requirements of the surface management agency and conducted with compliance to applicable Clean Water Act-Best Management Practices, and applicable requirements for passage for aquatic species. If the culvert is damaged by having its inlet or outlet crushed, it would be replaced.

3. Ditches

Road side ditches will be maintained to ensure proper function, on as-needed basis, using maintainer or the appropriate equipment to clear and/or blade as necessary. Maintenance activities will be implemented with consideration of resource objective for soil, water, and visual quality as is feasible with relation to maintenance costs.

4. Silt Traps and Water Control Structures

Silt traps and water control structures will be maintained to ensure proper function, on as-needed basis using maintainer or the appropriate equipment to clear, excavate, and/or blade as necessary. Sediment removed from silt traps and water control structures would be disposed at an approved facility or utilized for construction activities with the approval of the surface management agency.

5. Replacement of Road Surface Material

Road surface material will be maintained and supplemented/replaced on as-needed basis, using the appropriate substrate from an approved source, in order to maintain proper road operation and condition.

6. Maintenance of Interim Reclamation

Disturbance related to maintenance activities will be subject to interim reclamation and stabilizations standards and guidelines, in order to meet objectives outlined in the reclamation plan, as pertaining to projects on case-by-case basis.

7. Noxious Weeds

Should any noxious or invasive weeds be documented during the inspection and/or maintenance activities, the BLM/FFO weed coordinator will provide Hilcorp with specific requirements and instructions for weed treatments, including the period of treatment, list of approved herbicides, required documentation to be submitted to the BLM/FFO after treatment, and any other site-specific instructions that may be applicable.



Hilcorp Road Inspection and Maintenance Report Form				
Road Inspected (Well ID):	Type of Area:			
Title of Inspector:	Access Road to Well Pad:			
Name of Inspector:	Type of Inspection:(Monthly/Major Storm/Winter Event)			
Site Inspection Information				
<hr/> <hr/> <hr/> <hr/>				
Road Condition Checklist				
Road Feature:	Good	Poor	Action Needed	Comments
Road Crown				
Surface Condition (slopes/gravel)				
Surface Drainage				
Culvert(s)				
Ditches and Turnouts				
Revegetation				
Noxious Weeds				
<hr/>				
Sediment Control:	Good	Poor	Action Needed	Comments
Check Dam				
Silt Trap/Sediment Pond				
Filter Berm				
Sediment Trap				
Sediment Basin				
Wattles				
Silt Fence				
Actions Taken			Date Work Was Preformed	
<hr/> <hr/> <hr/> <hr/>				
Type of Inspection	Date:	Signature:		

Signature certifying that the site is in compliance (after all the necessary repairs, maintenance, and changes are completed)

Date

Signature

APPENDIX C. WELL PAD PLATS WITH ACCESS ROUTE AND DIRECTIONS

HILCORP ENERGY COMPANY SAN JUAN 32 8 701 FEDERAL COM 604H
531' FSL & 2198' FWL, SECTION 27, T32N, R8W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6696'
LAT 36.948899°N LONG -107.663817°W DATUM: NAD1983

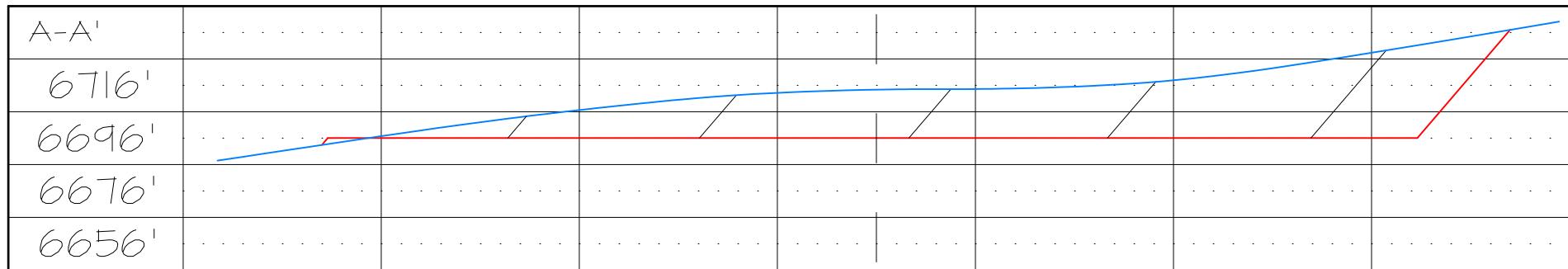
Steel T-Posts have been set to define the Edge of Disturbance limits which are 50' offset from the edge of the staked wellpad.

HILCORP ENERGY COMPANY SAN JUAN 32 8 701 FEDERAL COM 604H
531' FSL & 2198' FWL, SECTION 27, T32N, R8W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6696'

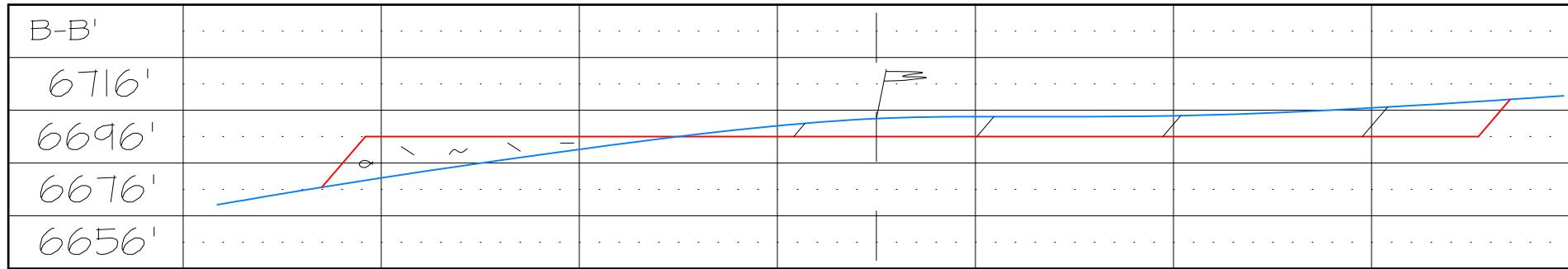
HORIZONTAL SCALE
 1"=40'

C/L

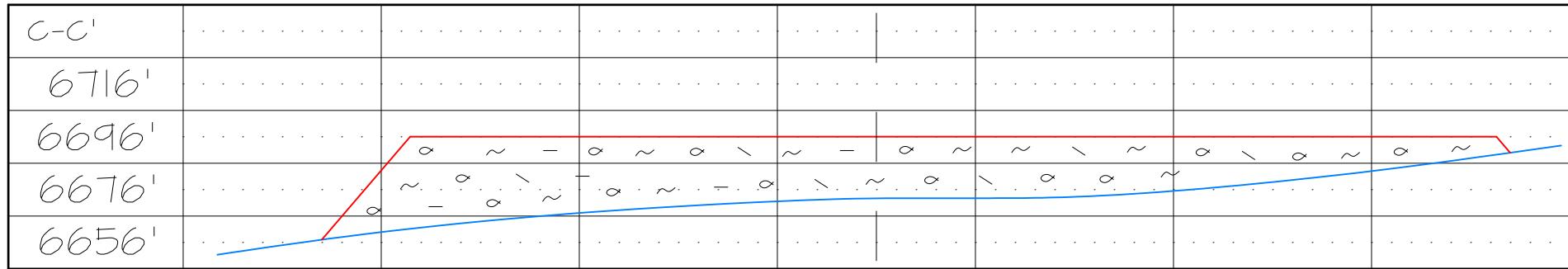
VERTICAL SCALE
 1"=60'



C/L



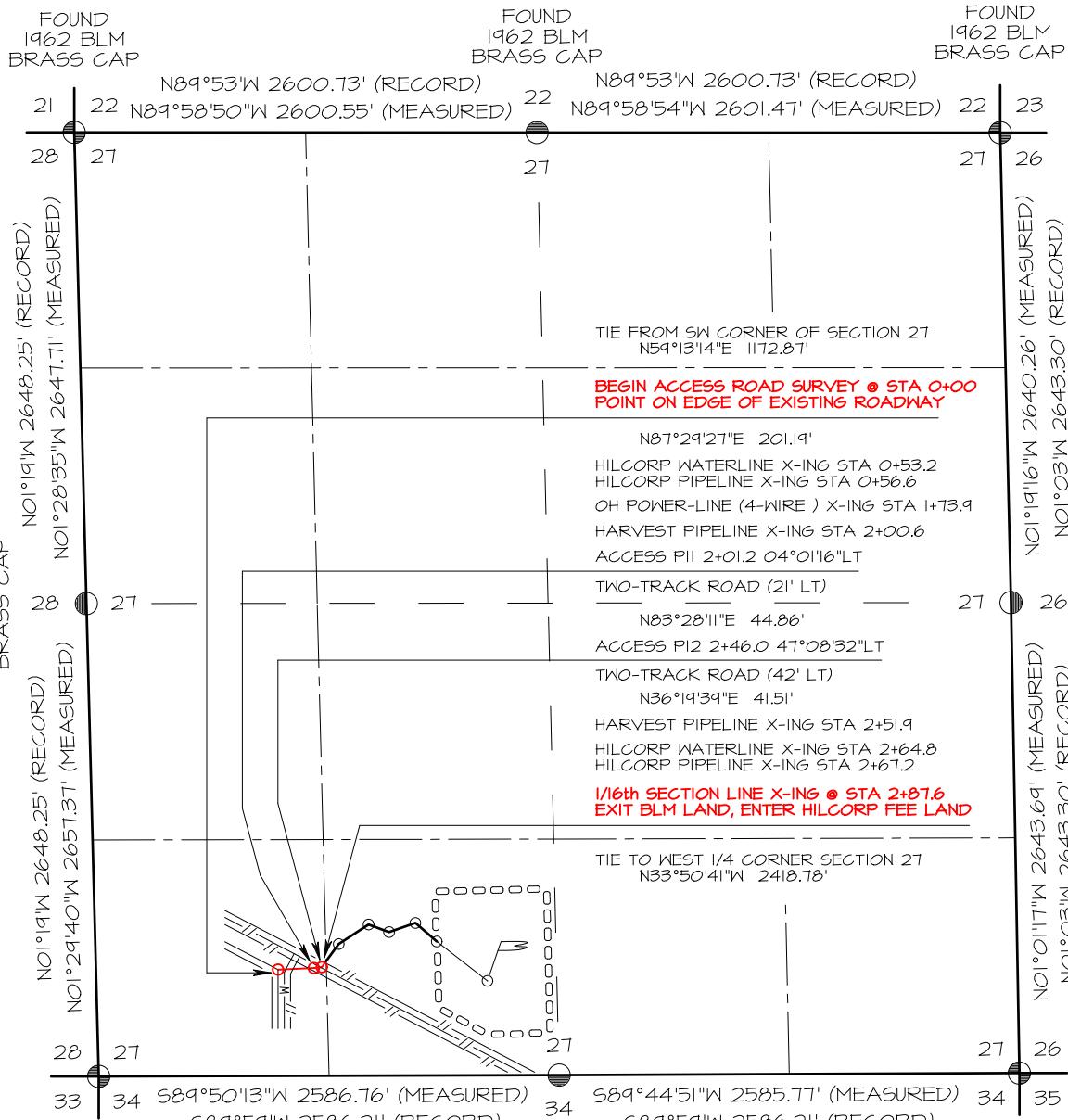
C/L



NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

**HILCORP ENERGY COMPANY SAN JUAN 32 8 701 FEDERAL COM 604H
PROPOSED ACCESS ROAD SURVEY LOCATED IN
SW/4 SW/4 OF SECTION 27, T32N, R8W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

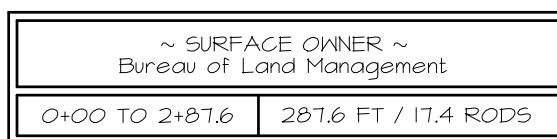


PLAT NOTE

BEFORE ANY CONSTRUCTION BEGINS,
CONTRACTOR IS ADVISED TO CALL
ONE-CALL FOR LOCATION OF ANY
MARKED OR UNMARKED PIPELINES OR
CABLES IN THE AREA OF THE PROJECT

BASIS OF BEARING

REAL-TIME KINEMATIC GPS SURVEY
SOLUTION OBTAINED FROM SATELLITES
TRACKED ON SEPTEMBER 16, 2022 FROM
A REFERENCE STATION POSITIONED IN
SW/4 SW/4 OF SECTION 26, T32N, R8W



Prepared for:	
HILCORP ENERGY COMPANY P.O. BOX #61529 HOUSTON, TX 77208-1529	
Land Surveyor: Jason C. Edwards	
Mailing Address: Post Office Box 6612 Farmington, NM 87499	
Business Address: 111 East Pinon Street Farmington, NM 87402 (505) 486-1695 (Office) ncsesurveys@comcast.net	

I, Jason C. Edwards, a registered Professional Surveyor under the laws of the State of New Mexico, hereby certify that this plat was prepared from field notes of an actual survey meeting the minimum requirements of the standards for easement surveys and is true and correct to the best of my knowledge and belief.

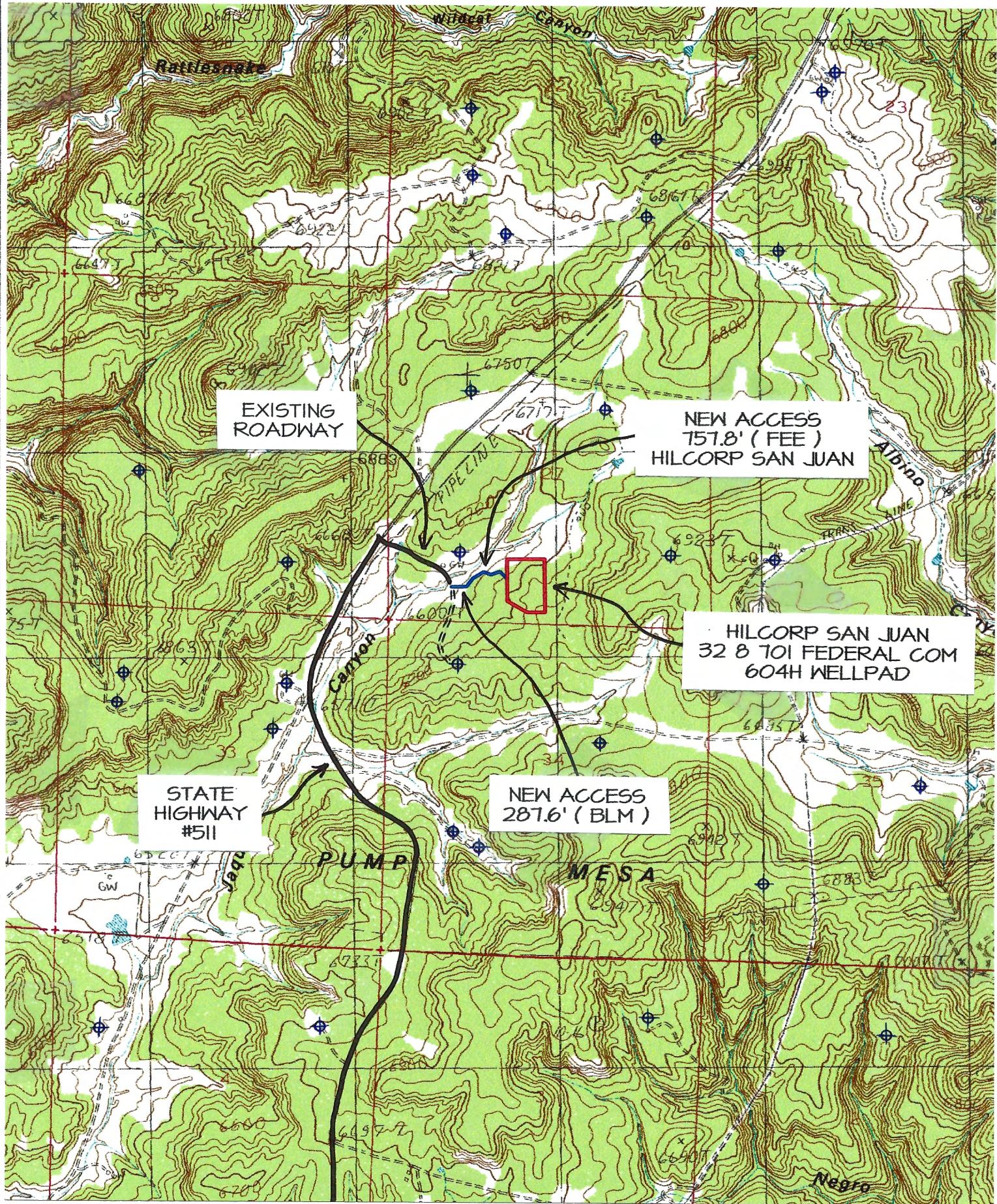
JASON C. EDWARDS

Date: May 3, 2023

Jason C. Edwards, P.L.S.
New Mexico L.S. #15269

HILCORP ENERGY COMPANY SAN JUAN 32 8 701 FEDERAL COM 604H

531' FSL & 2198' FWL, SECTION 27, T32N, R8W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO



TOPO NAME : ANASTACIO SPRING

⊕ PRODUCING WELL

⊗ PLUGGED & ABANDONED WELL

Directions from the Intersection of US Hwy 550 & State Hwy 173
in Aztec, NM to Hilcorp Energy San Juan 32 8 701 Federal Com 604H
531' FSL & 2198' FWL, Section 27, T32N, R8W, N.M.P.M., San Juan County, NM

Latitude: 36.948899°N Longitude: -107.663817°W Datum: NAD1983

From the intersection of US Hwy 550 & State Hwy 173 in Aztec, NM, travel Easterly on State Hwy 173 for 1.0 miles to fork in roadway;

Go Left (Easterly) remaining on State Hwy 173 for 17.0 miles to T-intersection;

Go Left (North-Easterly) exiting State Hwy 173 onto State Hwy 511 for 17.7 miles to existing roadway on right-hand side of State Hwy 511 @ Mile Marker 25.8;

Go Right (South-easterly) exiting State Hwy 511 along existing roadway for 0.3 miles to new access on left-hand side which continues for 1045.4' to Hilcorp San Juan 32 8 701 Federal Com 604H proposed wellpad

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 541842

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 541842
	Action Type: [C-144] Temporary Pit Plan (C-144T)

CONDITIONS

Created By	Condition	Condition Date
joel.stone	NMOCD has reviewed and approved the permit application and related documents submitted by [372171] Hilcorp Energy Company on January 9, 2026, for the SAN JUAN 32-8 UNIT COM PAD BURIAL TRENCH, FACILITY ID [FJZS2601450290] in Unit Letter N, Section 27, Township 32N, Range 08W, San Juan County, New Mexico. [372171] Hilcorp Energy Company must maintain, operate and close the SAN JUAN 32-8 UNIT COM PAD BURIAL TRENCH, FACILITY ID [FJZS2601450290] as per all the requirements in 19.15.17. NMAC PITS, CLOSED-LOOP SYSTEMS, BELOW-GRADE TANKS AND SUMPS. [372171] Hilcorp Energy Company shall design and construct the SAN JUAN 32-8 UNIT COM PAD BURIAL TRENCH, FACILITY ID [FJZS2601450290] as described in the approved plan. [372171] Hilcorp Energy Company shall close the Pit as described in the approved plan, per the requirements in 19.15.17.13 NMAC.	1/14/2026