Form C-144 Revised October 11, 2022

<u>Pit, Below-Grade Tank, or</u> Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method BGT2 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
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. I. Operator: Dugan Production Company OGRID #:00615 Address: PO Box 420, Farmington, NM 87499-0420
Facility or well name: Tsah Tah SWD # 036
API Number: 30-045-33942 OCD Permit Number: BGT # 001 U/L or Qtr/Qtr F Section 36 Township 25N Range 10W County: San Juan
Center of Proposed Design: Latitude <u>36.3598938</u> Longitude <u>-107.8524857</u> NAD83
Surface Owner: Effederal State Private Tribal Trust or Indian Allotment 1800' FNL & 1360' FWL
Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Volume: Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
3. Image: Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 90
Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness 60 mil HDPE PVC Other
 <u>Alternative Method</u>: 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 <u>4' Hog Wire w/ 1" Tubing as a top rail and welded to the t-posts</u>

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

X Screen I Netting Other_

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

Signs: Subsection C of 19.15.17.11 NMAC

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

X Signed in compliance with 19.15.16.8 NMAC

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.

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	☐ 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.	🗌 Yes 🗌 No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
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

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 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	□ Yes □ 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 	🗌 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 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 	🗌 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
<u>Permanent Pit or Multi-Well Fluid Management Pit</u>	
 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 	🗌 Yes 🗌 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 	🗌 Yes 🗌 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 	🗌 Yes 🗌 No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot 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 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: <u>30-045-33942</u> or Permit Number: <u>BGT # 1</u>	cuments are 9 NMAC
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot 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 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 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:	

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^{12.} <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the</i>	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.} <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i>	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	Iuid Management Pit
Proposed Closure Method:	
14.	
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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. State (17.10) NAC	
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 sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. I 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
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	
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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
 In-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure proby 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 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 canr 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 	.11 NMAC .15.17.11 NMAC
 17. <u>Operator Application Certification</u>: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and below Name (Print): <u>Kevin Smaka</u> <u>Title:</u> Regulatory Engineer 	ief.
Signature: Kevin Smaka Date: March 3, 2025	
e-mail address: kevin.smaka@duganproduction.com Telephone: 505-486-6207	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature:	2025
Title: Environmental Scientist & Specialist-A OCD Permit Number: BGT2	
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do no 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-legendreft) □ If different from approved plan, please explain. □ If different from approved plan, please explain.	oop systems only)
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in 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	

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 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:						
e-mail address:	Telephone:					

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Dugan Production Corp.

Tsah Tah SWD # 036

BGT Permit Registration Application

API# 30-045-33942 F-36-25N-10W 1800 FNL 1360 FWL Surface Owner: State

Dugan Production Company respectfully submits this application for the registration of a below-grade tank at Tsah Tah SWD #036. The location previously housed a permitted below-grade tank that was removed from service due to integrity deficiencies. The proposed replacement tank complies with the applicable provisions of 19.15.17 NMAC.

In accordance with the requirements of 19.15.17 NMAC, the following supporting documentation is provided:

- Operating and maintenance procedures for the below-grade tank are included in **Appendix A**.
- A closure plan, hydrogeologic report, USGS data, and NMSOE iWaters database information demonstrating compliance with the siting criteria in 19.15.17.10 NMAC are included in **Appendix B**.
- The standard design for the below-grade tank, which was previously submitted in the Tsah Tah SWD #036 Permit Application (October 2008) and approved in March 2012, is included in Appendix C.
- The proposed below-grade tank is not located within 100 feet of any continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland, or playa lake, as measured from the ordinary high-water mark. The nearest significant watercourse is located approximately 246.1 feet away. A map showing the distance to the nearest watercourse is included in **Appendix B**.
- The proposed below-grade tank is not located within 200 feet of any spring or freshwater well used for public or livestock consumption. A map showing distances to significant watercourses is provided in **Appendix B**.

- The below-grade tank and surrounding area meet the general specifications outlined in the Design and Construction Specifications of 19.15.17.11 NMAC. These specifications are included in **Appendix C**.
- The replacement below-grade tank has been installed within the berm. A photo of the installation is provided in **Appendix D**.

Dugan Production Company affirms that the proposed below-grade tank complies with all applicable regulations and requirements. Should additional information or clarification be needed, please do not hesitate to contact us.

Appendix A: Operating and Maintenance Procedures

Tsah Tah SWD # 036 BGT Operating and Maintenance Procedures:

Rosetta Resources Operating LP San Juan Basin Maintenance and Operating Plan

In accordance with Rule 19 15 17 the following information described the operation and maintenance of below grade tanks on Rosetta Resources Operating LP locations. This is Rosetta's standard procedure for all below grade tanks. A separate plan will be submitted for any below grade tank which does not conform to this plan.

General Plan

- 1 Rosetta will operate and maintain a below grade tank to contain liquids and solids and prevent contamination of fresh water and protect public health and environment
- 2 All fluids collected in a below grade tank will be disposed of at Basin Disposal, Inc. Permit # NM-01-005 or Agua Moss, LLC Permit # SWD 1034
- 3 Rosetta will not discharge or store any hazardous waste in any below grade tank
- 4 If any below grade tank's integrity is compromised, Rosetta shall remove all liquids from the tank within 48 hours and repair the damage. Rosetta shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. Rosetta shall notify the Aztec division office within twenty-four (24) hours as required pursuant to Subsection B of 19 15 3 116 NMAC shall be of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1) and Subparagraph (d) of 19 15 3 116 NMAC shall be reported to the division's Environmental Bureau Chief
- 5 The injection and withdrawal of fluid from an below grade tank will be accomplished with a diverter headed and permanent plastic pipes to prevent damage to the tank
- 6 The below grade tank shall be protected from run-on by constructing and maintaining berms around the perimeter of the pit
- 7 Rosetta shall immediately remove any visible layer or oil from the surface of the below grade tank. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will be stored on-site until closure of the below grade tank
- 8 Only produced water and injection pump waste oils may be discharged into the below grade tank

Tsah Tah SWD # 036 Siting Criteria Outline

Rosetta Resources Tsah Tah SWD #36 Below Grade Tank Application Siting Criteria

1. According to the iWaters Database from the State Engineers Office, the closest reported well in this Township has a depth to ground water measurement of 250'. This well is approximately 2 miles northwest of the Tsah Tah SWD #36 well. See attached printout.

2. As shown on the attached topographic map and aerial photos, there are no continuously flowing watercourses within 300' of the well, or any significant watercourses, lakebeds, sinkholes, or playa lakes within 200' of the well.

3. There are no permanent residences, schools, hospitals, institutions, churches within 300' of the well.

4. There are no domestic water wells or springs within 500' of the well. See iWaters Database printout.

5. The well is not located within any municipal boundaries.

6. The well is not within 500' of any wetlands. See attached topographic map and aerial photos.

7. There are no subsurface mines in Section 36, T25N, R10W. See attached map from the NM EMNRD Mining and Mineral Division.

8. The Tsah Tah SWD #36 is not located in an "unstable" area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of a continuously flowing watercourse or 200' from any other watercourse.

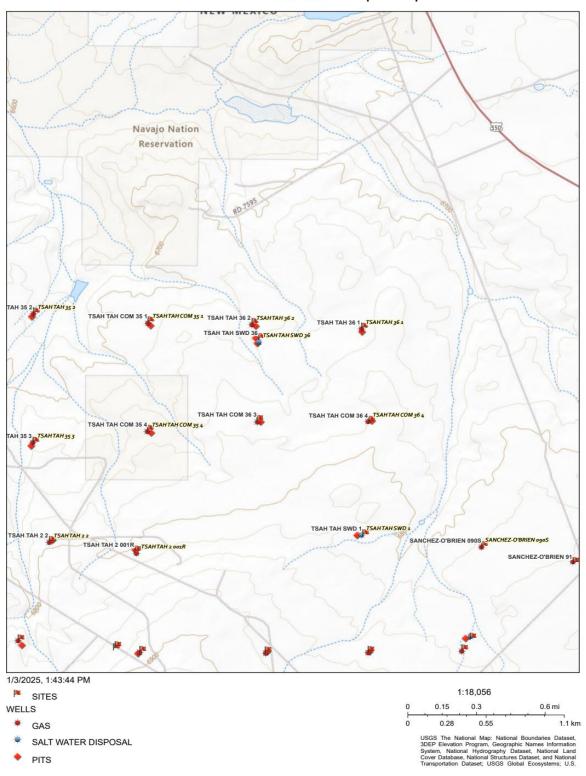
9. The well is not located in a 100-year floodplain as visible on the topographic map and the FEMA Flood Insurance Rate Map.

10. In the event that the composite pit sample that is mixed 3:1 with native soils does not meet the requirements for onsite burial, the pit contents will be removed and disposed of at the Envirotech Landfarm #2 (NMOCD Permit #11).

Dugan Production Corp

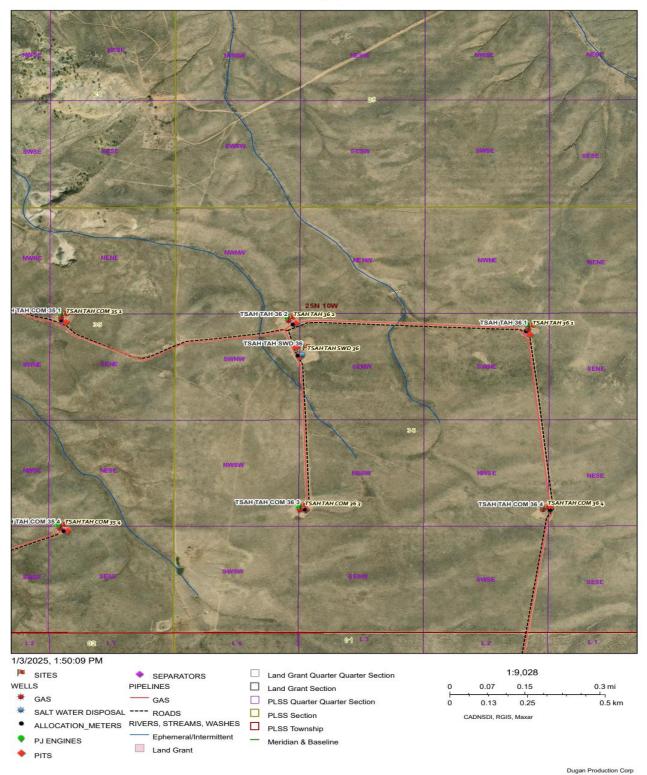
Appendix B: Siting Criteria

Tsah Tah SWD # 036 Topo Map:



Tsah Tah SWD # 036 - Topo Map

TSah Tah SWD # 036 Aerial View Map:



Tsah Tah SWD # 036 -Aerial View

Tsah Tah SWD # 036 Hydrogeologic Report:

Hydro geological report for Tsah Tah SWD #36

Regional Hydro geological context:

The Tsah Tah SWD #36 is located on New Mexico State land in a rolling sage brush expanse west of Highway 550 in San Juan Country New Mexico. The area surrounding the well is drained by numerous small arroyos that eventually drain to the Gallegos Wash.

A records search of the NM Office of the State Engineer – iWATERS database indicated that there are two wells with depth to ground water data available in the entire township. The closest water well reported was in Section 22, T25N, R10W which is approximately 2.0 miles northwest of the Tsah Tah SWD #36 location. This well was drilled to a depth of 250 feet with the top of the water column at 250'.

Geologic maps of the area indicate that the surface formation at the proposed well site is the San Jose formation. The San Jose Formation of Eocene age occurs in New Mexico and Colorado and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado – New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone and variegated shale. Thickness of the San Jose Formation generally increases from west to eat (200 feet in the west and south to almost 2,700 feet in the center of the structural basin).

Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modification, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unity are sandy and highly permeable and therefore readily absorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge of the unit.

Stone et al, 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70p

Site specific information:

Surface hydrology:

1st water-bearing formation: Formation thickness: Underlying formation: Depth to groundwater: The site is located at the top of the Da-Na-Zin watershed and is drained by a number of small intermittent drainages San Jose, tertiary 200 - 700 feet Nacimiento, Tertiary The closest well has a depth to groundwater of 250'.

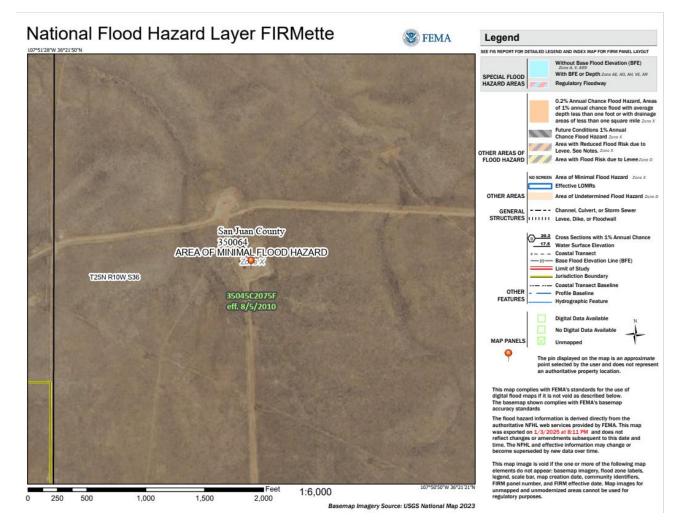
FEMA Map – 100 year floodplain

The attached FEMA Map indicates that the proposed location is well outside 100 year floodplain. The Fish and Wildlife Wetlands Map is not digitized for this area but it is obvious from the topo map and arial photographs that the area is not in a wetlands.

Siting Criteria Compliance Demonstrations

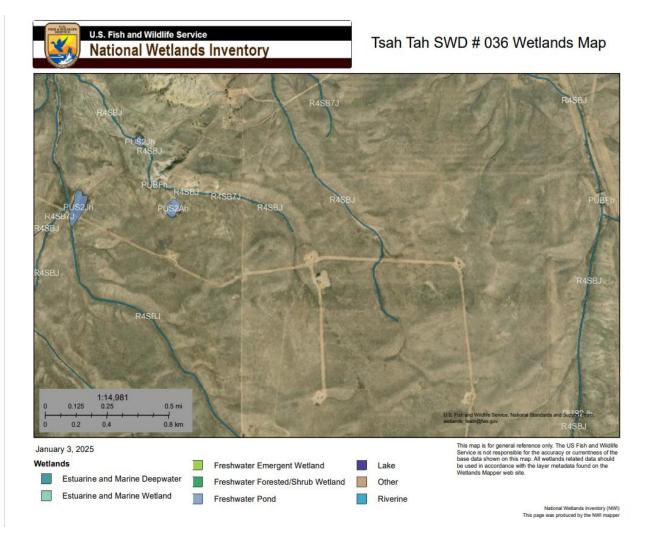
The Tsah Tah SWD #36 is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse.

Tsah Tah SWD # 036 FEMA MAP:

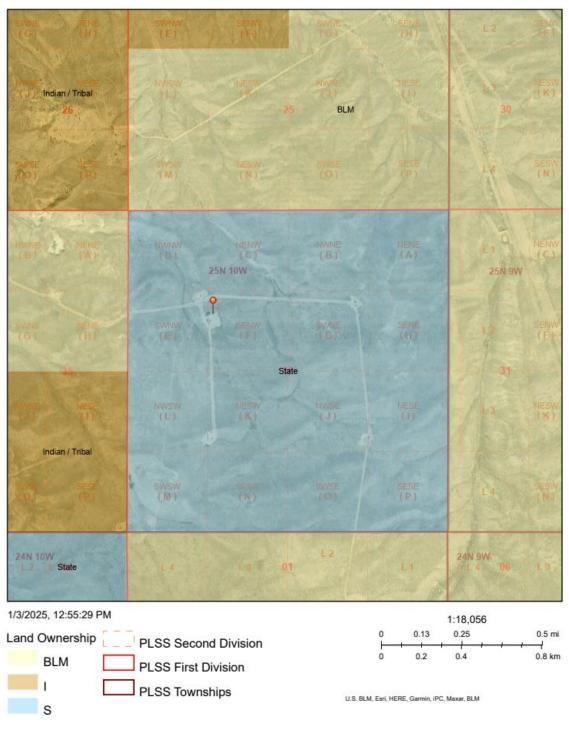




Tsah Tah SWD # 036 Wetlands Map:



Tsah Tah SWD # 036 Mine Map:



Tsah Tah SWD # 036 Mine Map

EMNRD MMD GIS Coordinator NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974684d689b47790897ca2795)

Tsah Tah SWD # 036 Distance to Significant Watercourse:



Tsah Tah SWD # 036 - Watercourse Distance Map

Dugan Production Corp

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WELLS

GAS

RIVERS, STREAMS, WASHES

Ephemeral/Intermittent

Tsah Tah SWD # 036 NMSOE iWaters Data:

New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)			(quarte to large	rs are sn est)	nallest								(In feet)	1
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	x	¥	Мар	Well Depth	Depth Water	Water Column
<u>SJ 04372 POD1</u>		sj	sj	SE	SW	SW	36	25N	10W	243723.6	4026649.6	•	600	430	170

Average Depth to Water: 430 feet

Minimum Depth: 430 feet

Maximum Depth: 430 feet

Record Count: 1

Basin/County Search: County: SJ

PLSS Search: Range: 10W Township: 25N Section: 36

* UTM location was derived from PLSS - see Help

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

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Water Column/Average Depth to Water

TSah Tah SWD # 036 USGS Data:

USGS 362108107541201 25N.10W.33.34233

San Juan County, New Mexico Latitude 36°21'08.06", Longitude 107°54'15.16" NAD83 Land-surface elevation 6,845 feet above NAVD88 The depth of the well is 5,398 feet below land surface. The depth of the hole is 5,450 feet below land surface. This well is completed in the Colorado Plateaus aquifers (N300COPLTS) national aquifer.

Date	٥	Time 0	Ø Water-level date-time accuracy	Parameter \$	Water level, feet below land surface
	1986-05-15		D	62610	
	1986-05-15		D	62611	
	1986-05-15		D	72019	846.00
	2019-05-28	20:47 UTC	m	62610	
	2019-05-28	20:47 UTC	m	62611	
	2019-05-28	20:47 UTC	m	72019	916.85

TSah Tah SWD # 036 Closure Plan:

Rosetta Resources Operating LP San Juan Basin Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of below grade tanks on Rosetta Resources Operating LP locations. This is Rosetta's standard procedure for all below grade tanks. A Separate plan will be submitted for any below grade tank which does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of the below grade tank closure. Closure report will be filed on C-144 and incorporated the following:

- · Detail on Capping and Covering, where applicable
- Plot Plan (Below grade tank diagram)
- Inspection reports
- Sampling Results
- C-105
- · Copy of Deed Notice will be filed with County Clerk

General Plan

- 1 Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally, The notification of closure will include the following:
 - Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API Number
- 2 All free standing liquids will be removed at the start of the below grade tank closure process and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves
- 3 Rosetta will remove the below grade steel tank and recycle, reuse, or reclaim it in a manner that the NMOCD Division district office approves
- 4 Any on-site equipment associated with the below grade tank will be removed unless it is required for some other purpose
- 5 The gravel base and geotextile membrane will be removed and disposed of in a division approved facility
- 6 A five point composite sample will be taken of the soil beneath the below grade tank to determine if a release has occurred. The sample will be analyzed for benzene, BTEX, TPH, and chlorides as per the requirements of 19.15.17.13(E)(4). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
Chlorides	EPA 300.1	250

- 7 If the sampling program demonstrates that the above criteria are met, the Rosetta will backfill the excavation with compacted, non-waste containing soil, and shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater
- 8 Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Reshaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape
- 9 Notification will be sent to OCD when the reclaimed area is seeded
- 10 Rosetta shall seed the distributed areas the first growing season after the operator closes the pit. Re-vegetation efforts shall comply with Subsections G,H, and I of 19.15.17.13 NMAC. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixed will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover thorough twp successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs

Appendix C: Below Grade Tank Design and Construction Plan

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Below Grade Tank and Containment Specifications:

Rosetta Resources Operating LP San Juan Basin Below Grade Tank Design and Construction Plan

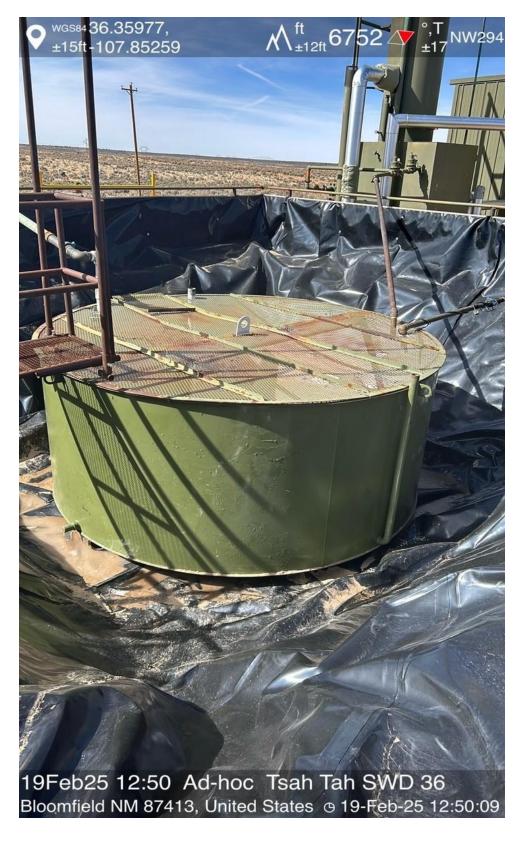
In accordance with Rule 19 15 17 the following information describes the design and construction for below grade tanks on Rosetta Resources Operating LP locations; this is Rosetta's standard procedure for all below grade tanks. A separate plan will be submitted for any below grade tank which does not conform to this plan.

General Plan

- 1 Rosetta will design and construct a below grade tank to contain liquids and solids and prevent contamination of fresh water and protect public health and environment
- 2 Prior to constructing the below grade tank, topsoil will be stockpiled in the construction zone for later use in restoration
- 3 Rosetta will post a well sign, not less than 12' by 14', on the well site prior to construction of the below grade tank. The sign will list the operator on record as the operator, the location of the well by unit letter, section, township rang, and emergency telephone numbers
- 4 Rosetta shall construct all new fences unitizing 48' steel mesh field-fence (hogwire) on the bottom with 1" pipe top rail which will be welded to the top of the T-posts. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Below grade tanks will be fenced at all times
- 5 Rosetta shall construct the below grade tank pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure
- 6 Rosetta shall place a 60 mil HDPE geomembrane liner on the bottom of the pit for leak detection. The liner will be resistant to petroleum hydrocarbons, salts, and acidic and alkaline solutions. The liner will also be resistant to ultraviolet light and comply with EPA SW-846 method 9090A requirements.
- 7 The geomembrane liner will be covered by at least 6 inches of ¾" gravel.
- 8 A single wall steel tank with expanded metal top will be placed in the pit and on top of the gravel so that the sides of the steel tank are exposed for visual inspection
- 9 An automatic high level shut off devise will be installed as well as the manual shut off valve.
- 10 The pit shall be protected from run-on by constructing and maintaining berms around the perimeter of the pit

Appendix D: Photo Documentation

Photo 1: Below Grade Tank Replacement





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

Operator:	OGRID:	
DUGAN PRODUCTION CORP	6515	
PO Box 420	Action Number:	
Farmington, NM 87499	438311	
	Action Type:	
	[C-144] Below Grade Tank Plan (C-144B)	

Created By	Condition	Condition Date
joel.stone	The operator shall install, or maintain on site, an oil absorbent boom or other device to contain an unanticipated release.	3/7/2025
joel.stone	All future C-144 Form submittals related to this below-grade tank must include OCD Permit Number: "BGT2" in Section 1 of the C-144 Form.	3/7/2025

CONDITIONS

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Action 438311