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

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

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

<u>Pit, Below-Grade Tank, or</u> Proposed Alternative Method Permit or Closure Plan Application

BGT1 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 Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request ease 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
vironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1. Operator:
Address: PO Box 420, Farmington, NM 87499-0420
Facility or well name: Betty C 31 #2
API Number: 30-039-22634 OCD Permit Number:
U/L or Qtr/Qtr O Section 31 Township 24N Range 7W County: Rio Arriba
Center of Proposed Design: Latitude <u>36.2657547</u> Longitude <u>-107.6118927</u> NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2. □ Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: □ Drilling □ Workover □ Permanent □ Emergency □ Cavitation □ P&A □ Multi-Well Fluid Management □ Low Chloride Drilling Fluid □ yes □ no
□ Lined □ Unlined Liner type: Thicknessmil □ LLDPE □ HDPE □ PVC □ Other □ String-Reinforced Liner Seams: □ Welded □ Factory □ Other Volume:bbl Dimensions: Lx Wx D
☐ String-Reinforced
String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 3.
String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 3. Below-grade tank: Subsection I of 19.15.17.11 NMAC
String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 60 bbl Type of fluid: Produced Water
String-Reinforced Liner Seams:
String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 60 bbl Type of fluid: Produced Water Tank Construction material: Steel Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
String-Reinforced Liner Seams:
String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 60 bbl Type of fluid: Produced Water Tank Construction material: Steel Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other +Leak Detection Liner type: Thickness 20 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.
String-Reinforced Liner Seams:
String-Reinforced Liner Seams:
String-Reinforced Liner Seams:

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)	
5igns: 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	
Nation State Stat	
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 accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
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
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

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	
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	☐ 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	
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 Previously Approved Design (attach copy of design) API Number: Or Permit Number: Or Permit Number: Or Permit Number:		
II.		
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. 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 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC		

	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 H ₂ S, 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	
Ī	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 F	luid Management Pit
	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	
l	Alternative Closure Method	
	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	
L		
	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 sour 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.	☐ Yes ☐ No
	- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	
	Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
	Within 300 feet of a wetland. 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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure 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 19.15.1 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 car 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	7.11 NMAC 9.15.17.11 NMAC
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 be Name (Print): Kevin Smaka, PE Title: Regulatory Engineer Date: 10-23-23	elief.
e-mail address: Kevin.Smaka@duganproduction.com Telephone: 505-325-1821 x1049	
OCD Approval: Permit Application (including closure plan) \(\) Closure Plan (only) \(\) OCD Conditions (see attachment) OCD Representative Signature: Victoria Venegas Approval Date: 10/3	31/2023
Title:Environmental Specialist OCD Permit Number:BGT1	~ 10
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 submittin The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do n 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- If different from approved plan, please explain.	-loop systems only)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please 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: 192	47 🔲 1983
Form C-144 Oil Conservation Division Page 5 o	of 6

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted wi	th 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 of	closure requirements and conditions specified in the approved closure plan.
1 11	
Name (Print):	Title:
Signature:	Date:
a mail addrass:	Talanhana
e-mail address:	Telephone:

Below Grade Tank Closure Plan

Dugan Production Corp.

As directed by NMAC 19.15.17 the following plan/procedure has been prepared for closure of the below grade tank identified on the associated C-144.

- 1. Dugan will provide notice via-email to the NMOCD 72 hours prior to commencing closure activities. Dugan will also notify the appropriate surface owner by e-mail if possible or by certified letter.
- 2. Dugan will close the pit, drying pad or below-grade tank by first removing all contents and, if applicable, synthetic liners and transferring those materials to a division approved facility. In this case Dugan will haul solid waste to Envirotech (Permit # NM-01-0011). Liquid waste will be hauled to Dugan's Sanchez O'Brien SWD #1 (Permit # SWD-694). If needed the pit liner will be disposed of at Waste Management's Crouch Mesa facility.
- 3. Dugan will take a composite 5-point soil sample underneath the BGT liner, grabbing stained and wet soils. The samples will be taken to a local lab and analyzed for BTEX, TPH and Chlorides. If the sample results do not exceed the limits in the applicable portion of table 1, found in NMAC 19.15.17, Dugan will continue with closure by backfilling the BGT vault and commencing reclamation activities. In the event the sampling results exceed the limits in table 1 Dugan will further delineate and remediate the soils in the BGT vault until samples are in the limits established in Table 1.

	TA	ABLE I	
Depth Below bottom of pit to groundwater less than 10,000 mg/I TDS	Constituent	Method	Limit
	Chloride	EPA 9056	600 mg/kg
	TPH	Method 418.1	100 mg/kg
	BTEX	Method 8021B	50 mg/kg
<u><</u> 50 Feet	Benzene	Method 8021B	10 mg/kg
	Chloride	EPA 9056	10,000 mg/kg
	TPH	Method 418.1	2,500 mg/kg
	GRO + DRO	Method 8015	1,000 mg/kg
	BTEX	Method 8021B	50 mg/kg
51 feet - 100 feet	Benzene	Method 8021B	10 mg/kg
	Chloride	EPA 9056	20,000 mg/kg
	TPH	EPA 418.1	2,500 mg/kg
	GRO + DRO	Method 8015	1,000 mg/kg
	BTEX	Method 8021B	50 mg/kg
> 100 feet	Benzene	Method 8021B	10 mg/kg

- 4. All areas disturbed by the closure of pits and below-grade tanks, except areas reasonably needed for production operations or for subsequent drilling operations, shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.
- 5. Topsoil and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season following closure of a pit, drying pad associated with a closed-loop system or below-grade tank.

- 6. Reclamation of all disturbed areas no longer in use shall be considered complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.
- 7. Other regulatory requirements. The re-vegetation and reclamation obligations imposed by other applicable federal or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment.
- 8. The operator shall notify the division when reclamation and re-vegetation are complete.
- 9. Concerning soil cover designs for closures after site contouring, where the operator has removed the below-grade tank or drying pad contents and liner, and if necessary, remediated the soil beneath the below-grade tank or drying pad liner to chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, shall consist of the background thickness of topsoil or one foot of suitable material, whichever is greater.
 - Dugan has elected to submit this closure plan without any depth to groundwater and citing information and has elected to have all sampling results conducted at the most stringent standards of table 1.
 - In the event samples exceed the allowable limits Dugan will review the results and correlate the results with actual groundwater data. The groundwater determination will also be submitted to the division. In the event the soil samples fall below the allowed limits in table 1 Dugan will proceed with closure and reclamation as outlined in this closure plan. If the samples exceed the limits Dugan will delineate and remediate the contaminated soil in question until it meets the thresholds established in table #1.
 - Dugan has included with this C-144 submittal the original C-144 registration found in Dugan's records. This original is included as it contains a depth to groundwater determination and citing information that is pertinent to this action.



dugan production corp.

October 24, 2023

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

Betty C 31 #2 (30-039-22634)

To Whom It May Concern,

Dugan Production Corp. (DPC) is submitting a Closure Plan for the referenced well and would like to also submit the C-144 Closure Plan that was submitted on 10/19/2008, (signed by Kurt Fagrelius). This document was not scanned into the NMOCD records and DPC is submitting now to reflect that it had been submitted in a timely manner as required by NMOCD rules.

Dugan Production Corp. previously submitted C-144's not in NMOCD database

Sincerely,

Re:

Kevin Smaka, PE

Regulatory Engineer

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-144 July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

Type of action: below-grade tan	 ☒ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method ☐ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method ☐ Modification to an existing permit ☒ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, x, or proposed alternative method
Instructions: Please submit	one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
advised that approval of this re	equest does not relieve the operator of liability should operations result in pollution of surface water, ground water or the

Please be advised th environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

Address: 709 East Murray Drive, Farmington, New Mexico 87401 Facility or well name: Betty C Tank Battery 22 Beff C-31 2 API Number: 30-039-22634 OCD Permit Number: U/L or Qtr/Qtr O
Facility or well name: Betty C Tank Battery or Betty C-31 **2 API Number: 30-039-22634 OCD Permit Number: U/L or Qtr/Qtr O Section 31 Township 24N Range 7W County: Rio Arriba Center of Proposed Design: Latitude 36.26591 North Longitude 107.61125 West NAD: X 1927 1983 Surface Owner: Federal State Private Tribal Trust or Indian Allotment 2. Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 3. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other
API Number:
U/L or Qtr/Qtr O Section 31 Township 24N Range 7W County: Rio Arriba Center of Proposed Design: Latitude 36.26591 North Longitude 107.61125 West NAD: \$\textstyle{\t
Center of Proposed Design: Latitude 36.26591 North Longitude 107.61125 West NAD: \$\times 1927 \cap 1983\$ Surface Owner: \$\ \text{Federal} \cap \text{State} \times \text{Private} \cap \text{Tribal Trust or Indian Allotment}\$ 2. \$\ \text{Pit:} \text{ Subsection F or G of 19.15.17.11 NMAC}\$ Temporary: \$\ \text{Drilling} \cap \text{Workover}\$ \$\ \text{Permanent} \cap \text{Emergency} \cap \text{Cavitation} \cap \text{P&A}\$ \$\ \text{Lined} \cap \text{Unlined Liner type: Thickness} \cdots \text{mil} \cap \text{LLDPE} \cap \text{HDPE} \cap \text{PVC} \cap \text{Other}\$ \$\ \text{String-Reinforced}\$ \$\text{Liner Seams:} \cap \text{Welded} \cap \text{Factory} \cap \text{Other} \cdots \text{Volume:} \text{bbl} \text{ Dimensions: L} \text{x W} \text{x D} \rightarrow \text{Type of Operation:} \text{P&A} \text{Drilling a new well} \text{Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)} \text{Dryping Pad} \text{Above Ground Steel Tanks} \text{Haul-off Bins} \text{Other} \text{Other} \text{Above Ground Steel Tanks} \text{Haul-off Bins} \text{Other} \text{Dryping Pad} \text{Above Ground Steel Tanks} \text{Plaul-off Bins} \text{Other} \text{Above Ground Steel Tanks} \text{Plul-off Bins} \text{Other} \text{Plul-off Bins} \text{Plul-off Bins} \qq
Surface Owner:
☐ Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: ☐ Drilling ☐ Workover ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Lined ☐ Unlined Liner type: Thickness
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Lined Unlined Liner type: Thicknessmil LLDPE
String-Reinforced Liner Seams:
Liner Seams: Welded Factory Other Volume:bbl Dimensions: Lx Wx D
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other
□ Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: □ P&A □ Drilling a new well □ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) □ Drying Pad □ Above Ground Steel Tanks □ Haul-off Bins □ Other □
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other
intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Liner Seams: Welded Factory Other
4.
Volume: 60 bbl Type of fluid: Producer H2O
Tank Construction material: Steel (See Closure Plan #3)
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
▼ Visible sidewalls and liner □ Visible sidewalls only □ Other + Leak detection
Liner type: Thickness 20mil X HDPE PVC Other
5.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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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, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify 4' = 3' Hog wire + 1 Strand barbed wire + Top Rail	hospital,	
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)		
8. Signs: Subsection C of 19.15.17.11 NMAC X 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.3.103 NMAC		
9. Administrative Approvals 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: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office 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. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No	
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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes X No	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 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 X 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	
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes X No	
Within an unstable area. - Engineering meæures 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 X No	

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:
Closed-loop Systems 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. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - 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:
☐ Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure) 13.
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 H ₂ S, 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
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 Closed-loop System 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
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 Onfirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F 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 G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachme facilities are required.	
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for futu Yes (If yes, please provide the information below) No	e service and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	NMAC
17. 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 provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	e district office or mav be
Ground water is less than 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 between 50 and 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
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 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or pl lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	aya 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinan adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	e 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
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 Geologica Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure 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 F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements 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 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 F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	of 19.15.17.11 NMAC C

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19.	
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, as	ccurate and complete to the best of my knowledge and belief.
Name (Print): Kurt Fagrelius	
	Time. Vice Hebitadie, Exploración
Signature: Kurt Fegurlin	Date: October 19, 2008
e-mail address: kfagrelius@duganproduction.com	Telephone: 505-325-1821(0), 505-320-8248(C)
20.	_
OCD Approval: Permit Application (including closure plan) Closur	re Plan (only) U OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Tido	OCD Barrel Number
Title:	OCD Permit Number:
21. Closure Report (required within 60 days of closure completion): Subsect Instructions: Operators are required to obtain an approved closure plan pr The closure report is required to be submitted to the division within 60 days section of the form until an approved closure plan has been obtained and the	ior to implementing any closure activities and submitting the closure report. of the completion of the closure activities. Please do not complete this
	Closure Completion Date:
22. Closure Method: Waste Excavation and Removal □ On-Site Closure Method □ Alt If different from approved plan, please explain.	ternative Closure Method Waste Removal (Closed-loop systems only)
two facilities were utilized.	drilling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name:	
Disposal Facility Name:	
Were the closed-loop system operations and associated activities performed o ☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No	on or in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and open Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	erations:
24. Closure Report Attachment Checklist: Instructions: Each of the following 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) 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)	* I
	ngitude NAD:
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closubelief. I also certify that the closure complies with all applicable closure requ	ure report is true, accurate and complete to the best of my knowledge and irements and conditions specified in the approved closure plan.
Name (Print): Kurt Fagrelius	Title: Vice President, Exploration
Signature:	Date: October 19, 2008
e-mail address: kfagrelius@duganproduction.com	Telephone: 505-325-1821

Betty C Tank Battery (On Betty C-31 #2) Hydrogeologic Report

The Betty C Tank Battery (On Betty C-31 #2) is located on Private land on the Chaco Slope area of the southeast San Juan Basin, in Rio Arriba County, New Mexico. The area is characterized by a large, arid mesa to the east that has 400 feet of relief above Blanco Wash and Highway 550 to the southwest. Thick stands of juniper, pinon and occasional ponderosa are common on the mesa top and sparse grass and sage are common on the low lying areas. It is well drained to the west by Blanco Wash and numerous small arroyos that transport water into it during seasonal periods (rainstorms and snowmelt).

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the Betty C Tank Battery (On Betty C-31 #2) location (Exhibit 2). Eight water wells were located in the search area. The closest water well is 3,900 feet to the northwest and was drilled to a total depth of 185 feet, the top of water was not reported. A second well 7,000 feet to the west was drilled to a depth of 250 feet, the top of water was not reported. No other information was available for any of the wells. The results of the search are shown on Exhibit 1.

The main source of stock water in the region is encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 15-50 feet below the surface and stock tanks constructed on surface shale in the upper reaches and confluences of arroyos. The below grade tank is not located in an arroyo. The closest arroyo is located 100 feet northwest of the below grade tank (Exhibit 2) (See Visual Inspection Certification).

The Nacimiento Formation extends from the surface down to a depth of approximately 1320 feet. From surface down to a depth of 650 feet, the interval consists primarily of mudstone / shale with a trace of siltstone (430-455, 510-525 and 550-570 feet). From 650 feet down to a depth of 1320 feet, there are numerous (8) shaly sands (20-50 feet thick) which have good reservoir qualities and could contain poor quality groundwater.

The Nacimiento is a source of ground water for livestock purposes and more rarely domestic use in some areas near the outcrop. With depth and distance from the outcrop, water quality decreases quickly and may be useful for livestock only. Due to the high silt content in the sands, poor reservoir quality and unpredictable nature of sand occurrence, the Nacimiento is not expected to contain significant quantities of ground water in the area of the proposed below grade tank.

The underlying Ojo Alamo Sandstone ranges from approximately 1320 feet down to a depth of approximately 1460 feet and is comprised of a coarse grained alluvial sandstone inter-bedded with lenses of mudstone and occasional conglomeratic sandstone.

Based on electric open hole logs, the iWATERS database, literature reviewed, poor quality groundwater might be found at a depth below 430 feet from thin, discontinuous siltstone in the Nacimiento Formation. However, the lower Nacimiento sand from 650-1320 and underlying Ojo Alamo Sandstone (1320-1460) are capable of producing a larger volume of better quality groundwater.

This Hydrogeologic Report was prepared by Mr. Kurt Fagrelius, Geologist for Dugan Production. Mr. Fagrelius has been employed as a geologist for Dugan for the past 31-years, received a MS in Geology from NMIMT in Socorro, NM and a BS in Geology from FLC in Durango, CO.

- Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.
- Brown, D.R., and Stone, W.J., 1979, Hydrogeology of Aztec quadrangle, San Juan County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrogeologic Sheet 1.
- Levings, G.W., Craigg, S.D., Dam, W.L. Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S. Geological Survey, Atlas HA-720-A, Sheet 1 and 2.
- Thorn, C.R., Levings, G.W., Craigg, S.D., Dam, W.L., and Kernodle, J.M., 1990, Hydrogeology of the Ojo Alamo Sandstone in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S.G.S, Atlas HA-720-B, Sheet 1 and 2.

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Owner Name: (First)	(Last)		Non-Do	mestic	Domestic	e All
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New Mexico Office of the State Engineer POD Reports and Downloads

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	NAD27	X:	Y:	Zone:	Search Radius:		

WATER COLUMN REPORT 10/19/2008

	(quarter	s are	9 1=	NW	2=	=NE	3=SW 4=SE	:)					
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POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well	Water	Column	
SJ 00960 S	24N	08W	36	3	1	3							
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SJ 00960 S-2	24N	08W	36	3	2	3							
SJ 00960	24N	08W	36	3	3	3							
SJ 00960 S-3	24N	08W	36	3	4	2							

Record Count: 5

New Mexico Office of the State Engineer POD Reports and Downloads

Township:	23N Range	: 08W	Sections: 1				
NAD27 X:	Y:		Zone:	Searc	h Radius:		
County:	Basin:			Number:	S	uffix:	
Owner Name: (First)		(Last)		Non-D	omestic	Domestic	All
POD / Surface Data	Report	Avg	Depth to Water	Report	Water	Column Report	
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WATER COLUMN REPORT 10/19/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Water (in feet) POD Number X Tws Rng Sec q q q Zone Well Column Water SJ 01334 23N 08W 01 2 90 40 50 SJ 01304 23N 08W 01 100

Record Count: 2

New Mexico Office of the State Engineer POD Reports and Downloads

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PC	DD / Surfac	e Data	Report		Āνg	Depth to	Water I	Report		Water	Column Repo	nt	
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No Records found, try again

Siting Criteria for the Betty C Tank Battery Below Grade Tank

- 1. Ground water is not less than 50-feet below the bottom of the below grade tank. Ground water is greater than 100-feet below the bottom of the below grade tank (See Hydrogeologic Report).
- 2. The below grade tank is not within 300-feet of a continuously flowing water course but is within 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from ordinary high water mark). The closest arroyo is 100 feet to the northwest. See the attached Topographic map (Exhibit 2) and Visual Inspection Certification of the location and area around the subject below grade tank.
- 3. The below grade tank is not within 300-feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. See the attached Satellite Image (Exhibit 3) and Visual Inspection certification of the location and area around the subject below grade tank.
- 4. The below grade tank is not within 500-feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. See the attached NM Office of the State Engineer iWATERS database search (Exhibit 4) and Visual Inspection certification of the location and area around the subject below grade tank.
- 5. The below grade tank is not located within the 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. See the attached Topographic map of the location and area around the subject below grade tank.
- 6. The below grade tank is not located within 500-feet of a wetland. See the attached Topographic map and Visual Inspection Certification of the location and area around the subject below grade tank.
- 7. The below grade tank is not located within the area overlying a subsurface mine. See the attached Mine, Mills and Quarry Map of New Mexico (New Mexico, EMND 2008) (Exhibit 5) showing the location and area around the subject pit.
- 8. The below grade tank is not located within an unstable area. See the attached Topographic map of the location and area around the subject below grade tank.
- 9. The below grade tank is not located within a 100-year floodplain area. See the attached FEMA map (Exhibit 6) of the 100 year floodplain showing the location and area around the subject pit.

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Betty C Tank Battery Below Grade Tank Visual Inspection Certification

I, Kurt Fagrelius, Vice President of Exploration for Dugan Production Corp. 709

East Murray Drive, Farmington, New Mexico hereby certify that I or persons under

my direct supervision, prepared the attached exhibits and conducted a Visual

Inspection of the location and area around the Betty C Tank Battery below grade

tank (July 28, 2008).

The location of the Betty C Tank Battery below grade tank is not in full

compliance with all siting criteria and standards for below grade tanks established

by the State of New Mexico, Energy Minerals and Natural Resources Department

19.15.17.10 NMAC. There is a very small arroyo within 200 feet of the below

grade tank (100 feet northwest).

Although this below grade tank does not meet the siting criteria in 19.15.17.10

NMAC, it is an existing below grade tank (inexistence prior to June 16, 2008) that

will be closed and replaced with one that meets the design and construction

requirements in 10.15.17.11 NMAC (Exhibit 7).

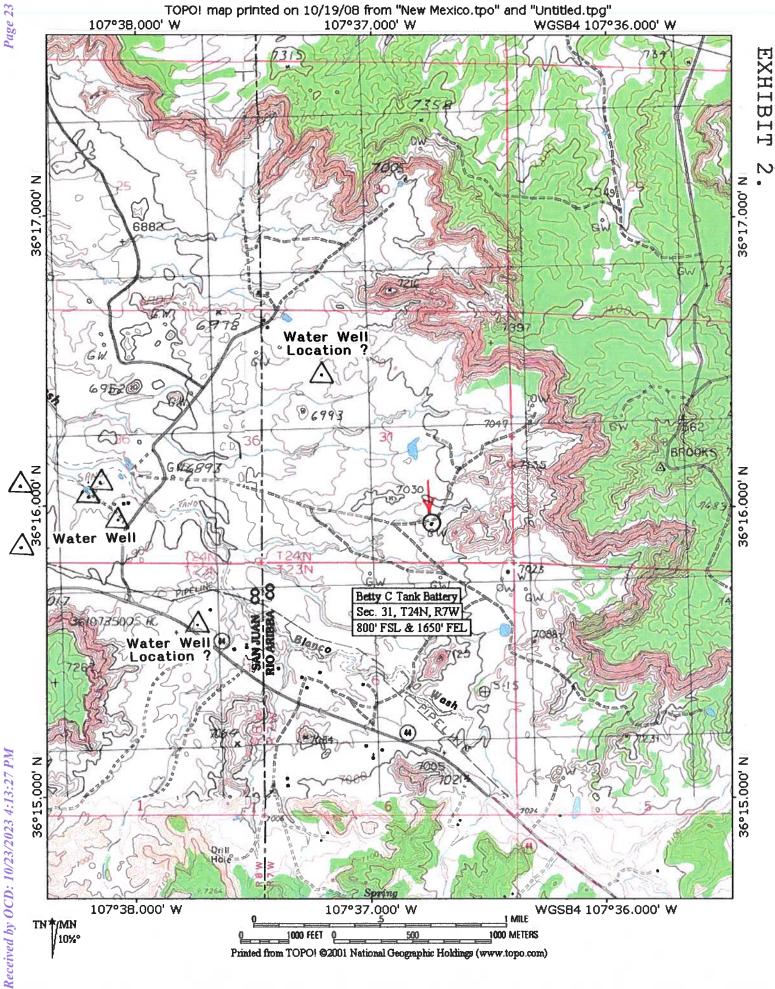
Kurt Fagrelius

Kurt Fagrelius

November 5, 2008

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Date





Record Count: 1

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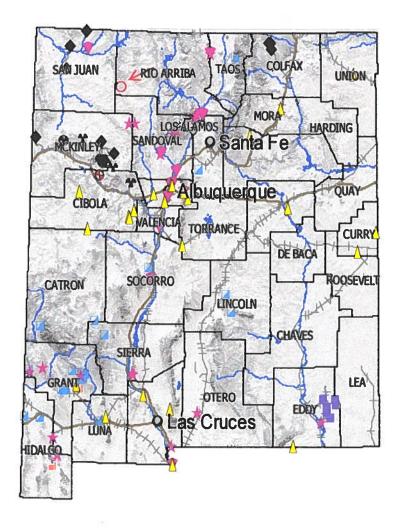
	<i>Mexico Office of the State</i> POD Reports and Downl				
Township: 24N Range	e: 07W Sections: 31				
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County: Basin:	No.	Number:	Suf	ffix:	
Owner Name: (First)	(Last)	Non-Do	mestic	Domestic	All
POD / Surface Data Report	Avg Depth to Water F	Report	Water Co	olumn Report	
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New Mexico Office of the State Engineer POD Reports and Downloads

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		WATER	COLUMN REPORT 1	0/19/2008			
POD Number	(quarters	are 1=NW 2=NE are biggest to Rng Sec q q q	•	Dept Y Well	_	Water (in	n feet)

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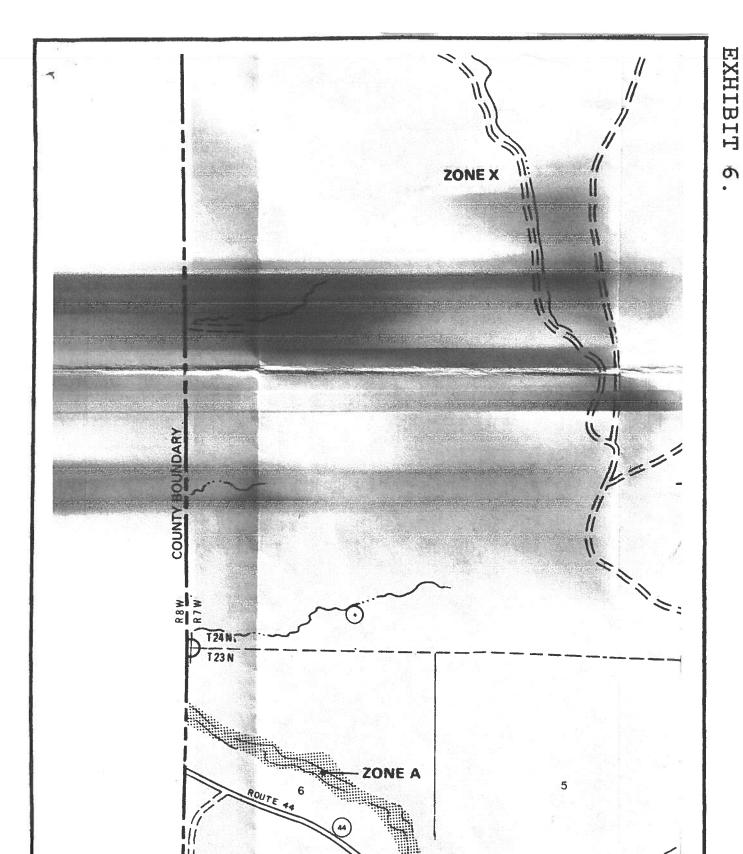
Mine, Mills and Quarry Map of New Mexico

Dugan Production Corp.

Betty C Tank Battery

Taken from the New Mexico Energy, Minerals and Natural Resources Department.

Mining and Minerals Division.



FEMA 100-Year Floodplain Map Betty C Tank Battery

Betty C Tank Battery Below Grade Tank Design and Construction Plan

The Betty C Tank Battery below grade tank will be designed and constructed in accordance with the following requirements:

- 1. Below grade tank will be designed and constructed to contain liquids and solids, prevent contamination of fresh water and protect the public health and environment (Exhibit 7).
- 2. Stockpile topsoil prior to digging below grade tank vault, keep separate from subsoil and use as final cover and fill when closing below grade tank vault.
- 3. Sign-12" by 24" with operator name, lease name, well #, location (unit letter, qtr/qtr, Sect., Twp., and Rge.) and emergency phone #'s will be posted on location. Sign will be posted in a location where it can be easily read.
- 4. Fencing around the Betty C Tank Battery below grade tank will be constructed and operated in a manner that prevents unauthorized access and shall be maintained in good condition to protect the public and wildlife. Fencing will include a 4-foot hog wire fencing with two strands of barbed wire or top rail of re-bar or pipe on top. See the attached request for Administrative Approval. If the Betty C Tank Battery below grade tank were located within 1000 feet of a house, school, hospital or church, a chain link fence at least six feet in height with at least two strands of bared wire on top would be constructed.
- 5. The Betty C Tank Battery below grade tank will be covered with steel, expanded metal or chicken wire for screening or netting on top of the tank.
- 6. Betty C Tank Battery below grade tank will be designed and constructed to ensure the confinement of liquids and prevent unauthorized releases. Pit will be constructed with a firm, level foundation and interior slopes, smooth and free of rocks or sharp edges to prevent punctures, cracks or indentations of the liner or tank bottom. Slope walls of the below grade tank vault will be constructed with a 3'vertical x 1' horizontal slope to prevent collapse of the walls. Dependent on soil conditions, 2"x12" pre-treated lumber will be used as needed to insure integrity of vault walls. Properly operating, high level shut off valve and manual control valves will be installed (valve will close when fluid reaches 12 inches from top of tank) to prevent overflow of tank. Berms (24 inches in height) will be constructed around the perimeter of the below grade tank vault to prevent overflow of the tank vault in the event the high level shut off valve fails and the below grade tank overflows and also prevent the collection and entrapment of surface water.
- 7. Betty C Tank Battery below grade tank will be constructed of materials resistant to the tank's particular contents and resistant to damage from sunlight. Tank will be API rated and constructed of carbon steel with a wall thickness of ¼".
- 8. Liner will be 30-mil flexible PVC or 60-mil HDPE, string reinforced, impervious material, resistant to UV light, hydrocarbons, salt, acidic or basic liquids. The liner will have a hydraulic conductivity less than 1 x 10-9 cm/sec. Liner compatibility will comply with EPA SW-846 Method 9090A. A specification sheet on properties of liner material to be used will be provided to the NMOCD prior to installation.

EXHIBIT 24" Berm to Prevent Surface of 2" X 1/8" Angle Iron and Perforated Walk-Way Material. Walkway/Bridge With Steps and Handrail, Constructed Below Grade Tank Vault Wall insure integrity of vault walls Pre-Treated Lumber will be used as needed to Dependent on Soil Conditions, 2" x 12" Slope of Vault Walls Will Be 3'-Vert/1'-Horiz. Free of Rocks, Below Grade Tank Vault-Firm, Level Foundation Slope=3:1Run-On. Debris or Irregularities hammannan 11 Inspection Point Visual Dugan Production Corp. Betty C Tank Battery Steel, Expanded Metal or Chicken Wire for Screening or Netting **₩** 3" Load Line Below Grade Tank-Single Wall, Constructed Minimum 6" Lift Above Underlying Liner Walls and Liner. Tank will have a of 1/4" Carbon Steel, API Rated, Visible Vault. Tank Volume 60 bbls, Depth 6 Feet and Set-Back at least 24" from Walls of Liner Constructed of 30-mil PVC or 60-mil HDPE. May have 1/2" Gravel on Top of Liner. High Level Shut-Off Valve Set for 12" Freeboard. to Compressor or Prod Unit. Wire or 1/4" Tbg Connect Ground Level Manual Shut-Off Valve

- 9. The Betty C Tank Battery below grade tank will be constructed with single walled sides and bottom, which will be open for visual inspection for leaks. The below grade tank will be elevated a minimum of 6-inches above the underlying ground surface and set back at least 24" from walls of vault. The below grade tank will be underlain with a geomembrane liner designed to divert any leaked fluid to a visual inspection point. Liner may be covered with gravel.
- 10. The Betty C Tank Battery below grade tank will be equipped with a properly operating automatic high-level shut-off control device (valve will close when fluid reaches 12 inches from top of tank) and manual controls to prevent overflows.
- 11. Diversionary berms, ditches or sloping will be constructed as necessary to prevent overflow and the collection of surface water entrapment.
- 12. A walkway/bridge with steps and handrail, will be constructed of 2"x1/8" angle iron and perforated walkway material to provide personnel access to the top of below grade tank.

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Betty C Tank Battery Below Grade Tank Maintenance and Operation Plan

The Betty C Tank Battery below grade tank will be maintained and operated in accordance with the following requirements:

- 1. The Betty C Tank Battery below grade tank will be operated and maintained to contain liquids and solids and maintain the integrity of the tank / liner system or secondary containment system to prevent contamination of fresh water and protect public health and environment. Design features which include containment berms and high level shut off valves and manual shut off valves will be constructed to insure containment of liquids and solids (Exhibit 7). Steel tank will be set level, with a minimum of 6 inches of lift underlain by a liner (sloped to one corner) on top of a firm, smooth foundation bottom (vault floor) will be constructed providing visual leak detection to insure tank integrity.
- 2. All fluids collected in the below grade tank and below grade tank vault will be recycled, reused, reclaimed or disposed of in a manner approved by NMOCD rules.
- 3. Do not dispose of solid waste, trash, debris or hazardous material into the below grade tank or the below grade tank vault.
- 4. If the Betty C Tank Battery below grade tank develops a leak or if a penetration occurs below the liquids surface, all liquid will be removed above the damage or leak line within 48-hours. The NMOCD office will be notified within 48-hours of the discovery. The below grade tank / liner system or secondary containment system will then be either modified, retrofitted or replaced in accordance with Subsection I of 19.15.17.11 NMAC. If applicable, the replacement or retrofit below grade tank / liner system or secondary containment system will meet the design and construction requirements of rule 19.15.17.11 NMAC.

In the event a spill or undesirable event occurs, the provisions of rule 19.15.3.116 NMAC may apply. If considered a "Major Release" (any fluid greater than 25-bbls; any volume which results in fire, or will reach a water course, or may endanger public health, or results in substantial property or environmental damage; any gas greater than 500-mcf; any volume detrimental to water or exceeding established standards) verbal notice will be provided to the NMOCD Santa Fe Environmental Bureau Chief (Wayne Price at 505-476-3490) and Aztec District OCD (Brandon Powell at 505-334-6178) offices within 24-hours of discovery of leak, plus written notice will be provided to the NMOCD Aztec and Santa Fe Environmental Bureau within 15-days after discovery, using C-141. If considered a "Minor Release" (any fluid greater than 5-bbls but less than or equal to 25-bbls or any gas greater than 50-mcf but less than 500-mcf, written notice using Form C-141 will be provided to the NMOCD Santa Fe Environmental Bureau Chief in Santa Fe and the Aztec District OCD office. The Bureau of Land Management will be notified in accordance with the provisions of BLM NTL-3A.

- 5. Below grade tank will be constructed and operated in a manner that prevents the tank from over flow and prevents surface water from entering the pit. Diversion berms will be constructed around the sides of pit and an automatic high level shut-off will be installed.
- 6. Any measurable oil will be continuously removed from the Betty C Tank Battery below grade tank to prevent a significant accumulation of oil overtime.

7. The Betty C Tank Battery below grade tank will be inspected at least monthly and records of each inspection will be maintained for five years. The below grade monitoring report to be used, is shown below. Integrity inspections of fencing, berms, below grade tank, screening, below grade tank, vault slopes and leak detection will be made and recorded. Any solid waste, trash, debris or hazardous material in the below grade tank or below grade tank vault will be noted and removed. High level shut off valve and manual shut off valve will be tested to insure valves are operating properly. Freeboard and fluid levels in the below grade tank will be recorded, monitored and removed (See #2, Maintenance and Operation Plan) as needed. Records wills be used to assist in scheduling frequency of future fluid removal.

Check and Record Integrity				Trash Note and Pick-Up Check for Proper Operation				Freeboard	Fluid Level	Signature				
ate	Fence	Berms	s Tank	Tank Screen	Vault Slopes	Leak Detect.		Vault	Vault Location	High Level Shut off valve	Manual	Minimum 12*		
-														
lo/Yr		G = G	and F	= Fair, P	= Door		-	- Voc	N = No	C = Cond	, B = Bad	F4 6	Inches	Monitor's

8. Adequate freeboard will be maintained to prevent overtopping of the Betty C Tank Battery below grade tank. High level shut off valves will close when fluid reaches 12 inches from top of tank.

Betty C Tank Battery Below Grade Tank Closure Plan-Methods, Procedures and Protocols

1. Comply with deadlines for closure of a pit or below grade tank established by the State of New Mexico, Energy Minerals and Natural Resources Department 19.15.17.13 NMAC, or an earlier date if required by the NMOCD in the case of imminent danger to fresh water, public health or the environment.

Existing	Permit Applc. Submittal or	File Closure Plan By	Stop Use By	Close By
On June 16, 2008	Modification Request			
Temporary Pit - Unlined	Not Permtd under 19.15.17	7/16/2008	Upon drlg rig release	9/16/2008
Permanent Pit - Unlined or Lined	Not permitted with NMOCD	7/16/2008	6-16-2008	12/16/2008
Permanent Pit - Unlined	Permitted with NMOCD	12-16-2008	6-16-2010	6-16-2011
BGT-Aprvd. Design	Not Permtd under 19.15.17	12/16/2008	failed integrity replc	
·	Applc. by 9-16-2008		w/apprvd design	
BGT-Not Aprvd Design Nor Retrofit	Not Permtd under 19.15.17	12/31/2008	6/16/2013	6-16-2013
to Comply w/19.15.17	Mod. Rqust by 9-16-2008			
BGT-Not Aprvd Design Nor Retrofit	NA	12/16/2008	6/16/2013	6/16/2013
to comply w/19.15.17				
Permanent Pit-Design and Constr	Mod. Rqust by 12-16-2008	12/16/2008	failed integrity replc	60-days after cessation
Does not comply w/19.15.17	Comply w/in 18-mos of aprvl	submit w/mod request	w/apprvd design	
Permitted and lined				
Permanent Pit-Design and Constr	Permit Apple by 12-16-2008	12/16/2008		60-days after cessation
Does not comply w/19.15.17	Comply w/in 18-mos of aprvl	submit w/permit Applc		
Registered and Lined				-
Permanent Pit	Permitted under 19.15.17	60-Days prior to close		
Temporary Pit	Permitted under 19.15.17	Prior to closure	Upon drlg rig release	6-mos after rig release
BGT	Permitted under 19.15.17	12/16/2013	failed integrity replc	60-days after cessation
		or prior to closure	w/apprvd design	

- 2. Provide the NMOCD district office at least 72-hours notice but no greater than 1 week prior to any closure operations. Notice will include operator name, well name and number, API number, and location (unit letter, section, township and range).
- 3. The Betty C Tank Battery below grade tank is not an approved design under rule 19.15.17. Upon approval of this application, the existing below grade tank will be closed and a new below grade tank that complies with the design requirements of rule 19.15.17 as illustrated in the design plan (Exhibit 7) will be constructed.

- 4. Below grade tank will be closed within 60-days after cessation of use or by 6-16-2013 whichever comes first.
- 5. Closure notice will be provided by certified mail to surface owner prior to closing the below grade tank. Proof of notice will be provided to the Environmental Bureau in the NMOCD Santa Fe office and attached to the final closure report.
- 6. Remove all liquid from below grade tank prior to closure and dispose of at the Dugan Production operated Sanchez O'Brien SWD #1 salt water disposal well (permit SWD-694) located 1650 feet from the South line and 990 feet from the West line (Unit L) of Section 6, Township 24 North, Range 9 West.
- 7. All solids from the below grade tank and all solids removed from the below grade tank vault will be excavated, hauled to and disposed of at either the Envirotech facility (permit #NM-01-0011) facility located in Section 6, Township 26 North, Range 10 West or the IEI facility (permit NM-01-0010B) located in Section 2, Township 29 North, Range 12 West.
- 8. Remove below grade tank and obtain prior approval from the NMOCD to dispose (in an approved NMOCD facility), recycle, reuse or reclaim the tank. Documentation of the final disposition of the tank will be provided to the NMOCD in the final closure report.
- 9. Remove pit liner system, if applicable and dispose of only the pit liner material at an NMOCD approved, solid waste facility (Waste Management's Crouch Mesa facility, San Juan County, New Mexico) in accordance with subparagraph (m) of Paragraph (1) of Subsection D of 19.15.9.712.
- 10. On site equipment associated with the below grade tank will be removed unless it is needed for some other purpose.
- 11. Collect at a minimum, a five point, composite sample; also, collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for Benzene, BTEX, TPH, GRO/DRO and chlorides to demonstrate that Benzene, BTEX, TPH, GRO/DRO and chlorides do not exceed the standards as specified in 19.15.17.13.E or the background chloride concentration, whichever is greater.

Components	Test 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
GRO/DRO	EPA SW-846 8015M	NS
Chlorides	EPA 300.1	250 or Background

- 12. The NMOCD will be notified of the testing results on form C-141.
- 13. If it is determined that a release has occurred, rule 19.15.3.116 NMAC and 19.15.1.19 NMAC will be complied with as required.

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- 14. If the sampling results demonstrate that a release has not occurred, or that any release does not exceed the concentrations specified above or background concentrations, the below grade tank vault will be backfilled with compacted, non-waste containing, earthen material.
- 15. Stockpiled sub-surface soil will be used to backfill below grade tank vault and re-contour (to a final or intermediate cover that blends with the surrounding topography). A minimum of four feet of compacted, non-waste containing, earthen material will be used as backfill.
- 16. Stockpiled surface soil will be used as a cover over the backfilled below grade tank vault and disturbed area no longer needed for production operations. The soil cover will include either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site whichever is greater. The soil cover will be constructed to the site's existing grade and prevent water collection or ponding and erosion of the cover material.
- 17. Disturbed areas will be seeded the first growing season after the below grade tank is closed. Seeding will be accomplished by drilling on contour whenever possible or by other division approved methods. BLM stipulated seed mixes will be used on all Federal lands and NMOCD approved seed mixes (administratively approved if required) will be used on all State or private 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 through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. Seeding or planting will be continued until successful vegetative growth occurs.
- 18. The NMOCD will be notified within 60-days of closure of the below grade tank. The closure report will be filed on form C-144 and will include the following:
 - a. Proof of Closure Notice (surface owner and division)
 - b. Confirmation Sampling Analytical Results (if applicable)
 - c. Disposal Facility Name and Permit Number
 - d. Soil Backfilling and Cover Installation
 - e. Re-vegetation Application Rates and Seeding Technique
 - f. Site Reclamation (Photo Documentation)
- 19. The NMOCD will be notified once successful re-vegetation has been achieved.

Betty C Tank Battery Below Grade Tank Request for Administrative Approval

Administrative approval is hereby requested for an alternative to the fencing design for the Betty C Tank Battery below grade tank.

The request for administrative approval cited above is needed to help minimize environmental impact and increase safety and protect wildlife and public health. The alternative proposed will protect fresh water, public health, safety and the environment more effectively than the design and construction specifications established by the State of New Mexico, Energy Minerals and Natural Resources Department do in rule 19.15.17.11 NMAC.

1. The proposed alternative fencing design will include T-posts spaced 10-feet apart. Hog wire / field fence 4-feet in height will be strung tightly and anchored to the top and bottom of each T-post. Small holes (3" high X 6" wide) in the hog-wire will be located at ground level with increasing larger holes (up to 7" high X 6" wide) located at the top of the fence. Anchor braces will be put at all four corners to strengthen and tighten the fence. Two strands of barbed wire or a pipe / re-bar top rail will be constructed above the hog wire. This fence design (developed over the last 30-years) has proven to be very effective controlling unauthorized access to below grade tanks.

The existing rule (19.15.17.11.D.3) would require the operator to fence the below grade tank with a four foot fence that has at least four strands of barbed wire evenly spaced in the interval between on foot and four feet above the ground level. The proposed fencing alternative would provide better security against unauthorized access to below grade tanks. The smaller holes in hog-wire (3" X 6" up to 7" X 6") is more effective at controlling unauthorized access by the public and wildlife than 4-strands of barbed wire spaced 12" apart.

The proposed fence around the below grade tank will be constructed and operated in a manner that prevents unauthorized access and shall maintain the fence in good condition to protect the public and wildlife.

The request for administrative approval cited above is needed to help minimize environmental impact, increase safety and protect wildlife and public health. The alternatives proposed will protect fresh water, public health, safety and the environment more effectively than the design and construction specifications established by the State of New Mexico, Energy Minerals and Natural Resources Department do in rule 19.15.17.11 NMAC.

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

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 278581

CONDITIONS

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	278581
	Action Type:
	[C-144] Below Grade Tank Plan (C-144B)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	None	10/31/2023