District I 1625 N French Dr , Hobbs, NM 88240 District II 1301 W Grand Avenue, 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

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

X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Type of action: Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method

	ndividual pit, closed-loop system, below-grade tank or alternative request		
	ability should operations result in pollution of surface water, ground water or the uply with any other applicable governmental authority's rules, regulations or ordinances		
Operator: Dugan Production Corp.	OGRID#. 006515		
Address: 709 East Murray Drive, Farmington, New Me	exico 87401		
Facility or well name. State Com #1 (Separator)			
API Number: 30-04 \$ -21127	OCD Permit Number:		
U/L or Qtr/Qtr N Section 16 Township 32			
	Longitude108.10263 West NAD: 🖾 1927 🔲 1983		
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian			
Pit: Subsection F or G of 19.15.17.11 NMAC	Closed-loop System: Subsection H of 19.15.17 11 NMAC		
Temporary: Drilling Workover	☐ Drying Pad ☐ Tanks ☐ Haul-off Bins ☐ Other		
☐ Permanent ☐ Emergency ☐ Cavitation	☐ Lined ☐ Unlined		
☐ Lined ☐ Unlined	Liner type: Thicknessmil		
Liner type: Thicknessmil	Other		
Other String-Reinforced	Seams: Welded Factory Other		
Seams: Welded Factory Other	Volume:bblyd³		
Volume: bbl	Dimensions: Lengthx Width		
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC		
Volume:bbl	☐ Chain link, six feet in height, two strands of barbed wire at top		
Type of fluid: Produced H2O	_ Four foot height, four strands of barbed wire evenly spaced between one ar		
Tank Construction material: Fiberglass	four feet Other Fencing 4'=3' Hog wire + Top rail		
☐ Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC		
☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	☐ Screen ☒ Netting ☐ Other		
☐ Visible sidewalls and liner			
☐ Visible sidewalls only (See Closure Plan #2)	Signs: Subsection C of 19.15.17.11 NMAC		
X Other No visible sidewalls, Leak detection	X 12'x24', 2' lettering, providing Operator's name, site location, and		
Liner type: Thicknessmil	emergency telephone numbers		
Other	☐ Signed in compliance with 19.15.3.103 NMAC		
Alternative Method:	Administrative Approvals and Exceptions:		
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.		
of approval.	Please check a box if one or more of the following is requested, if not leave		
	blank: X Administrative approval(s): Requests must be submitted to the		
/亞 RECEIVED 含	appropriate division district or the Santa Fe Environmental Bureau office for		
922	consideration of approval Exception(s). Requests must be submitted to the Santa Fe		
OH COMO NO	Environmental Bureau office for consideration of approval.		
submitted to the Santa Fe Environmental Bureau office for consideration of approval. PECEIVED OIL CONS. DIV. DIST. 3 Oil Cons	ervation Division Page 1 of 4		
COE TO			
Form C4.14 Oil Cons			

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					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site, Aerial photo; Satellite image	☐ Yes ☒ No ☐ NA				
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					
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 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					
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic map					
Within a 100-year floodplain FEMA map	☐ Yes ☒ No				
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the de attached.					
 ☒ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.15 NMAC ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15 17.15 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 - 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: 30-045- 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 (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.15 Siting Criteria Compliance Demonstrations (required 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 19.15.17.9 NMAC and 19.15.17.13 NMAC NMAC					
Previously Approved Design (attach copy of design) API Number:					

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 do	cuments are			
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.15 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				
Proposed Closure: 19.15.17.13 NMAC				
Type: 🗌 Drilling 🗌 Workover 🔲 Emergency 🔲 Cavitation 🔲 Permanent Pit 🗵 Below-grade Tank 🔲 Closed-loop System 🗍	Alternative			
Proposed Closure Method. Waste Excavation and Removal				
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 con	nsideration)			
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC				
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable				
source material are provided below. Requests regarding changes to certain siting criteria 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. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10				
NMAC for guidance.				
Ground water is less than 50 feet below the bottom of the buried waste.	☐ Yes ☐ No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA			
Ground water is between 50 and 100 feet below the bottom of the buried waste	∐ Yes∐ No □ NA			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	L NA			
Ground water is more than 100 feet below the bottom of the buried waste.	☐ Yes ☐ No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA			
Negation 200 C at C and C at C a				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake	☐ Yes☐ No			
(measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site				
Topographic map, Visual inspection (certification) of the proposed site				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application	☐ Yes ☐ No			
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	-			
Watin 500 having stall fact of a migrate day satisfies a material and stall and they for howest allege for demostic or stall	□ Vos□ 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	☐ Yes ☐ No			
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site				
	_			
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No			
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	U			
- Written confirmation or verification from the municipality; Written approval obtained from the municipality				
Within 500 feet of a wetland.	☐ Yes ☐ No			
- US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspection (certification) of the proposed site				
Within the area overlying a subsurface mine.				
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division				
Within an unstable area.				
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No			
Society; Topographic map				
Wrd: 100 g Li				
Within a 100-year floodplain.				
- FEMA map				

closure plan. Please indicate, by a check mark in the box, that the docum	MAC) Instructions: Each of the following items must be attached to the			
X 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 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC 				
	Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility			
or facilities for the disposal of liquids, drilling fluids and drill cuttings.	with the state of			
Disposal Facility Name	Disposal Facility Permit Number:			
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	th of the following items must be attached to the closure plan. Please indicate,			
☐ Siting Criteria Compliance Demonstrations - based upon the appropri				
☐ Proof of Surface Owner Notice - based upon the appropriate requiren ☐ Construction and Design of Burial Trench (if applicable) based upon				
Protocols and Procedures - based upon the appropriate requirements of	of 19.15.17.13 NMAC			
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate Waste Material Sampling Plan - based upon the appropriate requirem				
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluid	Is and drill cuttings or in case on-site closure standards cannot be achieved)			
☐ Soil Cover Design - based upon the appropriate requirements of Subs ☐ Re-vegetation Plan - based upon the appropriate requirements of Substitution Plan -				
Site Reclamation Plan - based upon the appropriate requirements of Sub-	Subsection G of 19.15.17.13 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 belief.			
Name (Print): Kurt Fagrelius	Title: Vice President, Exploration			
Signature: Kurt Fegrelin	1 - 1 - 2 - 2008			
Signature: // Url / Egrellus	Date: 1906051 13, 2008			
e-mail address: kfagrelius@duganproduction.com				
OCD Approval: Permit Application (including closure plan) Clos	ure Plan (only)			
	(
OCD Representative Signature: Blood Sell	Approval Date: 8-25-68			
OCD Representative Signature: B. 6 Ell. Title: Ensiro/spec				
Title: Ensiro/sper	OCD Permit Number:			
_	OCD Permit Number:			
Closure Report (required within 60 days of closure completion): Subse	OCD Permit Number: ction K of 19.15.17.13 NMAC Closure Completion Date:			
Title: Ensiro/spec Closure Report (required within 60 days of closure completion): Subse	OCD Permit Number: ction K of 19.15.17.13 NMAC Closure Completion Date:			
Closure Report (required within 60 days of closure completion): Subsection Closure Method: Waste Excavation and Removal On-Site Closure Method A If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follows.	OCD Permit Number: ction K of 19.15.17.13 NMAC Closure Completion Date:			
Title: Ensiro/spec Closure Report (required within 60 days of closure completion): Subsection Waste Excavation and Removal On-Site Closure Method A If different from approved plan, please explain	OCD Permit Number: ction K of 19.15.17.13 NMAC Closure Completion Date: Iternative Closure Method			
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Closure Report (required within 60 days of closure completion): Subsection Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follows mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	OCD Permit Number: ction K of 19.15.17.13 NMAC Closure Completion Date: Ilternative Closure Method ing items must be attached to the closure report. Please indicate, by a check			
Closure Report (required within 60 days of closure completion): Subsection Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follows mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	OCD Permit Number: ction K of 19.15.17.13 NMAC Closure Completion Date: Iternative Closure Method			
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State Com #1 (Separator) Hydrogeologic Report

The State Com #1 (Separator) is located on State land on the northwest rim of the San Juan Basin, in San Juan County, New Mexico. The area is characterized as a wide and flat, arid, shale dominated valley with very sparse grass and abundant sage brush. It is bordered on the west by a "hogback" of steep, basin-ward dipping, rock outcrops covered with stands of juniper and pinon trees. The area is poorly drained by arroyos, deeply incised (20-40 feet deep) into the Nacimiento shale beds on the surface. The arroyos transport water during seasonal periods of rain and snow melt to the La Plata River 4-5 miles to the south and west.

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the State Com #1 (Separator) location (Exhibit 2). No water wells were located within the search area. The results of the search are shown on Exhibit 1.

The main source of water in the region is from earthen stock tanks built into the impermeable Nacimiento shale beds in and along the upstream reaches of small arroyos. There is not any available ground water in the existing arroyos at shallow depths due to the absence of any valley-fill deposits in the area. The arroyos have very little fill, what fill does exist is all gray, Nacimiento shale from the surface layers in the area. The proposed below grade tank is not located in an arroyo; the nearest arroyo is over 450 feet away to the north and west.

The Nacimiento Formation extends from the surface down to a depth of approximately 1085 feet. At the location of the proposed below grade tank the Nacimiento is comprised of only mudstone / shale from the surface down to a depth of 460 feet. Shale content in the Nacimiento increases to the west toward the outcrop and recharge area. At depths of 460-510 feet there are two, thin (5-15 feet thick), silty, discontinuous sand stringers inter-bedded with the mudstone / shale layers. At a depth of 940-1085 there are five sand stringers (5-15 feet thick) that are the cleanest, most prospective for water in the Nacimiento section.

The Nacimiento can be a source of ground water for livestock purposes and more rarely domestic use in some areas near the outcrop. But at the subject location there are not any sand layers in the section above the 460 foot depth. The Nacimiento is not expected to contain significant quantities of ground water in the area of the proposed below grade tank.

Based on electric open hole logs, the iWATERS database, literature reviewed, there is no shallow ground water in the area. At the location of the subject below grade tank, small amounts of ground water might be found at depths of approximately 460-510 feet. More significant amounts of ground water might be found in stray sands in the lower Nacimiento Formation between 940 and 1085 feet and the Ojo Alamo /Animas interval at a depth of 1085-1210 feet below the surface.

The excessive drilling depth to reservoirs with unpredictable variations in reservoir quality and water quality has discouraged the drilling of water wells in the area.

- 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.

New Mexico Office of the State Engineer **POD Reports and Downloads** Township: 32N Range: 12W Sections: 8,9,10,15,16,17,20,21,22 Search Radius: NAD27 X: Y: Zone: County: Basin: Number: Suffix: Owner Name: (First) (Last) ONon-Domestic ODomestic OAll POD / Surface Data Report Water Column Report Avg Depth to Water Report Clear Form iWATERS Menu Help WATER COLUMN REPORT 08/11/2008 (quarters are 1=NW 2=NE 3=SW 4=SE)

Zone

Depth

Well

Depth

Water

Water (in feet)

Column

No Records found, try again

POD Number

(quarters are biggest to smallest)

Tws Rng Secqqq

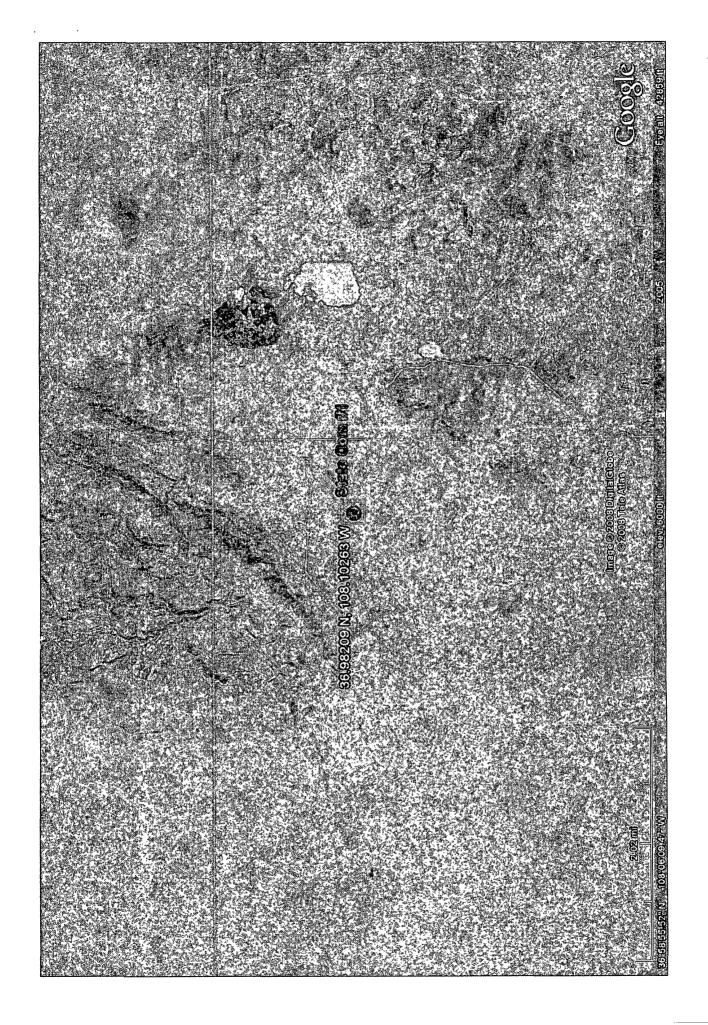
Siting Criteria for the State Com #1

- 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.
- 2. The below grade tank is not within 300-feet of a continuously flowing water course, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from ordinary high water mark). 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.

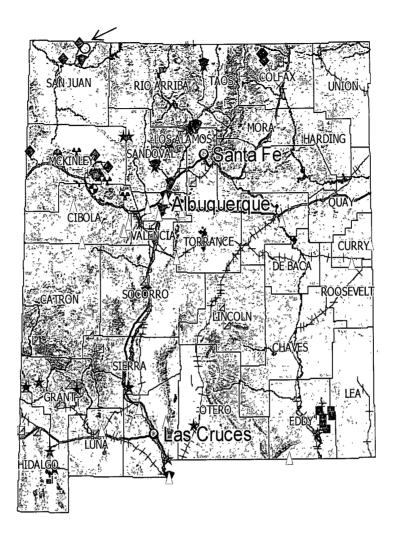
State Com #1 Visual Inspection Certification

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 State Com #1 below grade tank (Week of July 21, 2008). This application is 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.

August 13, 2008 Date



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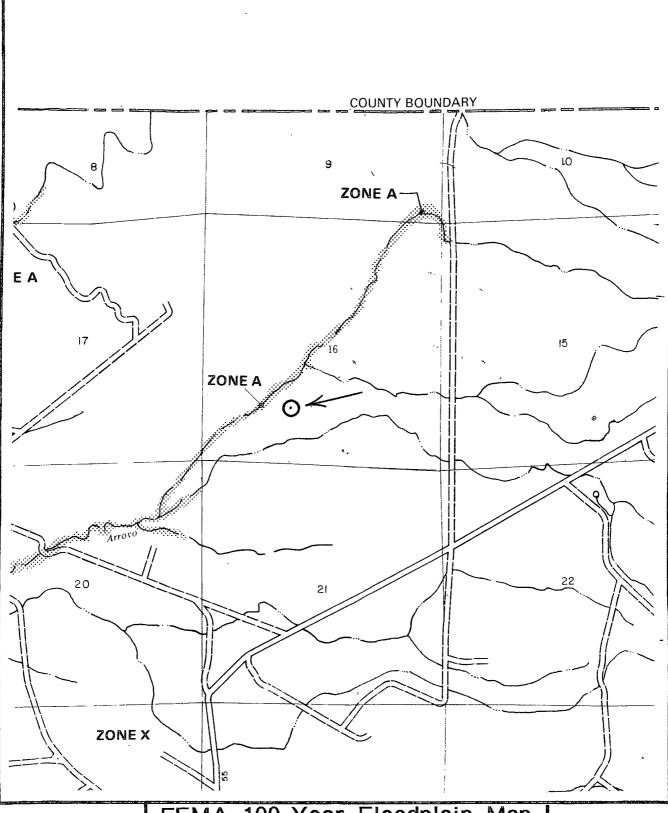
Mine, Mills and Quarry Map of New Mexico

Dugan Production Corp.

State Com #1

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

Mining and Minerals Division.



FEMA 100-Year Floodplain Map

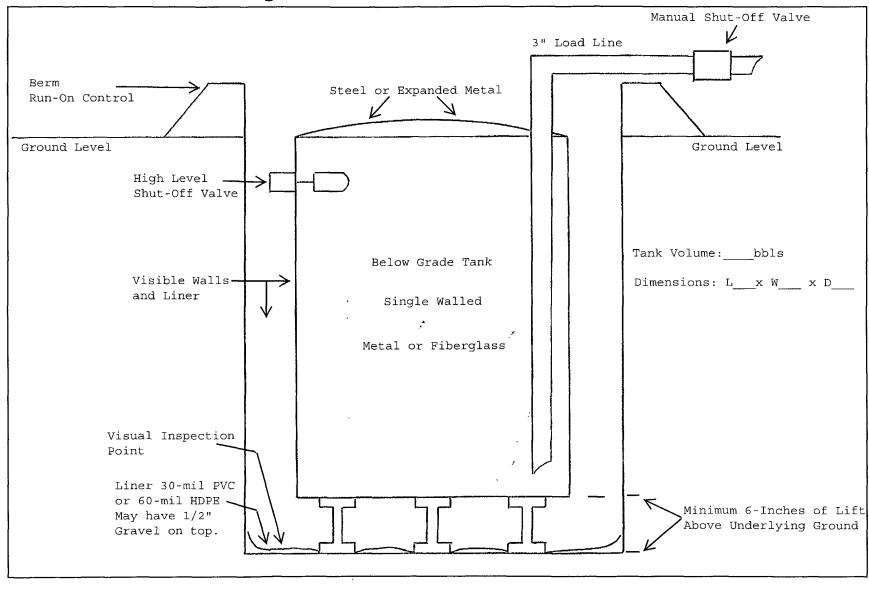
State Com #1

State Com #1 Design and Construction Plan

The State Com #1 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 pit, keep separate from subsoil and use as final cover and fill when closing pit.
- 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 State Com #1 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. The State Com #1 below grade tank is not located within 1000 feet of a house, school, hospital or church.
- 5. The State Com #1 below grade tank will be covered with expanded metal, chicken-wire or a metal lid on top of the tank.
- 6. State Com #1 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 foundation and interior slopes, smooth and free of rocks or sharp edges to prevent punctures, cracks or indentations of the liner or tank bottom.
- 7. State Com #1 below grade tank will be constructed of materials resistant to the tank's particular contents and resistant to damage from sunlight.
- 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.
- 9. The State Com #1 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. The below grade tank will be underlain with a geo-membrane liner designed to divert any leaked fluid to a visual inspection point. Liner may be covered with gravel.
- 10. The State Com #1 below grade tank will be equipped with a properly operating automatic high-level shut-off control device 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.

Design Plan For Below Grade Tank



Dugan Production Corp.
State Com #1

State Com #1 Operational Requirements

The State Com #1 below grade tank will be maintained and operated in accordance with the following requirements:

- 1. The State Com #1 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.
- 2. All fluids 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 pit.
- 4. If the State Com #1 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 replaced or repaired.
- 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 State Com #1 below grade tank to prevent a significant accumulation of oil overtime.
- 7. The State Com #1 below grade tank will be inspected at least monthly and records of each inspection will be maintained for five years.
- 8. Adequate freeboard will be maintained to prevent overtopping of the State Com #1 below grade tank.

State Com #1 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 On June 16, 2008	Permit Applic Submittal or Modification Request	File Closure Plan By	Stop Use By	Close By
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 or 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	
	Apple by 9-16-2008		w/apprvd design	
BGTENO(Aprvd:Design)Nor Retrofft to Goriply, Walek 154177	Not Permtd under 19.15 17 Mod Rqust by 9-16-2008	12/16/2008 _. .	6/16/2013	6-16-2013
BGT-Not Aprvd Design Nor Retrofit to comply w/19.15 17	NA	12/16/2008	6/16/2013	6/16/2013
Permanent Pit-Design and Constr	Mod. Rqust by 12-16-2008	12/16/2008 submit w/mod	failed integrity replc	60-days after cessation
Does not comply w/19 15 17 permitted and lined	Comply w/in 18-mos of aprvl	request	w/apprvd design	
Permanent Pit-Design and Constr Does not comply w/19.15.17 Registered and Lined	Permit Applic by 12-16-2008 Comply w/in 18-mos of aprvl	12/16/2008 submit w/permit Applc		60-days after cessation
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 or prior to closure	failed integrity replc w/apprvd design	60-days after cessation

- 2. The State Com #1 below grade tank was registered under rule 50; however, it 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 meets the design requirements of rule 19.15.17 will be constructed.
- 3. Below grade tank will be closed within 60-days after cessation of use.
- 4. Proof of closure notice will be provided by certified mail to surface owner after closure. Proof of notice will be attached to final closure report.

- 5. Remove all liquid from below grade tank prior to closure and dispose of at the Dugan Production operated Sanchez O'Brien #1 SWD (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.
- 6. All solids from the below grade tank and all solids removed from the containment pit 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.
- 7. Remove below grade tank and dispose of in a NMOCD approved facility, or recycle, reuse, or reclaim it in a manner that the NMOCD approves.
- 8. On site equipment associated with the below grade tank will be removed unless it is needed for some other purpose.
- 9. Collect a five point, composite sample of the soils beneath the below grade tank (any area that is wet, discolored or shows evidence of a release) to demonstrate that Benzene, BTEX, TPH and chlorides do not exceed the standards as specified in 19.15.17.13.E or the background 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

- 10. The NMOCD will be notified of the testing results on form C-141.
- 11. 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.
- 12. 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 pit will be backfilled with compacted, non-waste containing, earthen material.
- 13. Stockpiled sub-surface soil will be used to backfill pit 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.
- 14. Stockpiled surface soil will be used as a cover over the backfilled pit and disturbed area no longer needed for production operations. The soil cover will include either the background thickness of top soil or one foot of suitable material to establish vegetation at the site whichever is greater.
- 15. The area will be re-seeded as per BLM guidelines. Re-seeding will be repeated until 70% of the native natural cover is achieved and maintained for two successive growing seasons. The first growing season after the pit is closed the disturbed area will be re-seeded. The seeding method will be to drill on contour whenever possible.

- 16. 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 document all closure activities, sampling results, a plot plan, and details on backfilling and capping where applicable.
- 17. The NMOCD will be notified once successful re-vegetation has been achieved.

State Com #1 Request for Administrative Approval

Administrative approval is hereby requested for an alternative to the fencing design for the State Com #1 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.