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

Type of action:

| X | 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

Instructions: Please submit one application (Form C-144) per in	dividual pit, closed-loop system, below-grade tank or alternative request				
Please be advised that approval of this request does not relieve the operator of his environment. Nor does approval relieve the operator of its responsibility to com	bility should operations result in pollution of surface water, ground water or the ply with any other applicable governmental authority's rules, regulations or ordinances				
Operator: Dugan Production Corp.	OGRID # 006515 RCVD JUL 30 '08				
Address: 709 East Murray Drive, Farmington, New Me					
Facility or well name: Dome Navajo 13-26-13 #3	DIST, 3				
API Number: 30-045-23805	OCD Permit Number:				
U/L or Qtr/Qtr SW/4 NW/4 Section 13 Township 26	N Range 13W County: San Juan				
Center of Proposed Design: Latitude 36.49052 North Longitude 108.17632 West NAD: X 1927 1983					
Surface Owner: ☐ Federal ☐ State ☐ Private ☒ Tribal Trust or Indian Allotment					
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. Thickness mil LLDPE HDPE PVC				
Liner type Thicknessmil	Other				
☐ Other ☐ String-Reinforced	Seams: Welded Factory Other				
Seams: Welded Factory Other	Volume·bblyd³				
Volume bbl Dimensions: L x W x D	Dimensions: Lengthx Width				
☑ Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC				
Volume: 55 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 and				
Tank Construction material. Fiberglass	four feet Other Fencing 4'=3' Hog wire + 1 Barbed wire				
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 X Other Open no cover				
☐ Visible sidewalls and liner	☑ Monthly inspections				
☐ Visible sidewalls only	Signs: Subsection C of 19.15.17.11 NMAC				
X Other No visible sidewalls, No leak detection	-				
Liner type: Thicknessmil HDPE PVC	/C emergency telephone numbers				
Other .	Signed in compliance with 19.15.3.103 NMAC				
Alternative Method: Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	Administrative Approvals and Exceptions: 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: ☐ 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.				

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 Within 1000 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 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 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 Within 500 feet of a wetland. 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	es 🗌 No			
(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 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 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 Within 500 feet of a wetland. 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.	es ⊠ No A es □ No A			
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- 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.	es 🗵 No			
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.	es 🗵 No			
	es 🗵 No			
Society; Topographic map	es 🗵 No			
Within a 100-year floodplain FEMA map	es 🗵 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 19.15.17.15 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 19.15.17.12 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 document attached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.15.15 Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.11 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				

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 de	ocuments 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 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 	
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 continuous descriptions of the Santa Fe Environmental Bureau for continuous descriptions.)	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. - 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 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 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 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	☐ 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

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) In				
closure plan. Please indicate, by a check mark in the box, that the documents are a \(\) Protocols and Procedures - based upon the appropriate requirements of 19.15.1				
☐ Frotecons 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 PC				
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins Onl				
or facilities for the disposal of liquids, drilling fluids and drill cuttings.	(19.13.17.13.D NWIAC) Instructions. Trease indentity the facinity			
	isposal Facility Permit Number:			
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the f				
by a check mark in the box, that the documents are attached.	-			
Siting Criteria Compliance Demonstrations - based upon the appropriate requir	ements of 19.15.17.10 NMAC			
Proof of Surface Owner Notice - based upon the appropriate requirements of Surface Construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the approximately construction and Design of Burial Trench (if applicable) based upon the				
Protocols and Procedures - based upon the appropriate requirements of 19.15.1				
Confirmation Sampling Plan (if applicable) - based upon the appropriate requir	ements of Subsection F of 19.15.17.13 NMAC			
Waste Material Sampling Plan - based upon the appropriate requirements of Su				
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and dril☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of				
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of				
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection	G of 19.15.17.13 NMAC			
Operator Application Certification:				
I hereby certify that the information submitted with this application is true, accurate a	and complete to the best of my knowledge and belief.			
Name (Print): Kurt Fagrelius	Title: Vice President, Exploration			
Signature: Kurt Fzgruin	Date: 7-28-08			
e-mail address kfagrelius@duganproduction.com	Telephone: _505-325-1821 (O), 505-320-8248 (C)			
OCD Approval: Permit Application (including closure plan) Closure Plan (only)			
	Approval Date: 8-4-08			
OCD Representative Signature: Dan Dan	Approval Date: 0 100			
Title: Enviro Spec 00	CD Permit Number:			
Closure Report (required within 60 days of closure completion): Subsection K o	F10 15 17 12 NMAC			
	Closure Completion Date:			
Closure Method:				
☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative ☐ If different from approved plan, please explain	Closure Method			
If different from approved plan, please explain				
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items mark in the box, that the documents are attached.				
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items mark in the box, that the documents are attached. ☐ Proof of Closure Notice				
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items mark in the box, that the documents are attached. ☐ Proof of Closure Notice ☐ Proof of Deed Notice (if applicable)				
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items mark in the box, that the documents are attached. ☐ Proof of Closure Notice				
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items 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				
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items 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				
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items 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				
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items 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)	must be attached to the closure report. Please indicate, by a check			
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items 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) ☐ On-site Closure Location: Latitude Longitude	must be attached to the closure report. Please indicate, by a check			
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items 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) ☐ On-site Closure Location: Latitude Longitude Operator Closure Certification:	must be attached to the closure report. Please indicate, by a check NAD: 1927 1983			
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items 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) ☐ On-site Closure Location: Latitude _ Longitude Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure reports belief. I also certify that the closure complies with all applicable closure requirement	must be attached to the closure report. Please indicate, by a check NAD: □1927 □ 1983 This is true, accurate and complete to the best of my knowledge and a sand conditions specified in the approved closure plan.			
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items 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) ☐ On-site Closure Location: Latitude - Longitude Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure repo	must be attached to the closure report. Please indicate, by a check NAD: 1927 1983 This true, accurate and complete to the best of my knowledge and			
☐ If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the following items 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) ☐ On-site Closure Location: Latitude _ Longitude Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure reports belief. I also certify that the closure complies with all applicable closure requirement	must be attached to the closure report. Please indicate, by a check NAD: □1927 □ 1983 This is true, accurate and complete to the best of my knowledge and a sand conditions specified in the approved closure plan.			

Dome Navajo 13-26-13 #3 Hydrogeologic Data

The Dome Navajo 13-26-13 #3 below grade tank is located on Navajo Nation Trust Lands within the Navajo Indian Irrigation Project (NIIP), San Juan County, New Mexico. Water used for irrigation on NIIP is transported to the area from Cutter Dam and Navajo Dam over 25-30 miles to the north and east through an elaborate, cement lined canal system.

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the Dome Navajo 13-26-13 #3 location (Exhibit 2). No water wells were located in the area of the below grade tank. 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. The proposed below grade tank is not located in an arroyo; the closest arroyo is over 500 feet away.

The Ojo Alamo Sandstone extends from the surface down to a depth of approximately 80 feet and is comprised of a coarse grained alluvial sandstone inter-bedded with lenses of mudstone and occasional conglomeratic sandstone. The Ojo Alamo may yield marginal quantities of water for livestock, however, the water quality is typically greater than 1,000 ppm total dissolved solids and high in sulfate.

The Ojo Alamo is a potential source of water in the area, however, a nearby arroyo (500-feet south) has breached the surface and nearly the entire Ojo Alamo interval down to a depth of approximately 60 feet, there are no springs in the area and the zones are not expected to contain water in the area.

The underlying Kirtland Shale ranges from approximately 80 feet down to 850 feet and is comprised of an upper shale member, middle sandstone member (Farmington Ss.) and a lower shale member. The upper shale member has a thin, discontinuous sand stringer between 120 and 130 feet below the surface. The middle sandstone member is poorly developed from 250 feet down to 500 feet at this location. Both intervals may contain ground water but the quality is expected to be poor and the amount small.

Based on electric open hole logs, the iWATERS database and literature reviewed, poor quality ground water might be found at a depth of approximately 120 feet from a thin, discontinuous sand stringer in the Kirtland Shale or from the Fruitland Coal and Pictured Cliffs Sandstone interval at around 1150 feet below the surface. Excessive drilling depth, unpredictable variations in reservoir quality and water quality have discouraged the drilling of water wells in the in the subject 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. Geological Survey, Atlas HA-720-B, Sheet 1 and 2.

New Mexico Office of the State Engineer POD Reports and Downloads

FOD Reports and Downloads					
Township: 26N Range: 13W Sections: 11,12,13,14,23,24					
NAD27 X: Y: Zone: Search Radius:					
County: Basin: Number: Suffix:					
Owner Name: (First) (Last) Onn-Domestic Odmestic Odmestic					
POD / Surface Data Report Avg Depth to Water Report Water Column Report					
Clear Form iWATERS Menu Help					
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WATER COLUMN REPORT 07/17/2008					
(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) POD Number Tws Rng Sec q q q Zone X Y Well Water Column					

No Records found, try again

New Mexico Office of the State Engineer POD Reports and Downloads

	-		
Township:	26N Range: 12W	Sections: 7,18,19	
NAD27 X:	Y:	Zone:	Search Radius:
County:	Basin:	∫ Nu	mber: Suffix:
Owner Name: (First)	(Last)		○Non-Domestic ○Domestic ●All
POD / Surface Data	Report Avg	Depth to Water Repo	vrt Water Column Report
	Clear Form	iWATERS Menu	Help
	WATER COL	UMN REPORT 07/17	7/2008
(quarters	are 1=NW 2=NE 3=SW are biggest to sma Rng Sec q q q Zon	llest)	Depth Depth Water (in feet) Y Well Water Column

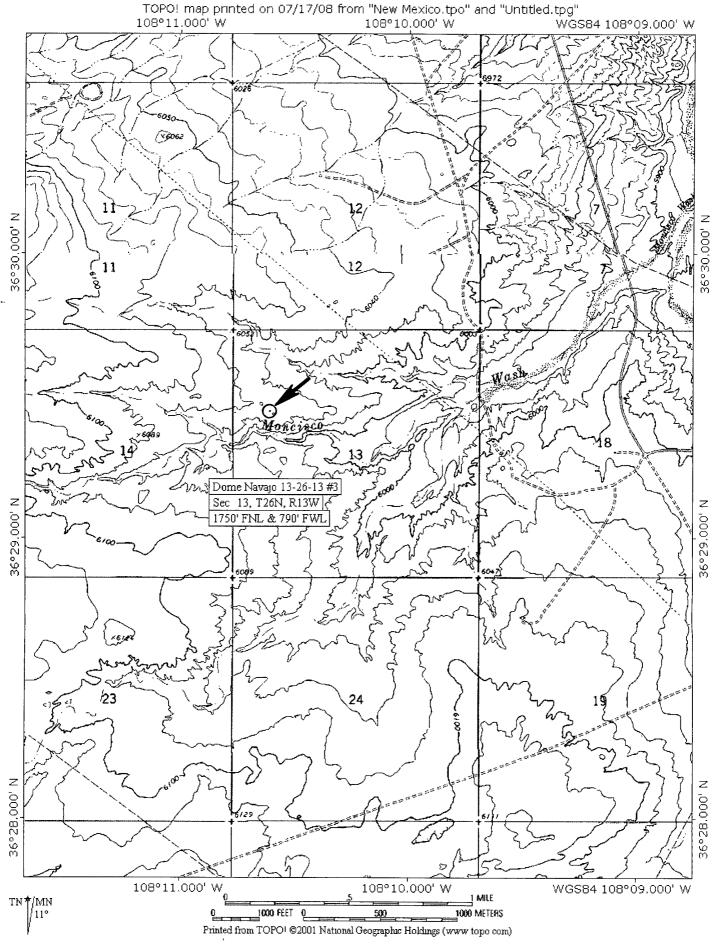
No Records found, try again

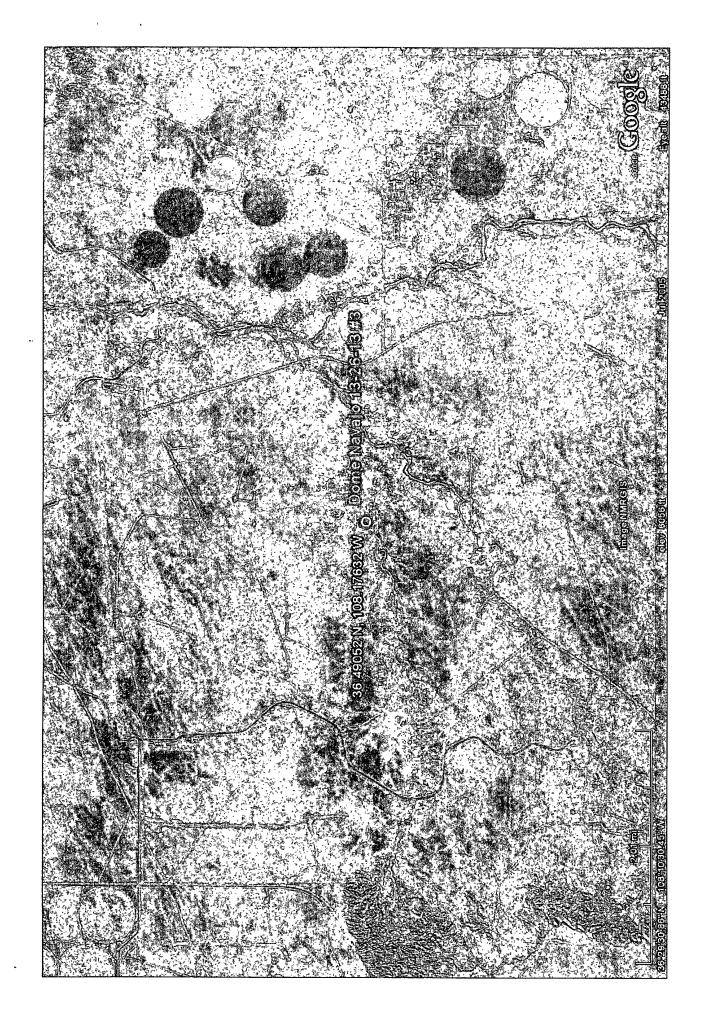
Siting Criteria for the Dome Navajo 13-26-13 #3

- 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.

Dome Navajo 13-26-13 #3 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 Dome Navajo 13-26-13 #3 below grade tank (Week of July 14, 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.





New Mexico Office of the State Engineer POD Reports and Downloads

	Township	: 26N Range: 13W	Sections: 13	
NA	D27 X:	Y:	Zone:	Search Radius:
County:	Ž	Basin:		Number: Suffix:
Owner Name:	(First)	(La	st)	○ Non-Domestic ○ Domestic ◎
POD/S	Surface Da	a Report	Avg Depth to Water	Report Water Column Report
		Clear Form	iWATERS Me	nu Help
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		WATER	COLUMN REPORT 0	07/17/2008
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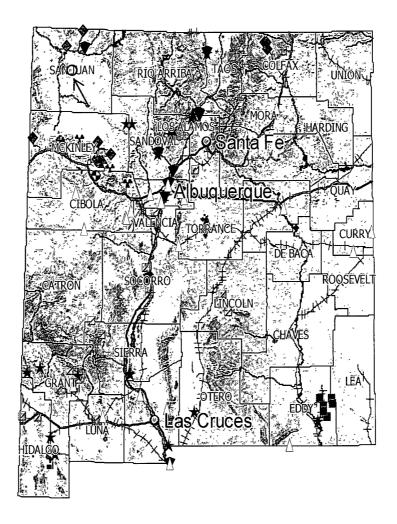
Well

Water

Column

No Records found, try again

Tws Rng Sec q q q Zone



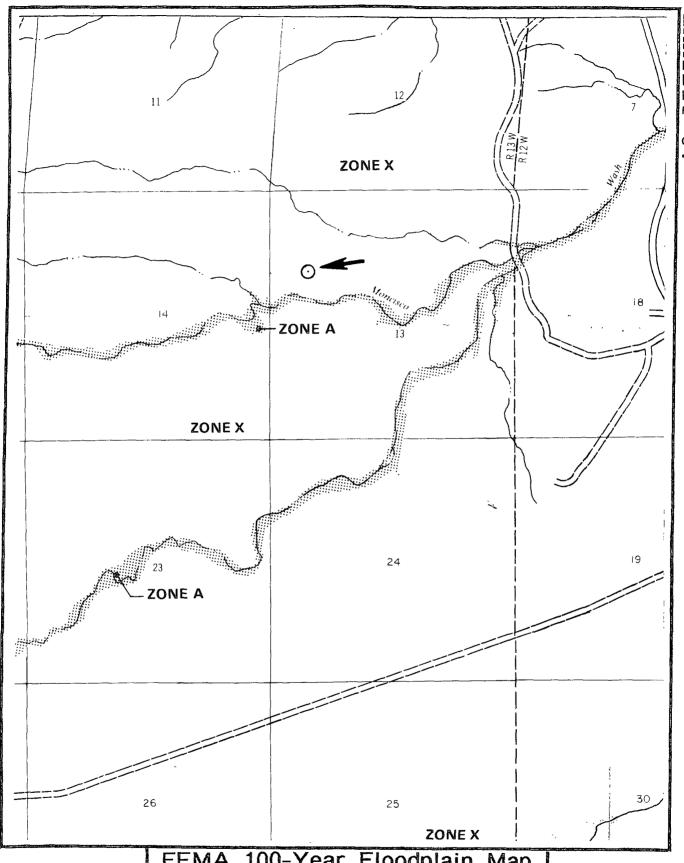
Mine, Mills and Quarry Map of New Mexico

Dugan Production Corp.

Dome Navajo 13-26-13 #3

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

Mining and Minerals Division.



FEMA 100-Year Floodplain Map

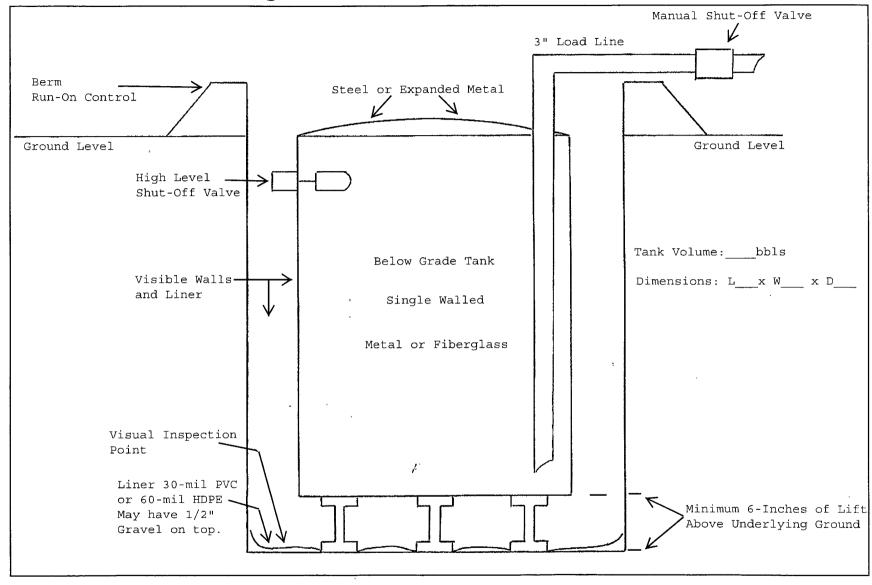
Dome Navajo 13-26-13 #3

Dome Navajo 13-26-13 #3 Design and Construction Plan

The Dome Navajo 13-26-13 #3 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 Dome Navajo 13-26-13 #3 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 Dome Navajo 13-26-13 #3 below grade tank is not located within 1000 feet of a house, school, hospital or church.
- 5. The Dome Navajo 13-26-13 #3 below grade tank will be covered with expanded metal, chicken-wire or a metal lid on top of the tank.
- 6. Dome Navajo 13-26-13 #3 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. Dome Navajo 13-26-13 #3 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 Dome Navajo 13-26-13 #3 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 Dome Navajo 13-26-13 #3 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. Dome Navajo 13-26-13 #3

Dome Navajo 13-26-13 #3 Operational Requirements

The Dome Navajo 13-26-13 #3 below grade tank will be maintained and operated in accordance with the following requirements:

- 1. The Dome Navajo 13-26-13 #3 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 Dome Navajo 13-26-13 #3 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 Dome Navajo 13-26-13 #3 below grade tank to prevent a significant accumulation of oil overtime.
- 7. The Dome Navajo 13-26-13 #3 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 Dome Navajo 13-26-13 #3 below grade tank.

Dome Navajo 13-26-13 #3 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 Apple 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 rıg 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	
BGT-Not Aprvd Design Nor Retrofit to Comply w/19.15.17	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 afte 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	Permit Apple by 12-16-2008	12/16/2008 submit w/permit		60-days afte cessation
Does not comply w/19.15 17 Registered and Lined	Comply w/in 18-mos of aprvl	Appic		
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 afte cessation

- 2. The Dome Navajo 13-26-13 #3 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.

Dome Navajo 13-26-13 #3 Request for Administrative Approval

Administrative approval is hereby requested for an alternative to the fencing design for the Dome Navajo 13-26-13 #3 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.