District I

1625 — I. French Dr., Hobbs, NM 88240

District II

1301 V. Grand Avenue, Artesia, NM 88210

District III

1000 R io 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 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.

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

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
BGT 1	Modification to an existing permit
	X Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
	s, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

Dugan Bradustian Com	
Operator: Dugan Production Corp.	OGRID#:006515
Address:709 East Murray Drive, Farmington, New Mexico 8	37401
Facility or well name: NCRA #1	
API Number:30-039-06757 OCD Permit N	lumber:
U/L or Qtr/Qtr A Section 3 Township 26N Rang	e 7W County: Rio Arriba
Center of Proposed Design: Latitude 36.51989 North Longitude	107.55613 West NAD: X 1927 1983
Surface Owner: X 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: Thicknessmil ☐ LLDPE ☐ HDPE [	PVC Other
String-Reinforced	
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 t intent)	o activities which require prior approval of a permit or notice of
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other	
Lined Unlined Liner type: Thicknessmil LLDPE HDF	PE PVC Other
Liner Seams:  Welded Factory Other	
4.	
X Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: 80 bbl Type of fluid: Producer H20	
Tank Construction material: Fiberglass	(See Closure Plan #3)
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift ar	nd automatic overflow shut-off
<ul> <li>✓ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other</li></ul>	

Fenci ng: 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	hospital,
Nettirg: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen X Netting Other  Monthly inspections (If netting or screening is not physically feasible)	
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: Justifi cations 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 consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
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. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above—grade tanks associated with a closed-loop system.	opriate district approval.
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 X 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 X 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 🏻 No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes X 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 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 X No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checkli Instructions: Each of the following items must be attached to the application. Please indicate, by a ch	st: Subsection B of 19.15.17.9 NMAC heck mark in the box, that the documents are
attac▶ed.  X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Sub Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	(2) of Subsection B of 19.15.17.9 NMAC 10 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate recand 19.15.17.13 NMAC	quirements of Subsection C of 19.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number:	or Permit Number:
12. Close d-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 chattaclz ed.	eck mark in the box, that the documents are
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Para Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	requirements of 19.15.17.10 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate recard 19.15.17.13 NMAC	quirements of Subsection C of 19.15.17.9 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)	
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 chattached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.  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  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.  Nuisance or Hazardous Odors, including H <sub>2</sub> 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	2.9 NMAC .10 NMAC AC 5.17.11 NMAC 9.15.17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed cl  Type:  Drilling Workover Emergency Cavitation P&A Permanent Pit Below	· ·
☐ 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 system  ☐ In-place Burial ☐ On-site Trench Burial  ☐ Alternative Closure Method (Exceptions must be submitted to the Santa F	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of 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 Subsectio ☐ 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 ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection ☐ of 19.15.17.13 NMA ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection ☐ of 19.15.17.13 NMA	on F of 19.15.17.13 NMAC stion H of 19.15.17.13 NMAC C

facilities are required.  Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:		
Will any of the proposed closed-loop system operations and associated activities  Yes (If yes, please provide the information below)  No	s occur on or in areas that will not be used for future ser	vice 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 Re-vegetation Plan - based upon the appropriate requirements of Subsections.  Site Reclamation Plan - based upon the appropriate requirements of Subsections.	iate requirements of Subsection H of 19.15.17.13 NMA ion I of 19.15.17.13 NMAC	С
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMA Instructions: Each siting criteria requires a demonstration of compliance in a provided below. Requests regarding changes to certain siting criteria may requests detected an exception which must be submitted to the Santa Fe Environment demorastrations of equivalency are required. Please refer to 19.15.17.10 NMA	the closure plan. Recommendations of acceptable soun wire administrative approval from the appropriate dist intal Bureau office for consideration of approval. Justi	rict office or may 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; I	Data obtained from nearby wells	Yes No
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; I	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; I	Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other lake (rneasured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	significant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or chu - Visual inspection (certification) of the proposed site; Aerial photo; Satel		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that watering purposes, or within 1000 horizontal feet of any other fresh water well of NM Office of the State Engineer - iWATERS database; Visual inspection	or spring, in existence at the time of initial application.	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh wadopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approximately		☐ Yes ☐ No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Vi	sual 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-Min	ing and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geol Society; Topographic map	ogy & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain FEMA map		☐ Yes ☐ No
18.  On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.  □ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements □ Proof of Surface Owner Notice - based upon the appropriate requirements □ Construction/Design Plan of Burial Trench (if applicable) based upon the □ Construction/Design Plan of Temporary Pit (for in-place burial of a drying □ Protocols and Procedures - based upon the appropriate requirements of 19 □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements □ Disposal Facility Name and Permit Number (for liquids, drilling fluids an □ Soil Cover Design - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate requirements of Subsection □ Re-vegetation Plan - based upon the appropriate Plan - Based upon the appropriate Plan - Based upon the appropriate Plan -	requirements of 19.15.17.10 NMAC s of Subsection F of 19.15.17.13 NMAC s appropriate requirements of 19.15.17.11 NMAC g pad) - based upon the appropriate requirements of 19.15.17.13 NMAC requirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC d drill cuttings or in case on-site closure standards cannot on H of 19.15.17.13 NMAC	15.17.11 NMAC

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19. Oper 210r Application Certification:	
I hereby certify that the information submitted with this application is true, a	ccurate and complete to the best of my knowledge and belief.
Name (Print): Kurt Fagrelius	Title: Vice President, Exploration
Signature: Kuttegrul	Date: October 14, 2008
e-mail address: kfagrelius@duganproduction.com	Telephone: 505-325-1821(O), 505-320-8248(C)
OCD Approval: X Permit Application (including closure plan) Closu	re Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: CRWhitehead	Approval Date: August 16, 2021
Title:Environmental Specialist	OCD Permit Number: BGT 1
Closure Report (required within 60 days of closure completion): Subsectinity of 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:   On-Site Closure Method   Alt   If different from approved plan, please explain.	ternative Closure Method   Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Syst Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized.	tems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: drilling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	
Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate compliance to the items below) \( \subseteq \text{No.} \)	
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 closures)	
☐ 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	ongitude NAD: □1927 □ 1983
25.  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
Name (Print): Kurt Fagrelius	Title: Vice President, Exploration
Signature:	Date: October 14, 2008
e-mail address: kfagrelius@duganproduction.com	Telephone: 505-325-1821

## NCRA #1 Hydrogeologic Report

The NCRA #1 is located on Federal land in the center of the San Juan Basin, in Rio Arriba County, New Mexico. The area is characterized by an arid flat mesa with grass and sage. It is bordered by mesas (300-feet higher) 1-mile to the west with heavy stands of pinon and juniper and Largo Canyon (500-feet lower) 1-1/2 miles to the southwest. The area is well drained to the south by numerous arroyos and canyons that feed into Largo Canyon which in turn drains the region to the west during seasonal periods of run-off (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 NCRA #1 location (Exhibit 2). Three water wells were located in the search area. The closest water well is 3,500 feet northeast of the below grade tank, it was drilled to a depth of 450 feet and the depth to ground water was not reported. The other water wells are located approximately 4,100 feet northeast (total depth 550 and 560 feet, depth to water 250 and 465 feet). 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 25 - 50 feet below the surface and stock tanks constructed in surface shale layers along the confluence and upper reaches of arroyos. The below grade tank is not located in an arroyo. The closest arroyo is 300 feet west, the closest stock pond is 3,000 feet northeast (Exhibit 2).

The San Jose Formation extends from the surface down to 1005 feet. From the surface down the 120 feet the section is comprised of inter-bedded mudstone / shale, siltstone and thin sandstone. The interval from 120-310 is massive coarse grained sand that is exposed in the cliffs above Largo Canyon. The rest of the San Jose section down to the top of the Nacimiento (1005-feet) is comprised of alternating silty sand inter-bedded with mudstone / shale (sand content decreases with depth and silt and mud content increases). The San Jose sands have good reservoir quality and are capable of producing poor quality groundwater (>1800 TDS) (Stone, 1983).

Largo Canyon has breeched the San Jose Formation down to a depth of 500 feet 1-1/2 miles to the southwest. Water wells further from Largo encountered groundwater at a depth of 250 and 465 feet. At the location of the below grade tank poor quality ground water suitable for livestock use only, would be encountered at a depth of approximately 250 feet from San Jose sand.

Based on electric open hole logs, the iWATERS database, literature reviewed, depth to ground water ranges from 20 - 25 feet below the surface in and along Largo Canyon and 25-50 feet in the major arroyos. Moving away from the major washes and arroyos, ground water depth drops rapidly to greater than 200 feet below the surface. At the location of the subject below grade tank, ground water might be found at depths of approximately 250 feet from coarse grained, San Jose sand. Deeper sources of ground water would include the Nacimiento from 1005-1630 and the Ojo Alamo / Animas from 2000-2210 feet below the surface.

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.

# New Mexico Office of the State Engineer POD Reports and Downloads

NAD27 X:	Y:	Zone:	Search Radius:	
County: Ba	sin:		Number: Suffix:	
Owner Name: (First)	(Last)		Non-Domestic Domestic	Al
POD / Surface Data Rep	port Av	g Depth to Wate	er Report Water Column Report	
	Clear Form	iWATERS N	Menu Help	

### WATER COLUMN REPORT 10/12/2008

(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

Received by OCD: 5/5/2021 11:21:55 AM

# New Mexico Office of the State Engineer POD Reports and Downloads

	NAD27 X	V.		7	Canal I	D = dt	
	NADZI A	Y:		Zone:	Search I	Kadius:	
County:		Basin:			Number:	Suffix:	
Owner Nar	me: (First)		(Last)		Non-Don	nestic Domestic	All
PO	D / Surface Da	ata Report	Avg	Depth to Wate	r Report	Water Column Repor	t
		Clear	Form	iWATERS M	enu Help		

### WATER COLUMN REPORT 10/12/2008

	(quarter	s are	a 1=1	W.	2=NE	3=SW 4	=SE)							
	(quarter	s are	big	ge	st t	o small	est)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q e	P P	Zone		X	Y	Well	Water	Column		
RG 81025	27N	07W	35	4	3 3					560	465	95		
SJ 03274	27N	07W	35	3 -	4 4					450				
SJ 02404	27N	07W	35	4	3 3					550	250	300		

Record Count: 3

## Siting Criteria for the NCRA #1 Below Grade Tank

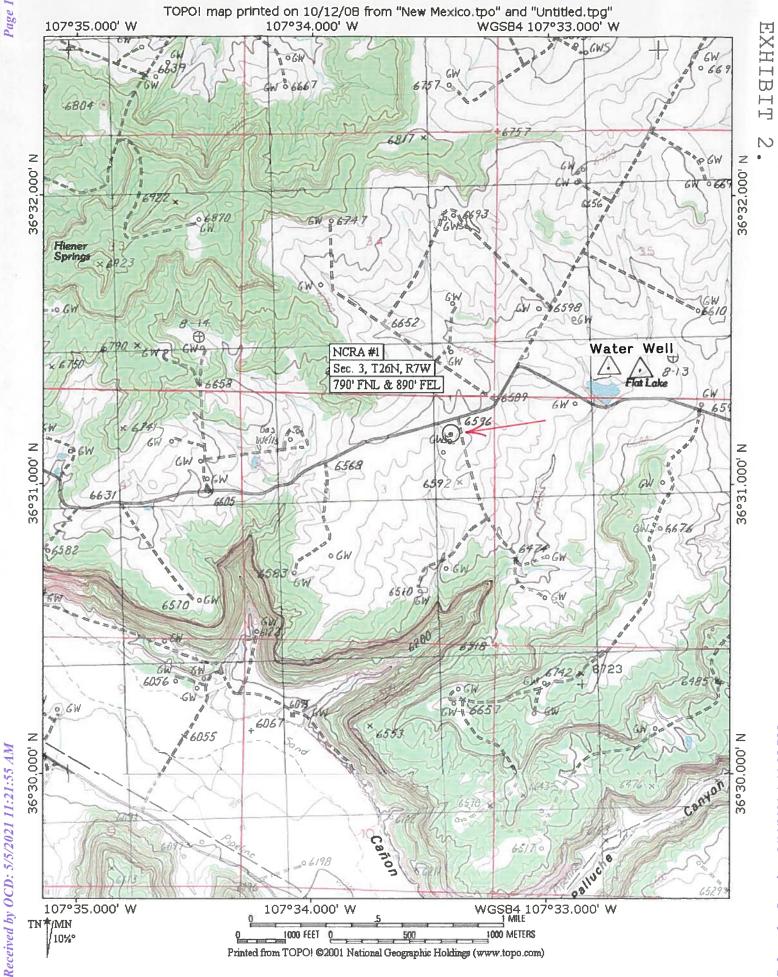
- 1. Ground water is not less than 50-feet below the bottom of the below grade tank. Ground water is greater than 100-feet below the bottom of the below grade tank (See Hydrogeologic Report).
- 2. The below grade tank is not within 300-feet of a continuously flowing water course, or 200 feet of any other 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.

# NCRA #1 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 NCRA #1 below grade tank (August 4, 2008). The location of the NCRA #1 below grade tank is in 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.

Kurt Fegulian Kurt Fagrelius

11-8-08 Date



EXHIBIT



XHIBIT
4
•

## New Mexico Office of the State Engineer **POD Reports and Downloads**

Towns	hip: 26N	Range: 07W	Sections: 2,3				
NAD27	X:	Y:	Zone:	Search	Radius:		
County:	Basin	1:		Number:	Suffix	K:	
Owner Name: (First)	)	(Last)		Non-Do	omestic D	omestic	Al
POD / Surface	Data Report	Av	g Depth to Water	Report	Water Colu	mn Report	
		Clear Form	iWATERS Me	nu Help			

### WATER COLUMN REPORT 10/11/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Water (in feet) Depth Depth Tws Rng Sec q q q Zone POD Number Well Water Column

No Records found, try again

# New Mexico Office of the State Engineer POD Reports and Downloads

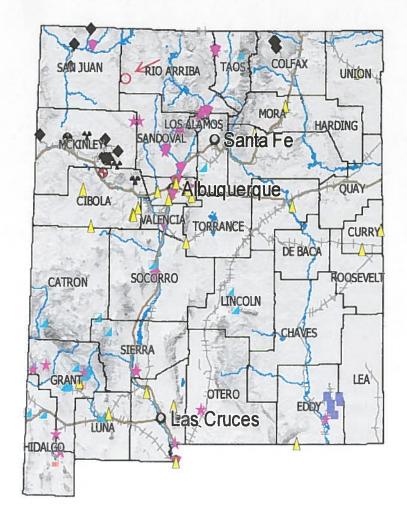
NAD27	X:	Y:	Zone:	Search Radius:	
County:	Basin:			Number: S	Suffix:
Owner Name: (Fir	st)	(Last)		Non-Domestic	Domestic All
POD / Surfac	ce Data Report	Avg	Depth to Water F	Report Water	Column Report
POD / Surfac	e Data Report	Avg	Depth to Water F	Report Water	Column Repo
		Avg	Depth to Water F		Column Report

### WATER COLUMN REPORT 10/11/2008

						smalles			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	PI	Zone	x	Y	Well	Water	Column	
RG 81025	27N	07W	35	4	3				560	465	95	
SJ 03274	27N	07W	35	3 4	1 4				450			
SJ 02404	27N	07W	35	4	3 3				550	250	300	

Record Count: 3

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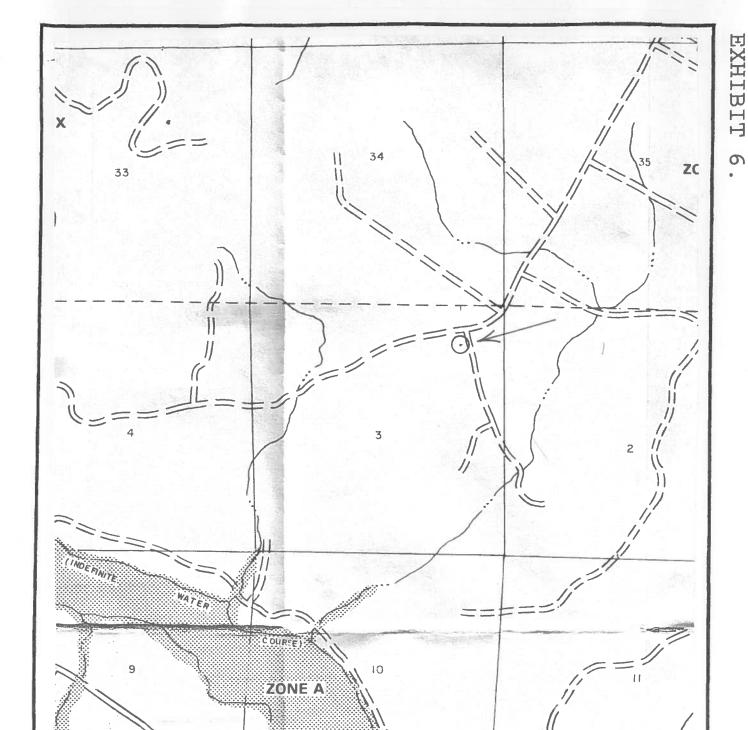
# Mine, Mills and Quarry Map of New Mexico

Dugan Production Corp.

NCRA #1

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

Mining and Minerals Division.



FEMA 100-Year Floodplain Map NCRA #1

# NCRA #1 Below Grade Tank Design and Construction Plan

The NCRA #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 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 NCRA #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. If the NCRA #1 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 NCRA #1 below grade tank will be covered with steel, expanded metal or chicken wire for screening or netting on top of the tank.
- 6. NCRA #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, 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. NCRA #1 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.

Pre-Treated Lumber will be used as needed to

insure integrity of vault walls.

# EXHIBIT 24" Berm to Prevent Surface of 2" X 1/8" Angle Iron and Perforated Walk-Way Material Below Grade Tank Vault-Firm, Level Foundation Walkway/Bridge With Steps and Handrail, Constructed Dependent on Soil Conditions, 2" x 12" Slope of Vault Walls Will Be 3'-Vert/1'-Horiz. Free of Rocks, Debris or Irregularities. Slope=3:1 Below Grade Tank Vault Wall Run-On. 7. 1 'H Point Inspection Visual Dugan Production Corp. Steel, Expanded Metal or Chicken Wire for Screening or Netting NCRA #1 12" Load Line Minimum 6" Lift Above Underlying Liner Below Grade Tank-Single Wall, Constructed of 1/4" Carbon Steel, API Rated, Visible Walls and Liner. or 60-mil HDPE. May have 1/2" Gravel on Top of Liner. Liner Constructed of 30-mil PVC High Level Shut-Off Valve Wire or 1/4" Tbg Connect to Compressor or Prod Unit. Set for 12" Freeboard. Tank will have a Ground Level Manual Shut-Off Valve

and Set-Back at least 24" from Walls of

Vault. Tank Volume\_80\_bbls, Depth\_6\_Feet

- 9. The NCRA #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 and set back at least 24" from walls of vault. 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 NCRA #1 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.

# NCRA #1 Below Grade Tank Maintenance and Operation Plan

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

- 1. The NCRA #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. 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 NCRA #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 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.

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6. Any measurable oil will be continuously removed from the NCRA #1 below grade tank to prevent a significant accumulation of oil overtime.

7. The NCRA #1 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.

		Chec	k and F	Record Inti	egrity		Trash	Note a	ind Pick-Up	Check for Pr	oper Operation	Freeboard	Fluid Level	Signature
Date	Fence			Tank	Vault	Leak			Location	High Level	Manual	Minimum 12"		
			No times to to to to	Screen	Slopes	Detect.				Shut off valve	Shut off valve		Bottom - Up	
1o/Yr		G = G	od, F	= Fair, P	= Poor		Υ:	Yes.	N = No	G = Good	, B = Bad	Feet 8	Inches	Monitor's

8. Adequate freeboard will be maintained to prevent overtopping of the NCRA #1 below grade tank. High level shut off valves will close when fluid reaches 12 inches from top of tank.

# NCRA #1 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				1, 1
Permanent Pit-Design and Constr	Permit Applc 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		333330
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).

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3. The NCRA #1 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.

- 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.

# NCRA #1 Below Grade Tank Request for Administrative Approval

Administrative approval is hereby requested for an alternative to the fencing design for the NCRA #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.

<u>District I</u> 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**

QUESTIONS

Action 27008

### **QUESTIONS**

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
709 E Murray Drive	Action Number:
Farmington, NM 87499	27008
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

### QUESTIONS

Facility and Ground Water				
Please answer as many of these questions as possible in this group. More information will help us identify the appropriate associations in the system.				
Facility or Site Name	NCRA #1			
Facility ID (f#), if known	Not answered.			
Facility Type	Below Grade Tank - (BGT)			
Well Name, include well number	NCRA #1			
Well API, if associated with a well	30-039-06757			
Pit / Tank Type	Production			
Pit / Tank Name or Identifier	Not answered.			
Pit / Tank Opened Date, if known	Not answered.			
Pit / Tank Dimensions, Length (ft)	Not answered.			
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.			
Pit / Tank Dimensions, Depth (ft)	Not answered.			
Ground Water Depth (ft)	250			
Ground Water Impact	No			
Ground Water Quality (TDS)	Not answered.			

Below-Grade Tank				
Subsection I of 19.15.17.11 NMAC				
Volume / Capacity (bbls)	80			
Type of Fluid	Produced Water			
Pit / Tank Construction Material	Fiberglass			
Secondary containment with leak detection	False			
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	False			
Visible sidewalls and liner	True			
Visible sidewalls only	False			
Tank installed prior to June 18. 2008	Not answered.			
Other, Visible Notation. Please specify	Not answered.			
Liner Thickness (mil)	20			
HDPE (Liner Type)	True			
PVC (Liner Type)	Not answered.			
Other, Liner Type. Please specify (Variance Required)	Not answered.			

Fencing		
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)		
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.	
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.	
Alternate, Fencing. Please specify (Variance Required)	4' = 3' Hog wire + 1 strand barbed wire	

Netting				
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)				
Screen	Not answered.			
Netting	True			
Other, Netting. Please specify (Variance May Be Needed)	Not answered.			

## Signs

Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)

Ì	12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	True
Ī	Signed in compliance with 19.15.16.8 NMAC	Not answered.

/ariances and Exceptions				
Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:				
Variance(s):  Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.			
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.			

## Siting Criteria (regarding permitting)

19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

Siting Criteria, General Siting		
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	No	
NM Office of the State Engineer - iWATERS database search	True	
USGS	Not answered.	
Data obtained from nearby wells	True	

Siting Criteria, Below Grade Tanks		
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	No	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	No	

Proposed Closure Method		
Below-grade Tank	Below Grade Tank - (BGT)	
Waste Excavation and Removal	True	
Alternate Closure Method. Please specify (Variance Required)	Not answered.	

Operator Application Certification	
Registered / Signature Date	10/14/2008

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ACKNOWLEDGMENTS

Action 27008

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Operator:	OGRID:	
DUGAN PRODUCTION CORP	6515	
709 E Murray Drive	Action Number:	
Farmington, NM 87499	27008	
	Action Type:	
	[C-144] Legacy Below Grade Tank Plan (C-144LB)	

### **ACKNOWLEDGMENTS**

V	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.
W.	I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.

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CONDITIONS

Action 27008

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	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

### CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	8/16/2021