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.

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

Type of action:

| 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

	ndividual pit, closed-loop system, below-grade tank or alternative request				
	ability 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 AUG 1 '08				
Address: 709 East Murray Drive, Farmington, New Me	xico 87401 OIL CONS. DIV.				
Facility or well name: A New Dawn #1					
API Number:30-039-21413	OCD Permit Number:				
U/L or Qtr/Qtr NW/4 SW/4 Section 14 Township 24	N Range 5W County: Rio Arriba				
Center of Proposed Design: Latitude 36.30858 North	_Longitude107.33553 West NAD: ☒ 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: Thicknessmıl				
Liner type: Thicknessmil	Other				
Other String-Reinforced	Seams: Welded Factory Other				
Seams: Welded Factory Other	Volumebblyd³				
Volumebbl	Dimensions: Lengthx Width				
X Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC				
Volume:bbl	☐ Chain link, six feet in height, two strands of barbed wire at top				
Type of fluid: Produced H2O	Four foot height, four strands of barbed wire evenly spaced between one and				
Tank Construction material: Fiberglass	four feet Other Fencing 4'=3' Hog Wire + Top Rail				
☐ Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC				
☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting X Other Fiberglass Cover				
☐ Visible sidewalls and liner	☑ Monthly inspections				
☐ Visible sidewalls only See Closure Plan®	Signs: Subsection C of 19.15.17 11 NMAC				
X Other No visible sidewalls, No leak detection	X 12'x24', 2' lettering, providing Operator's name, site location, and				
Liner type: Thicknessmil HDPE PVC	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				

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other 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 (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☒ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☒ NA
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 X 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 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 ☒ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.91 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Yes a check mark in the box attached Yes a check mark in the box attached	cuments are
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 do attached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 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	19.15.17 15
Previously Approved Design (attach copy of design) API Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC	'
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do	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 H₂S, Prevention Plan 	
☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization	
 ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15 17.13 NMAC 	
Proposed Closure: 19.15.17.13 NMAC	
Type: Drilling Workover Emergency Cavitation Permanent Pit X Below-grade Tank Closed-loop System	Alternative
Proposed Closure Method: Waste Excavation and Removal On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial	-
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for con	nsideration)
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	
Ground water is less than 50 feet below the bottom of the buried waste. 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

closure plan. Please indicate, by a check mark in the box, that the documents at	Instructions: Each of the following items must be attached to the			
Protocols and Procedures - based upon the appropriate requirements of 19.1				
Confirmation Sampling Plan (if applicable) - based upon the appropriate red	quirements 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				
Site Reclamation Plan - based upon the appropriate requirements of Subsection				
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins C	Only: (19.15.17.13.D NMAC) Instructions: Please indentify the fa	cility		
or facilities for the disposal of liquids, drilling fluids and drill cuttings.				
Disposal Facility Name:	Disposal Facility Permit Number:			
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.	ne following items must be attached to the closure plan. Please ind	icate,		
Siting Criteria Compliance Demonstrations - based upon the appropriate rec	quirements of 19.15.17.10 NMAC			
Proof of Surface Owner Notice - based upon the appropriate requirements o				
 Construction and Design of Burial Trench (if applicable) based upon the appropriate requirements of 19.1 				
Confirmation Sampling Plan (if applicable) - based upon the appropriate rec				
Waste Material Sampling Plan - based upon the appropriate requirements of				
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and ☐ Soil Cover Design - based upon the appropriate requirements of Subsection				
Re-vegetation Plan - based upon the appropriate requirements of Subsection				
Site Reclamation Plan - based upon the appropriate requirements of Subsect				
Operator Application Certification:				
I hereby certify that the information submitted with this application is true, accura	te and complete to the best of my knowledge and belief.			
Name (Print): Kurt Fagrelius	Title: Vice President, Exploration			
Signature: Kurt Fagrelin	Date: 7-31-08			
e-mail address: kfagrelius@duganproduction.com	Telephone: 505-325-1821 (O), 505-320-8248 (C)			
OCD Approval: Permit Application (including closure plan) Closure Plan	ın (only)			
	Approval Date: 8-5-48			
	• •			
OCD Representative Signature: 33d Sall	Approval Date: 8-5-48 OCD Permit Number:			
OCD Representative Signature: Self Self Title: Engine Spec Closure Report (required within 60 days of closure completion): Subsection For Closure Method:	Approval Date: 8-5-48 OCD Permit Number: C of 19.15.17.13 NMAC Closure Completion Date:			
OCD Representative Signature: Sel Sell Title: English Spec Closure Report (required within 60 days of closure completion): Subsection F	Approval Date: 8-5-48 OCD Permit Number: C of 19.15.17.13 NMAC Closure Completion Date:			
OCD Representative Signature: Sell Sell	Approval Date: 8-5-48 OCD Permit Number: Cof 19.15.17.13 NMAC Closure Completion Date:	eck		
OCD Representative Signature: Selection Filte: Electron Sepect. Closure Report (required within 60 days of closure completion): Subsection Filter Filter Subsection Filter Filter Subsection Filter F	Approval Date: 8-5-48 OCD Permit Number: Cof 19.15.17.13 NMAC Closure Completion Date:	eck		
OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Subsection Following items and Removal On-Site Closure Method: If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the following items are in the box, that the documents are attached. Proof of Closure Notice	Approval Date: 8-5-48 OCD Permit Number: Cof 19.15.17.13 NMAC Closure Completion Date:	eck		
OCD Representative Signature: Title:	Approval Date: 8-5-48 OCD Permit Number: Cof 19.15.17.13 NMAC Closure Completion Date:	eck		
Title:	Approval Date: 8-5-48 OCD Permit Number: Cof 19.15.17.13 NMAC Closure Completion Date:	eck		
Title:	Approval Date: 8-5-48 OCD Permit Number: Cof 19.15.17.13 NMAC Closure Completion Date:	eck		
Title:	Approval Date: 8-5-48 OCD Permit Number: Cof 19.15.17.13 NMAC Closure Completion Date:	eck		
Title:	Approval Date: 8-5-48 OCD Permit Number: Cof 19.15.17.13 NMAC Closure Completion Date:	eck		
Title:	Approval Date: 8-5-48 OCD Permit Number: K of 19.15.17.13 NMAC Closure Completion Date: ive Closure Method ms must be attached to the closure report. Please indicate, by a che	eck		
Title:	Approval Date: 8-5-48 OCD Permit Number: K of 19.15.17.13 NMAC Closure Completion Date: ive Closure Method ms must be attached to the closure report. Please indicate, by a che	eck		
Title:	Approval Date:	eck		
Title:	Approval Date:	eck		
Title:	Approval Date:	eck		

A New Dawn #1 Hydrogeologic Report

The A New Dawn #1 is located on Jicarilla Reservation Lands in the southeast of the San Juan Basin in San Juan County, New Mexico. The area can be characterized as an arid, narrow, flat valley of Largo Wash bordered by gentle rolling hills to the north and south. Sparse, isolated stands of pinon and juniper trees are found on some of the ridgelines, the rest of the area is sparsely vegetated with grass and sage. The area is well drained to the west by Largo Wash and numerous small arroyos that empty into it.

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

The main source of stock water in the region is encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 15-50 feet below the surface and stock tanks constructed in surface shale layers along the upper reaches of arroyos. The proposed below grade tank is not located in an arroyo. Largo Wash is located 1500 feet north and a smaller arroyo is located 230 feet northeast of the proposed below grade tank. The wash and arroyo have breeched the surface down to a depth of 30 feet.

The San Jose Formation extends from the surface down to a depth of approximately 1050 feet. From the surface down to 300 feet, the section is mudstone / shale with a few isolated stringers of siltstone. At a depth of 300 feet, there is a sandstone bed (25 feet thick) that might contain minimal amounts of poor quality groundwater. The rest of the San Jose section from 325 feet down to the top of the Nacimiento at 1050 is comprised of inter-bedded siltstone and shale. The Nacimiento section from 1050 down to the Ojo Alamo at 1875 has several sands (20-60 feet thick) that have good reservoir qualities and could contain a good volume of poor quality water.

The San Jose and Nacimiento intervals are a source of ground water for livestock purposes and more rarely domestic use in some areas near the outcrop. With depth and distance from the outcrop, water quality decreases quickly and may be useful for livestock only.

Based on electric open hole logs, the iWATERS database, literature reviewed, depth to ground water ranges from 15 - 50 feet below the surface in major arroyos in the area. Moving away from the wash ground water depth drops rapidly to greater than 200 feet below the surface. At the location of the subject below grade tank, lesser amounts of poor quality ground water might be found at depths of approximately 300 - 325 feet below the surface in a laterally discontinuous sand interval in the San Jose Formation. Deeper sources of ground water would be the Nacimiento from 1050 feet down to the 1875 feet and the Ojo Alamo from 1875 down to 1940 feet.

Due to the excessive drilling depth, high silt content in the sands, poor water and reservoir quality and unpredictable nature of sand occurrence, there has not been any San Jose or Nacimiento water wells drilled in the area of the subject below grade tank.

- 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

	Town	nship:	24N Range:	05W	Sections:	10,11,12	,13,14,15,2	2,23,24		
	NAD27	X:	Y:		Zone:	1.3	Search	Radius	:	
County:			Basin:			∐ Nu	ımber:		Suffix:	
Owner N	ame: (Fir	st)		(Last)		(○ Non-Do	mestic	O Domestic	@ All
Р	OD / Surfac	e Data	Report	Avg	Depth to W	ater Repo	ort	Wate	r Column Repor	t
			Clear F	orm	iWATERS	S Menu	Help			

WATER COLUMN REPORT 07/16/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

Depth Depth Water (in feet)

Tws Rng Sec q q q Zone X Y Well Water Column

No Records found, try again

POD Number

Siting Criteria for the A New Dawn #1

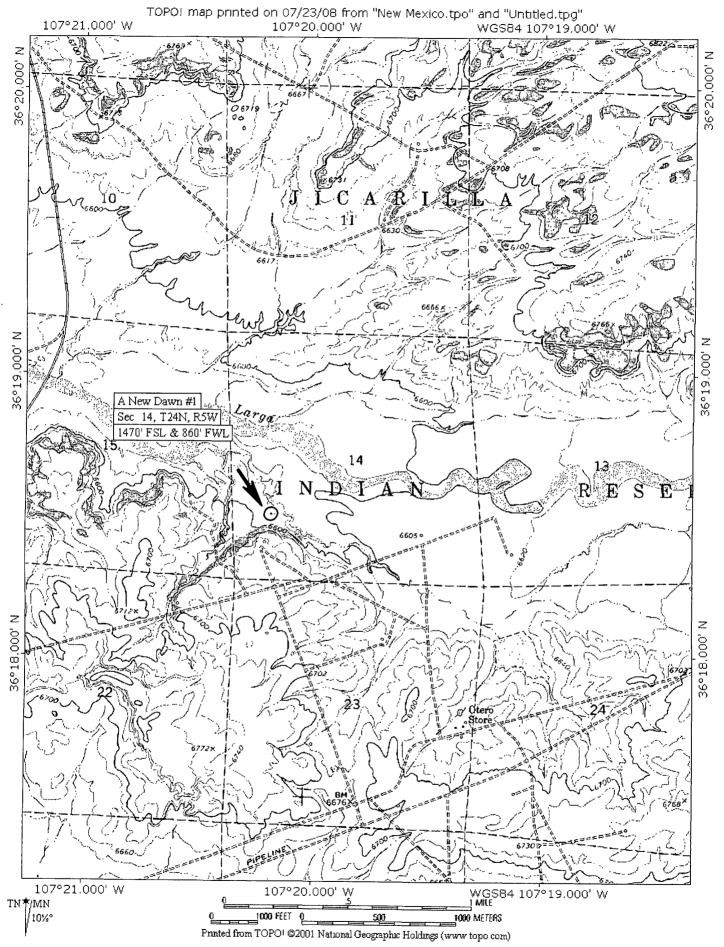
- 1. Ground water is not less than 50-feet below the bottom of the below grade tank. Ground water is greater than 100-feet below the bottom of the below grade tank.
- 2. The below grade tank is not within 300-feet of a continuously flowing water course, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from ordinary high water mark). See the attached Topographic map (Exhibit 2) and Visual Inspection Certification of the location and area around the subject below grade tank.
- 3. The below grade tank is not within 300-feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. See the attached Satellite Image (Exhibit 3) and Visual Inspection certification of the location and area around the subject below grade tank.
- 4. The below grade tank is not within 500-feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. See the attached NM Office of the State Engineer iWATERS database search (Exhibit 4) and Visual Inspection certification of the location and area around the subject below grade tank.
- 5. The below grade tank is not located within the incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978 Section 3-27-3, as amended. See the attached Topographic map of the location and area around the subject below grade tank.
- 6. The below grade tank is not located within 500-feet of a wetland. See the attached Topographic map and Visual Inspection Certification of the location and area around the subject below grade tank.
- 7. The below grade tank is not located within the area overlying a subsurface mine. See the attached Mine, Mills and Quarry Map of New Mexico (New Mexico, EMND 2008) (Exhibit 5) showing the location and area around the subject pit.
- 8. The below grade tank is not located within an unstable area. See the attached Topographic map of the location and area around the subject below grade tank.
- 9. The below grade tank is not located within a 100-year floodplain area. See the attached FEMA map (Exhibit 6) of the 100 year floodplain showing the location and area around the subject pit.

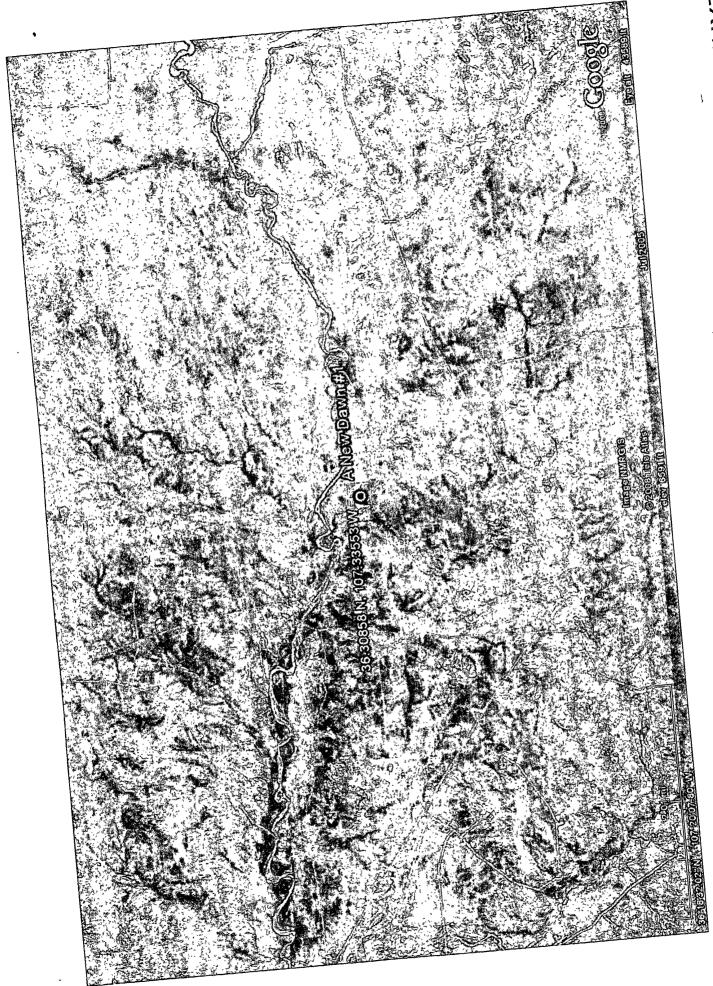
A New Dawn #1 Visual Inspection Certification

I, Kurt Fagrelius, Vice President of Exploration for Dugan Production Corp. 709 East Murray Drive, Farmington, New Mexico hereby certify that I or persons under my direct supervision, prepared the attached exhibits and conducted a Visual Inspection of the location and area around the A New Dawn #1 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.

Kurt Fagrelius

7-31-08 Date

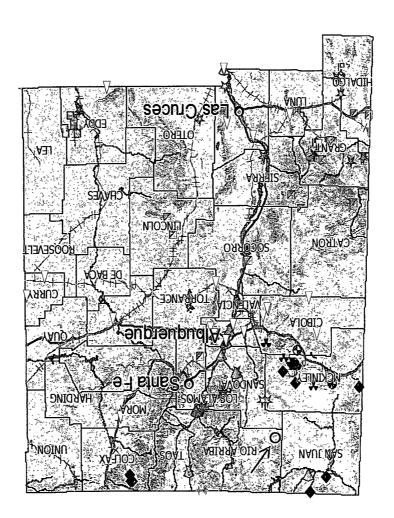




New Mexico Office of the State Engineer POD Reports and Downloads

			1 OD IXO	ports and bon	mouds				
	Town	ship: 241	N Range: 05W	Sections: 14					
	NAD27	X:	Y:	Zone:		Search Radi	us:		
County:		B	asin:) _q ² <u>}</u>	Num	ber:	Suffi	x:	
Owner Na	nme: (Firs	t)	(Last)		_ 0	Non-Domesti	с () [Oomestic	All
PC	DD / Surface	e Data Re	port Av	g Depth to Wate	r Report		iter Colu	ımn Repor	t
			Clear Form	iWATERS M	enu	Help			
	ори от вто прес пудуу ду нуу дуучу томогой от	ada arayay ya payay yayan antara ayaan ahaar	WATER CO	LUMN REPORT	07/16/	2008			
POD Number	(quar	ters ar	e 1=NW 2=NE 3=S e biggest to sm Secgaa Zo	allest)	Y	-	Depth ater	Water Column	(in feet)

No Records found, try again

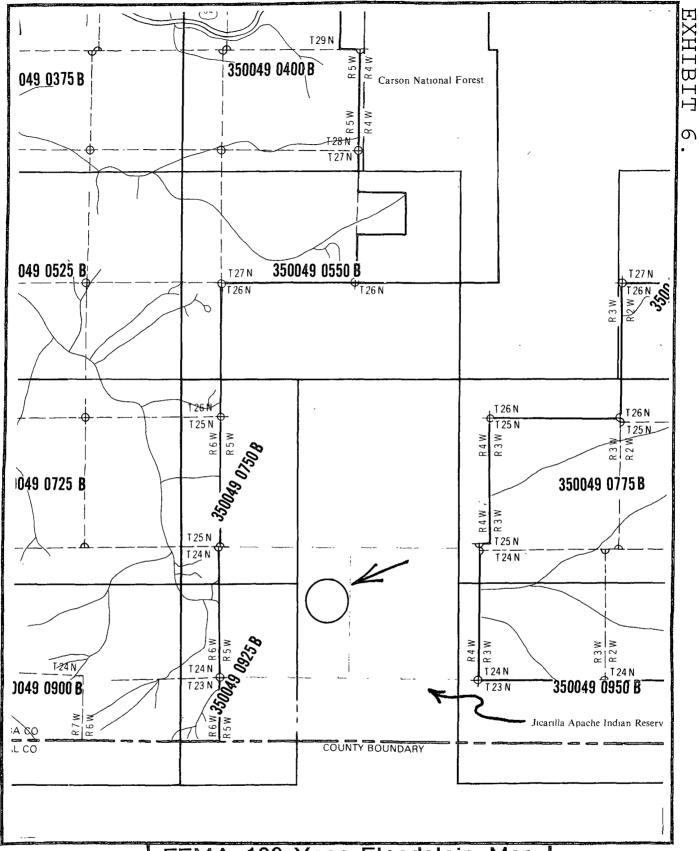


Mine, Mills and Quarry Map of New Mexico

Dugan Production Corp. A New Dawn #1

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

Mining and Minerals Division.



FEMA 100-Year Floodplain Map

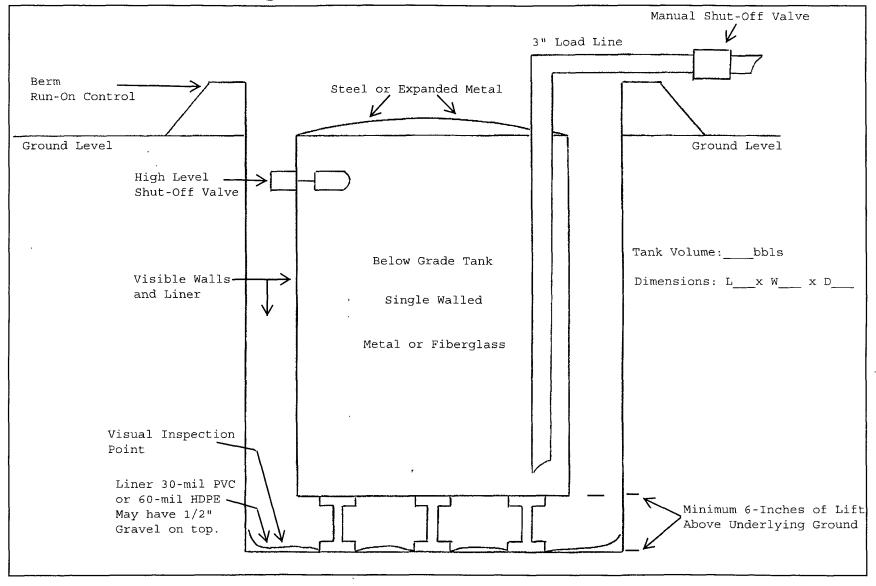
A New Dawn #1

A New Dawn #1 Design and Construction Plan

The A New Dawn #1 below grade tank will be designed and constructed in accordance with the following requirements:

- 1. Below grade tank will be designed and constructed to contain liquids and solids, prevent contamination of fresh water and protect the public health and environment (Exhibit 7).
- 2. Stockpile topsoil prior to digging pit, keep separate from subsoil and use as final cover and fill when closing pit.
- 3. Sign-12" by 24" with operator name, lease name, well #, location (unit letter, qtr/qtr, Sect., Twp., and Rge.) and emergency phone #'s will be posted on location. Sign will be posted in a location where it can be easily read.
- 4. Fencing around the A New Dawn #1 below grade tank will be constructed and operated in a manner that prevents unauthorized access and shall be maintained in good condition to protect the public and wildlife. Fencing will include a 4-foot hog wire fencing with two strands of barbed wire or top rail of re-bar or pipe on top. See the attached request for Administrative Approval. The A New Dawn #1 below grade tank is not located within 1000 feet of a house, school, hospital or church.
- 5. The A New Dawn #1 below grade tank will be covered with expanded metal, chicken-wire or a metal lid on top of the tank.
- 6. A New Dawn #1 below grade tank will be designed and constructed to ensure the confinement of liquids and prevent unauthorized releases. Pit will be constructed with a firm foundation and interior slopes, smooth and free of rocks or sharp edges to prevent punctures, cracks or indentations of the liner or tank bottom.
- 7. A New Dawn #1 below grade tank will be constructed of materials resistant to the tank's particular contents and resistant to damage from sunlight.
- 8. Liner will be 30-mil flexible PVC or 60-mil HDPE, string reinforced, impervious material, resistant to UV light, hydrocarbons, salt, acidic or basic liquids. The liner will have a hydraulic conductivity less than 1 x 10-9 cm/sec. Liner compatibility will comply with EPA SW-846.
- 9. The A New Dawn #1 below grade tank will be constructed with single walled sides and bottom which will be open for visual inspection for leaks. The below grade tank will be elevated a minimum of 6-inches above the underlying ground surface. The below grade tank will be underlain with a geo-membrane liner designed to divert any leaked fluid to a visual inspection point. Liner may be covered with gravel.
- 10. The A New Dawn #1 below grade tank will be equipped with a properly operating automatic high-level shut-off control device and manual controls to prevent overflows.
- 11. Diversionary berms, ditches or sloping will be constructed as necessary to prevent overflow and the collection of surface water entrapment.

Design Plan For Below Grade Tank



Dugan Production Corp.
A New Dawn #1

A New Dawn #1 Operational Requirements

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

- 1. The A New Dawn #1 below grade tank will be operated and maintained to contain liquids and solids and maintain the integrity of the tank / liner system or secondary containment system to prevent contamination of fresh water and protect public health and environment.
- 2. All fluids will be recycled, reused, reclaimed or disposed of in a manner approved by NMOCD rules.
- 3. Do not dispose of solid waste, trash, debris or hazardous material into the pit.
- 4. If the A New Dawn #1 below grade tank develops a leak or if a penetration occurs below the liquids surface, all liquid will be removed above the damage or leak line within 48-hours. The NMOCD office will be notified within 48-hours of the discovery. The below grade tank / liner system or secondary containment system will then be either replaced or repaired.
- 5. Below grade tank will be constructed and operated in a manner that prevents the tank from over flow and prevents surface water from entering the pit. Diversion berms will be constructed around the sides of pit and an automatic high level shut-off will be installed.
- 6. Any measurable oil will be continuously removed from the A New Dawn #1 below grade tank to prevent a significant accumulation of oil overtime.
- 7. The A New Dawn #1 below grade tank will be inspected at least monthly and records of each inspection will be maintained for five years.
- 8. Adequate freeboard will be maintained to prevent overtopping of the A New Dawn #1 below grade tank.

A New Dawn #1 Closure Plan-Methods, Procedures and Protocols

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

Existing On June 16, 2008	Permit Apple Submittal or Modification Request	File Closure Plan By	Stop Use By	Close By
Temporary Pit - Unlined	Not Permtd under 19 15.17	7/16/2008	Upon drlg rig release	9/16/2008
Permanent Pit - Unlined or Lined	Not permitted with NMOCD	7/16/2008	6-16-2008	12/16/2008
Permanent Pit - Unlined	Permitted or with NMOCD	12-16-2008	6-16-2010	6-16-2011
BGT-Aprvd. Design	Not Permtd under 19.15 17	12/16/2008	failed integrity replc	
	Applc. by 9-16-2008		w/apprvd design	
BGT-Not/Aprocl/Design/Not/Retrofits	Not Permtd under 19 15 17 Mod Rqust by 9-16-2008	12/16/2008	6/16/2013	6-16-2013
BGT-Not Aprvd Design Nor Retrofit to comply w/19.15 17	NA	12/16/2008	6/16/2013	6/16/2013
Permanent Pit-Design and Constr	Mod. Rqust by 12-16-2008	12/16/2008 submit w/mod	failed integrity replc	60-days after cessation
Does not comply w/19.15.17 permitted and lined	Comply w/ın 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 after cessation
Does not comply w/19.15.17 Registered and Lined	Comply w/in 18-mos of aprvl	Applic		
Permanent Pít	Permitted under 19 15 17	60-Days prior to close		
Temporary Pit	Permitted under 19.15.17	Prior to closure	Upon drlg rig release	6-mos after rig release
BGT	Permitted under 19 15 17	12/16/2013 or prior to closure	failed integrity replc w/apprvd design	60-days after cessation

- 2. The A New Dawn #1 below grade tank was registered under rule 50; however, it is not an approved design under rule 19.15.17. Upon approval of this application, the existing below grade tank will be closed and a new below grade tank that meets the design requirements of rule 19.15.17 will be constructed.
- 3. Below grade tank will be closed within 60-days after cessation of use.
- 4. Proof of closure notice will be provided by certified mail to surface owner after closure. Proof of notice will be attached to final closure report.

- 5. Remove all liquid from below grade tank prior to closure and dispose of at the Dugan Production operated Sanchez O'Brien #1 SWD (permit SWD-694) located 1650 feet from the South line and 990 feet from the West line (Unit L) of Section 6, Township 24 North, Range 9 West.
- 6. All solids from the below grade tank and all solids removed from the containment pit will be excavated, hauled to and disposed of at either the Envirotech facility (permit #NM-01-0011) facility located in Section 6, Township 26 North, Range 10 West or the IEI facility (permit NM-01-0010B) located in Section 2, Township 29 North, Range 12 West.
- 7. Remove below grade tank and dispose of in a NMOCD approved facility, or recycle, reuse, or reclaim it in a manner that the NMOCD approves.
- 8. On site equipment associated with the below grade tank will be removed unless it is needed for some other purpose.
- 9. Collect a five point, composite sample of the soils beneath the below grade tank (any area that is wet, discolored or shows evidence of a release) to demonstrate that Benzene, BTEX, TPH and chlorides do not exceed the standards as specified in 19.15.17.13.E or the background concentration, whichever is greater.

Components	Test Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
GRO/DRO	EPA SW-846 8015M	NS
Chlorides	EPA 300.1	250 or Background

- 10. The NMOCD will be notified of the testing results on form C-141.
- 11. If it is determined that a release has occurred, rule 19.15.3.116 NMAC and 19.15.1.19 NMAC will be complied with as required.
- 12. If the sampling results demonstrate that a release has not occurred, or that any release does not exceed the concentrations specified above or background concentrations, the pit will be backfilled with compacted, non-waste containing, earthen material.
- 13. Stockpiled sub-surface soil will be used to backfill pit and re-contour (to a final or intermediate cover that blends with the surrounding topography). A minimum of four feet of compacted, non-waste containing, earthen material will be used as backfill.
- 14. Stockpiled surface soil will be used as a cover over the backfilled pit and disturbed area no longer needed for production operations. The soil cover will include either the background thickness of top soil or one foot of suitable material to establish vegetation at the site whichever is greater.
- 15. The area will be re-seeded as per BLM guidelines. Re-seeding will be repeated until 70% of the native natural cover is achieved and maintained for two successive growing seasons. The first growing season after the pit is closed the disturbed area will be re-seeded. The seeding method will be to drill on contour whenever possible.

16. The NMOCD will be notified within 60-days of closure of the below grade tank. The closure report will be filed on form C-144 and will document all closure activities, sampling results, a plot plan, and details on backfilling and capping where applicable.

17. The NMOCD will be notified once successful re-vegetation has been achieved.

A New Dawn #1 Request for Administrative Approval

Administrative approval is hereby requested for an alternative to the fencing design for the A New Dawn #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.