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

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### <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   Modification to an existing permit   X   Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, 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.  |
| 1.   |
| Operator: Dugan Production Corp. OGRID#: 006515  |
| Address: 709 East Murray Drive, Farmington, New Mexico 87401   |
| Facility or well name: Mona Lisa #2  |
| API Number: 30-039-25745 OCD Permit Number   |
| U/L or Qtr/Qtr J Section 14 Township 26N Range 7W County: Rio Arriba   |
| Center of Proposed Design. Latitude 36.48315 North Longitude 107.54172 West NAD: X1927 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: L x W x D  |
|  |
| Closed-loop System: Subsection H of 19.15.17.11 NMAC   |
| Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)   |
| ☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other  |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other  |
| Liner Seams: Welded Factory Other  |
| 4  |
| ☑ Below-grade tank: Subsection Lof 19.15.17.11 NMAC  |
| Volume. 100 bbl Type of fluid: Produced Water and Compressor Fluid (See Closure Plan #3)   |
| Tank Construction material: Steel  |
| Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off   |
| ☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other No visible sidewalls, leak detection  |
| Liner type: Thickness mil  HDPE PVC Other  |
| 5.   |
| Alternative Method:  |

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

| Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)  | hospital,                   |
|---|-----------------------------|
| Four foot height, four strands of barbed wire evenly spaced between one and four feet  X Alternate Please specify 4' = 3'Hog Wire + Top Roil  |                             |
| M. Meridie Fredse specify   |                             |
| Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  X Screen Netting Other  X Monthly inspections (If netting or screening is not physically feasible)  |                             |
| 8. Signs: Subsection C of 19.15.17.11 NMAC  |                             |
| ▼ 12"x 24". 2" lettering, providing Operator's name, site location, and emergency telephone numbers   |                             |
| Signed in compliance with 19.15.3.103 NMAC  |                             |
| 9.  Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:   | .07 6                       |
| <ul> <li>Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of consideration of approval.</li> <li>Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul>   | 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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system. | priate district<br>pproval. |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search: USGS; Data obtained from nearby wells  | ☐ Yes ☐ No                  |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map: Visual inspection (certification) of the proposed site  | ☐ Yes ☒ No                  |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image   | Yes    No     NA     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<br>☐ 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 X No                  |
| Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (certification) of the proposed site   | ☐ Yes ☒ No                  |
| Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division   | ☐ Yes ☒ No                  |
| Within an unstable area.  - Engineering measures incorporated into the design: NM Bureau of Geology & Mineral Resources: USGS; NM Geological Society. Topographic map   | Yes X No                    |
| Within a 100-year floodplain FEMA map   | X Yes ☐ No                  |

Form C-144 Oil Conservation Division Page 2 of 5

| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  |   |
|--|---|
| Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15.17.9 NMAC Siting Criteria Comphance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  |   |
| <ul> <li>☑ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>☑ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC</li> <li>and 19.15.17.13 NMAC</li> </ul>   |   |
| Previously Approved Design (attach copy of design) API Number: or Permit Number:   |   |
| 12.  | _ |
| Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.   |   |
| Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   |   |
| Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  |   |
| Previously Approved Design (attach copy of design)  API Number   |   |
| Previously Approved Operating and Maintenance Plan API Number (Applies only to closed-loop system that use   |   |
| above ground steel tanks or haul-off bins and propose to implement waste removal for closure)  |   |
| Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.   |   |
| <ul> <li>☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC</li> <li>☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>☐ Climatological Factors Assessment</li> <li>☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC</li> </ul>   |   |
| 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   |   |
| <ul> <li>☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan</li> </ul>   |   |
| <ul> <li>Emergency Response Plan</li> <li>Oil Field Waste Stream Characterization</li> <li>Monitoring and Inspection Plan</li> </ul>   |   |
| 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  |   |
| 14.  | _ |
| Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.   |   |
| Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative   |   |
| Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)   |   |
| <ul> <li>On-site Closure Method (Only for temporary pits and closed-loop systems)</li> <li>In-place Burial</li> <li>On-site Trench Burial</li> <li>Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)</li> </ul>   |   |
| 15.  | _ |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  |   |
| <ul> <li>☑ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>☑ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC</li> <li>☑ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> </ul>   |   |
| Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC   |   |
| and a special section of the section |   |

| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, facilities are required.  |   |                       |
|--|---|-----------------------|
| Disposal Facility Name:  | Disposal Facility Permit Number:  |                       |
| Disposal Facility Name:  | Disposal Facility Permit Number   |                       |
| Will any of the proposed closed-loop system operations and associated activities of<br>Yes (If yes, please provide the information below) No   |   |                       |
| Required for impacted areas which will not be used for future service and operatio  Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection  | requirements of Subsection H of 19.15.17.13 NMA(<br>1 of 19.15.17.13 NMAC   | C                     |
| Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmenta demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC.   | e administrative approval from the appropriate dist<br>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; Dat  | a obtained from nearby wells  | ☐ Yes ☐ No<br>☐ 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; Database search;   | a obtained from nearby wells  | ☐ Yes ☐ No<br>☐ 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; Database search;  | a obtained from nearby wells  | ☐ Yes ☐ No<br>☐ NA    |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sig lake (measured from the ordinary high-water mark).  - Topographic map: Visual inspection (certification) of the proposed site  | nificant watercourse or lakebed, sinkhole, or playa   | ☐ Yes ☐ No            |
| Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site: Aerial photo; Satellito   |   | ☐ Yes ☐ No            |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that les watering purposes, or within 1000 horizontal feet of any other fresh water well or s  NM Office of the State Engineer - iWATERS database; Visual inspection of   | pring, in existence at the time of initial application  | Yes No                |
| Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approv  | ·   | ☐ Yes ☐ No            |
| Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map: Topographic map: Visus   | al 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 Geolog Society; Topographic map  | y & 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 the by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Construction/Design Plan of Temporary Pit (for m-place burial of a drying protocols and Procedures - based upon the appropriate requirements of 19.1:  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Confirmation Plan - 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 Subsection | uirements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC ad) - based upon the appropriate requirements of 19. 5.17.13 NMAC uirements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC lrill cuttings or in case on-site closure standards cann H of 19.15.17.13 NMAC 1 of 19.15.17.13 NMAC | 15.17.11 NMAC         |

| Operator Application Certification:  |  |
|--|--|
| I hereby certify that the information submitted with this application is true, a   | accurate and complete to the best of my knowledge and belief.  |
| Name (Print): Kurt Fagrelius   | Title: Vice President, Exploration   |
| Signature: Surt Fagnlin  | Date: October 19, 2008   |
| e-mail address: kfagrelius@duganproduction.com   | Telephone: 505-325-1821 (O), 505-320-8248 (C)  |
| OCD Approval: Permit Application (including closure plan) Close  |  |
| OCD Representative Signature: Brungh Mall  | Approval Date: ユーローの名  |
| Title: Enviro /spa   | OCD Permit Number:   |
| Closure Report (required within 60 days of closure completion): Subsections: Operators are required to obtain an approved closure plan put 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 to   | rior to implementing any closure activities and submitting the closure report.<br>s of the completion of the closure activities. Please do not complete this<br>he closure activities have been completed. |
|  | Closure Completion Date:   |
| 22. Closure Method: Waste Excavation and Removal On-Site Closure Method Al If different from approved plan, please explain.  | ternative Closure Method   Waste Removal (Closed-loop systems only)  |
| 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:  | Disposal Facility Permit Number,   |
| Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate compliance to the items below) N   |  |
| Required for impacted areas which will not be used for future service and op  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique   | rerations<br>,   |
| 24.  |  |
| mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (required for on-site closure)  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation) | ਝ' -   |
| On-site Closure Location: Latitude   | ongitude NAD:  |
| Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closubelief. I also certify that the closure complies with all applicable closure requirements.   | uirements and conditions specified in the approved closure plan.   |
| Name (Print) Kurt Fagrelius  | Title. Vice President, Exploration   |
| Signature:   | Date:  |
| e-mail address: kfagrelius@duganproduction.com   | Telephone: 505-325-1821 (0), 505-320-8248 (C)  |

### Mona Lisa #2 Hydrogeologic Report

The Mona Lisa #2 is located on Federal land in the center of the San Juan Basin, in Rio Arriba County, New Mexico. The area is characterized by a very large wash (known as Largo Canyon), a wide (1/2 miles) flat sand wash that is bound by very steep canyon walls (greater than 300 feet high) and adjoining mesa tops. Cottonwood trees, willows, grass and sagebrush are common in the bottom of the canyon, whereas, juniper and pinon forests are common on top of the adjoining mesas. The area is well drained by Largo Canyon to the west and the numerous canyons from the south and north that drain into it 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 Mona Lisa #2 location (Exhibit 2). Two water wells were located in the search area. The closest water well is 4,400 feet west of the proposed below grade tank, it was drilled to a depth of 365 feet and the depth to ground water was reported to be 26 feet. The second water well is located 5,200 feet west, it was drilled to a depth of 335 feet and ground water was reported to be at 22 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 on surface shale layers along the confluences and upper reaches of arroyos. The proposed below grade tank is located in Largo Canyon, groundwater is within 50-feet of the surface and it is in Zone A of the FEMA 100-year Floodplain Map (Exhibit 2 and 6) (See Visual Inspection Certification).

Unconsolidated sand wash material extends from the surface down to a depth of approximately 325-feet. Water wells in the canyon produce ground water from this sand for domestic, livestock and agricultural uses. The underlying San Jose Formation ranges from 325 down to 655-feet and the Nacimiento ranges from 655 down to the Ojo Alamo / Animas at a depth of 1545-feet. The San Jose has sand from 370-410 feet; the Nacimiento has numerous sands from 650-1200 feet (15-65 feet thick) and the Ojo Alamo / Animas sand from 1545-1720 all of which should contain fair amounts of poor quality groundwater.

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. 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 25-feet from unconsolidated sands in Largo Canyon. Deeper sources of ground water would include the San Jose from 370-410, the Nacimiento from 650-1200 and the Ojo Alamo / Animas from 1545-1720 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

| Tow             | nship: 26N    | Range: 07W   | Sections: 1    | 0,11,12,13,1 | 4,15,22,23,24              |
|-----------------|---------------|--|----------------|--------------|----------------------------|
| NAD27           | X:            | Y:   | Zone:          | ·] S         | earch Radius:              |
| County:         | :] Basi       | n:   |                | Number       | r: Suffix:                 |
| Owner Name: (Fi | rst)          | (Last)   |                |              | on-Domestic ODomestic OAII |
| POD / Surfa     | ce Data Repor | t Av   | g Depth to Wat | er Report    | Water Column Report        |
|                 |               | Clear Form   | iWATERS N      | Menu He      | elp                        |
|                 |               | and the saw and any and any any construct of darkage. And any and the same |                |              |                            |

#### WATER COLUMN REPORT 10/20/2008

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

Water (in feet) Depth Depth POD Number Tws Rng Sec qqq Zone Well Water Column 26N 07W 15 4 1 2 365 26 339 SJ 00071 SJ 00070 26N 07W 15 4 2 3 335 22 313

Record Count: 2

### Siting Criteria for the Mona Lisa #2

- 1. Ground water is less than 50-feet below the bottom of the below grade tank. Ground water is not greater than 100-feet below the bottom of the below grade tank.
- 2. The below grade tank is 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 located within a 100-year floodplain area (Zone A, No Base Flood Elevations Determined. See the attached FEMA map (Exhibit 6) of the 100 year floodplain showing the location and area around the subject pit.

Mona Lisa #2 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 Mona Lisa #2 below grade tank (July 28, 2008).

This application is in not in full compliance with all siting criteria and standards for below

grade tanks established by the State of New Mexico, Energy Minerals and Natural

Resources Department 19.15.17.10 NMAC. Groundwater is less than 50 feet below the

bottom of the tank, the tank is within 200 feet of a watercourse (Largo Wash) and within a

100-year floodplain (Zone A, No Base Flood Elevations Determined).

See the attached request for administrative approval.

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

is an existing below grade tank (in existence prior to June 16, 2008) that will be closed and

replaced with one that meets the design and construction requirements in 19.15.17.11

NMAC.

Kart Fagrelius

October 17, 2008

Date

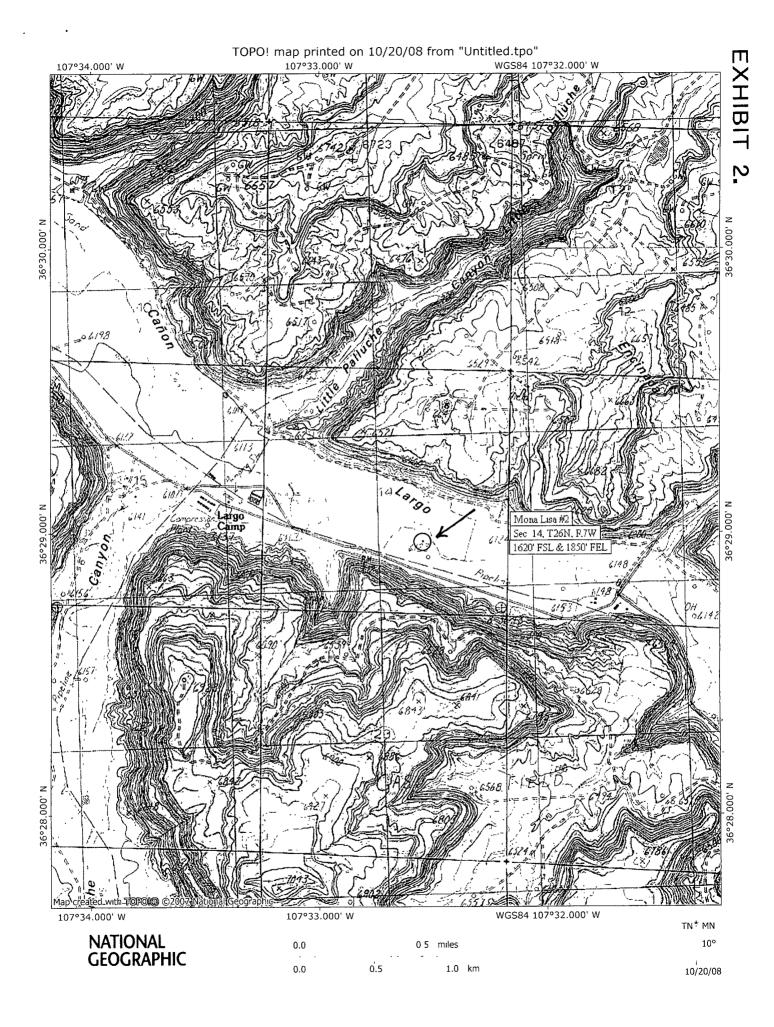
### October 16, 2008

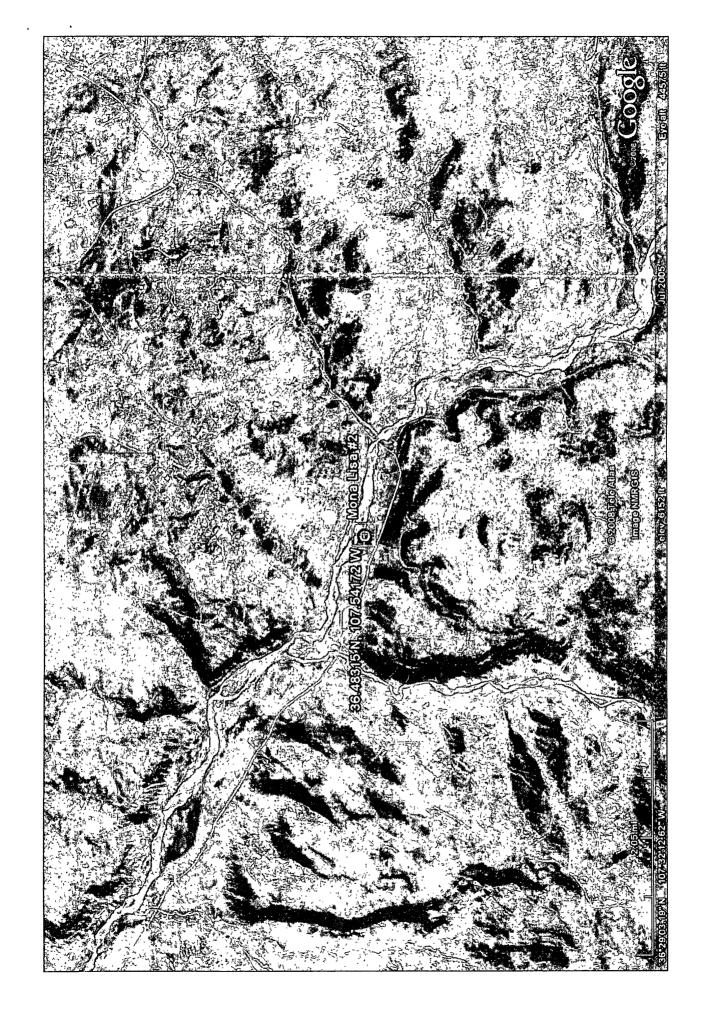
Pit Rule (Part 17)

FAQ: Does the Siting Criteria in 19.15.17.10 NMAC Apply to Existing Below-Grade Tanks?

A: 19.15.17.17.D NMAC requires operators of existing below-grade tanks to apply for a permit within 90 days after June 16, 2008. Existing below-grade tanks do not have to be relocated to meet the siting criteria in 19.15.17.10 NMAC, but must meet the design and construction requirements in 19.15.17.11 NMAC. The operator must still supply the information required in 19.15.17.9 NMAC. The siting criteria apply to below-grade tanks located after June 16, 2008.

Please contact Wayne Price 505-476-3490 <u>wayne.price@state.nm.us</u> or Brad Jones 505-476-3487 <u>brad.a.jones@state.nm.us</u>.





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

|            | Township: 26N      | Range: 07W | Sections: 14    |               |                    |       |
|------------|--------------------|------------|-----------------|---------------|--------------------|-------|
| N          | AD27 X:            | Y:         | Zone:           | · J Search    | Radius:            |       |
| County:    | · ¦ Ba             | ısin:      | ·<br>-          | Number:       | Suffix:            |       |
| Owner Name | e: (First)         | (Last)     |                 | —<br>○Non-Doi | mestic O Domestic  | @ All |
| POD        | / Surface Data Rep | oort Av    | g Depth to Wate | r Report      | Water Column Repor | 1     |
|            | `                  | Clear Form | iWATERS M       | enu Help      |                    |       |
| ##         |                    |            |                 |               |                    |       |
|            |                    | WATER CO   | LUMN REPORT     | 10/20/2008    |                    |       |

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)
 Tws Rng Sec q q q Zone X

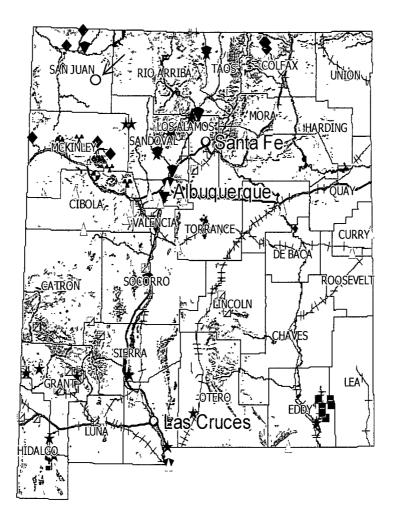
Depth Depth W Y Well Water Co

Water (in feet) Column

No Records found, try again

POD Number

ĺ



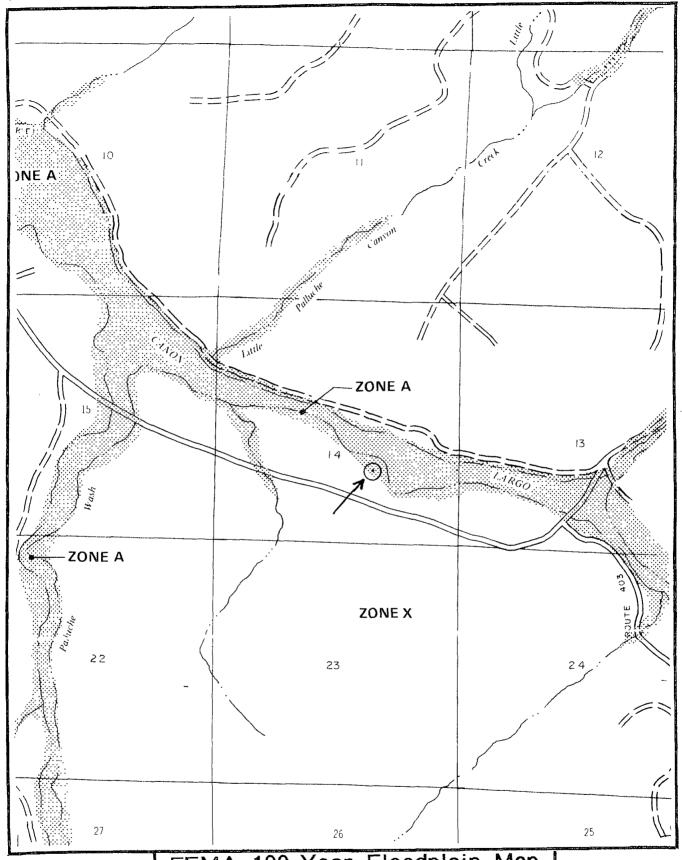
### Mine, Mills and Quarry Map of New Mexico

Dugan Production Corp.

Mona Lisa #2

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

Mining and Minerals Division.



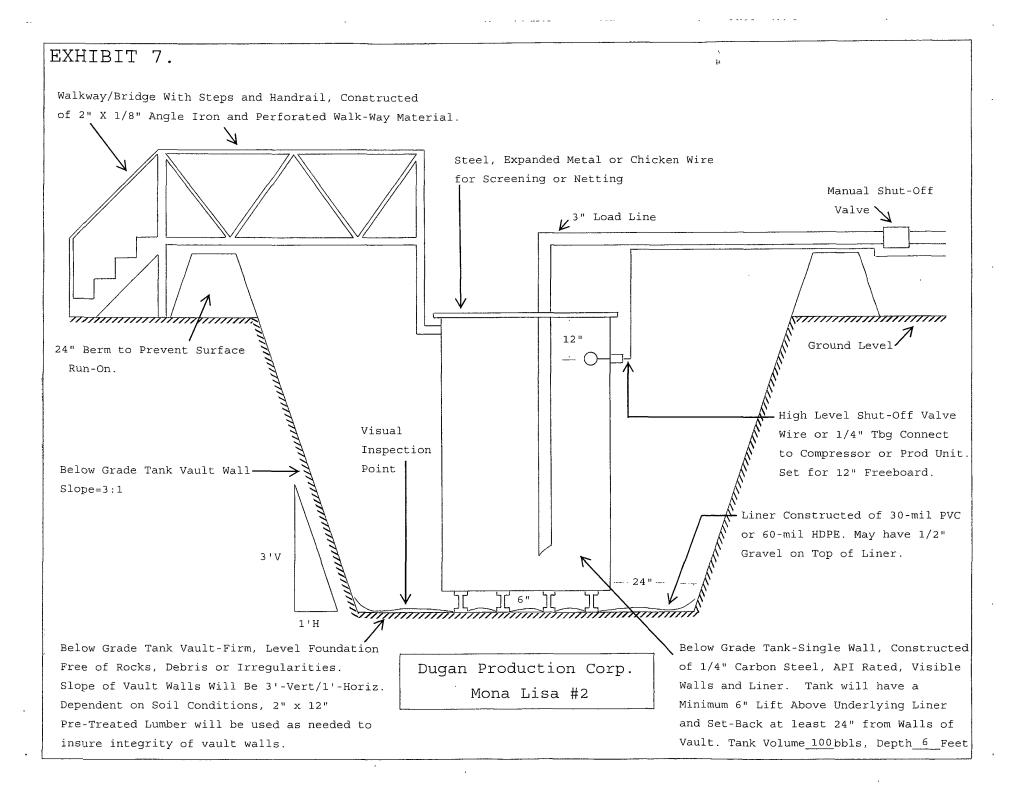
FEMA 100-Year Floodplain Map

Mona Lisa #2

### Mona Lisa #2 Below Grade Tank Design and Construction Plan

The Mona Lisa #2 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 Mona Lisa #2 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 Mona Lisa #2 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 Mona Lisa #2 below grade tank will be covered with steel, expanded metal or chicken wire for screening or netting on top of the tank.
- 6. Mona Lisa #2 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. Mona Lisa #2 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 1/4".
- 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.



- 9. The Mona Lisa #2 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 Mona Lisa #2 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.

### Mona Lisa #2 Below Grade Tank Maintenance and Operation Plan

The Mona Lisa #2 below grade tank will be maintained and operated in accordance with the following requirements:

- 1. The Mona Lisa #2 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 Mona Lisa #2 below grade tank develops a leak or if a penetration occurs below the liquids surface, all liquid will be removed above the damage or leak line within 48-hours. The NMOCD office will be notified within 48-hours of the discovery. The below grade tank / liner system or secondary containment system will then be either modified, retrofitted or replaced in accordance with Subsection I of 19.15.17.11 NMAC. If applicable, the replacement or retrofit below grade tank / liner system or secondary containment system will meet the design and construction requirements of rule 19.15.17.11 NMAC.

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

- 5. Below grade tank will be constructed and operated in a manner that prevents the tank from over flow and prevents surface water from entering the pit. Diversion berms will be constructed around the sides of pit and an automatic high level shut-off will be installed.
- 6. Any measurable oil will be continuously removed from the Mona Lisa #2 below grade tank to prevent a significant accumulation of oil overtime.

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

|     |       | Check a  | and Re | cord Inte | eantv  |        | Trash | Note ar | nd Pick-Up | Check for Pr   | roper Operation | Freeboard   | Fluid Level | Signature |
|-----|-------|----------|--------|-----------|--------|--------|-------|---------|------------|----------------|-----------------|-------------|-------------|-----------|
| ite | Fence | Berms T: |        | Tank      | Vault  | Leak   |       |         | Location   | High Level     | Manual          | Minimum 12" |             | •         |
|     |       |          |        | Screen    | Slopes | Detect |       |         |            | Shut off valve | Shut off valve  |             | Bottom - Up |           |
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| i   |       |          |        |           |        |        |       |         |            |                |                 |             |             |           |
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| - 1 |       |          |        | Fair, P   |        |        |       |         | N = No     |                | I, B = Bad      | <del></del> | Inches      | Monitor's |

8. Adequate freeboard will be maintained to prevent overtopping of the Mona Lisa #2 below grade tank. High level shut off valves will close when fluid reaches 12 inches from top of tank.

### Mona Lisa #2 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 Apple Submittal or   | File Closure Plan By    | Stop Use By              | Close By                   |
|-----------------------------------|-----------------------------|-------------------------|--------------------------|----------------------------|
| On June 16, 2008                  | Modification Request        |                         |                          |                            |
|                                   |                             |                         |                          |                            |
| Temporary Pit - Unlined           | Not Permtd under 19.15.17   | 7/16/2008               | Upon drlg rig<br>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   | 1                          |
|                                   | 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              | INA                         | 12/10/2006              | 0/10/2013                | 0/10/2013                  |
| to comply w/13.13.17              |                             |                         |                          |                            |
| 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/ın 18-mos of aprvl | submit w/mod<br>request | w/apprvd design          |                            |
| Permitted and lined               |                             |                         |                          |                            |
| Permanent Pit-Design and Constr   | Permit Applo by 12-16-2008  | 12/16/2008              |                          | 60-days after              |
|                                   | 1 CHILL Apple by 12-10-2000 | submit w/permit         |                          | cessation                  |
| Does not comply w/19 15 17        | Comply w/in 18-mos of aprvl | Applc                   |                          |                            |
| Registered and Lined              |                             |                         |                          |                            |
| Permanent Pit                     | Permitted under 19.15 17    | 60-Days prior to close  |                          |                            |
| Temporary Pit                     | Permitted under 19.15 17    | Prior to closure        | Upon drlg rig<br>release | 6-mos after<br>rig release |
|                                   |                             |                         |                          | 60-days after              |
| BGT                               | Permitted under 19 15.17    | 12/16/2013              | failed integrity replc   | cessation                  |
|                                   |                             | or prior to closure     | w/apprvd design          |                            |

- 2. Provide the NMOCD district office at least 72-hours notice but no greater than 1 week prior to any closure operations. Notice will include operator name, well name and number, API number, and location (unit letter, section, township and range).
- 3. The Mona Lisa #2 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.

### Mona Lisa #2 Below Grade Tank Request for Administrative Approval

Administrative approval is hereby requested for an alternative to the fencing design for the Mona Lisa #2 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.