

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

Form C-144
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

**Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application**

- 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
 Modification to an existing permit
 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: MELROSE OPERATING CO OGRID #: 184860
Address: 1000 W. WILSHIRE SUITE 223 OKLAHOMA CITY OK 73116
Facility or well name: JALMAT FIELD YATES SAND UNIT #140
API Number: 30-025-38936 OCD Permit Number: P1-01432
U/L or Qtr/Qtr K Section 14 Township 22S Range 35E County: LEA
Center of Proposed Design: Latitude 32.389831 Longitude 103.338780 NAD: X 1927 1983
Surface Owner: Federal State X Private Tribal Trust or Indian Allotment

2.
X **Pit:** Subsection F or G of 19.15.17.11 NMAC
Temporary: X Drilling Workover
 Permanent Emergency Cavitation P&A
X Lined Unlined Liner type: Thickness 12 mil X LLDPE HDPE PVC Other _____
X String-Reinforced
Liner Seams: Welded X Factory Other _____ Volume: 3000 bbl Dimensions: L 85' x W 85' x D 5'

3.
 Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies 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: Thickness _____ mil LLDPE HDPE PVC Other _____
Liner Seams: Welded Factory Other _____

4.
 Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: _____ bbl Type of fluid: _____
Tank Construction material: _____
 Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
 Visible sidewalls and liner Visible sidewalls only Other _____
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.

6. **Fencing:** Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

X Alternate. Please specify 4' HIGH, 10 GAUGE, FIELD FENCE, 6" x 6" SQUARE PATTERN w/Tee Post EVERY 10', BARB WIRE ON TOP

7. **Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

Screen Netting Other _____

Monthly inspections (If netting or screening is not physically feasible)

8. **Signs:** Subsection C of 19.15.17.11 NMAC

X 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.3.103 NMAC

9. **Administrative Approvals and Exceptions:**
 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:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10. **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 | <input type="checkbox"/> Yes X No |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes X No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | <input type="checkbox"/> Yes X No <input type="checkbox"/> 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 | <input type="checkbox"/> Yes X No <input type="checkbox"/> 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 | <input type="checkbox"/> 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 | <input type="checkbox"/> 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 | <input type="checkbox"/> Yes X No |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | <input type="checkbox"/> 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 | <input type="checkbox"/> Yes X No |
| Within a 100-year floodplain. - FEMA map | <input type="checkbox"/> Yes X No |

11. **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 Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 Closure Plan (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

X Previously Approved Design (attach copy of design) API Number: 30-025-38921 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)

13. **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.

Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 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

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: X 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)
X On-site Closure Method (Only for temporary pits and closed-loop systems)
 In-place Burial X On-site Trench Burial
 Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

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.

X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16. **Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: SUNDANCE Disposal Facility Permit Number: _____
 Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?
 Yes (If yes, please provide the information below) No

Required for impacted areas which will not be used for future service and operations:
 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

17. **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 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA |
| 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 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Within a 100-year floodplain. - FEMA map | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

18. **On-Site 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.

Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
 Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
 Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
 Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
 Soil Cover Design - 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

19.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Billy C. Robbins Title: Production Forman

Signature: *Billy C. Robbins* Date: 9/15/09

e-mail address: maximum@valornet.com Telephone: 575-390-4666

20.

OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature: *Jeffrey Lebing* Approval Date: 10/27/09

Title: ENVIRONMENTAL ENGINEER OCD Permit Number: P1-01432

21.

Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

Closure Completion Date: _____

22.

Closure Method:

Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)
 If different from approved plan, please explain.

23.

Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

Yes (If yes, please demonstrate compliance to the items below) No

Required for impacted areas which will not be used for future service and operations:

- Site Reclamation (Photo Documentation)
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique

24.

Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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)

On-site Closure Location: Latitude _____ Longitude _____ NAD: 1927 1983

25.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____



July 15, 2009

Melrose Operating Company
1000 W. Wilshire, Suite 223
Oklahoma City, OK 73116

RECEIVED

OCT 06 2010
HOBSOCD

Attn: Mr. Cam Robbins
Production Supervisor

**RE: Work Plan For Pit Closure Located at Jalmat Field Yates Sand, Unit # 140;
U/L K Sec 14-T22S and R35E, API #30-025-38935 of Lea County, New Mexico**

Dear Mr. Robbins:

Blade Services LLC, Inc. would like to take this time to thank you and Melrose Operating Co., for the opportunity to provide our professional services. Attached you will find our work plan and cost for the above listed site.

If you have any questions and/or need more data in regards to projects please call at any time. You can reach me at 575-390-5004

Sincerely,

Rick Navarrette,
Sr. Project Manager
Blade Services LLC

Summary/Overview

The Jalmat Field Yates Sand unit site should be completed and remediated in accordance with the standards of the NMOCD. Pit closure of the temporary drilling pit will be addressed accordingly.

The potential contaminants of concern are mid to high-level concentrations of production water and drill cuttings circulated into a temporary drilling pit from well bore.

The lands primary use is domestic pasture for ranching and the production of oil and gas.

The USGS-OCD water map for this area shows the depth to ground water to be in the 220' range BGS.

Pursuant to the standards of the NMOCD, the clean up level for soil beneath the temporary pit liner for this site will be < 2,500ppm of TPH, <50ppm for BTEX and chlorides less than <1000ppm, GRO and DRO < 500, benzene < .2, as demonstrated by, at a minimum, the analysis of a 5-point composite sample.

The operator shall collect at a minimum, a five point, composite sample of the contents of the drying pad associated with a closed-loop system or of the temporary pit to demonstrate that the TPH concentration, as determined by EPA method 481.1 or other EPA method that the division approves, does not exceed 2500 mg/kg. Using EPA SW-846 method 1312 or other EPA leaching procedure that the division approves, the operator shall demonstrate that (i) the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 3000 mg/l or the background concentration, whichever is greater, (ii) the concentrations of the inorganic water contaminants specified in Subsection A of 20.6.2.3103 NMAC as determined by appropriate EPA methods do not exceed the standards specified in Subsection A of 20.6.2.3103 NMAC or the background concentration, whichever is greater, and (iii) the concentrations of the organic water contaminants specified in Subsection A of 20.6.2.3103 NMAC as determined by appropriate EPA methods do not exceed the standards specified in Subsection A of 20.6.2.3103 NMAC, unless otherwise specified above. The operator may collect the composite sample prior to

treatment or stabilization to demonstrate that the contents do not exceed these concentrations. However, if the contents collected prior to treatment or stabilization exceed the specified concentrations the operator shall collect a second five point, composite sample of the contents after treatment or stabilization to demonstrate that the contents do not exceed these concentrations.

The following scope of work was based on data from our site visit and the requirements of the NMOCD for site clean up.

Scope of Work for Entombment and site reclamation

Note: Melrose Operating Co. has requested for Blade Services, LLC., to remove and remediate reserve pit drill cuttings for pit closure. Melrose has also requested that Blade Services submit a copy of results and reclamation plan to NMOCD for entombment of impacted soils.

- ✓ First Blade Services will call One-Call for line spot clearance before any excavation at the site is started.
- ✓ Blade Services will mobilize to the site located in the area Southwest of Eunice, NM equipment and personnel necessary to start and complete the site remediation as required to get the site back into compliance.
- ✓ Blade Services will have Ricky Navarrette delineate the site vertical and horizontal for chloride's to determine the extent of impacted soil. Samples will then be sent to Trace Analysis lab for analysis. Once analysis are sent back with the results NMOCD will then be contacted for approval before any capping or pit closure is resumed. Due to the size of reserve pit, Blade Services will split the site into four quadrants testing 25% of impacted soils including a center sample collecting at a minimum, a five point, composite sample for both waste and underlying soils. Blade Services will test the vertical; starting one foot from mud removal into deep bury pit.
- ✓ Blade Services LLC., will then start excavation of impacted soil for on-site deep bury pit. Impacted soils will then be mixed on a 3 to 1 ratio, then taking a grab sample from mixture and taking sample to Trace Analysis for a paint filtration testing method. Once method is determined that mixture has passed and approved by OCD. Mixture will then be placed in an approved reinforced 20ml poly liner from West Texas plastics for entombment. The entombment pit will be approximately 100x40x20 foot deep;

which will hold 2,900 cubic yards of material. Once all contents are placed in entombment pit; Blade Services will cap pit with an approved 20ml poly liner from West Texas Plastics. Then pit will be backfilled so that contents are 4 foot below ground level.

- ✓ Blade Services will have Ricky Navarrette field screen the site during the excavation and once the levels have dropped below NMOCD guidelines, final samples will be personally taken to Trace Analysis lab for analysis.
- ✓ If site does not clear NMOCD guidelines on the 3 to 1 mix ratio; this will be determined with a paint filter testing method at Trace Analysis. Blade Services will then submit a request for waste removal to the NMOCD office. Then waste material will be transferred to (Sundance Disposal) or and approved NMOCD disposal site.
- ✓ Once all of the remediation criteria have been met for site closure and compliance, the site will be backfilled with clean material from the site. The site will be contoured with a slight crown to prevent the ponding of any rain water and reseeded; with the proper seed according to the NMOCD. Vegetative cover will equal 70% of the native perennial vegetative cover 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 or until successful growth is established.
- ✓ Trench burial pit will be marked by an approved steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial. The marker will be flushed with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel plate 12" square that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information. The operator's information will include the following: Operator name,

ease name, well name and number, unit number, section, township, range and an indicator that the marker is an onsite burial location.

- ✓ Once all of the closure criteria have been met, a final closure report will be prepared by Blade Services. This report will include a summary of remediation operations, findings on-site and lab analysis, site maps and project photos.

If you have any questions and/or need more data in regards to this project please call 575-390-5004 at any time.

Sincerely,

Rick Navarrette,
Sr. Project Manager
Blade Services LLC.

Temporary Drilling Pit On-Site Closure Notice

Associated with Oil Well: Jalmat Field Yates Sand Unit 140

In accordance with the New Mexico Oil conservation Commission "Pit" Rule (19.15.17 NMAC), Melrose Operating Inc, 1000 W Wilshire Suite 223, Oklahoma City, Ok 73116, is hereby giving the surface owner (State of New Mexico) notice of the on-site closure for a proposed temporary drilling pit. Melrose Operating is proposing to submit in their application for a temporary drilling pit with the on-site closure method of On-Site Trench Burial. The proposed temporary pit will be associated with the proposed oil well (Jalmat Field Yates Sand Unit 140), located in the NE/4 of the NE/4 Section 14, Township 22 South, Range 35 East of Lea County New Mexico. The temporary pit volume will be approximately 100x40x20 feet deep (with as approximate volume of 2,900 cubic yards). The in-place burial method will allow for the waste material to remain in place at the temporary pit. However, the waste material will be tested and must meet regulatory standards prior to closure. Also, the liquids must be removed prior to closure. The temporary pit closure must follow regulatory specification for the cover design, revegetation, site reclamation and burial marker (steel). In addition, no person shall build permanent structures over an on-site burial without written approval from the New Mexico Oil Conservation Division's (OCD) Hobbs district office. No person shall remove the on-site burial marker without the OCD's written permission. If the waste material does not meet the specific regulatory standards, the material will be removed and disposed of at a New Mexico Oil Conservation Division approved facility. The application will be submitted to the New Mexico Oil Conservation Division, Hobbs District Office at 1625 N French DR, Hobbs New Mexico 88240, Telephone (575)393-6161.

Melrose Operating
JFYSLW#140

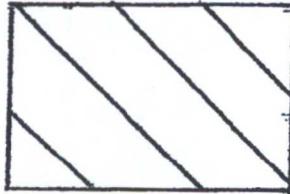
N | S

N. 32. 23. 26. 9
W. 103. 20. 22. 8
Elev. 3572

100 ft.

N. 32. 23. 26. 6
W. 103. 20. 21. 9
Elev. 3571

70 ft.



N. 32. 23. 26. 0
W. 103. 20. 22. 8
Elev. 3574

N. 32. 23. 25. 7
W. 103. 20. 21. 9
Elev. 3574

well



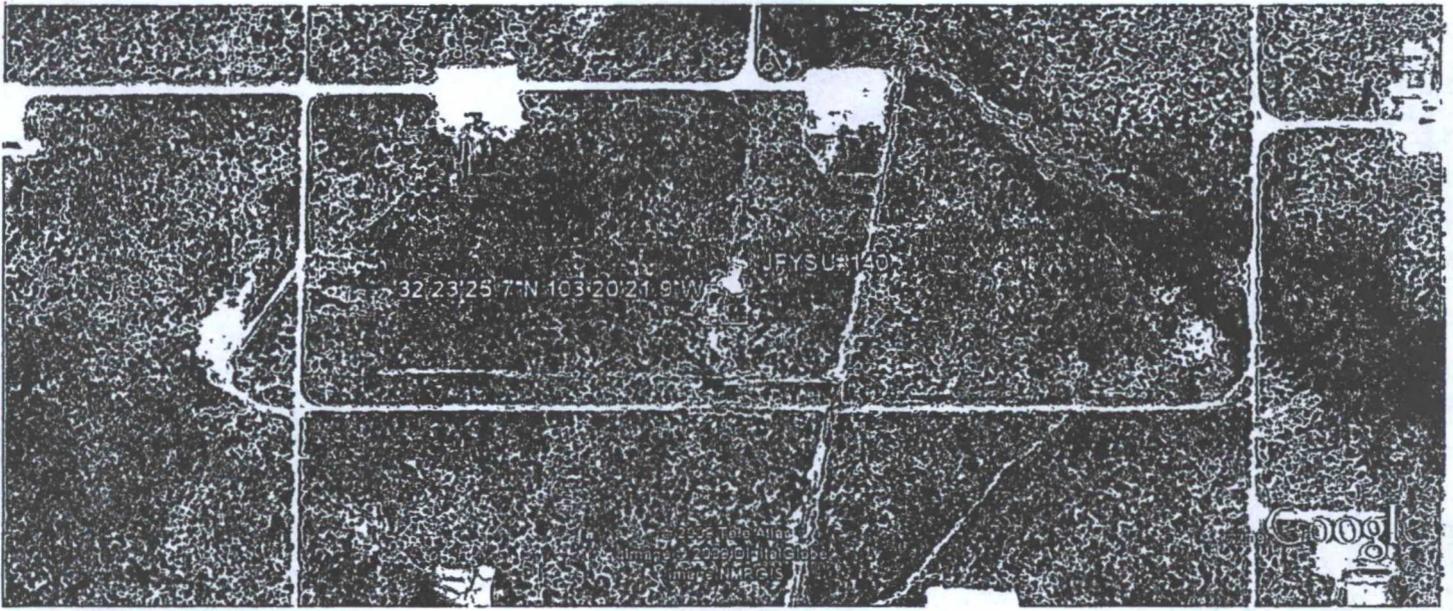
N. 32. 23. 25. 7
W. 103. 20. 21. 9
Elev. 3574

20 ft.

N. 32. 23. 27. 2
W. 103. 20. 21. 1
Elev. 3570

120 ft.

N. 32. 23. 26. 2
W. 103. 20. 21. 1
Elev. 3574



32 23'25.7"N 103 20'21.9"W

RECEIVED

OCT 06 2010

HOBBSOCD

Summary Report

Rick Navarratte
Blade Services LLC.
1100 East Michigan
Hobbs, NM 88240

Report Date: September 10, 2010

Work Order: 10080536



Project Name: Jalmat Field Yates Sand Unit #140

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 239955 | 3-to-1 Mix | soil | 2010-08-04 | 16:00 | 2010-08-05 |

| Sample - Field Code | BTEX | | | | TPH 418.1 | TPH DRO - NEW | TPH GRO |
|----------------------------|--------------------|--------------------|-------------------------|-------------------|------------------|----------------|----------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | TRPHC (mg/Kg) | DRO (mg/Kg) | GRO (mg/Kg) |
| 239955 - 3-to-1 Mix | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <10.0 | <50.0 | <2.00 |

Sample: 239955 - 3-to-1 Mix

| Param | Flag | Result | Units | RL |
|----------------|------|----------------|-------|----------|
| Paint Filter | 1 | PASS | | 0.00 |
| SPLP Silver | | <0.00500 | mg/L | 0.00500 |
| SPLP Arsenic | | <0.0100 | mg/L | 0.0100 |
| SPLP Barium | | 1.03 | mg/L | 0.0100 |
| SPLP Cadmium | | <0.00500 | mg/L | 0.00500 |
| SPLP Chloride | | 94.2 | mg/L | 0.500 |
| SPLP Chromium | | 0.00700 | mg/L | 0.00500 |
| SPLP Cyanide | | <0.0150 | mg/L | 0.0150 |
| SPLP Fluoride | | 0.515 | mg/L | 0.200 |
| SPLP Mercury | | <0.000200 | mg/L | 0.000200 |
| Nitrate-N | | 0.482 | mg/L | 0.200 |
| Naphthalene | | <0.000200 | mg/L | 0.000200 |
| Acenaphthylene | | <0.000200 | mg/L | 0.000200 |
| Acenaphthene | | <0.000200 | mg/L | 0.000200 |
| Dibenzofuran | | <0.000200 | mg/L | 0.000200 |
| Fluorene | | <0.000200 | mg/L | 0.000200 |
| Anthracene | | <0.000200 | mg/L | 0.000200 |
| Phenanthrene | | <0.000200 | mg/L | 0.000200 |

continued ...

¹Matter went through the filter, but was not a liquid. •

sample 239955 continued ...

| Param | Flag | Result | Units | RL |
|---------------------------------|------|-----------|-------|----------|
| Fluoranthene | | <0.000200 | mg/L | 0.000200 |
| Pyrene | | <0.000200 | mg/L | 0.000200 |
| Benzo(a)anthracene | | <0.000200 | mg/L | 0.000200 |
| Chrysene | | <0.000200 | mg/L | 0.000200 |
| Benzo(b)fluoranthene | | <0.000200 | mg/L | 0.000200 |
| Benzo(k)fluoranthene | | <0.000200 | mg/L | 0.000200 |
| Benzo(a)pyrene | | <0.000200 | mg/L | 0.000200 |
| Indeno(1,2,3-cd)pyrene | | <0.000200 | mg/L | 0.000200 |
| Dibenzo(a,h)anthracene | | <0.000200 | mg/L | 0.000200 |
| Benzo(g,h,i)perylene | | <0.000200 | mg/L | 0.000200 |
| SPLP Lead | | <0.00500 | mg/L | 0.00500 |
| Total PCB | | <0.000500 | mg/L | 0.000500 |
| Aroclor 1016 (PCB-1016) | | <0.000500 | mg/L | 0.000500 |
| Aroclor 1221 (PCB-1221) | | <0.000500 | mg/L | 0.000500 |
| Aroclor 1232 (PCB-1232) | | <0.000500 | mg/L | 0.000500 |
| Aroclor 1242 (PCB-1242) | | <0.000500 | mg/L | 0.000500 |
| Aroclor 1248 (PCB-1248) | | <0.000500 | mg/L | 0.000500 |
| Aroclor 1254 (PCB-1254) | | <0.000500 | mg/L | 0.000500 |
| Aroclor 1260 (PCB-1260) | | <0.000500 | mg/L | 0.000500 |
| Aroclor 1268 (PCB-1268) | | <0.000500 | mg/L | 0.000500 |
| SPLP Selenium | | <0.0200 | mg/L | 0.0200 |
| SPLP U | | <0.0300 | mg/L | 0.0300 |
| Bromochloromethane | | <1.00 | µg/L | 1.00 |
| Dichlorodifluoromethane | | <1.00 | µg/L | 1.00 |
| Chloromethane (methyl chloride) | | <1.00 | µg/L | 1.00 |
| Vinyl Chloride | | <1.00 | µg/L | 1.00 |
| Bromomethane (methyl bromide) | | <5.00 | µg/L | 5.00 |
| Chloroethane | | <1.00 | µg/L | 1.00 |
| Trichlorofluoromethane | | <1.00 | µg/L | 1.00 |
| Acetone | | <10.0 | µg/L | 10.0 |
| Iodomethane (methyl iodide) | | <5.00 | µg/L | 5.00 |
| Carbon Disulfide | | <1.00 | µg/L | 1.00 |
| Acrylonitrile | | <1.00 | µg/L | 1.00 |
| 2-Butanone (MEK) | | <5.00 | µg/L | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | | <5.00 | µg/L | 5.00 |
| 2-Hexanone | | <5.00 | µg/L | 5.00 |
| trans 1,4-Dichloro-2-butene | | <10.0 | µg/L | 10.0 |
| 1,1-Dichloroethene | | <1.00 | µg/L | 1.00 |
| Methylene chloride | | <5.00 | µg/L | 5.00 |
| MTBE | | <1.00 | µg/L | 1.00 |
| trans-1,2-Dichloroethene | | <1.00 | µg/L | 1.00 |
| 1,1-Dichloroethane | | <1.00 | µg/L | 1.00 |
| cis-1,2-Dichloroethene | | <1.00 | µg/L | 1.00 |
| 2,2-Dichloropropane | | <1.00 | µg/L | 1.00 |
| 1,2-Dichloroethane (EDC) | | <1.00 | µg/L | 1.00 |
| Chloroform | | <1.00 | µg/L | 1.00 |
| 1,1,1-Trichloroethane | | <1.00 | µg/L | 1.00 |

continued ...

sample 239955 continued ...

| Param | Flag | Result | Units | RL |
|------------------------------------|------|-------------|-------|------|
| 1,1-Dichloropropene | | <1.00 | µg/L | 1.00 |
| Benzene | 2 | <1.00 | µg/L | 1.00 |
| Carbon Tetrachloride | | <1.00 | µg/L | 1.00 |
| 1,2-Dichloropropane | | <1.00 | µg/L | 1.00 |
| Trichloroethene (TCE) | | <1.00 | µg/L | 1.00 |
| Dibromomethane (methylene bromide) | | <1.00 | µg/L | 1.00 |
| Bromodichloromethane | | <1.00 | µg/L | 1.00 |
| 2-Chloroethyl vinyl ether | | <5.00 | µg/L | 5.00 |
| cis-1,3-Dichloropropene | | <1.00 | µg/L | 1.00 |
| trans-1,3-Dichloropropene | | <1.00 | µg/L | 1.00 |
| Toluene | 3 | 1.33 | µg/L | 1.00 |
| 1,1,2-Trichloroethane | | <1.00 | µg/L | 1.00 |
| 1,3-Dichloropropane | | <1.00 | µg/L | 1.00 |
| Dibromochloromethane | | <1.00 | µg/L | 1.00 |
| 1,2-Dibromoethane (EDB) | | <1.00 | µg/L | 1.00 |
| Tetrachloroethene (PCE) | | <1.00 | µg/L | 1.00 |
| Chlorobenzene | | <1.00 | µg/L | 1.00 |
| 1,1,1,2-Tetrachloroethane | | <1.00 | µg/L | 1.00 |
| Ethylbenzene | | <1.00 | µg/L | 1.00 |
| m,p-Xylene | | <1.00 | µg/L | 1.00 |
| Bromoform | | <1.00 | µg/L | 1.00 |
| Styrene | | <1.00 | µg/L | 1.00 |
| o-Xylene | | <1.00 | µg/L | 1.00 |
| 1,1,2,2-Tetrachloroethane | | <1.00 | µg/L | 1.00 |
| 2-Chlorotoluene | | <1.00 | µg/L | 1.00 |
| 1,2,3-Trichloropropane | | <1.00 | µg/L | 1.00 |
| Isopropylbenzene | | <1.00 | µg/L | 1.00 |
| Bromobenzene | | <1.00 | µg/L | 1.00 |
| n-Propylbenzene | | <1.00 | µg/L | 1.00 |
| 1,3,5-Trimethylbenzene | | <1.00 | µg/L | 1.00 |
| tert-Butylbenzene | | <1.00 | µg/L | 1.00 |
| 1,2,4-Trimethylbenzene | | <1.00 | µg/L | 1.00 |
| 1,4-Dichlorobenzene (para) | | <1.00 | µg/L | 1.00 |
| sec-Butylbenzene | | <1.00 | µg/L | 1.00 |
| 1,3-Dichlorobenzene (meta) | | <1.00 | µg/L | 1.00 |
| p-Isopropyltoluene | | <1.00 | µg/L | 1.00 |
| 4-Chlorotoluene | | <1.00 | µg/L | 1.00 |
| 1,2-Dichlorobenzene (ortho) | | <1.00 | µg/L | 1.00 |
| n-Butylbenzene | | <1.00 | µg/L | 1.00 |
| 1,2-Dibromo-3-chloropropane | | <5.00 | µg/L | 5.00 |
| 1,2,3-Trichlorobenzene | | <5.00 | µg/L | 5.00 |
| 1,2,4-Trichlorobenzene | | <5.00 | µg/L | 5.00 |
| Naphthalene | | <5.00 | µg/L | 5.00 |
| Hexachlorobutadiene | | <5.00 | µg/L | 5.00 |

²Concentration biased low.³Concentration biased low.