State of New Mexico District I 1625 N. French Dr., Hobbs, NM 88240

Energy Minerals and Natural Resources

Department

District II 1301 W Grand Avenue, Artesia, NM 8 10 2 2 2008 Oil Conservation Division District III
1000 Rio Brazos Road, Aztac 1220 South St. Francis Dr. District IV 1220 S. St. Francis Dr., Santa Fe Santa Fe, NM 87505

For temporary pris, closed-loop systems, and below-grade tenks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Emvironmental 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

Proposed Anemative Memoriz	1. 1. mating mathod
Type of action: Permit of a pit, closed-loop sys Closure of a pit, closed-loop sys	stem, below-grade tank, or proposed alternative method system, below-grade tank, or proposed alternative method
	t :: L i closed loon system. Delow-Prude lain of with their or "
Instructions: Please submit one application (Form C-144) per ind Please be advised that approval of this request does not relieve the operator of hab	ility should operations result in pollution of surface water, ground waters or ordinances.
environment. Nor does approval relieve the operator of its responsibility to complete	ility should operations result in pollution of suitate water, ground water by with any other applicable governmental authority's rules, regulations or ordinances.
moloma powertion Company	OGRID#OGRID#
Address: 40 Box 953 Midland Tx 7970	2
Facility of well maint. VICTIVECT 1 18 38711	OCD Permit Number: P1-DD200
1 72 Township 40	Range 55 2 County
U/L or Qtr/Qtr   P   Section   25   Township   50	Longitude W 105. 35353 NAD: ⊠1927 ☐ 1983
Surface Owner:  Federal State Private Tribal Trust or Indian A	Motment
	Closed-loop System: Subsection H of 19.15.17.11 NMAC
2 Pit: Subsection F or G of 19.15.17.11 NMAC	☐ Drying Pad ☐ Tanks ☐ Haml-offf Bins ☐ Other
Temporary: ☑ Drilling ☐ Workover	•
☐ Permanent ☐ Emergency ☐ Cavitation ☐ Steel Pit	Lined Unlined  Liner type: Thickness
☑ Lined ☐ Unlined	Line type. The direct
Liner type: Thickness 20 mil LLDPE A HDPE PVC	Other
Other String-Reinforced	Seams: Welded Factory Other
G Ed Wolded T Factory T Other	Volume:bblyd³
Volume: 2900 Self Dimensions: L 100 x W 40 x D 20	Dimensions: Lengthx Width
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC
Volume:bbl	Chain link, six feet in height, two strands of barbed wire at top
Type of fluid:	Four foot height, four strands of bambed wire evenly spaced between one and
Tank Construction material:	four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC
☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other
	☐ Monthly inspections
☐ Visible sidewalls and liner	Signs: Subsection C of 19.15.17.11 NMAC
☐ Visible sidewalls only	12'x24', 2' lettering, providing Operator's name, site location, and
Other	emergency telephone numbers
Liner type: Thicknessmil	☐ Signed in compliance with 19.15.3.103 NMAC
Other	
Alternative Method:	Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	19 15 17 NMAC for guidance.
submitted to the Santa Fe Environmental Bureau office for consideration of approval.	Please check a box if one or more of the following is requested, if not leave
or approva.	blank:  Administrative approval(s): Requests must be submitted to the
	appropriate division district or the Santa Fe Environmental Bureau office for
	consideration of annroval
	Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
	Ellyllollinchai Durcas office to some

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 sefer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed.		
form critically	☐ Ves ☑ Ne	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tark.  Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tark.	☐ 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		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of annual approximation pits and helpw-grade tanks)	☐ Yes ☑ No ☑ NA	
(Applies to temporary, emergency, or cuvitation pits and corts and corts and corts are visual inspection (certification) of the proposed site; Aerial photo; Satellite image  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of imatical application.	☐ Yes [Y No ☑ NA	
(Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed size	□ Yes 🛭 No	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes 🔀 No	
adopted pursuant to NMSA 1978, Section 3-27-3, as attended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality.		
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No	
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes 🖟 No	
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes 🔀 No	
Within a 100-year floodplain FEMA map	Yes No	
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 bax, 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 19.15.17.12 NMAC   Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC   Previously Approved Design (attach copy of design) API Number:		
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 (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.11 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  Previously Approved Design (attach copy of design) API Number:		

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc	euments are	
Instructions: Each of the journment mass of the second of the journment of the jou		
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  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		
Liner Specifications and Companionity Assessment Localitation Plan		
Quality Control/Quality Assurance Construction and Installation 1 tall  Quality Control/Quality Assurance Construction and Installation 1 tall  Quality Control/Quality Assurance Construction and Installation 1 tall  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC		
Freeboard and Overtopping Prevention Figure 1 - University of the Freeboard and Overtopping Prevention Plan		
Francisco Plan		
Oil Field Waste Stream Characterization		
<ul> <li>☐ Monitoring and Inspection Plan</li> <li>☐ Erosion Control Plan</li> <li>☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC</li> </ul>		
Proposed Closure: 19.15.17.13 NMAC  Type: ☑ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System [	] Alternative	
Type: M Drilling Workover Cartainer		
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) Waste Removal (Closed-loop systems)		
On-site Closure Method (Only for temporary pits and closed-loop systems)	and aration)	
☐ In-place Burial ☑ On-site Trench Burial ☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for co	msideration)	
10.16.17.10.NMAC		
Instructions: Each siting criteria requires a denoish attoit of contraction oritoria may require administrative approval from		
source material are provided below. Requests regarding changes to certain sting chieff the submitted to the Santa Fe Environmental Bureau the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau 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 unwor demonstrations of equations		
NMAC for guidance.	☐ Yes 🛛 No	
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	☑ NA	
50 1 100 fort below the bottom of the buried waste	Yes 🔀 No	
Ground water is between 50 and 100 feet below the bottom of the barbet water.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☑ NA	
1 100 feet below the bettern of the buried waste		
- NM Office of the State Engineer - IWATERS database search, USGS, Data obtained from field by	-	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa	Yes No	
lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site		
	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
and the state of t	☐ Yes 🛛 No	
and the state of any other well of spinish the state of any other tresh wall well of spinish the state of the		
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes 🐼 No	
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality		
	☐ Yes ☑ No	
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site		
Within the area overlying a subsurface mine	☐ Yes ☑ No	
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division		
Within an unstable area.	☐ Yes ☑ No	
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS, NW Geological	LJ ICS ES 140	
Society; Topographic map	Yes 🛭 No	
Within a 100-year floodplain FEMA map	100 (24 110	
- I Livia map		

	T I Cal Call wing it was must be attached to the
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC	) Instructions: Each of the Jouowing uems must be utuched to the
closure plan. Please indicate, by a check mark in the box, that the documents of 19	15 17 13 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19.  Confirmation Sampling Plan (if applicable) - based upon the appropriate re	equirements of Subsection F of 19.15.17.13 NMAC
The same and the same of the s	requirements of Subsection 11 of 17.15.17.15
— — bu be a suprementate requirements of Numberland	11 1 17 17 17 17 17 17 17 17 17 17 17 17
Site Reclamation Plan - based upon the appropriate requirements of Subsection	Cuon G of 19.13.
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins	Only: (19 15 17 13.D NMAC) Instructions: Please indentify the facility
waste Removal Closure For Closed-100p Systems That Outline Haur-on Sins or facilities for the disposal of liquids, drilling fluids and drill cuttings.	
	Disposal Facility Permit Number:
Disposal Facility Name:  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,
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of	ine jouowing ucha mass of anti-
by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate re	equirements of 19.15.17.10 NMAC
67 C Decion of Durini Trench (if applicable) pased upon upon	ippropriate requirements of the state of the
Confirmation Sampling Plan (II applicable) - based upon the appropriate requirements      Waste Material Sampling Plan - based upon the appropriate requirements	of Subsection F of 19.15.17.13 NWAC
to the street of the street and Domest Norther (for Hilling Offilling Hilling all	dilli cuttings of its case of site
Re-vegetation Plan - based upon the appropriate requirements of Subsection	
Site Reclamation Plan - based upon the appropriate requirements of Suosc	coton d or 1992
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accu	rate and complete to the best of my knowledge and belief.
1 // 1	Title: FOR MIN
Name (Print): Can Kobyas	
1 FA 77	Date: 1-22-08
Signature: Can Kolburt	
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e-mail address:	Telephone:
	Plan (only)
OCD Approval: Permit Application (including closure plan) Closure	Plan (only)
	Plan (only)  Approval Date: 7/23/06
OCD Approval: Permit Application (including closure plan) Closure OCD Representative Signature:	Approval Date: 7/24/00
OCD Representative Signature:	Approval Date: 7/25/00
OCD Representative Signature:    Sealogist   Sealogist	OCD Permit Number: PI-DD2DD
OCD Representative Signature:  Stologist  Title:	OCD Permit Number: PI-DD2DD  on K of 19.15.17.13 NMAC
OCD Representative Signature:	OCD Permit Number: PI-DD2DD
OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion): Subsection	Approval Date: 7/24/00  OCD Permit Number: PI-DD2DD  on K of 19.15.17.13 NMAC  Closure Completion Date:
OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion): Subsection	Approval Date: 7/24/00  OCD Permit Number: PI-DD2DD  on K of 19.15.17.13 NMAC  Closure Completion Date:
OCD Representative Signature:  Title:  Closure Report (required within 60 days of closure completion): Subsection  Closure Method:  Waste Excavation and Removal On-Site Closure Method Alter	Approval Date: 7/24/00  OCD Permit Number: PI-DD2DD  on K of 19.15.17.13 NMAC  Closure Completion Date:
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Title:  Closure Report (required within 60 days of closure completion): Subsection  Closure Method:  If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the following mark in the box, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)  Plot Plan  Confirmation Sampling Analytical Results  Waste Material Sampling Analytical Results  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)  On-site Closure Location: Latitude  Lon  Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requirements.	OCD Permit Number: PI-DDQDD  On K of 19.15.17.13 NMAC Closure Completion Date:  That ive Closure Method  Titems must be attached to the closure report. Please indicate, by a check  On the closure report is true, accurate and complete to the best of my knowledge and rements and conditions specified in the approved closure plan.
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## P 2 CONSTRUCTION, INC.

Maintenance - Lease - Construction - Dirt Work - Environmental Services

1656 N. Flamingo Ave. Unit A, Odessa, TX 79763 D Office (432) 381-4800 Fax # (432) 381-4801 July 18, 2008

Melrose Operating Company P. O. Box 953 Midland TX. 79702

Attn: Mr. Cam Robbins

**Production Supervisor** 

RE: Work Plan For Pit Closure Located Jalmat Field Yates Sand Unit#232; U/L A Sec 23, T23S and R35E of Lea County, New Mexico

Dear Mr. Robbins:

P2 Construction, Inc. would like to take this time to thank you and Melrose Operating Co., for the opportunity to provide our professional services. Please find attached 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. My cell phone is 432-425-6192.

Sincerely,

Reynaldo Garza,

Sr. Project Manager

P2 Construction Inc.

## **Summary/Overview**

The Jalmat Field Yates Sand Unit site should be completed and remediated in accordance with the standards of the NMOCD. It is our understanding that any potential contamination from the site was a result of drilling petroleum product.

The potential contaminates of concern are mid to high-level concentrations of Production water and Drill Cuttings circulated into reserve pit for well bore.

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

The ground water depth data available for this area showed the depth to ground water to be in the 240' range BGS.

Pursuant to the standards of the NMOCD, the clean up level for this site will be at <5,000ppm of TPH, <50ppm for BTEX and Chlorides less than <250ppm.

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 P2 Construction, Inc. to remove and remediate reserve pit drill cuttings for pit closure. Melrose has also requested that P2 Construction submit a copy of results and reclamation plan to NMOCD for entombment of impacted soils.

- 1. First P2 Construction will call One-Call for line spot clearance before any excavation at the site is started.
- 2. P2 Construction 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, getting the site back into compliance.
- 3. P2 Construction will delineate the site vertical and horizontal for chloride's to determine the extent of impacted soil. Due to the size of reserve pit P2 will split the site into quadrants testing 25% of impacted soils. P2 will test the vertical; starting one foot from mud removal into deep bury pit.

- 4. P2 Construction, Inc. 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, and then placed in an approved reinforced 20 ml poly liner for entombment. The entombment pit will be approximately 100x40x20 foot deep; which will hold 2,500 Cubic yards of material. Once all contents are place in entombment pit; P2 will cap pit with an approved 20 ml poly liner. Then pit will be backfilled so that contents are 4 foot below ground level.
- 5. P2 Construction will field screen the site during the excavation and once the CL levels have dropped below NMOCD guidelines, final samples will be taken and sent to a third party lab for analysis.
- If site does not clear NMOCD guidelines on the 3 to 1 mix ratio then P2 construction will submit a report for waste removal to the NMOCD office. Then waste material will be transferred to Sundance Disposal or an approved NMOCD disposal site.
- 7. 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.
- 8. 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 flush 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, Lease 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 P2 Construction. 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 call432-425-6192 at any time.

Sincerely,

Reynaldo Garza Sr. Project Manager P2 Construction, Inc.