District I 1625 N French Dr , Hobbs, NM 88240 District II 1301 W Grand Ave , Artesia, NM 88210 District III

State of New Mexico **Energy Minerals and Natural Resources**

Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

Form C-144

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

1000 Rio Brazos Rd, Aztec, NM 87410 District IV 1220 S St Francis Dr , Santa Fe, NM 87505

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

Lined Unlined Liner type Thickness mil LLDPE HDPE PVD Other Liner Seams Welded Factory Other Liner Seams Welded Factory Other	environment Nor does approval relieve the operator of its responsibility to comply with any other applications.	able governmental authority's rules, regulations or ordinances.
Pacility or well name: San Juan 29-6 Unit SWD 301 API Number: 30-039-24807 OCD Permit Number. U/L or Qtr/Qtr: P(SE/SE) Section: 2 Township: 29N Range: 6W County: Rio Arriba Center of Proposed Design: Latitude: 36,74823 °N Longitude: 107,42388 °W NAD: \$\tilde{1927}\$ 1983 Surface Owner: 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 Thickness null LLDPE HDPE PVC Other String-Reinforced Liner Seams Welded Factory Other Volume bbl Dimensions L x W x D 3 Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of miterit) Drying Pad S Above Ground Steel Tanks Haul-off Bins Other Liner Seams Welded Factory Other Hull-off Bins Other Liner Seams Welded Factory Other Hull-off Bins Other Liner Seams Welded Factory Other Other Hull-off Bins Other Liner Scams Welded Factory Other Other Hull-off Bins Other Liner Scams Welded Factory Other Hull-off Bins Other Liner Scams Welded Factory Other Other Hull-off Bins Other Liner Scams Welded Factory Other Other Hull-off Bins Other Liner Scams Welded Factory Other Hull-off Bins Other Liner Scams Welded Factory Other Other Hull-off Bins Other Liner Scams Welded Factory Other Other Hull-off Bins Other Liner Type Thickness Init Index Belevalls, Initer, 6-meh lift and automatic overflow shut-off Hull-off Bins Other Liner Type Thickness Init Index Belevalls, Initer, 6-meh lift and automatic overflow shut-off Hull-off Bins Other Liner Type Thickness Init Initiate Welthod;		OGRID#: 21781 7
API Number: John J	Address: PO Box 4289, Farmington, NM 87499	
Center of Proposed Design: Latitude: 36.74823 °N Longitude: 107.42388 °W NAD: X 1927 1983 Surface Owner: Federal X State Private Tribal Trust or Indian Allotment Pit: Subsection For G of 19 15 17 11 NMAC Perivate Private P	Facility or well name: San Juan 29-6 Unit SWD 301	
Center of Proposed Design: Latitude: 36.74823 °N Longitude: 107.42388 °W NAD: \$\text{ 1927} \ 1983 \] Surface Owner:	API Number: 30-039-24807 . OCD Permit Num	mber.
Surface Owner:	U/L or Qtr/Qtr: P(SE/SE) Section: 2 Township: 29N Range:	6W County: Rio Arriba
Pit: Subsection F or G of 19 15 17 11 NMAC Temporary Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other	Center of Proposed Design: Latitude: 36.74823 °N Longitude:	107.42388 °W NAD: X 1927 1983
Pit: Subsection F or G of 19 15 17 11 NMAC Temporary	Surface Owner: Federal X State Private Tribal Trust or Inc	dian Allotment
Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation P&A Drilling a new well X Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)	Pit: Subsection F or G of 19 15 17 11 NMAC Temporary Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type Thickness mil LLDPE String-Reinforced	
Below-grade tank: Subsection I of 19 15 17 11 NMAC Volume	X Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation	1516171879
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 Alternative Method:	Volume bbl Type of fluid	OIL CONS. DIV. DIST. 3
Alternative Method:	Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and a Visible sidewalls and liner Visible sidewalls only Other	automatic overflow shut-off
ullet	Alternative Method:	ronmental Bureau office for consideration of approval.



6	Fencing: Subsection D of 19 15.17 11 NMAC (Applies to permanent pit, 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 Alternate Please specify				
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 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers				
	X 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 of the Santa Fc Environmental Bureau office for cons (Fencing/BGT Liner)	ideration of ap	proval		
	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	Yes	No		
	Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	□No		
	Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No		
	(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA			
	- 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 initial application. (Applied to permanent pits)	Yes	No		
	- Visual inspection (certification) of the proposed site, Aerial photo; Satellite image				
	Within 500 horizonal 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.	Yes	No		
	- NM Office of the State Engineer - iWATERS database search, 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 adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	No		
	Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspection (certification) of the proposed site	Yes	No		
	Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	No		
	Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	No		
	Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	No		

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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
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
Previously Approved Design (attach copy of design) API or Permit
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
Previously Approved Operating and Maintenance Plan API
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 (I) 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 Proceed Claumer, 10 15 17 12 NIMAC
<u>Proposed Closure:</u> 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)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
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.
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
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17 13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> (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 Disposal Facility Permit #						
Disposal Facility Name Disposal Facility Permit #						
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future Yes (If yes, please provide the information No	service and					
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specification - 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 stung criteria requires a demonstration of compliance in the closure plan Recommendations of acceptable source material are provided below Requests regarding changes to certain stung 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.	Yes No					
- NM Office of the State Engineer - iWATERS database search, USGS Data obtained from nearby wells	□N/A					
Ground water is between 50 and 100 feet below the bottom of the buried waste	☐Yes ☐No					
- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	│					
Ground water is more than 100 feet below the bottom of the buried waste	☐Yes ☐No					
- NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells						
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)	Yes No					
- 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 initial application - Visual inspection (certification) of the proposed site, Aerial photo, satellite image	Yes No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application - 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 adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes No					
- Written confirmation or verification from the municipality, Written approval obtained from the municipality Within 500 feet of a wetland Yes No						
- 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 confirantion or verification or map from the NM EMNRD-Mining and Mineral Division	Lifes Like					
Within an unstable area	Yes No					
- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map						
Within a 100-year floodplain - FEMA map	Yes No					
18 On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must bee 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 ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC	cannot be achieved)					
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC						
Ste Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC						

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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) Title					
Signature Date					
e-mail address Telephone					
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: /// 2011 Title: OCD Permit Number:					
Closure Report (required within 60 days of closure completion): 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. X Closure Completion Date: 5/23/2011					
22					
Closure Method: Waste Excavation and Removal On-site Closure Method Alternative Closure Method X 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 identify 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 Envirotech / JFJ Landfarm % IEI Disposal Facility Permit Number NM-01-0011 / NM-01-0010B					
Disposal Facility Name Basin Disposal Facility Disposal Facility Permit Number NM-01-005					
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 compliane to the items below)					
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 (if applicable)					
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					
Operator Closure Contification					
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is ture, 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) CRYSTAL TAFOYA Title STAFF REGULATORY TECHNICIAN					
Signature John Tajaya Date: 7/18/11					
e-mail address <u>crystal tafoya@conocophillips com</u> Telephone (505) 326-9837					