District I 1625 N FrenchState of New Mexico Energy Minerals and Natural Resources DepartmentDistrict II 1301 W Grand Avenue. Artesia. NOV 10]32008 2008Department Oil Conservation Division 1220 S outh 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 T	ank, or			
Proposed Alternative Method Permit or Closure P	lan 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	n, 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				
Operator John H Hendrix Corporation OGRID #. 01	2024			
AddressP. O. Box 3040 Midland, TX 79702-3040				
Facility or well name Cossatot G No. 1				
API Number 30-025-24371 OCD Permit Number: U/L or Qtr/Qtr F Section 13 Township 22S Range 37E C	P1-00677			
U/L or Qtr/Qtr F Section 13 Township 22S Range 37E C	County Lea			
Center of Proposed Design Latitude Longitude				
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: Thicknessmil LLDPE HDPE PVC Oth	er			
String-Reinforced				
	Dimensions I			
Liner Seams. 🗌 Welded 🗋 Factory 🗋 Other Volumebbl				
 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 whice) 				
intent)	in require prior approval of a permit or notice of			
Drying Pad 🔲 Above Ground Steel Tanks 🗌 Haul-off Bins 🛛 Other <u>Vacuum Truck</u>				
Lined Unlined Liner type Thicknessmil LLDPE HDPE PVC Other				
Liner Seams 🗌 Welded 🗌 Factory 🔲 Other				
4.				
Below-grade tank: Subsection I of 19 15 17 11 NMAC				
Volumebbl 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 Thicknessmil				
s Alternative Method:				
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval				
outilities of an exception request is required. Exceptions must be submitted to the Santa Fe Environmenta	al 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, hospital, institution or church)

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

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

Alternate Please specify_

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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 Signed in compliance with 19.15 3.103 NMAC 				
 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.} <u>Siting Criteria (regarding permitting)</u> : 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 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			
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (<i>Applies to permanent pits</i>) Visual inspection (certification) of the proposed site; Aerial photo, Satellite image 	☐ Yes ☐ No ☐ NA			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No			
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality, Written approval obtained from the municipality 	🗌 Yes 🗌 No			
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No			
 Within an unstable area Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No			
Within a 100-year floodplain - FEMA map	Yes No			

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attac	hment Checklist: Subsection B of 19 15 17 9 NMAC		
Instructions: Each of the following items must be attached to the application. Please i attached.	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 			
Previously Approved Design (attach copy of design) API Number	or Permit Number		
12. <u>Closed-loop Systems Permit Application Attachment Checklist</u> : Subsection B of 19. <i>Instructions: Each of the following items must be attached to the application. Please i</i> <i>attached.</i>			
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 clo	osure)		
 Siting Criteria Compliance Demonstrations - based upon the appropriate requiremee Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19 Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19 15 17 11 N Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.1 Operating and Maintenance Plan - based upon the appropriate requirements of 19.1 Freeboard and Overtopping Prevention Plan - based upon the appropriate requirement Nuisance or Hazardous Odors, including H₂S, Prevention Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.1 	9 15.17.11 NMAC rements of 19 15 17.11 NMAC IMAC quirements of 19.15.17.11 NMAC 5.17.12 NMAC ents of 19.15.17.11 NMAC		
14. <u>Proposed Closure</u> : 19.15.17 13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to</i>			
Type: Drilling Workover Emergency Cavitation P&A Permanen Alternative Proposed Closure Method Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and clos In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted	sed-loop systems)		
 15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instruct closure plan. Please indicate, by a check mark in the box, that the documents are attack Protocols and Procedures - based upon the appropriate requirements of 19.15 17 13 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirement Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttion Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection I of 19. Site Reclamation Plan - based upon the appropriate requirements of Subsection G or Subsection Revegetation Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate requirements of Subsection G or Subsection Plan - based upon the appropriate Plan - based upon the approprise Plan - based upon the appropriate Plan -	ctions: Each of the following items must be attached to the hed. NMAC nts of Subsection F of 19.15.17 13 NMAC tings) nents of Subsection H of 19.15 17.13 NMAC .15.17.13 NMAC		

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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 indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two			
facilities are required.	more than two		
Disposal Facility NameSundance Services Disposal Facility Permit NumberNM-01-000	3		
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 <i>will not</i> be used for future service and operations ⁹ 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			
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 - 1WATERS database search; USGS, Data obtained from nearby wells	Yes No NA		
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA		
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA		
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other 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 Visual inspection (certification) of the proposed site; Aerial photo, Satellite image 	🗌 Yes 🗌 No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No		
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978. Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No		
 Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No		
 Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No		
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No		
Within a 100-year floodplain - FEMA map	🗌 Yes 🗌 No		
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

Ste 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	ate and complete to the best of my knowledge and belief.	
Name (Print) [·] Ronnie H Westbrook	TitleVice President	
Signature Ronnie H Westbrook Signature ROMME H WARTMA	Date11/12/08	
	Telephone432-684-6631	
20 <u>OCD Approva</u> l: Permit Application (including closure plan) [] Closure Pl	an (only) 📋 OCD Conditions (see attachment)	
OCD Representative Signature:	Approval Date://////////////////////////////////	
20 OCD Approval: Permit Application (including closure plan) Closure Pl OCD Representative Signature:	Approval Date: _//////08 OCD Permit Number: PI677	
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 Alterna If different from approved plan, please explain	tive Closure Method 🔲 Waste Removal (Closed-loop systems only)	
^{23.} <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> 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 <i>will not</i> 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 its	me must be attached to the closure report. Please indicate by a check	
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		
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	

FORM C-144 COSSATOT G #1 API# 30-025-24371



- 1. The above is a picture of the type of vacuum truck to be used during workover operations instead of a steel tank.
- 2. A steel flow line will be laid from the wellhead to the vacuum truck.
- 3. Fluids from the wellbore will be circulated from the wellbore to the vacuum truck to spot acid.
- 4. Flow of water, oil or gas by natural flow, swabbing, etc. will be directly to the steel tank for testing purposes.
- 5. If a reportable spill should occur, it will be reported to the NMOCD and the land owner and remediated as to NMOCD guidelines.
- 6. Water, spent acid water and produced water will be hauled by vacuum truck to Sundance Services (Permit No. NM -01-0003) for disposal. No solids are anticipated.
- 7. Oil from the vacuum truck will be skimmed off and transferred to the tank battery by the vacuum truck.