District.1 625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources	Form C-144 CLE Revised August 1, 201
District II 11 S. First St., Artesia, NM 88210	Department	· · · · ·
District III	Oil Conservation Division	For closed-loop systems that only use above ground steel tanks or haul-off bins and propose
District IV.7 The second second second second	1220 South St. Francis Dr. Santa Fe, NM 87505	<i>to implement waste removal for closure</i> , submit to the appropriate NMOCD District Office.
a strate is compositive and its choosed	Loon System Permit or Closure Plan	Application
(that only use above grou	nd steel tanks or haul-off bins and propose to implem	ent waste removal for closure)
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closed-loop system that only use above ground	Form C-144 CLEZ) per individual closed-loop system request steel tanks or haul-off bins and propose to implement waste s not relieve the operator of liability should operations result in	removal for closure, please submit a Form C-144.
	or of its responsibility to comply with any other applicable go	vernmental authority's rules, regulations or ordinance
Dperator: _MANZANO, LLC	OGRID #	RECEIVED
Address:PO BOX 2107, ROSW	ELL, NM 88202-2107	DEC 26 2012
acility or well name: _Meridian Fed #2H		
API Number: 30-015-41252	OCD Permit Number: 214193	NMOCD ARTESIA
J/L or Qtr/Qtr D Section3	Township20SRange _29ECounty:	EDDY
Center of Proposed Design: Latitude N, 32.3	5'32.56" LongitudeW104.04' 09.54"	NAD: 1927 🛛 1983
Surface Owner: 🛛 Federal 🗔 State 🗌 Privat	e 🗌 Tribal Trust or Indian Allotment	
	ver or Drilling (Applies to activities which require prior ap	
Signs: Subsection C of 19.15.17.11 NMAC □ 12"x 24", 2" lettering, providing Operator. Signed in compliance with 19.15.16.8 NM	s name, site location, and emergency telephone numbers	an el al america parter major Al el foldado
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7. OCD Approval: Permit Application (including closure plan) Close		
OCD Representative Signature:	Approval Date: <u>4/11/13</u>	
Title: DIST R. Superwar	OCD Permit Number: 214193	
8. <u>Closure Report (required within 60 days of closure completion)</u> : Subset Instructions: Operators are required to obtain an approved closure plan p The closure report is required to be submitted to the division within 60 day section of the form until an approved closure plan has been obtained and t	rior to implementing any closure activities and submitting the closure report. s of the completion of the closure activities. Please do not complete this	
· .	Closure Completion Date:	
⁹ <u>Closure Report Regarding Waste Removal Closure For Closed-loop Sys</u> Instructions: Please indentify the facility or facilities for where the liquids two facilities were utilized.	tems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: , drilling fluids and drill cuttings were disposed. Use attachment if more than	
Disposal Facility Name:GANDY MARLEY	Disposal Facility Permit Number:NM-01-0019	
Disposal Facility Name:	Disposal Facility Permit Number:	
Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate compliance to the items below)	•	
Required for impacted areas which will not be used for future service and op Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	perations:	
 <u>Operator Closure Certification</u>: I hereby certify that the information and attachments submitted with this closubelief. I also certify that the closure complies with all applicable closure req 		
Name (Print):PAUL RAGSDALE	Title:ENGINEER	
Signature:	Date:11-29-2012	
e-mail address:PAUL@MANZANOENERGY.COM	575-623-1996	

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State of New Mexico EMNRD – OCD

Closed–Loop Systems Permit Application Attachment - MERIDIAN FED #2H

Design Plan

A closed-loop system will be used while drilling the MERIDIAN FED #2H in order to separate and contain all oil, water, drilling fluid, and drill cuttings. Returns from drilling operations will travel up the wellbore annulus, through a flowline at the surface, and into the closed-loop system. As the returning drilling fluid exits the flowline it will pass over two shakers with screens sized to most effectively separate liquids from solids. Liquids will be discharged into temporary above ground steel mud pits for re-use in drilling procedures. Solids will be shaken off into steel haul-off cuttings bins. Two centrifuges placed above the haul-off bins will have suction lines placed under the shaker with liquid discharge in the steel mud pits. The fluid suctioned here will pass through the centrifuges, dropping out any remaining solids into the steel haul-off bins used by the shaker discharge. Once a steel haul-off bin is adequately filled, it will be replaced by an empty bin and hauled away for disposal. This system will keep all drilling fluids and drill cuttings completely contained while waiting for re-use or until ready for disposal.

Operating and Maintenance Plan

The closed-loop system will be operated during all drilling, circulating, and drilling fluid-conditioning operations. The system will be monitored twenty four hours a day for the duration of drilling operations, and will contain only fluids and solids used or generated during drilling operations. Monitoring will include inspection of temporary steel pits, flowlines, solids control equipment, haul-off bins, mud-pump suction lines, and transfer lines between pits. Inspections will focus on leak prevention, detection, and remediation if leaks are found. Equipment condition and effectiveness will be closely monitored to ensure that no failures are encountered that would result in any foreign solids or fluids coming into contact with the ground. Flowlines and transfer lines will be checked regularly to ensure that no plugging is taking place. Temporary steel pit levels will be monitored in order to keep at least two feet of freeboard as specified in subsection B of 19.15.17.12 NMAC in order to prevent overtopping. Haul-off bins containing solids will be monitored in order to prevent over filling or overflow of cuttings. All steel pits will be emptied and removed as soon as rig is released from location.

Closure Plan

The closed-loop system used on the MERIDIAN FED #2H will use only above ground steel tanks for drilling fluids, and haul-off bins for drill cuttings. As soon as drilling operations are completed, the above ground steel tanks will be emptied of all drilling fluids, which will be disposed of at CRI, facility permit number NM-010006. The drill cuttings generated during drilling operations will be removed from the location in haul-off bins and disposed of at the same disposal facility as drilling fluid. The cuttings will be removed from location as needed throughout drilling procedures. Once drilling is completed, any remaining bins containing cuttings will be transported to disposal facility, emptied, and cleaned thoroughly.