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 methodXClosure of a pit, closed-loop system, below-grade tank, or proposed alternative methodModification to an existing permitClosure 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: Cambrian Management LTDOGRID #: 198688										
Address: PO Box 272 Midland, TX 79702										
Facility or well name: Renata 16 State Comm No. 001										
API Number: 30-015-35029         OCD Permit Number:										
U/L or Qtr/Qtr A Section 16 Township 23S Range 24E County: Eddy										
Center of Proposed Design: Latitude N32.30920 Longitude W-104.49810 NAD: 1927 X 1983										
Surface Owner: 🛄 Federal X State 🛄 Private 🔲 Tribal Trust or Indian Allotment										
2										
X Pit: Subsection F or G of 19.15.17.11 NMAC										
Temporary: X Drilling 🗌 Workover										
X Permanent Emergency Cavitation P&A OCT 2 4 2013										
X Lined Dunlined Liner type: Thickness 20mil DLLDPE X HDPE PVC Other										
X String-Reinforced										
Liner Seams: Welded Factory X Other Stitched Volume: 2000 bbl Dimensions: L 125' x W 125' x D 8'										
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: Thicknessmil LLDPE HDPE PVC Other										
Liner Seams: Welded Factory Other										
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: Thicknessmil 🔲 HDPE 🗋 PVC 🛄 Other										
5.										
Alternative Mathad										

# Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

<ul> <li>6.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)</li> <li>Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school institution or church)</li> <li>Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> <li>Alternate. Please specify</li></ul>	l, hospital,
<ul> <li>7. <u>Netting:</u> Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)</li> <li>Screen Netting Other</li> <li>Monthly inspections (If netting or screening is not physically feasible)</li> </ul>	
<ul> <li><u>Signs:</u> Subsection C of 19.15.17.11 NMAC</li> <li>12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</li> <li>Signed in compliance with 19.15.16.8 NMAC</li> </ul>	
<ul> <li>Administrative Approvals and Exceptions:</li> <li>Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</li> <li>Please check a box if one or more of the following is requested, if not leave blank:         <ul> <li>Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.</li> <li>Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul> </li> </ul>	office for
<sup>10.</sup> 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 acce- material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appr- office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
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
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	I Yes No NA
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	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
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗋 Yes 🗌 No
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.
<ul> <li>Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC</li> </ul>
and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
<sup>12.</sup> 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.
<ul> <li>Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9</li> <li>Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC</li> <li>and 19.15.17.13 NMAC</li> </ul>
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)
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 bax, 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         Laak Detection Design - 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         Reregency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Errosion Control Plan         Errosion Control Plan         Errosion Control Plan
<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: X Drilling       Workover       Emergency       Cavitation       Permanent Pit       Below-grade Tank       Closed-loop System         Alternative       Proposed Closure Method:       X 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 Burial
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
<ul> <li>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.</li> <li>X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC.</li> <li>X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC.</li> <li>X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>X Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC</li> <li>X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC</li> </ul>

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<sup>16.</sup> Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, facilities are required.	Steel Tanks or Haul-off Bins Only: (19.15.17.13.) drilling fluids and drill cuttings. Use attachment if	D NMAC) more than two					
	Disposal Facility Permit Number:						
Disposal Facility Name:	Disposal Facility Permit Number:						
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) No	eeur on or in areas that will not be used for future ser	vice and operations?					
Required for impacted areas which will not be used for future service and operatio         Soil Backfill and Cover Design Specifications based upon the appropriate         Re-vegetation Plan - based upon the appropriate requirements of Subsection         Site Reclamation Plan - based upon the appropriate requirements of Subsect	requirements of Subsection H of 19.15.17.13 NMA 1 of 19.15.17.13 NMAC	С					
<sup>17.</sup> Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below, Requests regarding changes to certain siting criteria may requir considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC J	e administrative approval from the appropriate dist Bureau office for consideration of approval. Just	rict office or may be					
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	□ 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							
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellite		🗌 Yes 🗌 No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or spring the State Engineer - iWATERS database; Visual inspection (	pring, in existence at the time of initial application.	🗌 Yes 🗌 No					
Within incorporated municipal boundaries or within a defined municipal fresh wate adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approva		🗍 Yes 🗌 No					
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visua	l 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					
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology Society; Topographic map</li> </ul>	& Mineral Resources; USGS; NM Geological	🗌 Yes 🗌 No					
Within a 100-year floodplain. - FEMA map		🗌 Yes 🗌 No					
<ul> <li>Instructions: Each of the by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Construction/Design Plan of Temporary Pit (for in-place burial of a drying pa Protocols and Procedures - based upon the appropriate requirements of Solor Sampling Plan (if applicable) - based upon the appropriate requirements of Solor Sampling Plan - based upon the appropriate requirements of Solo Solor Solor Plan - based upon the appropriate requirements of Solor Solor Plan - based upon the appropriate requirements of Solor Solor Plan - based upon the appropriate requirements of Solor Solor Plan Protocols Plan - based upon the appropriate requirements of Solor Solor Plan Provention Plan - based upon the appropriate requirements of Solor Solor Plan Provention Plan Provention Plan Provention Plan Plan Plan Plan Plan Plan Plan Pla</li></ul>	irements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC d) - based upon the appropriate requirements of 19.1 17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC bubsection F of 19.15.17.13 NMAC ill cuttings or in case on-site closure standards canno	5.17.11 NMAC					

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): <u>W.A. Baker II</u> Title: <u>Engineer</u>
Signature: WABah I Date: Z/22/13
e-mail address: Wbaker @ cambrigning mt. com Telephone: 432-557-0120
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date:
Title:            OCD Permit Number:
<sup>21.</sup> <u>Closure Report (required within 60 days of closure completion)</u> : Subsection K of 19.15.17.13 NMAC <i>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report.</i> <i>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</i> <i>section of the form until an approved closure plan has been obtained and the closure activities have been completed.</i>
Closure Completion Date: <u>200713</u>
<ul> <li>22.</li> <li>Closure Method:</li> <li>Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)</li> <li>If different from approved plan, please explain.</li> </ul>
<sup>23.</sup> 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 <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 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
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): <u>W.A. Baker</u> Signature: <u>MABala</u> Date: 170CT13
e-mail address: Wbakere cambrian mg Mt. com Telephone: 432-557-0120

# **Confirmation Sampling Analytical Results**

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September 10, 2013

VERNON BLACK Hungry Horse Environmental P.O. Box 1058

Hobbs, NM 88240

RE: RENATA 16 STATE COM #1

Enclosed are the results of analyses for samples received by the laboratory on 09/09/13 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	09/09/2013	Sampling Date:	09/09/2013
Reported:	09/10/2013	Sampling Type:	Soil
Project Name:	RENATA 16 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: 5 PT. COMP (H302170-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	. 106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	09/10/2013	ND	400	100	400	3.92	
ТРН 8015м	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2013	ND	208	104	200	0.475	
DRO >C10-C28	<10.0	10.0	09/09/2013	ND	192	96.1	200	3.54	
Surrogate: 1-Chlorooctane	68.3	65.2-14	0						
Surrogate: 1-Chlorooctadecane	76.8	63.6-15	4						

#### Sample ID: NW CORNER (H302170-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/10/2013	ND	400	100	400	3.92	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	09/09/2013	Sampling Date:	09/09/2013
Reported:	09/10/2013	Sampling Type:	Soil
Project Name:	RENATA 16 STATE COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: SW CORNER (H302170-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	09/10/2013	ND	400	100	400	3.92	

#### Sample ID: CENTER (H302170-04)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7120	16.0	09/10/2013	ND	400	100	400	3.92		

#### Sample ID: NE CORNER (H302170-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	09/10/2013	ND	400	100	400	3.92	

#### Sample ID: SE CORNER (H302170-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
Chloride	4480	16.0	09/10/2013	ND	400	100	400	3.92					

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#### \*=Accredited Analyte

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Celeg Di Kune

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE ND-TE: Liabliky and Damages. Cardinal's fability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Jaboratories.

Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

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**CARDINAL** Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

	101 East Marland, Ho	•																								
Company Name	(575) 393-2326 FAX		6			· · · · ·		jene	Hak				City - City	in the									-			·····
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# **Disposal Facility Name and Permit Number**

Lea Land, LLC. Permit # W-1-035

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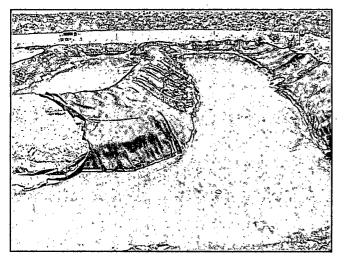
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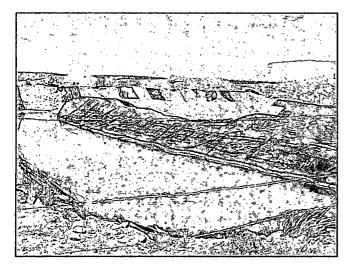
### **Soil Backfilling and Cover Installation**

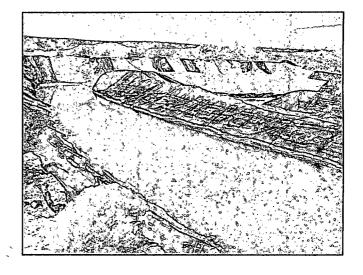
The impacted area was backfilled using material that had been stockpile on site during the construction of the drilling reserve pit. The area was contoured to match the surrounding terrain and then ripped to aid in the reduction of erosion.

# **Re-Vegetation Application Rate and Seeding Technique**

The impacted area was seed using a custom blend of seed. A 1.5 acre bag of seed was used and was applied by broadcasting. The seeded area was dragged with a seed drag to ensure covering of seed and then ripped.

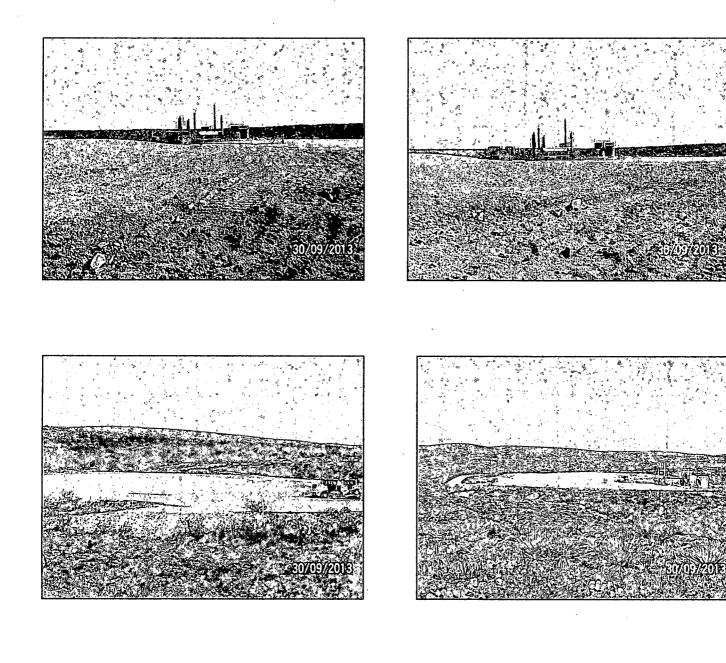


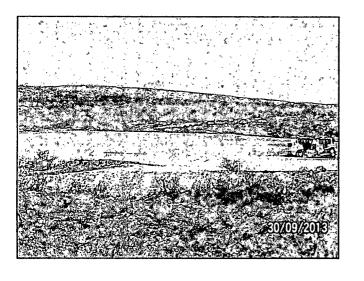


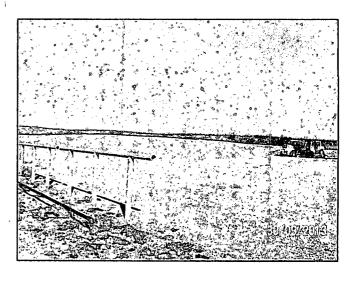












## Vernon Black

From: Sent: To: Subject: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us] Thursday, September 12, 2013 12:25 PM Vernon Black RE: RENATA 16 STATE COM #1

Vernon,

Thanks for coming in the office to review this site. As discussed, you are approved to commence backfill operations. Once the dirt work is completed we will get together and decide how to proceed with the paper work to meet requirements under the current pit rule.

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108 C: 575-626-0857 F: 575-748-9720

From: Vernon Black [mailto:VBlack@Hungry-Horse.com] Sent: Wednesday, September 11, 2013 8:57 AM To: Bratcher, Mike, EMNRD Subject: FW: RENATA 16 STATE COM #1

Hello Mike,

Give me a call when you get this.....I'd like to discuss these results as they pertain to the pit closure at Cambrian Mgmt's Renata 16 State Comm #1.

Vernon K. Black Hungry Horse, LLC PO Box 1058 Hobbs, NM 88241 575 393 3386 office 575 631 2253 cell

From: Celey Keene [mailto:celey.keene@cardinallabsnm.com] Sent: Tuesday, September 10, 2013 9:25 AM To: Vernon Black Subject: RENATA 16 STATE COM #1

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THANK YOU,

Celey Keene Lab Director Cardinal Laboratories 101 East Marland Hobbs, NM 88240 T: (575) 393-2326 F: (575) 393-2476 e-mail: <u>celey\_keene@cardinallabsnm.com</u>

The information contained in this message is confidential and is only intended for the use of the individual/firm named above. If the reader of this message is not the intended recipient or the employee/agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by e-mail or telephone in order to return the message.

# Attachment 3

State of New Mexico Energy Minerals and Natural Resources

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	icis Dr., Sant	a Fe, NM 87503	)	Sa	inta F	Fe, NM 875	05									
			Rele	ease Notific	catio	on and Co	orrective A	ction								
						OPERA	TOR	X Init	ial Report	Final Report						
Name of Co	ompany <b>C</b> a	ambrian Ma	inageme	nt, LTD		Contact WA Baker										
		, Midland, T					No. 432-557-01	20								
Facility Na	me Renata	a 16 State C	omm No	. 1		Facility Typ	e Oil Well			<u> </u>						
Surface Ow	ner			Mineral C	Owner			API N	o. <b>30-015-3</b>	5029						
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By Whom? I						Date and Hour N/A										
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should their	operations h	nave failed to a	adequately	investigate and r	emedia	nte contaminati	on that pose a thr	eat to ground wate	er, surface w	ater, human health						
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reueral, state	, or focal la	ws and/or regu	nations.				OIL CON	SERVATION	DIVISIO							
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Printed Nam	e: WA Bak	er				Approved by Environmental Specialist:										
Title: Engine	eer					Approval Dat	e:	Expiration	Date:							
E-mail Addr	ess: wbakei	r@cambrianı	ngmt.con	1		Conditions of	Approval:									
			<b>x</b>			•	1 <i>i</i>		Attached							
Date: 16Oct	13	Phone: 4	32-557-0	120					1							

\* Attach Additional Sheets If Necessary

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

#### **Release Notification and Corrective Action OPERATOR** Initial Report X Final Report Contact WA Baker Name of Company Cambrian Management, LTD Address PO Box 272, Midland, TX 79702 Telephone No. 432-557-0120 Facility Name Renata 16 State Comm No. 1 Facility Type Oil Well Mineral Owner API No. 30-015-35029 Surface Owner LOCATION OF RELEASE Unit Letter Section Township Feet from the North/South Line Feet from the East/West Line County Range 16 23S 24E Eddy A Latitude 32.30920 Longitude -104.49810 NATURE OF RELEASE Type of Release Chlorides Volume of Release Unknown Volume Recovered 0 Source of Release Reserve Drilling Pit Date and Hour of Occurrence Date and Hour of Discovery Unknown Unknown Was Immediate Notice Given? If YES, To Whom? Yes No X Not Required N/A By Whom? N/A Date and Hour N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X No N/A RECEIVED If a Watercourse was Impacted, Describe Fully.\* OCT 2 4 2013 N/A MOCD ARTESIA Describe Cause of Problem and Remedial Action Taken.\* The drilling reserve pit for the well site was not closed and the failure of the synthetic liner allowed chlorides to migrate below the liner. Describe Area Affected and Cleanup Action Taken.\* The drilling reserve pit was reclaimed by using the Waste Excavation and Removal Method. The pit was excavated to a depth of 1' below the synthetic liner. The pit contents were transported to a division approved disposal facility. Soil samples were obtained at five points from the excavated area of the pit. From these 5 samples, a composite sample was created. All five individual samples plus the composite sample had lab analysis conducted for TPH, BTEX, and Chlorides. (See attached Lab Analytical) The lab analytical was presented to NM OCD's Mike Bratcher seeking closure approval. Closure approval was granted. The impacted area was backfilled using on site material that had been stock piled during construction of the pit. The area was contoured to match the surrounding terrain and re-seeded. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION MBla Signature: Approved by Environmental Specialist: Printed Name: WA Baker Title: Engineer Approval Date: Expiration Date: E-mail Address: wbaker@cambrianmgmt.com Conditions of Approval: Attached $\Box$ Date: 16Oct13 Phone: **432-557-0120**

\* Attach Additional Sheets If Necessary