

# R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

**RECEIVED**

*By OCD; Dr. Oberding at 11:37 am, May 18, 2015*

April 24, 2015

Dr. Tomas Oberding  
NMOCD District 1  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
Via E-Mail

**APPROVED** Conditionally

*By OCD; Dr. Oberding at 11:37 am, May 18, 2015*

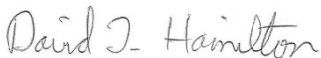
Please provide photodocumentation for final release.

RE: Harris #1, CML Exploration LLC.  
Closure Report, API Number 30-025-41365

Dear Dr. Oberding:

R.T. Hicks Consultants, Ltd. is pleased to submit this Closure Report for the above referenced site. If you have any questions or concerns, please contact us at 505-266-5004. Thank you for your time and attention.

Sincerely,  
R.T. Hicks Consultants



David Hamilton  
Project Scientist

# R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

April 24, 2015

Dr. Tomas Oberding  
NMOCD District 1  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
Via E-Mail and Mail

RE: Harris #1, CML Exploration LLC. Closure Report

Dear Dr. Oberding:

In keeping with the requirements of the approved C-144 closure plan for the temporary pit, this report includes the following information listed in Part 24 of the C-144 form.

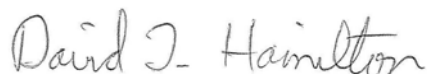
Required Information	Location in Submission
Proof of Closure Notice (to surface owner and Division)	Attachment 1
Proof of Deed Notice (required for on-site closure)	Attachment 2
Plot Plan (for on-site closures and temporary pits)	Attachment 3 (C-105 and Plate 1)
Confirmation Sampling Analytical Results	Not Applicable with in-place burial
Waste Material Sampling Analytical Results (required for on-site closure)	Attachment 4
Disposal Facility Name and Permit Number	Not Applicable
Soil Backfilling and Cover Installation	Attachment 5
Re-vegetation Application and Seeding Technique	
Updated C-144 Form	Attachment 6
Site Reclamation (Photo Documentation)	To follow later

Center of On Site Closure Location:

Latitude: N 33.458487      Longitude: W -103.075197      WGS 84 (Google Earth)

We understand that OCD cannot formally release the site under the current Rule until we document re-vegetation. As mentioned above, please expect documentation of re-vegetation when it is established in accordance with subsection I of 19.15.17.13 NMAC.

Sincerely,  
R.T. Hicks Consultants, Ltd.



David Hamilton  
Project Manager

***Attachment 1***

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6789 9225 1000 0101 2101 5226 6819

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

For delivery information visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

SEMINOLE TX 79360

Postage	\$ 5.60	0104
Certified Fee	\$3.10	03
Return Receipt Fee (Endorsement Required)	\$0.00	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 8.70	



Sent To

Street, Apt. No.,  
or PO Box No.

## ***Attachment 2***

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32264

STATE OF NEW MEXICO

§

COUNTY OF LEA

§

§

This Notice is filed to provide information concerning certain environmental conditions and/or use limitations pursuant to the New Mexico Oil Conservation Division (NMOCD) Rule found in Title 19 of the New Mexico Administrative Code (NMAC), Chapter 15, and affects the real property (the Property) described as follows:

Unit E of Section 8, Township 10 South, Range 38 East

As the siting criteria in Paragraph (4) of Subsection C of 19.15.17.10 NMAC (effective date of June 16, 2008), were met, CML Exploration LLC elected to use burial in place closure of the temporary pit used for drilling Harris #1 (API Number 30-025-41365). The waste met the criteria in Subparagraph (c) of Paragraph (3) of Subsection F of 19.15.17.13 NMAC. CML Exploration LLC notified the surface owner, David Bergen, on July 29, 2013 of the use of this closure method (see Attachment A).

The location of the burial in place is as follows:

*Being* 0.603 acres of land

and said 0.603 acre tract being more particularly described as follows;

*Commencing* at a point with coordinates of (WGS 84 coordinate system):

Latitude 33.458311°

Longitude -103.074927°

*Thence* Northwards a distance of 156.0 feet to a point with the coordinates of :

Latitude 33.458720°

Longitude -103.074974°

*Thence* Westwards a distance of 167.0 feet to a point with the coordinates of :

Latitude 33.458661°

Longitude -103.075499°

*Thence* Southwards a distance of 149.0 feet to a point with the coordinates of :

Latitude 33.458255°

Longitude -103.075438°

*Thence* Eastwards a distance of 169.0 feet to the point of beginning and containing 0.603 acres.

See Plate 1 attached hereto and incorporated herein by reference.

This notice is required because the Property described immediately above currently meets NMOCD requirements for In Place Burial Closure of a Temporary Drilling Pit. Based on the reports, the constituents of concern pose no significant present or future risk to humans or the environment based on the land use. No further remediation of the Property is required by the NMOCD as long as a person shall not build permanent structures over a burial in place closure without the appropriate division district office's written approval.

As of the date of this Notice, the record owner of title to the Property is David Bergen with an address of P.O. Box 1314, Seminole Texas 79360.

For additional information, contact:

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

This Notice may be rendered of no further force or effect only by a superseding deed notice executed by the NMOCD or its successor agencies and filed with the County Clerk of Lea County, NM in the same Real Property Records as those in which this Deed Notice is filed.

Executed this 2 day of March, 2015.

By: David Hamilton

Name: David Hamilton

Title: Agent for CMC Exploration, LLC

STATE OF NEW MEXICO

( Bernalillo ) COUNTY

BEFORE ME, on this the 2nd day of March, 2015, personally  
(date) (month and year)  
appeared David Hamilton Agent, of CMC Exploration,  
(name) (title) (company)

Known to me to be the person whose name is subscribed to the foregoing instrument, and they

Acknowledge to me that they executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 2nd day of  
March, 2015.

Notary Public in and for the State of New Mexico,  
County of

My Commission Expires:

March 21, 2015  
Guenevere P. Jordon







R.T. Hicks Consultants, Ltd  
901 Rio Grande Blvd NW  
Suite F-142  
Albuquerque, NM 87104  
505-266-5004

**In-Place Closure Location at Harris # 1 Site  
Unit E, Section 8, T10S, R 38E.**

**Plate 1**

**CML Exploration, LLC**

**March, 2015**

32264

STATE OF NEW MEXICO  
COUNTY OF LEA  
FILED

MAR 06 2015

at 11:28 o'clock A M  
and recorded in Book 1946  
Page 585  
Pat Chappelle, Lea County Clerk  
By MC Deputy



## ***Attachment 3***

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Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		<b>State of New Mexico</b> <b>Energy, Minerals and Natural Resources</b>  <b>Oil Conservation Division</b> <b>1220 South St. Francis Dr.</b> <b>Santa Fe, NM 87505</b>				<b>Form C-105</b> Revised August 1, 2011												
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>																		
4. Reason for filing:  <input type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)  <input checked="" type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name Harris										
7. Type of Completion: <input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER _____								6. Well Number:  # 1										
8. Name of Operator <div style="text-align: center;">CML Exploration LLC</div>								9. OGRID 256512										
10. Address of Operator								11. Pool name or Wildcat										
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
<b>Surface:</b>	K	8	10 S	38 E														
<b>BH:</b>																		
13. Date Spudded		14. Date T.D. Reached		15. Date Rig Released December 12, 2013		16. Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc.)										
18. Total Measured Depth of Well				19. Plug Back Measured Depth		20. Was Directional Survey Made?		21. Type Electric and Other Logs Run										
22. Producing Interval(s), of this completion - Top, Bottom, Name																		
<b>23. CASING RECORD (Report all strings set in well)</b>																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
<b>24. LINER RECORD</b>						<b>25. TUBING RECORD</b>												
SIZE	TOP	BOTTOM	SACKS CEMENT		SCREEN	SIZE	DEPTH SET		PACKER SET									
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black;">DEPTH INTERVAL</td> <td style="width:50%; border-bottom: 1px solid black;">AMOUNT AND KIND MATERIAL USED</td> </tr> <tr><td style="border-bottom: 1px solid black;"></td><td style="border-bottom: 1px solid black;"></td></tr> <tr><td style="border-bottom: 1px solid black;"></td><td style="border-bottom: 1px solid black;"></td></tr> <tr><td style="border-bottom: 1px solid black;"></td><td style="border-bottom: 1px solid black;"></td></tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED						
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
<b>28. PRODUCTION</b>																		
Date First Production		Production Method ( <i>Flowing, gas lift, pumping - Size and type pump</i> )				Well Status ( <i>Prod. or Shut-in</i> )												
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio											
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - ( <i>Corr.</i> )												
29. Disposition of Gas ( <i>Sold, used for fuel, vented, etc.</i> )								30. Test Witnessed By										
31. List Attachments																		
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit. See Plate 1																		
33. If an on-site burial was used at the well, report the exact location of the on-site burial: The temporary pit was the location for the on-site burial. See Plate 1																		
Co-ordinates in WGS 84		Latitude		Longitude		NAD 1927 1983												
<i>I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief</i>																		
Signature			Printed Name			Title			Date									
E-mail Address																		

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

## OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from.....to.....

No. 4, from.....to.....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

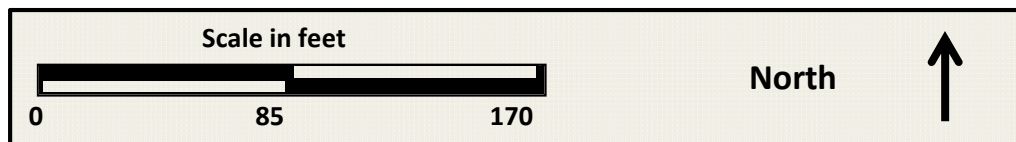
No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology





R.T. Hicks Consultants, Ltd  
901 Rio Grande Blvd NW  
Suite F-142  
Albuquerque, NM 87104  
505-266-5004

In-Place Closure Location at Harris # 1 Site  
Unit E, Section 8, T10S, R 38E.

Plate 1

CML Exploration, LLC

March, 2015

## ***Attachment 4***

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# R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

September 11, 2014

Mr. Tomas Oberding  
NMOCD District  
1625 French Drive  
Hobbs, NM 88240  
Via E-Mail

RE: CML Harris # 1 Temporary Pit  
In Place Burial Notice,  
Section 8 (K), T-10-S, R-38-E, Lea County, New Mexico (API: 30-025-41365)

Dear Mr. Oberding:

On behalf of CML Exploration, R.T. Hicks Consultants is providing this closure notice to NMOCD with a copy to the landowner. Closure activities will begin no earlier than Wednesday, September 17, 2014. Depending on equipment availability amongst other variables, the closure process should require about two weeks. The "In Place Burial" closure plan with the C-144 temporary pit application was approved by NMOCD on September 16, 2013.

Hicks Consultants obtained samples on July 17, 2014. In conformance with the Pit Rule\*, these samples were collected with a 5 point composite sample from the inner horseshoe and a five-point composite sample from the outer horseshoe. These samples were mixed at the proportion that they represent of the total cuttings (46% inner cuttings and 54% outer cuttings). This proportional sample was mixed with clean fill material at a ratio of 3 parts clean fill material to 1 part cuttings. The laboratory results are below in Table 1 and attached at the end of the letter.

\*(5) The operator shall collect, at a minimum, a five point composite of the contents of the temporary pit or drying pad/tank associated with a closed-loop system to demonstrate that, after the waste is solidified or stabilized with soil or other non-waste material at a ratio of no more than 3:1 soil or other non-waste material to waste, the concentration of any contaminant in the stabilized waste is not higher than the parameters in Table II of 19.15.17.13 NMAC.



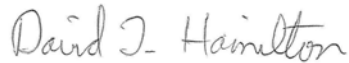
**Table 1:** *Laboratory Results from July 17, 2014 sample*

Closure Criteria Temporary Pits, GW > 100 feet			Harris Inner, Outer Stabilized 3:1 sample		
			July 17, 2014		[mg/kg]
Chloride	EPA Method 300.0	80,000 mg/kg	Method 300.0	Chloride	6100
TPH	EPA SW-846 Method 418.1	2,500 mg/kg	Method 418.1	TPH	64
			Method 8015D	GRO	ND
				DRO	55
				MRO	ND
GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg		GRO + DRO	55
Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg	Method 8021B	Benzene	0.11
				Toluene	0.27
				Ethylbenzene	0.097
				Xylene	0.24
BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg		Total BTEX	0.717

As can be seen in Table 1, concentrations of the materials listed in Table II of 19.15.17.13 NMAC (Pit Rule) are such that in-place burial of the stabilized cuttings is allowed.

We will follow up this notice with a phone call as required by the Pit Rule. As always, we appreciate your work and attention to detail.

Sincerely,  
R.T. Hicks Consultants



David Hamilton  
Project Hydrologist

cc:: CML Exploration, David Bergen, landowner



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

July 30, 2014

David Hamilton

R.T. Hicks Consultants, LTD  
901 Rio Grande Blvd. NW  
Suite F-142  
Albuquerque, NM 87104  
TEL: (505) 266-5004  
FAX (505) 266-0745

RE: Harris

OrderNo.: 1407A23

Dear David Hamilton:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/17/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1407A23**

Date Reported: **7/30/2014**

**CLIENT:** R.T. Hicks Consultants, LTD

**Client Sample ID:** Stabilized Solids

**Project:** Harris

**Collection Date:** 7/17/2014 3:00:00 PM

**Lab ID:** 1407A23-001

**Matrix:** SOIL

**Received Date:** 7/17/2014 3:29:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>				Analyst: <b>BCN</b>			
Diesel Range Organics (DRO)	55	10		mg/Kg	1	7/25/2014 2:55:28 AM	14374
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2014 2:55:28 AM	14374
Surr: DNOP	89.1	57.9-140		%REC	1	7/25/2014 2:55:28 AM	14374
<b>EPA METHOD 8015D: GASOLINE RANGE</b>				Analyst: <b>DJF</b>			
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/29/2014 12:31:54 AM	14359
Surr: BFB	91.7	80-120		%REC	1	7/29/2014 12:31:54 AM	14359
<b>EPA METHOD 8021B: VOLATILES</b>				Analyst: <b>DJF</b>			
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	7/29/2014 12:31:54 AM	14359
Benzene	0.11	0.050		mg/Kg	1	7/29/2014 12:31:54 AM	14359
Toluene	0.27	0.050		mg/Kg	1	7/29/2014 12:31:54 AM	14359
Ethylbenzene	0.097	0.050		mg/Kg	1	7/29/2014 12:31:54 AM	14359
Xylenes, Total	0.24	0.099		mg/Kg	1	7/29/2014 12:31:54 AM	14359
Surr: 4-Bromofluorobenzene	90.5	80-120		%REC	1	7/29/2014 12:31:54 AM	14359
<b>EPA METHOD 300.0: ANIONS</b>				Analyst: <b>JRR</b>			
Chloride	6100	300		mg/Kg	200	7/23/2014 5:37:14 PM	14378
<b>EPA METHOD 418.1: TPH</b>				Analyst: <b>JME</b>			
Petroleum Hydrocarbons, TR	64	50		mg/Kg	1	7/24/2014 12:00:00 PM	14377

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1407A23

30-Jul-14

Client: R.T. Hicks Consultants, LTD

Project: Harris

Sample ID	MB-14378		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	14378		RunNo:	20105				
Prep Date:	7/23/2014		Analysis Date:	7/23/2014		SeqNo:	584505		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-14378		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 14378		RunNo: 20105					
Prep Date:	7/23/2014		Analysis Date: 7/23/2014		SeqNo: 584506		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1407A23

30-Jul-14

Client: R.T. Hicks Consultants, LTD

Project: Harris

Sample ID	MB-14377		SampType:	MBLK		TestCode:	EPA Method 418.1: TPH				
Client ID:	PBS		Batch ID:	14377		RunNo:	20092				
Prep Date:	7/23/2014		Analysis Date:	7/24/2014		SeqNo:	584013		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	ND	20									

Sample ID	LCS-14377			SampType:	LCS		TestCode:	EPA Method 418.1: TPH			
Client ID:	LCSS			Batch ID:	14377		RunNo:	20092			
Prep Date:	7/23/2014			Analysis Date:	7/24/2014		SeqNo:	584014		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	84	20	100.0	0	83.7	80	120				

Sample ID	LCSD-14377			SampType:	LCSD		TestCode:	EPA Method 418.1: TPH			
Client ID:	LCSS02			Batch ID:	14377		RunNo:	20092			
Prep Date:	7/23/2014			Analysis Date:	7/24/2014		SeqNo:	584015		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	86	20	100.0	0	86.3	80	120	3.08	20		

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1407A23

30-Jul-14

Client: R.T. Hicks Consultants, LTD

Project: Harris

Sample ID	MB-14374		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 14374		RunNo: 20083					
Prep Date:	7/23/2014		Analysis Date: 7/23/2014		SeqNo: 583900		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		80.4	57.9	140			

Sample ID	LCS-14374		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 14374		RunNo: 20083					
Prep Date:	7/23/2014		Analysis Date: 7/23/2014		SeqNo: 583901		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	68.6	130			
Surr: DNOP	3.8		5.000		77.0	57.9	140			

Sample ID	MB-14414		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 14414		RunNo: 20106					
Prep Date:	7/24/2014		Analysis Date: 7/24/2014		SeqNo: 584672		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.1	57.9	140			

Sample ID	LCS-14414		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 14414		RunNo: 20106					
Prep Date:	7/24/2014		Analysis Date: 7/24/2014		SeqNo: 584673		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.5	57.9	140			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1407A23

30-Jul-14

Client: R.T. Hicks Consultants, LTD

Project: Harris

Sample ID	MB-14359		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 14359		RunNo: 20101					
Prep Date:	7/22/2014		Analysis Date: 7/23/2014		SeqNo: 584291		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.3	80	120			

Sample ID	LCS-14359		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 14359		RunNo: 20101					
Prep Date:	7/22/2014		Analysis Date: 7/23/2014		SeqNo: 584293		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	71.7	134			
Surr: BFB	940		1000		93.9	80	120			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1407A23

30-Jul-14

Client: R.T. Hicks Consultants, LTD

Project: Harris

Sample ID	MB-14359		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 14359		RunNo: 20101					
Prep Date:	7/22/2014		Analysis Date: 7/23/2014		SeqNo: 584466		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	80	120			

Sample ID	LCS-14359		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 14359		RunNo: 20101					
Prep Date:	7/22/2014		Analysis Date: 7/23/2014		SeqNo: 584467		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.2	0.10	1.000	0	117	80	120			
Benzene	1.3	0.050	1.000	0	125	80	120			S
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	80	120			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit



## Sample Log-In Check List

Client Name: RT HICKS

Work Order Number: 1407A23

RcptNo: 1

Received by/date:

*A 07/21/14*

Logged By: Anne Thorne

7/17/2014 3:29:00 PM

*Anne Thorne*

Completed By: Anne Thorne

7/22/2014

*Anne Thorne*

Reviewed By:

*A 07/22/14*

### Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Not Present			



***Attachment )***

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***Protocols and Procedures used for the In-Place Burial***

In accordance with the requirements listed in paragraph D of 19.15.17.13 NMAC, the operator employed the following steps to meet requirements for in-place burial of the waste material from the temporary pit:

1. The in-place burial location is in compliance with the siting criteria. This information was presented in the C-144 application submitted to the NMOCD on July 21, 2013 and approved on September 16, 2013. The plugging rig was released on December 12, 2013.
2. In February, low chloride concentration fluid was moved from the outer horseshoe to the inner horseshoe. At that time an intermittent pump was set to remove higher chloride concentration fluid from the drainage system installed in the bottom of the inner horseshoe during lining of the temporary pit. This fluid was moved to a frac tank adjacent to the temporary pit and later disposed of in an approved manner. This technique was employed to “rinse” the inner cuttings resulting in lower chloride concentrations.
3. Intermittent pumping continued between mid-February and mid-May. Large summer rainfall events resulted in additional water within the pits on several occasions. As such, fluids had to be removed on two separate occasions with some time allowance for the cuttings to dry.
4. On July 17, 2014, prior to the initiation of closure activities, composite samples from the inner and outer cells and clean soil from the berms of the pit below the liner were recovered from the pit. Samples were analyzed for Chloride, TPH, GRO, DRO, MRO, Benzene, and BTEX at Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The results, as noted in the subsequent closure notice (Attachment 5), demonstrate that the mathematically mixed pit contents would not exceed the parameter limits listed in Table II of the current Pit Rule (June 2013).
5. On September 11, 2014, R.T. Hicks Consultants submitted a C-144 form and closure plan to NMOCD under the June 2013 Pit Rule. NMOCD granted approval to proceed on September 12, 2014.
6. Hicks Consultants met with Price Construction to review closure procedures on October 2, 2014. As a note, numerous large rainfall events in southeastern New Mexico in August and September resulted in many delays for earth moving work. This situation persisted through the fall and winter of 2014 as contractors gradually caught up with scheduled work. By

## Closure Letter Attachment 5 Harris # 1

October 14, 2014 stabilization of the pit contents was achieved by mixing the pit contents with the dry soil beneath the liner of the pit. A paint filter test was performed by R.T. Hicks Consultants that confirmed that the process was complete and that the resultant floor of the excavation was at least 4 feet deep. Additional smoothing and shaping of the materials followed.

**Figure 1:** View to northwest and northeast of stabilized material on October 14, 2014. Surface of stabilized material is 4-feet below ground surface.



**Figure 2 :** Paint Filter Test at Harris #1, October 14, 2014.



7. On October 29, 2014, a 20 Mil. geomembrane liner was installed to completely cover the stabilized cuttings. The pit contents were shaped to shed infiltrating water from the center outward

**Figure 3:** *View to north and northeast of installed geomembrane liner. October 29, 2014*



### ***Soil Cover Activities***

8. Once the geomembrane cover was in place, 4 feet or more of non-waste containing, uncontaminated, earthen material and the reserved topsoil were replaced to their relative positions in accordance with Subsection (3) of Paragraph H of 19.15.17.13 NMAC. The soil cover consists of at least four feet of compacted, non-waste containing, earthen material. The uppermost topsoil of one foot is greater than or equal to the background thickness. It was necessary to import some topsoil to finish the soil cover.
9. The top soil surface was completed two days before our site visit of January 17, 2015. Final contours were blended with the surrounding topography to prevent erosion and ponding of surface water.

**Figure 4:** *View to north and east of completed top soil surface. January, 17, 2015.*



10. The site is to be reseeded in the spring of 2015 in accordance with the landowner's request to return the land to its previous use. Formerly, the site was part of an irrigated, agricultural field. As such, the landowner will specify application rates and schedules. It is expected that vegetative cover will attain 70% of pre-disturbance levels this growing season. If conditions or circumstances are such that the landowner elects not to plant this spring, the operator will inform the division of the delay in seeding. The operator will provide photo-documentation when successful re-vegetation is achieved.

## ***Attachment 6***

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District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
Revised June 6, 2013

**For temporary pits, below-grade tanks, and multi-well fluid management pits**, submit to the appropriate NMOC District Office.  
**For permanent pits** submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOC District Office.

Pit, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

Type of action: ☐ Below grade tank registration  
☐ Permit of a pit or proposed alternative method  
☒ Closure of a pit, below-grade tank, or proposed alternative method  
☐ Modification to an existing permit/or registration  
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

**Instructions: Please submit one application (Form C-144) per individual pit, 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: CML Exploration, LLC OGRID #: 256512  
Address: PO Box 890, Snyder, Texas 79550  
Facility or well name: Harris #1  
API Number: 30-025-41365 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr K Section 8 Township 10S Range 38E County: Lea  
Center of Proposed Design: Latitude 33.458087° N Longitude 103.074420° W NAD: ☒ 1927 ☐ 1983  
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2.  
☒ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC  
Temporary: ☒ Drilling ☐ Workover  
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☒ no  
☒ Lined ☐ Unlined Liner type: Thickness 20 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☒ String-Reinforced  
Liner Seams: ☒ Welded ☐ Factory ☐ Other \_\_\_\_\_ Volume: 19,666 bbl Dimensions: L 150 x W 155 x D 6-8 ft

3.  
☐ **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: Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

4.  
☐ **Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.  
**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*)  
☒ Four foot height, four strands of barbed wire evenly spaced between one and four feet  
☐ Alternate. Please specify \_\_\_\_\_

6.

**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)

7.

**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 19.15.16.8 NMAC

8.

**Variations 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:***

- ☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

**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. Siting criteria does not apply to drying pads or above-grade tanks.***

**General siting**

**Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.**

- ☒ NM Office of the State Engineer - iWATERS database search; ☒ USGS; ☒ Data obtained from nearby wells

☐ Yes ☒ No  
☐ NA

**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit .**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells **See Figures 1 & 2**

☐ Yes ☒ No  
☐ NA

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. **(Does not apply to below grade tanks) See Figure 5**

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☒ No

Within the area overlying a subsurface mine. **(Does not apply to below grade tanks) See Figure 7**

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☒ No

Within an unstable area. **(Does not apply to below grade tanks) See Figure 8**

- 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. **(Does not apply to below grade tanks) See Figure 9**

- FEMA map

☐ Yes ☒ No

**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a occupied 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 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet 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 search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

### **Temporary Pit Non-low chloride drilling fluid**

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). **See Figure 3**

- 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. **See Figure 4**

☐ Yes ☒ No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

**See Figures 1 & 2**

Within 300 feet of a wetland. **See Figure 6**

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

### **Permanent Pit or Multi-Well Fluid Management Pit**

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 1000 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 spring or a fresh water well used for domestic or stock watering purposes, 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 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

10.

**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 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 and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

11.

**Multi-Well Fluid Management Pit 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.

- ☐ 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
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ 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
- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12.

**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 (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  
☐ 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 H<sub>2</sub>S, 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

13.

**Proposed Closure:** 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 ☐ Multi-well Fluid Management Pit  
☐ 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 Burial  
☐ Alternative Closure Method

14.

**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 C 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 H of 19.15.17.13 NMAC  
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.

**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 require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

- |   |  |
|---|--|
| Ground water is less than 25 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).<br>- Topographic map; Visual inspection (certification) of the proposed site                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.<br>- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 feet of a wetland.<br>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 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

16.

**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 E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K 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 19.15.17.13 NMAC
- ☒ Waste Material Sampling Plan - based upon the appropriate requirements 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 H of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

**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): Jordan Owens

Title: Petroleum Engineer

Signature: 

Date: February 25, 2015

e-mail address: owensj@cmlexp.com

Telephone: (325) 573-0750

18.

**OCD Approval:** ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

**OCD Representative Signature:** \_\_\_\_\_ **Approval Date:** \_\_\_\_\_

**Title:** \_\_\_\_\_ **OCD Permit Number:** \_\_\_\_\_

19.

**Closure Report (required within 60 days of closure completion):** 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: \_\_\_\_\_

20.

**Closure Method:**

- ☐ Waste Excavation and Removal ☒ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
- ☐ If different from approved plan, please explain.

21.

**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 for private land only)
- ☒ 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 33.458487 Longitude -103.075197 (WGS 84 co-ordinates) NAD: ☐ 1927 ☐ 1983

**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): Jordan Owens Title: Petroleum Engineer

Signature:  Date: February 25, 2015

e-mail address: owensj@cmlexp.com Telephone: (325) 573-0750