

R. T. HICKS CONSULTANTS, LTD.

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

August 12, 2015

Ms. Kellie Jones
NMOCD District 1
1625 French Drive
Hobbs, NM 88240
Via E-Mail and US Mail

RECEIVED

By OCD District 1 at 2:55 pm, Aug 27, 2015

RE: Temporary Pit Closure Report
Caravan "BVW" State No. 9H API #30-025-41641
Unit C, Section 33, T24S, R33E, Lea County

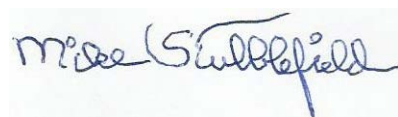
Dear Ms. Jones:

On behalf of Yates Petroleum Corporation, R.T. Hicks Consultants submits this closure report for the above-referenced temporary pit in accordance with the approved C-144 closure plan. This report includes the following information listed in Part 21 of the C-144 form:

Requirements	Location in this Submission
Proof of Closure Notice (to surface owner and Division)	Attachment 1
Proof of Deed Notice (on-site closure on private land only)	Not applicable; State Land (no deed)
Plot Plan, C-105 form (for on-site closures and temporary pits)	Attachment 2
Confirmation Sampling Analytical Results	Not applicable.
Waste Material Sampling Analytical Results (required for on-site closure)	Attachment 3
Disposal Facility Name and Permit Number	Not applicable; on-site closure
Soil Backfilling and Cover Installation	Attachment 4
Re-vegetation Application Rates and Seeding Technique	Attachment 5
Site Reclamation (photo documentation)	To follow
Updated C-144 form	Attachment 6

R.T. Hicks Consultants will notify NMOCD and provide photo-documentation when re-vegetation obligations described in subsection H of 19.15.17.13 NMAC are met.

Sincerely,
R.T. Hicks Consultants



Mike Stubblefield
Project Manager

R. T. HICKS CONSULTANTS, LTD.

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

April 24, 2015

Dr. Tomas Oberding
NMOCD District 1
1625 French Drive
Hobbs, New Mexico 88240
VIA EMAIL

RE: Caravan BVW State #9H/Caravan BVV State 6H Temporary Pit,
In-place Burial Notice
Unit C, Section 33, T24S, R33E, API #30-025-41641
Unit C, Section 33, T24S, R33E, API #30-025-41610

Dr. Oberding:

On behalf of Yates Petroleum Corporation, R. T. Hicks Consultants is provides this notice to NMOCD with a copy to the State Land Office (e-mail, return e-mail receipt) that closure operations at the above- referenced pit will **begin on April 28, 2015**. The closure process should require about two weeks, depending on the availability of machinery. The rig was **released on November 23, 2014**.

After hydraulic fracturing and flow-back were completed, 4-point composite samples were collected from the inner horseshoe cell, outer horseshoe cell, and from the clean soil of the berms (beneath the liner) of the pit on **March 4, 2015** for laboratory analyses. The table below calculates the concentration for "3:1 stabilized" material to allow comparison with Table II the Pit Rule (Closure Criteria for Burial Trenches and Waste Left in Place in Temporary Pits). The formula use in the table below is:

3:1 Stabilized Solids = $\frac{((\text{Outer Composite} \times 0.66) + (0.34 \times \text{Inner Composite}) + (\text{Mixing Dirt} \times 3))}{4}$

4

Well Name	Sample Name	Sample Type	Sample Date	Chloride 80,000	Benzene 10	BTEX 50	GRO+DRO 1000	TPH 418.1 2500	GRO+DRO+ DROext	GRO	DRO	MRO	T	E	X	Lab	Report
Caravan 9H Pit	Outer Composite		3/4/2015	12000	1.3	16	1960		4260	260	2200	1800	12	3.5	16	Hall	1
Caravan 9H Pit	Inner Composite		3/4/2015	140000	0	0.48	17		17	17	0	0	0.2	0.1	0.48	Hall	2
Caravan 9H Pit	Mixing Dirt Comp.		3/4/2015	51	0	0	0		0	0	0	0	0	0	0	Hall	2
Caravan 9H Pit	3:1 Stabilized	CALCULATED		38012.00	0.11	1.40	164.51	0.00	354.26								

Hall Environmental Analysis Laboratory, Inc.
CLIENT: R.T. Hicks Consultants, LTD
Project: Caravan St. Unit #9H pit
Lab ID: 1503293-001
Matrix: SOIL
Client Sample ID: 5 pt
Collection Date: 3/4/2015 12:10:00 PM
Received Date: 3/6/2015 10:45:00 AM
Analytical Report
Lab Order: 1503293
Date Reported: 3/17/2015

Hall Environmental Analysis Laboratory, Inc.
CLIENT: R.T. Hicks Consultants, LTD
Project: Caravan St. Unit #9H pit
Lab ID: 1503293-002
Matrix: SOIL
Client Sample ID: 5 pt
Collection Date: 3/4/2015 12:10:00 PM
Received Date: 3/6/2015 10:45:00 AM
Analytical Report
Lab Order: 1503293
Date Reported: 3/17/2015

Hall Environmental Analysis Laboratory, Inc.
CLIENT: R.T. Hicks Consultants, LTD
Project: Caravan St. Unit #9H pit
Lab ID: 1503293-003
Matrix: SOIL
Client Sample ID: 5 pt
Collection Date: 3/4/2015 12:10:00 PM
Received Date: 3/6/2015 10:45:00 AM
Analytical Report
Lab Order: 1503293
Date Reported: 3/17/2015

Analytes	Result	RL	Qual	Unit	DF	Date Analyzed	Batch	Analyt
EPA METHOD 8016D: DIESEL RANGE ORGANICS								JME
Diesel Range Organics (DRO)	2200	110		mg/kg	ND	3/11/2015 10:58:11 PM	18038	
Motor Oil Range Organics (MRO)	1800	530		mg/kg	ND	3/11/2015 10:58:11 PM	18038	
Sum: DNOP	0	63.5-128	S	%REC	103	3/11/2015 10:58:11 PM	18038	
EPA METHOD 8016D: GASOLINE RANGE								NSB
Gasoline Range Organics (GRO)	280	5.0		mg/kg	ND	3/11/2015 1:30:58 PM	18043	
Sum: BFB	430	85-120	S	%REC	85.8	3/11/2015 1:30:58 PM	18043	
EPA METHOD 8021B: VOLATILES								NSB
Benzene	1.3	0.050		mg/kg	ND	3/11/2015 1:30:58 PM	18043	
Toluene	12	0.30		mg/kg	ND	3/11/2015 1:30:58 PM	18043	
Ethylbenzene	3.5	0.050		mg/kg	ND	3/11/2015 1:30:58 PM	18043	
Xylenes, Total	18	1.0		mg/kg	ND	3/11/2015 1:30:58 PM	18043	
Sum: 4-Bromofluorobenzene	188	85-120	S	%REC	109	3/11/2015 1:30:58 PM	18043	
EPA METHOD 300.0: ANIONS								LOT
Chloride	12000	750		mg/kg	51	3/11/2015 12:32:27 PM	18083	

April 24, 2015

Page 2

The inner composite and outer composite ratio in the formula approximates the solids volume generated during drilling. The solids placed in the outer shoe are derived from drilling the surface casing string and production string. The inner shoe contains solids from drilling intermediate casing string.

Laboratory analyses of the component samples (attached) and the calculation of stabilized cuttings "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 listed in Table II of 19.15.17.13 NMAC."

On December 31, 2014, Hicks Consultants submitted a variance request to your office proposing replacement of certified US Mail notification to the State Land Office with e-mail notification plus a "read request". This variance applies only to the notice of on-site closure of temporary pits on State surface. This same variance request is attached to this letter for the above-referenced temporary pit on State surface.

I will follow up this notice with a phone call to determine if email notification to the SLO may be employed in lieu of US Mail notification. I will also call you the day before closure begins.

Sincerely,
R.T. Hicks Consultants

A handwritten signature in blue ink that reads "Mike Stubblefield". The signature is written in a cursive style with a large, stylized "M" and "S".

Mike Stubblefield
Project Manager

Copy: Yates Petroleum Corporation
Ed Martin
New Mexico State Land Office
PO Box 1148
Santa Fe, NM 87504-1148
E-mail read receipt requested

R. T. HICKS CONSULTANTS, LTD.

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

December 16, 2014

Dr. Tomáš J. Oberding
NMOCD District 1
1625 French Drive
Hobbs, New Mexico 88240
VIA EMAIL

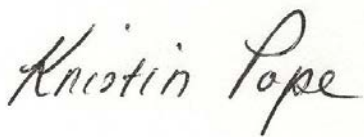
RE: Variance Request
Murchison Oil and Gas, Inc., Jackson Unit #17H temporary pit
API# 30-025-41087, Pit Permit #P1-05981

Dear Dr. Oberding:

The "In-place Burial" closure plan for the above referenced pit was submitted with the C-144 pit application on January 6, 2014 and approved on January 16, 2014. The rig was released from this well on April 14, 2014. Following the well completion of the Jackson Unit #17H well, NMOCD granted a variance to allow cuttings from a nearby well on a different lease, Brininstool 4 St. #4H, to be deposited into the #17H pit during the closed loop drilling. The last cuttings were deposited into the pit in September 2014. NMOCD recently approved a 3-month extension, created a new closure deadline of January 14, 2015.

Hicks Consultants requests a variance to allow TPH by Method 8015M (GRO+DRO+MRO) to substitute for the required method of TPH by 418.1 (2,500 mg/kg) when determining compliance with Table II Standards for in-place closure.

R.T. Hicks Consultants



Kristin Pope
Project Geologist

Enclosure: Variance Request

Copy: Murchison Oil and Gas, Inc.

New Mexico State Land Office, Ed Martin
PO Box 1148
Santa Fe, NM 87504-1148

Statement Explaining Why the Applicant Seeks a Variance

The prescriptive mandates of the Rule that are the subject of this variance request are the following subsections of 19.15.17.13.D:

(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 listed in Table II of 19.15.17.13 NMAC.

Table II Closure Criteria for Burial Trenches and Waste Left in Place in Temporary Pits			
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
25-50 feet	Chloride	EPA Method 300.0	20,000 mg/kg
	TPH	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B	10 mg/kg

<http://www.nmcpr.state.nm.us/nmac/parts/title19/19.015.0017.htm>[7/3/2013 10:50:10 AM]

19.15.17 NMAC

51-100 feet	Chloride	or 8015M EPA Method 300.0	40,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
> 100 feet	Chloride	EPA Method 300.0	80,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

*Or other test methods approved by the division

**Numerical limits or natural background level, whichever is greater

[19.15.17.13 NMAC - R.p. 19.15.17.13 NMAC, 6/28/13]

On October 28, 2014 composite samples were recovered from the Jackson Unit #17H pit, one from the inner and one from the outer cells, as well as a composite sample of available mixing dirt from the berms of the pit below the liner. These three composites were submitted for individual analyses for parameters listed in Table II of 19.15.17.13 NMAC. As approved previously by OCD, an accurate demonstration 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 listed in Table II of 19.15.17.13 NMAC” may be derived by mathematically mixing the laboratory results. First, we calculated “pit composite” concentration based on the volume of cuttings of each cell (3.5 parts outer, 1 part inner cell) and the individual laboratory results. Next we mathematically mixed the composite pit concentration with the mixing dirt concentrations at a ratio of 3 parts mixing dirt to 1 part pit contents. When compared to Table II closure criteria, TPH (418.1) target concentrations were not met, as shown in the table below. TPH (418.1) is approximately 17% over the Pit Rule standard while TPH by 8015 (GRO+DRO+MRO) is 29% of the 2,500-mg/kg limit. All other constituents meet the in-place burial limits of the Rule.

Jackson Unit #17H 3:1 STABILIZED CUTTINGS CALCULATIONS		
Constituent	Table II Limit (GW>100')	10/28/2014 Samples*
Chloride	80,000 mg/kg	7302
TPH	2,500 mg/kg	2927
GRO+DRO	1,000 mg/kg	612
BTEX	50 mg/kg	3.15
Benzene	10 mg/kg	0.25
GRO+DRO+MRO		735

*Concentrations of stabilized cuttings determined using component concentrations inserted into the follow formula:

$$3:1 \text{ Stabilized Cuttings} = \frac{[\text{inner pit cell} + (3.5 * \text{outer pit cell}) / 4.5] + (\text{mixing dirt} * 3)}{4}$$

EPA Method 418.1 measures carbon-hydrogen bonds (hydrocarbons) and is not specific to petroleum-based material. Several analytical laboratories have informed us that many non-petroleum organic additives used during drilling (e.g. cellulose, pine pulp, vegetable oils, cottonseed hulls, nut shells) will be captured by the 418.1 analytical method. Method 418.1 can also capture other naturally-occurring material in a sample such as dry grass and humic material in topsoil. For example, TPH concentrations of grass (14,000 mg/kg), pine needles (16,000 mg/kg), and oak leaves (18,000 mg/kg) ¹ would not meet the Table II concentration limits and the Commission did not intend that the in-place burial limit for TPH include hydrocarbons associated with leaves or pine pulp.

We conclude that TPH by 418.1 captures a broader spectrum of hydrocarbons than was envisioned by the Commission when evaluating the burial standards for drilling solids. In contrast, TPH by 8015M (GRO+DRO+MRO) appears to better reflect the intent of the Commission as reflected in the Findings of Fact, which state (emphasis added):

P. The Commission finds that constituents reflected in Tables I and II (other than chloride), benzene, and toluene, ethylbenzene and xylene (a compound commonly referred to as BTEX), as well as the *gasoline range organics* (“GRO”) and *diesel range organics* (“DRO”), which are compounds in the total petroleum hydrocarbons (“TPH”), are light aromatics. While they are soluble and are able to travel to groundwater, they are slower than chlorides in unsaturated flow, which is why chlorides are used as the outer boundary marker for contaminants. Moreover, the light aromatics are volatile, particularly benzene, which is highly volatile. The resident time for light aromatics is very short, and they will evaporate quickly and degrade in the soil. This is

¹ “Frequently Asked Questions About TPH Analytical Methods for Crude Oil” see http://www.api.org/environment-health-and-safety/environmental-performance/~/_/media/cd8032db1be74914a6b3c816bab33786.ashx

particularly true during closure and mixing. The benzene level that is reflected in Tables I and II, is lower than the levels recommended by the American Petroleum Institute, and GRO and DRO, while they could affect the odor and taste of water, are not a matter of concern with respect to toxicity. *The other compounds in TPH, the oil range organics and asphaltenes, are made up of large molecules and are not sufficiently mobile to pose a concern for human health or fresh water.*

Demonstration that the Variance Will Provide Equal or Better Protection of Fresh Water, Public Health and the Environment

The modified Method 8015 uses solvent extraction followed by gas chromatography and is more widely used in the regulation of the petroleum industry than the 418.1. The evaluation of TPH using method 8015M (GRO+DRO+MRO) provide a more accurate representation of the *petroleum* hydrocarbons without interference from organic, biodegradable, drilling additives such as vegetable/pine oils, cottonseed hulls, and nuts shells, which we believe are not intended for regulation. Our analyses of drilling pit solids demonstrates how “total” TPH results from 418.1 do not contribute to the protection of fresh water relative to SPLP (synthetic precipitation leaching procedure) TPH analysis by 418.1 with respect to the potential of the hydrocarbon to migrate into the underlying groundwater via leaching or into the root zone via wicking upward.

Reviewing the analyses of seven sample sets from five Murchison pits in 2014, the percentage of TPH by SPLP relative to “total” TPH ranges from 0% to 1.42%. This is likely because nearly all of the TPH in the stabilized cutting samples at this site are from the insoluble (or nearly insoluble) matter. The TPH analysis using the SPLP sample preparation method provides a better understanding of the actual risks to human health and the environment than the “total” TPH analysis, but currently there are no regulatory standard concentrations established for samples prepared by SPLP.

GRO+DRO+MRO analysis by 8015M offers greater characterization of leacheability by reporting actual petroleum hydrocarbon concentrations by their known chromatograph fingerprints. TPH using Method 418.1 is not the best indicator for risk to human health or the environment and we do not believe it was the intent of the Pit Rule to preclude in-place closure of a temporary pit due to non-petroleum organic matter, either naturally-occurring or in drilling additives. We believe that the approval of a variance allowing the use of TPH by method 8015M (GRO+DRO+MRO) in place of TPH by method 418.1 for comparison to the existing TPH standard (2,500 mg/kg) will provide equal or better protection of fresh water, public health, and the environment.



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

March 17, 2015

Mike Stubblefield

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: Caravan St. Unit #9H pit

OrderNo.: 1503293

Dear Mike Stubblefield:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/6/2015 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 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 1503293

Date Reported: 3/17/2015

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 4pt Outer Comp

Project: Caravan St. Unit #9H pit

Collection Date: 3/4/2015 11:45:00 AM

Lab ID: 1503293-001

Matrix: SOIL

Received Date: 3/6/2015 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analyst: JME		
Diesel Range Organics (DRO)	2200	110		mg/Kg	10	3/10/2015 10:15:20 PM	18038
Motor Oil Range Organics (MRO)	1800	530		mg/Kg	10	3/10/2015 10:15:20 PM	18038
Surr: DNOP	0	63.5-128	S	%REC	10	3/10/2015 10:15:20 PM	18038
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB		
Gasoline Range Organics (GRO)	260	5.0		mg/Kg	1	3/11/2015 12:33:30 PM	18043
Surr: BFB	432	80-120	S	%REC	1	3/11/2015 12:33:30 PM	18043
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	1.3	0.050		mg/Kg	1	3/11/2015 12:33:30 PM	18043
Toluene	12	0.50		mg/Kg	10	3/12/2015 2:54:27 AM	18043
Ethylbenzene	3.5	0.050		mg/Kg	1	3/11/2015 12:33:30 PM	18043
Xylenes, Total	16	1.0		mg/Kg	10	3/12/2015 2:54:27 AM	18043
Surr: 4-Bromofluorobenzene	188	80-120	S	%REC	1	3/11/2015 12:33:30 PM	18043
EPA METHOD 300.0: ANIONS					Analyst: LGT		
Chloride	12000	750		mg/Kg	500	3/11/2015 12:44:44 PM	18083

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

Qualifiers:	*	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 Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1503293

Date Reported: 3/17/2015

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: 4pt Inner Comp

Project: Caravan St. Unit #9H pit

Collection Date: 3/4/2015 12:10:00 PM

Lab ID: 1503293-002

Matrix: SOIL

Received Date: 3/6/2015 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/10/2015 10:36:51 PM	18038
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/10/2015 10:36:51 PM	18038
Surr: DNOP	104	63.5-128		%REC	1	3/10/2015 10:36:51 PM	18038
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	17	5.0		mg/Kg	1	3/11/2015 1:02:14 PM	18043
Surr: BFB	127	80-120	S	%REC	1	3/11/2015 1:02:14 PM	18043
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	3/11/2015 1:02:14 PM	18043
Toluene	0.20	0.050		mg/Kg	1	3/11/2015 1:02:14 PM	18043
Ethylbenzene	0.14	0.050		mg/Kg	1	3/11/2015 1:02:14 PM	18043
Xylenes, Total	0.48	0.10		mg/Kg	1	3/11/2015 1:02:14 PM	18043
Surr: 4-Bromofluorobenzene	120	80-120		%REC	1	3/11/2015 1:02:14 PM	18043
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	140000	7500		mg/Kg	5E	3/16/2015 12:32:27 PM	18083

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

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 Not In Range
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1503293**Date Reported: **3/17/2015****CLIENT:** R.T. Hicks Consultants, LTD**Client Sample ID:** 5 pt Mixing Dirt**Project:** Caravan St. Unit #9H pit**Collection Date:** 3/4/2015 12:15:00 PM**Lab ID:** 1503293-003**Matrix:** SOIL**Received Date:** 3/6/2015 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS				Analyst: JME			
Diesel Range Organics (DRO)	ND	11		mg/Kg	1	3/10/2015 10:58:11 PM	18038
Motor Oil Range Organics (MRO)	ND	54		mg/Kg	1	3/10/2015 10:58:11 PM	18038
Surr: DNOP	103	63.5-128		%REC	1	3/10/2015 10:58:11 PM	18038
EPA METHOD 8015D: GASOLINE RANGE				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2015 1:30:58 PM	18043
Surr: BFB	93.6	80-120		%REC	1	3/11/2015 1:30:58 PM	18043
EPA METHOD 8021B: VOLATILES				Analyst: NSB			
Benzene	ND	0.050		mg/Kg	1	3/11/2015 1:30:58 PM	18043
Toluene	ND	0.050		mg/Kg	1	3/11/2015 1:30:58 PM	18043
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2015 1:30:58 PM	18043
Xylenes, Total	ND	0.099		mg/Kg	1	3/11/2015 1:30:58 PM	18043
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	3/11/2015 1:30:58 PM	18043
EPA METHOD 300.0: ANIONS				Analyst: LGT			
Chloride	51	30		mg/Kg	20	3/11/2015 1:21:58 PM	18083

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

Qualifiers:	*	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 Not In Range
	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#: 1503293

17-Mar-15

Client: R.T. Hicks Consultants, LTD

Project: Caravan St. Unit #9H pit

Sample ID	MB-18083		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	18083		RunNo:	24785				
Prep Date:	3/11/2015		Analysis Date:	3/11/2015		SeqNo:	730064		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-18083		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 18083		RunNo: 24785					
Prep Date:	3/11/2015		Analysis Date: 3/11/2015		SeqNo: 730065		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	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 Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503293

17-Mar-15

Client: R.T. Hicks Consultants, LTD

Project: Caravan St. Unit #9H pit

Sample ID	MB-18038		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 18038		RunNo: 24711					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728323		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	8.4		10.00		84.2	63.5	128			

Sample ID	LCS-18038		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 18038		RunNo: 24711					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728325		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.9	67.8	130			
Surr: DNOP	4.5		5.000		89.3	63.5	128			

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 Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503293

17-Mar-15

Client: R.T. Hicks Consultants, LTD

Project: Caravan St. Unit #9H pit

Sample ID	MB-18044		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 18044		RunNo: 24730					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728732		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		89.5	80	120			

Sample ID	LCS-18044		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 18044		RunNo: 24730					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728733		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	80	120			

Sample ID	MB-18043		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	18043		RunNo:	24730				
Prep Date:	3/9/2015		Analysis Date:	3/10/2015		SeqNo:	728754		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	910		1000		90.8	80	120				

Sample ID	LCS-18043		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 18043		RunNo: 24730					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728755		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	64	130			
Surr: BFB	980		1000		97.5	80	120			

Sample ID	LCSD-18043		SampType: LCSD		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS02		Batch ID: 18043		RunNo: 24730					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728756		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990							0	0	

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 Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503293

17-Mar-15

Client: R.T. Hicks Consultants, LTD

Project: Caravan St. Unit #9H pit

Sample ID	MB-18044		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 18044		RunNo: 24730					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728766		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	LCS-18044		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	LCSS		Batch ID:	18044		RunNo:	24730				
Prep Date:	3/9/2015		Analysis Date:	3/10/2015		SeqNo:	728767		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120				

Sample ID	MB-18043		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 18043		RunNo: 24730					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728781		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-18043		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 18043		RunNo: 24730					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728782		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	111	76.6	128			
Toluene	1.1	0.050	1.000	0	109	75	124			
Ethylbenzene	1.1	0.050	1.000	0	109	79.5	126			
Xylenes, Total	3.2	0.10	3.000	0	108	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID	LCSD-18043		SampType: LCSD		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS02		Batch ID: 18043		RunNo: 24730					
Prep Date:	3/9/2015		Analysis Date: 3/10/2015		SeqNo: 728783		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	76.6	128	3.68	20	
Toluene	1.1	0.050	1.000	0	105	75	124	3.09	20	
Ethylbenzene	1.1	0.050	1.000	0	107	79.5	126	2.53	20	
Xylenes, Total	3.2	0.10	3.000	0	106	78.8	124	1.71	20	

Qualifiers:

- | | |
|---|--|
| * 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 Not In Range |
| 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#: 1503293

17-Mar-15

Client: R.T. Hicks Consultants, LTD

Project: Caravan St. Unit #9H pit

Sample ID	LCSD-18043	SampType:	LCSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS02	Batch ID:	18043	RunNo:	24730					
Prep Date:	3/9/2015	Analysis Date:	3/10/2015	SeqNo:	728783	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120	0		

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 Not In Range
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: RT HICKS

Work Order Number: 1503293

RcptNo: 1

Received by/date: AT 03/06/15

Logged By: Anne Thorne

3/6/2015 10:45:00 AM

Anne Thorne

Completed By: Anne Thorne

3/9/2015

Anne Thorne

Reviewed By:

[Signature]

03/10/15

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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	1.2	Good	Not Present			

From: [Oberding, Tomas, EMNRD](#)
To: mike@rthicksconsult.com
Cc: "Tim Bussell"; "Randall Hicks"
Subject: RE: Yates Petroleum Corporation Caravan BVW State No.9H Notice for Closure Letter
Date: Friday, April 24, 2015 12:30:28 PM
Attachments: [image001.png](#)

Aloha all,

Thank you Mr. Stubblefield for the notice of closure. Based on the numbers provided OCD appreciates the notice and looks forward to completing this site.

Have a safe and wonderful afternoon all.

-Doc

Tomáš 'Doc' Oberding PhD

Hydrologist, Adv-District 1

Oil Conservation Division, EMNRD

(505) 476-3403

575-370-3180 (emergency-cell)

E-Mail: tomas.oberding@state.nm.us

一期一会

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Please note:

-The OCD is no longer granting "risk-based," or standard closure of events/RPs with remediation deferred to site abandonment/sale/closure. The RP will remain open until such time as historic contamination is addressed.

-Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

From: Mike Stubblefield [<mailto:mike@rthicksconsult.com>]
Sent: Friday, April 24, 2015 9:58 AM
To: Oberding, Tomas, EMNRD
Cc: 'Tim Bussell'; 'Randall Hicks'
Subject: Yates Petroleum Corporation Caravan BVW State No.9H Notice for Closure Letter

Dear Dr. Tomas Oberding,

Acting as agent for Yates Petroleum Corporation, R.T. Hicks Consultants is submitting the Notice for Closure on Caravan BVW State No. 9H drilling pit. I will contact you by phone this afternoon.

Sincerely,



From: [Martin, Ed](#)
To: mike@rthicksconsult.com
Cc: "Tim Bussell"; "Randall Hicks"
Subject: RE: Yates Petroleum Corporation Notice For Closure on Caravan BVW State No.9H
Date: Monday, April 27, 2015 7:35:25 AM
Attachments: [image001.png](#)

Hey Mike. Long time no see. Receipt of your notice acknowledged.

Take care.

Ed Martin
New Mexico State Land Office
Oil & Gas Manager
Oil, Gas, and Minerals Division
Phone: 505-827-5746
Fax: 505-827-4739

From: Mike Stubblefield [mailto:mike@rthicksconsult.com]
Sent: Friday, April 24, 2015 10:04 AM
To: Martin, Ed
Cc: 'Tim Bussell'; 'Randall Hicks'
Subject: Yates Petroleum Corporation Notice For Closure on Caravan BVW State No.9H

Dear Mr. Ed Martin,

Acting as agent for Yates Petroleum Corporation R.T. Hicks Consultants is submitting the Notice for Closure on Caravan BVW State No. 9H drilling pit. Please provide return e-mail as received.

Sincerely,



Mike Stubblefield
RT Hicks Consultants
Cell: 575-365-5034

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>

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		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised August 1, 2011 1. WELL API NO. 30-025-41641 2. Type of Lease X STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN 3. State Oil & Gas Lease No. VO-7363				
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: <input type="checkbox"/> COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) <input checked="" type="checkbox"/> C-144 CLOSURE ATTACHMENT (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 Caravan "BVW" State 6. Well Number: 9H				
7. Type of Completion: X NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER _____										
8. Name of Operator Yates Petroleum Corporation						9. OGRID 025575				
10. Address of Operator 105 South Fourth Street Artesia, New Mexico						11. Pool name or Wildcat Triple X Bone Spring, West				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	33	24S	33E		50'	N	1950'	W	Lea
BH:										
13. Date Spudded 10/18/14	14. Date T.D. Reached 11/23/14	15. Date Rig Released 11/23/14			16. Date Completed (Ready to Produce) 2/19/15			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										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
24. LINER RECORD						25. TUBING RECORD				
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.					
					DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
28. PRODUCTION										
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>)				
								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.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial: Latitude <u>32° 10' 54.63" N</u> Longitude <u>103° 34' 46.15" W</u> NAD 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 Date 8/12/15		Printed Name Mike Stubblefield				Title Agent for YPC				
E-mail Address mike@rthicksconsult.com										

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

From	To	Thickness In Feet	Lithology



32°10'54.63"N 103°34'46.15"W Middle of Drilling pit.

32.18122-103.57951

Caravan BVW State No.9H

269 ft

Google earth

Imagery Date: 2/13/2014 32°10'53.20" N 103°34'46.17" W elev 3482 ft eye alt 4681 ft

Waste Material Sampling Analytical Results



On March 4, 2015, eight-point composite samples were collected from the temporary pit. Clean mixing soil was collected from under the liner. The composite samples was submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for BTEX (8260B), GRO/ GRO (8015M), and Chloride (SM4500) analyses.

The table below depicts the samples collected from the cuttings in this pit and their concentrations of the parameters listed in Table II of 19.15.17.13 NMAC (June 2013 Pit Rule). These analyses demonstrate that this site meets the criteria for in-place closure.

Well Name	Sample Name	Sample Type	Sample Date	Chloride 80,000	Benzene 10	BTEX 50	GRO+DRO 1000	TPH 418.1 2500	GRO+DRO+ DROext	GRO	DRO	MRO	T	E	X	Lab	Report
Caravan 9H Pit	Outer Composite		3/4/2015	12000	1.3	16	1960		4260	260	2200	1800	12	3.5	16	Hall	1
Caravan 9H Pit	Inner Composite		3/4/2015	140000	0	0.48	17		17	17	0	0	0.2	0.1	0.48	Hall	2
Caravan 9H Pit	Mixing Dirt Comp.		3/4/2015	51	0	0	0		0	0	0	0	0	0	0	Hall	2
Caravan 9H Pit	3:1 Stabilized	CALCULATED		38012.00	0.11	1.40	164.51	0.00	354.26								

SOIL BACKFILLING & COVER INSTALLATION

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

1. The on-site burial location and its depth is in compliance with the siting criteria presented in the C-144 application and the Pit Rule under which it was submitted to the NMOCD on June 26, 2014 and approved on June 30, 2014. After the workover rig was released on February 19, 2015, fluid contents in the pit were removed to be recycled for the drilling of other wells while the cuttings were allowed to dry.
2. On March 4, 2015, 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, demonstrate that the mathematic mixed pit contents would not exceed the parameter limits listed in Table II of the new Pit Rule (June 2013).
3. On June 26, 2014, R.T. Hicks Consultants submitted a C-144 form and closure plan to NMOCD for approval to close the pit under the June 2013 Pit Rule. NMOCD granted approval on June 30, 2014, a closure notice was submitted on April 24, 2015 to the NMOCD, District 1 office in Hobbs and to Ed Martin at the State of New Mexico Land office on the same day. Verbal notice in the form of a phone call to NMOCD followed on April 24, 2015. Dr. Tomas Oberding granted approval by email on the closure notice to Mike Stubblefield on April 24, 2015.
4. On April 28, 2015, closure activities commenced and stabilization of the pit contents was achieved by mixing the pit contents with the dry soil beneath the liner of the pit. Stabilization continued until June 10, 2015 when 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.
5. Following the June 10, 2015 inspection, having achieved all applicable stabilization requirements associated with in-place burial, a 20 Mil. geomembrane liner was installed to completely cover the stabilized cuttings on June 10, 2015. The pit contents and liner were shaped to shed infiltrating water, sloping from west to east.

Closure Letter Attachment 4
Yates Petroleum Corporation – Caravan “BVW” State 9H API
#30-025-41641

6. 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 is equal to the background thickness at least one foot.
7. The surface was contoured to blend with the surrounding topography and to prevent erosion and the ponding of water over the on-site closure. This work was completed on June 23, 2015.

RE-VEGETATION PROCEDURES

There were no roads or surface drainage features nearby that required restoration or preservation.

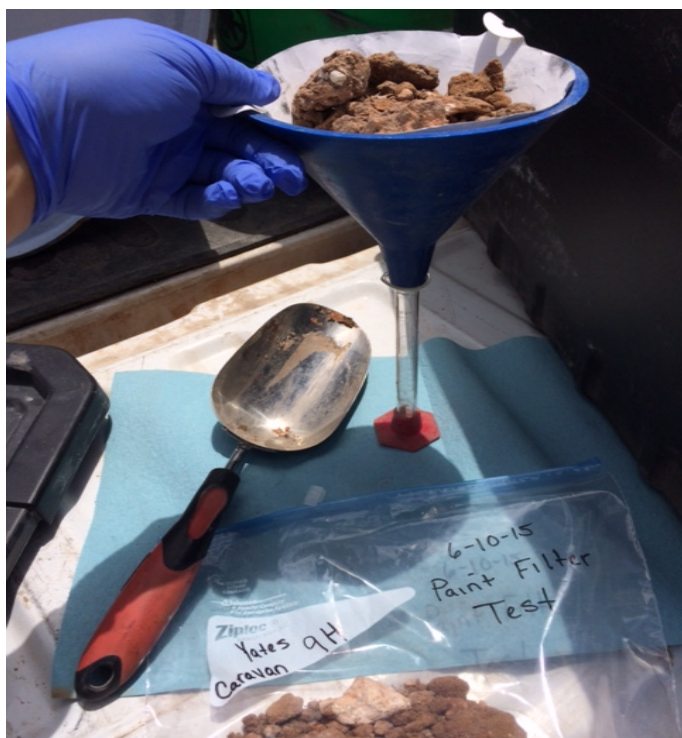
1. In September when the ambient ground temperature are more favorable to support new vegetation, YPC Environmental Department will seed the topsoil on the on-site burial and interim reclamation areas using a seed drill pulled by a tractor that prepared the seedbed in the same pass using discs. The seed furrows will be oriented perpendicular to the prevailing western wind to minimize erosion.
2. Approximately 70 pounds of a seed mixture consisting of BLM #2 seed will be applied in accordance with the supplier's instructions to approximately 1 acre of the former temporary pit area. Species constituents of BLM #2 blend are listed below and are appropriate for the soil type and conditions at this site. Note that Plains Bristlegrass, a majority component of the BLM #2 assortment, was unavailable so appropriate substitute species approved by the BLM were used.

BLM #2

Sideoats Grama
Little Bluestem
Sand Dropseed
Indian Ricegrass
Plains Coreopsis

3. The seeded area will be monitored for growth and the operator will repeat seeding until a successful vegetative cover is achieved as outlined in Subsection (5) of Paragraph H of 19.15.17.13 NMAC.
4. If conditions are not favorable for the establishment of vegetation, such as periods of drought, the operator may request that the division allow a delay in additional seeding until soil moisture conditions become favorable. The operator will notify the division and provide photo-documentation when it successful re-vegetation is achieved.

Labels on seed sacks describing composition species



Paint Filter Test on 6/10/15.



Capping liner photo on 6/10/15

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

S

☐ 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: Yates Petroleum Corporation OGRID #: 025575
Address: 105 South 4th Street, Artesia, New Mexico 88210
Facility or well name: Caravan "BVW" State No.9H
API Number: 30-025-41641 OCD Permit Number: P1-06550
U/L or Qtr/Qtr C Section 33 Township T24S Range R33E County: Eddy
Center of Proposed Design: Latitude 50' FNL Longitude 1950' FWL NAD: ☐ 1927 X 1983
Surface Owner: ☐ Federal X State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
X **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: X Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
X Lined ☐ Unlined Liner type: Thickness 20 mil X LLDPE ☐ HDPE ☐ PVC ☐ Other _____ X ☐
String-Reinforced
Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 67,367 bbl Dimensions: L255' x W 235' x D 6'-10'

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.

Variances 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

☐ 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)**

- 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)**

- 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)**

- 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)**

- 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).

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

☐ Yes ☒ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☒ No

Within 500 horizontal feet of a 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

Within 300 feet of a wetland.

- 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 H₂S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

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.
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> 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 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<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).
- 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.
- 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.
- 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.
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): Mike Stubblefield Title: Agent for Yates Petroleum Corporation

Signature:  Date: 8/12/2015

e-mail address: mike@rthicksconsult.com Telephone: 575-365-5034

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)

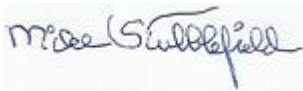
On-site Closure Location: Latitude N 32° 10' 54.61" Longitude W 103° 34' 46.12" NAD: ☐ 1927 ☒ 1983

22.

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): Mike Stubblefield Title: Project Manager/R.T. Hicks Consultants, LTD

Signature: 

Date August 12, 2015

e-mail address: mike@rthicksconsult.com Telephone: 575-365-5034