

R. T. HICKS CONSULTANTS, LTD.

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

January 31, 2014

Mr. Geoffrey Leking
NMOCD District 1
1625 French Drive
Hobbs, New Mexico 88240
Via E-Mail and Mail

HOBBS OCD

FEB 03 2014

RECEIVED

RE: Caza Operating, Caza Ridge "14" State 4H, API: 30-025-40936, Unit P Section 14, T23S, R34E, Lea County, Temporary Pit Closure Report

Dear Geoffrey:

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 21 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)	State Land (no deed)
Plot Plan (for on-site closures and temporary pits)	C-105 and 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
Soil Backfilling and Cover Installation	Attachment 4
Re-vegetation Application and Seeding Technique	Attachment 5
Updated C-144 form	Attachment 6
Site Reclamation (Photo Documentation)	To follow later

On Site Closure Location (center of on-site burial area):

Latitude: N 32.298570° Longitude: W -103.434607° (NAD27)

We understand that OCD cannot formally release the site under the current Rule until we document re-vegetation. As shown above, please expect documentation of burial marker and re-vegetation when it is established in accordance with subsections F and H of 19.15.17.13 NMAC.

Sincerely,
R.T. Hicks Consultants, Ltd.

Dale T. Littlejohn

Dale Littlejohn
Geologist

Copy: Caza Operating, LLC
New Mexico State Land Office

approved
Geoffrey Leking
Environmental Specialist

NMOCD - DIST 1
2/20/14

R. T. HICKS CONSULTANTS, LTD.

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

September 17, 2013

HOBBS OCD

Mr. Geoffrey Leking
NMOCD District
1625 French Drive
Hobbs, New Mexico 88240
Via E-mail and Regular Mail

FEB 03 2014

RECEIVED

RE: Caza Operating LLC, Caza Ridge "14" State No. 4H C-144 Permit Modification

Dear Geoffrey:

On behalf of Caza Operating, enclosed are:

1. A C-144 Form to modify the existing application (approved on February 18, 2013) to comply with the new Rule and
2. Updated (and recent OCD-approved) closure plans that are consistent with the new Rule.

The site-specific write-up, figures, plates, and appendix are unchanged from the earlier approved plan. To date, we have conducted our initial sampling of the cuttings, but have not received the results, additionally we are continuing to remove chlorides via the drainage system.

Please contact me if you have any questions of need additional information.

Sincerely,
R.T. Hicks Consultants



Dale T. Littlejohn

Copy: Richard Wright, Caza Operating, LLC
Terry Warnell, NM State Land Office

R. T. HICKS CONSULTANTS, LTD.

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

November 27, 2013

HOBBS OCD

Mr. Geoffrey Leking
 NMOCD District 1
 1625 French Drive
 Hobbs, New Mexico 88240
 Via E-mail

FEB 03 2014

RECEIVED

RE: Caza Operating, Caza Ridge "14" State 4H, API: 30-025-40936, Unit P Section 14
 T23S R34E, In-place Burial Notice

Dear Geoffrey:

The "In-place Burial" closure plan for the above referenced pit was approved on February 13, 2013 by the NMOCD, prior to the establishment of the June 2013 pit rule. Construction and operation of the temporary pit has been conducted to satisfy the rule under which it was approved as well as the June 2013 rule. A modified closure plan, prepared using the June 2013 rule was submitted to the NMOCD on September 17, 2013 and approved on September 18, 2013.

On September 12, 2013 five-point composite samples were recovered from both the inner and outer cells of the pit, combined according to the appropriate waste volume in each cell, and stabilized with the available mixing soil at a 3:1 ratio. Laboratory analyses were performed to determine the concentrations of the parameters listed in Table II of 19.15.17.13 NMAC.

The table below shows that TPH (418.1) and Total BTEX from this sampling event exceed the standards set forth in the Rule. A decision was made to allow the waste to remain undisturbed in the pit for several weeks in order to allow aeration and natural attenuation to reduce the hydrocarbon concentrations of the waste before re-sampling. Please note that the TPH result is nearly 5 times higher than GRO+DRO+MRO.

Summary Comparison of Laboratory Results to Pit Rule Burial Standards

	Sampling Date	Laboratory Results of Stabilized Waste Material (mg/kg)	19.15.17.13 NMAC Table II Depth to GW below waste > 100 Feet (mg/kg)	Estimated Maximum Mix Ratio Required To Achieve Pit Rule Burial Standard (must be <3:1)
GRO + DRO + MRO (EPA Method 8015M)	9/12/13	588	1,000	1.76 : 1
TPH (EPA Method 418.1)	9/12/13	2,900	2,500	3.48 : 1
Chloride (EPA Method 300.0)	9/12/13	32,800	80,000	1.23 : 1
Benzene (EPA Meth. 8021B or 8260B)	9/12/13	3.01	10	0.90 : 1
Total BTEX (EPA Meth. 8021B or 8260B)	9/12/13	62.7	50	3.76 : 1

¹ (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.

Due to a communication failure between RT Hicks Consultants and the dirt contractor, on or about October 22, 2013 the in-place closure began prior to formal NMOCD notification or approval. Upon discovering this, the pit closure activity was immediately terminated and a soil-sampling event was scheduled to determine the concentrations of the constituents that exceeded the standards from the previous sampling event.

On October 23, 2013 a five-point composite sample was recovered from the waste that had not yet been mixed by the dirt contractor. It is believed that this sample is conservative with respect to hydrocarbons, in that most of the undisturbed sample was located around the outer edge of the pit and therefore represents a higher percentage of material from the outer cell which contained oil from the flow-back. The composite sample was stabilized with the clean soil at a 3:1 ratio. Laboratory analyses were performed to determine the concentrations of TPH (418.1) and Total BTEX (8021B) for comparison to Table II of 19.15.17.13 NMAC.

The table below shows that only TPH (418.1) from this sampling event continued to exceed the standards set forth in the Rule. We did not have the laboratory to analyze this sample for GRO+DRO+MRO because the standard was met with the previous sample.

Summary Comparison of Laboratory Results to Pit Rule Burial Standards

	Sampling Date	Laboratory Results of Stabilized Waste Material (mg/kg)	19.15.17.13 NMAC	Estimated Maximum Mix Ratio Required To Achieve Pit Rule Burial Standard (must be <3:1)
			Table II Depth to GW below waste > 100 Feet (mg/kg)	
TPH (EPA Method 418.1)	10/23/13	3,300	2,500	3.96 : 1
Benzene (EPA Meth. 8021B or 8260B)	10/23/13	1.21	10	0.36 : 1
Total BTEX (EPA Meth. 8021B or 8260B)	10/23/13	37.1	50	2.23 : 1

Upon consulting with Cardinal and Hall Environmental Laboratories, we found that the method employed by Cardinal to prepare the sample for analysis is different from that of Hall. We were concerned that Cardinal's method, which does not use a silica gel sieve prior to analysis, may not effectively eliminate organic mud additives (e.g. cellulose) and/or lost circulation material (e.g. cottonseed hulls) from the analytical result. Therefore, on November 12, 2013 a third sampling event was conducted for analysis by Hall. The composite soil sample was recovered from the entire pit and stabilized with clean soil at a 3:1 ratio. No effort was made to represent the correct volumes of the inner and outer cells, since the premature mixing had made that task virtually impossible. Rather, the purpose of the sample was to compare the results of an analysis of GRO+DRO+MRO by 8015D with the results of an analysis of TPH by 418.1 prepared using a silica gel sieve.

Hall Environmental Laboratories performed the laboratory analysis and the results are shown as follows:

GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (8015D) (mg/kg)	TPH (418.1) (mg/kg)
30	1,300	770	2,100	2,400

November 27, 2013

Page 3

RT Hicks Consultants believes that these results strongly indicate that an analysis of TPH by 418.1, when prepared using a silica gel sieve to remove the affects of the mud additives, provides a much better representation of the actual hydrocarbon contaminants than what we understand is an "oil and grease" method used by Cardinal Laboratories. For crude releases to sandy soil, an oil and grease method is probably fine. However, when non-petroleum organic compounds are present (e.g. drilling fluids), one should rely upon the more robust silica gel sieve technique or perhaps simply add GRO+DRO+MRO.

In light of these results, RT Hicks Consultants believes that the TPH by 418.1 analysis from the September 12, and October 23, 2013 sampling events should be disregarded in favor of the September 12, 2013 GRO+DRO+MRO results. On this bases be believe that the pit qualifies for closure under the current Rule and would like to move as quickly as possible to complete the closure.

In the future, RT Hicks Consultants will only perform analysis of TPH by 418.1 using the silica gel sieve preparation.

Sincerely,
R.T. Hicks Consultants



Dale Littlejohn

Copy: Caza Operating, LLC

New Mexico State Land Office
PO Box 1148
Santa Fe, NM 87504-1148
CERTIFIED MAIL – RETURN RECEIPT REQUEST

R. T. HICKS CONSULTANTS, LTD.

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

November 27, 2013

Mr. Geoffrey Leking
 NMOCD District 1
 1625 French Drive
 Hobbs, New Mexico 88240
 Via E-mail

RE: Caza Operating, Caza Ridge "14" State 4H, API: 30-025-40936, Unit P Section 14
 T23S R34E, In-plac

Dear Geoffrey:

The "In-place Burial" closure was completed on November 13, 2013 by the NMOCD, for Construction and operation under which it was approved and prepared using the June 2013 and approved on September 19, 2013.

On September 12, 2013 five cells and outer cells of the pit, cell, and stabilized with the performed to determine the 19.15.17.13 NMAC.

The table below shows that the standards set forth in the undisturbed in the pit for several weeks in order to allow to reduce the hydrocarbon concentrations of the waste to that the TPH result is nearly 5 times higher than GRO+G

Summary Comparison of Laboratory Results to Pit Rule Burial Standards

	Sampling Date	Laboratory Results of Stabilized Waste Material (mg/kg)
GRO + DRO + MRO (EPA Method 8015M)	9/12/13	588
TPH (EPA Method 418.1)	9/12/13	2,900
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Benzene (EPA Meth. 8021B or 8260B)	9/12/13	3.01
Total BTEX (EPA Meth. 8021B or 8260B)	9/12/13	62.7

¹ (5) The operator shall collect, at a minimum, a five point composite of the pad/tank associated with a closed-loop system to demonstrate that, after the other non-waste material at a ratio of no more than 3:1 soil or other non-waste material in the stabilized waste is not higher than the parameters in Tab

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
1. Article Addressed to: Terry Warnell NM. SLO PO Box 1148 Santa Fe, NM 87504	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
2. Article Number (Transfer from service label) 7008 1300 0002 4410 5993	PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

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

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ 1 ³²	11/27/13 Postmark Here
Certified Fee	5 ⁶⁵	
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6 ⁹⁷	

Sent To: Terry Warnell SLO
 Street, Apt. No., or PO Box No.
 City, State, ZIP+4 Santa Fe NM
 PS Form 3800, August 2006 See Reverse for Instructions

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 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 HOBS-OC AUG 14 2013 RECEIVED	Form C-105 Revised August 1, 2011 1. WELL API NO. 30 025 40936 2. Type of Lease <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN 3. State Oil & Gas Lease No. VB 1184																																	
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																																			
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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																																			
8. Name of Operator Caza Operating, LLC		9. OGRID 249099																																	
10. Address of Operator 200 N. Loraine, Suite 1550, Midland, Texas 79701		11. Pool name or Wildcat Antelope Ridge Bone Spring 2209 <i>W25T</i>																																	
12. Location <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Surface:</th> <th>Unit Ltr</th> <th>Section</th> <th>Township</th> <th>Range</th> <th>Lot</th> <th>Feet from the</th> <th>N/S Line</th> <th>Feet from the</th> <th>E/W Line</th> <th>County</th> </tr> <tr> <td>P</td> <td>14</td> <td>T23S</td> <td>R34E</td> <td></td> <td></td> <td>330</td> <td>S</td> <td>660</td> <td>E</td> <td>Lea</td> </tr> <tr> <td>BH:</td> <td>A</td> <td>14</td> <td>T23S</td> <td>R34E</td> <td></td> <td>4935</td> <td>S</td> <td>596</td> <td>E</td> <td>Lea</td> </tr> </table>	Surface:	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County	P	14	T23S	R34E			330	S	660	E	Lea	BH:	A	14	T23S	R34E		4935	S	596	E	Lea		
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13. Date Spudded 6-15-13	14. Date T.D. Reached 7-10-13	15. Date Rig Released 7-15-13	16. Date Completed (Ready to Produce) 8/6/13	17. Elevations (DF and RKB, RT, GR, etc.) 3366 GR																															
18. Total Measured Depth of Well 15,775		19. Plug Back Measured Depth 15,649		20. Was Directional Survey Made? Yes																															
21. Type Electric and Other Logs Run CNL/Den/Gr/DLL		22. Producing Interval(s), of this completion - Top, Bottom, Name 11,733-15,606 Bone Spring																																	
23. CASING RECORD (Report all strings set in well)																																			
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SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET																												
26. Perforation record (interval, size, and number) Cemented Sleeves: 24 3/4" holes each. 15606, 15476, 15307, 15136, 14964 14792, 14618, 14449, 14276, 14110, 13936, 13768, 13595, 13423, 13253, 13082, 12910, 12748, 12576, 12411, 12244, 12074, 11907, 11733				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> </thead> <tbody> <tr> <td>11733-15606</td> <td>41,496 gals 15% HCL Acid</td> </tr> <tr> <td>11733-15606</td> <td>91,200 lbs 40/70 sd; 720,800 lbs 20/40 Opti Prop</td> </tr> <tr> <td></td> <td>2,039,980 lbs 20/40 Econo Prop</td> </tr> </tbody> </table>		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	11733-15606	41,496 gals 15% HCL Acid	11733-15606	91,200 lbs 40/70 sd; 720,800 lbs 20/40 Opti Prop		2,039,980 lbs 20/40 Econo Prop																						
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28. PRODUCTION																																			
Date First Production 8-6-2013		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing		Well Status (Prod. or Shut-in) Producing																															
Date of Test 8-8-2013	Hours Tested 24	Choke Size 30/64	Prod'n For Test Period 1004	Gas - MCF 1302	Water - Bbl. 1457	Gas - Oil Ratio 1297/1																													
Flow Tubing Press. NA	Casing Pressure 1200	Calculated 24-Hour Rate 1004	Oil - Bbl. 1004	Gas - MCF 1302	Water - Bbl. 1457	Oil Gravity - API - (Corr.) 42°																													
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented					30. Test Witnessed By Jerrod Norton																														
31. List Attachments Schematic, C102, C104, Directional																																			
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		Longitude		NAD 1927 1983																															
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																																			
Signature <i>Richard L. Wright</i>	Printed Name Richard L. Wright		Title Operations Manager		Date 8-12-13																														
E-mail Address rwright@cazapedro.com																																			

DEC 11 2013

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	1150	T. Canyon	T. Ojo Alamo	T. Penn "A"	
T. Salt	1608	T. Strawn	T. Kirtland	T. Penn. "B"	
B. Salt	3671	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	5943	T. Morrison	
T. Drinkard		T. Bone Springs	8585	T. Todilto	
T. Abo		T. Bell Canyon	3685	T. Entrada	
T. Wolfcamp		T. Brushy Cyn	7327	T. Wingate	
T. Penn		T. Avalon	8680	T. Chinle	
T. Cisco (Bough C)		T. 2nd Bone Sprg	10180	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

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 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. 30-025-40936 2. Type of Lease <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN 3. State Oil & Gas Lease No. VB 1184
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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 <p style="text-align: right;">Caza Ridge "14" State</p> 6. Well Number: <p style="text-align: center;">4H</p>																																	
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8. Name of Operator <p style="text-align: center;">Caza Operating, LLC</p>	9. OGRID <p style="text-align: center;">249099</p>																																	
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BH:																																		
13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released <p style="text-align: center;">7/15/13</p>	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																																		

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>)	
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 ATTACHED

33. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude N 32.2985698° Longitude W -103.434607° NAD 1927

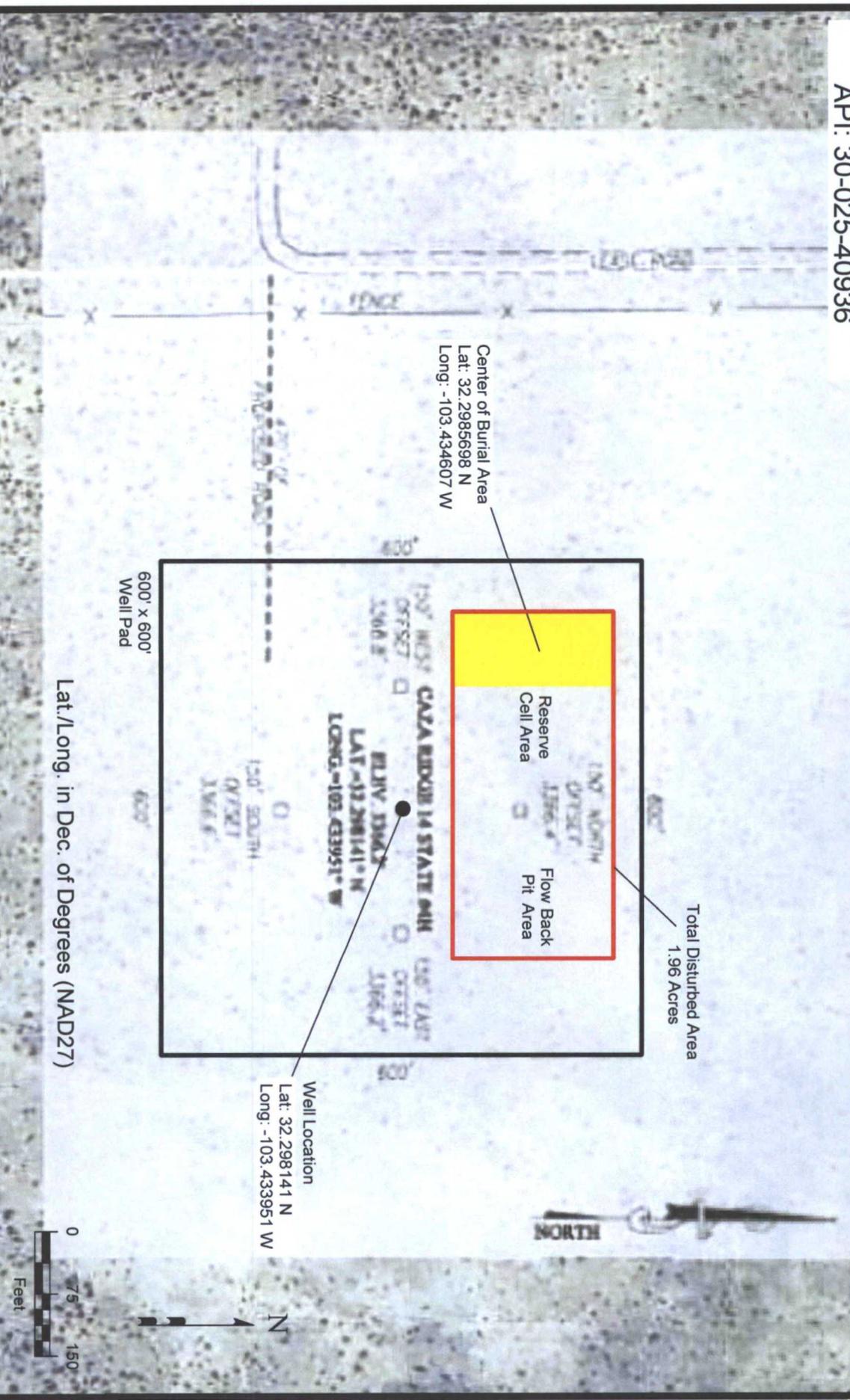
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Dale T. Littlejohn Printed Name Dale Littlejohn Title Geologist Date 1-31-14

E-mail Address dale@rthicksconsult.com

Caza Operating
Caza Ridge "14" State #4H
T-23-S, R-34-E, Sec 14 (P)
API: 30-025-40936

Plate 1
On-Site Burial
Location



October 03, 2013

DALE LITTLEJOHN
R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE, NM 87104

RE: CAZA RIDGE #4H

Enclosed are the results of analyses for samples received by the laboratory on 09/12/13 10:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:R T HICKS CONSULTANTS
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104Project: CAZA RIDGE #4H
Project Number: NONE GIVEN
Project Manager: DALE LITTLEJOHN
Fax To: NONEReported:
03-Oct-13 10:13

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
STABLE 3:1 MIX	H302211-01	Soil	12-Sep-13 08:50	12-Sep-13 10:30

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104

 Project: CAZA RIDGE #4H
 Project Number: NONE GIVEN
 Project Manager: DALE LITTLEJOHN
 Fax To: NONE

 Reported:
 03-Oct-13 10:13

STABLE 3:1 MIX
H302211-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	32800	16.0	mg/kg	4	3091602	AP	16-Sep-13	4500-CI-B	
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Organic Compounds

TPH 418.1	2900	100	mg/kg	10	3092605	CK	02-Oct-13	418.1	SUB-SS
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Volatile Organic Compounds by EPA Method 8021
S-04

Benzene*	3.01	0.500	mg/kg	500	3091601	MS	17-Sep-13	8021B	
Toluene*	20.8	0.500	mg/kg	500	3091601	MS	17-Sep-13	8021B	
Ethylbenzene*	10.1	0.500	mg/kg	500	3091601	MS	17-Sep-13	8021B	
Total Xylenes*	28.8	1.50	mg/kg	500	3091601	MS	17-Sep-13	8021B	
Total BTEX	62.7	3.00	mg/kg	500	3091601	MS	17-Sep-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID)

134 % 89.4-126 3091601 MS 17-Sep-13 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10	85.5	10.0	mg/kg	1	3091207	MS	13-Sep-13	8015B	
DRO >C10-C28	413	10.0	mg/kg	1	3091207	MS	13-Sep-13	8015B	
EXT DRO >C28-C35	89.2	10.0	mg/kg	1	3091207	MS	13-Sep-13	8015B	

Surrogate: 1-Chlorooctane

88.3 % 65.2-140 3091207 MS 13-Sep-13 8015B

Surrogate: 1-Chlorooctadecane

100 % 63.6-154 3091207 MS 13-Sep-13 8015B

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104

 Project: CAZA RIDGE #4H
 Project Number: NONE GIVEN
 Project Manager: DALE LITTLEJOHN
 Fax To: NONE

 Reported:
 03-Oct-13 10:13

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3091602 - 1:4 DI Water										
Blank (3091602-BLK1)										
Prepared & Analyzed: 16-Sep-13										
Chloride	ND	16.0	mg/kg							
LCS (3091602-BS1)										
Prepared & Analyzed: 16-Sep-13										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3091602-BSD1)										
Prepared & Analyzed: 16-Sep-13										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104

 Project: CAZA RIDGE #4H
 Project Number: NONE GIVEN
 Project Manager: DALE LITTLEJOHN
 Fax To: NONE

 Reported:
 03-Oct-13 10:13

Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3092605 - Solvent Extraction
Blank (3092605-BLK1)

Prepared & Analyzed: 02-Oct-13

TPH 418.1	ND	10.0	mg/kg							
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104

 Project: CAZA RIDGE #4H
 Project Number: NONE GIVEN
 Project Manager: DALE LITTLEJOHN
 Fax To: NONE

 Reported:
 03-Oct-13 10:13

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3091601 - Volatiles
Blank (3091601-BLK1)

Prepared & Analyzed: 16-Sep-13

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0571		mg/kg	0.0500		114	89.4-126			

LCS (3091601-BS1)

Prepared & Analyzed: 16-Sep-13

Benzene	1.98	0.050	mg/kg	2.00		99.0	76.4-135			
Toluene	2.14	0.050	mg/kg	2.00		107	80.2-135			
Ethylbenzene	2.27	0.050	mg/kg	2.00		113	78.5-133			
Total Xylenes	6.92	0.150	mg/kg	6.00		115	80.1-135			
Surrogate: 4-Bromofluorobenzene (PID)	0.0564		mg/kg	0.0500		113	89.4-126			

LCS Dup (3091601-BSD1)

Prepared & Analyzed: 16-Sep-13

Benzene	2.07	0.050	mg/kg	2.00		104	76.4-135	4.45	16.4	
Toluene	2.23	0.050	mg/kg	2.00		112	80.2-135	4.08	16.6	
Ethylbenzene	2.37	0.050	mg/kg	2.00		118	78.5-133	4.29	16.1	
Total Xylenes	7.12	0.150	mg/kg	6.00		119	80.1-135	2.88	15.8	
Surrogate: 4-Bromofluorobenzene (PID)	0.0582		mg/kg	0.0500		116	89.4-126			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104

 Project: CAZA RIDGE #4H
 Project Number: NONE GIVEN
 Project Manager: DALE LITTLEJOHN
 Fax To: NONE

 Reported:
 03-Oct-13 10:13

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3091207 - General Prep - Organics
Blank (3091207-BLK1)

Prepared & Analyzed: 12-Sep-13

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	37.9		mg/kg	50.0		75.9	65.2-140			
Surrogate: 1-Chlorooctadecane	43.7		mg/kg	50.0		87.4	63.6-154			

LCS (3091207-BS1)

Prepared & Analyzed: 12-Sep-13

GRO C6-C10	200	10.0	mg/kg	200		100	66.4-124			
DRO >C10-C28	192	10.0	mg/kg	200		96.1	61.6-132			
Total TPH C6-C28	392	10.0	mg/kg	400		98.0	69.7-122			
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0		88.4	65.2-140			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.7	63.6-154			

LCS Dup (3091207-BSD1)

Prepared & Analyzed: 12-Sep-13

GRO C6-C10	210	10.0	mg/kg	200		105	66.4-124	4.71	23.4	
DRO >C10-C28	200	10.0	mg/kg	200		99.8	61.6-132	3.84	23.1	
Total TPH C6-C28	409	10.0	mg/kg	400		102	69.7-122	4.29	20.6	
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.8	65.2-140			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	63.6-154			

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Caley D. Keene, Lab Director/Quality Manager

Notes and Definitions

SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

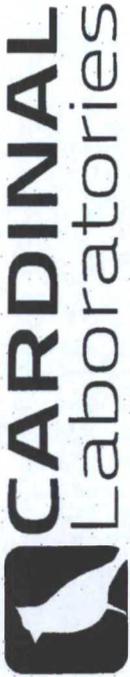
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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RT Hicks Consultants Ltd		BILL TO		ANALYSIS REQUEST	
Project Manager: Dale Littlejohn		P.O. #:			
Address: 901 Rio Grande BLVD, Suite F-142		Company: RT Hicks Consult.			
City: Albuquerque		Attn: Krista			
Phone #: (432) 528-3878		Address: 901 Rio G. F-142			
Project #:		City: Albuquerque			
Project Name: Caza Ridge #4H		State: NM			
Project Location: Lea County New Mexico		Phone #: (505) 266-5004			
Sampler Name: Dale Littlejohn		Fax #: k@rthicksconsult.com			
FOR LAB USE ONLY		PRESERV.		SAMPLING	
Lab I.D.		MATRIX		DATE	
H302211		GROUNDWATER		9/12	
Sample I.D.		WASTEWATER		TIME	
Stable 3:1 Mix		SLUDGE		850	
		OIL			
		SOIL			
		ACID/BASE			
		OTHER:			
		ICE / COOL			
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November 05, 2013

DALE LITTLEJOHN

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: CAZA RIDGE '14' STATE #4H

Enclosed are the results of analyses for samples received by the laboratory on 10/23/13 14:12.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 R T HICKS CONSULTANTS
 DALE LITTLEJOHN
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	11/05/2013	Sampling Type:	Soil
Project Name:	CAZA RIDGE '14' STATE #4H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 3:1 MIX SAMPLE (H302568-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.21	0.050	10/24/2013	ND	2.05	103	2.00	0.398		
Toluene*	11.1	0.050	10/24/2013	ND	2.14	107	2.00	0.0304		
Ethylbenzene*	6.45	0.050	10/24/2013	ND	2.17	108	2.00	0.263		
Total Xylenes*	18.3	0.150	10/24/2013	ND	6.55	109	6.00	1.57		
Total BTEX	37.1	0.300	10/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

TPH 418.1		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	3300	100	10/31/2013	ND	76.0	92.7	82.0	11.1	SUB-SS	

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager



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

November 22, 2013

Randall Hicks
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: Caza Ridge 4H

OrderNo.: 1311617

Dear Randall Hicks:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/14/2013 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 light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: Caza Ridge 4H Pit 3:1 Final Min

Project: Caza Ridge 4H

Collection Date: 11/12/2013 3:05:00 PM

Lab ID: 1311617-001

Matrix: SOIL

Received Date: 11/14/2013 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	1300	100		mg/Kg	10	11/19/2013 1:17:22 PM	10373
Motor Oil Range Organics (MRO)	770	500		mg/Kg	10	11/19/2013 1:17:22 PM	10373
Surr: DNOP	0	66-131	S	%REC	10	11/19/2013 1:17:22 PM	10373
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	30	4.9		mg/Kg	1	11/18/2013 11:54:27 AM	10364
Surr: BFB	240	74.5-129	S	%REC	1	11/18/2013 11:54:27 AM	10364
EPA METHOD 418.1: TPH							Analyst: BCN
Petroleum Hydrocarbons, TR	2400	200		mg/Kg	10	11/19/2013	10341

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 greater than 2 for VOA and TOC only.
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#: 1311617

22-Nov-13

Client: R.T. Hicks Consultants, LTD

Project: Caza Ridge 4H

Sample ID	MB-10341	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	10341	RunNo:	14899					
Prep Date:	11/14/2013	Analysis Date:	11/19/2013	SeqNo:	429708	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-10341	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	10341	RunNo:	14899					
Prep Date:	11/14/2013	Analysis Date:	11/19/2013	SeqNo:	429709	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	104	80	120			

Sample ID	LCSD-10341	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	10341	RunNo:	14899					
Prep Date:	11/14/2013	Analysis Date:	11/19/2013	SeqNo:	429710	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	104	80	120	0	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 greater than 2 for VOA and TOC only. |
| 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#: 1311617
22-Nov-13

Client: R.T. Hicks Consultants, LTD
Project: Caza Ridge 4H

Sample ID	MB-10373	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	10373	RunNo:	14849					
Prep Date:	11/18/2013	Analysis Date:	11/18/2013	SeqNo:	428499	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	9.4		10.00		94.2	66	131			

Sample ID	MB-10375	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	10375	RunNo:	14849					
Prep Date:	11/18/2013	Analysis Date:	11/18/2013	SeqNo:	428500	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP	9.1		10.00		91.3	66	131			
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Sample ID	MB-10380	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	10380	RunNo:	14849					
Prep Date:	11/18/2013	Analysis Date:	11/18/2013	SeqNo:	428534	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP	8.6		10.00		86.0	66	131			
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Sample ID	LCS-10373	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	10373	RunNo:	14849					
Prep Date:	11/18/2013	Analysis Date:	11/18/2013	SeqNo:	428570	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	48	10	50.00	0	95.2	62.1	127			
Surr: DNOP	4.5		5.000		90.9	66	131			

Sample ID	LCS-10375	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	10375	RunNo:	14849					
Prep Date:	11/18/2013	Analysis Date:	11/18/2013	SeqNo:	428571	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP	4.6		5.000		91.5	66	131			
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Sample ID	LCS-10380	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	10380	RunNo:	14849					
Prep Date:	11/18/2013	Analysis Date:	11/18/2013	SeqNo:	428651	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP	4.4		5.000		88.3	66	131			
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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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311617
22-Nov-13

Client: R.T. Hicks Consultants, LTD
Project: Caza Ridge 4H

Sample ID MB-10364	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 10364		RunNo: 14860							
Prep Date: 11/15/2013	Analysis Date: 11/18/2013		SeqNo: 428823		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		91.3	74.5	129			

Sample ID LCS-10364	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 10364		RunNo: 14860							
Prep Date: 11/15/2013	Analysis Date: 11/18/2013		SeqNo: 428824		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	74.5	126			
Surr: BFB	1000		1000		99.9	74.5	129			

Sample ID 1311617-001AMS	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: Caza Ridge 4H Pit 3	Batch ID: 10364		RunNo: 14860							
Prep Date: 11/15/2013	Analysis Date: 11/18/2013		SeqNo: 428826		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	58	4.9	24.46	30.49	111	76	156			
Surr: BFB	2600		978.5		261	74.5	129			S

Sample ID 1311617-001AMSD	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: Caza Ridge 4H Pit 3	Batch ID: 10364		RunNo: 14860							
Prep Date: 11/15/2013	Analysis Date: 11/18/2013		SeqNo: 428827		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	50	4.9	24.46	30.49	81.2	76	156	13.5	17.7	
Surr: BFB	2400		978.5		242	74.5	129	0	0	S

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 for VOA and TOC only.
- RL Reporting Detection Limit



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

Sample Log-In Check List

Client Name: RT HICKS

Work Order Number: 1311617

RcptNo: 1

Received by/date:

A.F.

11/14/13

Logged By: Ashley Gallegos

11/14/2013 9:35:00 AM

[Signature]

Completed By: Ashley Gallegos

11/14/2013 1:53:07 PM

[Signature]

Reviewed By:

[Signature]

11/15/13

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	2.6	Good	Not Present			

Protocols and Procedures used for the In-Place Burial

As described in the November 27, 2013 Burial Notice Letter (see Attachment 1) the closure of the temporary pit began prematurely as a result of a communication error between the RT Hicks office and the dirt contractor. The premature closure activities were terminated immediately upon discovery and resumed following completion of the waste characterization and formal notification.

In accordance with to 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.

1. The closure notice letter was submitted to the NMOCD District 1 Office on November 27, 2013 (Attachment 1). In-place burial field activities began prematurely on October 22, 2013, were terminated on October 23, 2013, and resumed on December 3, 2013.
2. The waste burial location and depth is in compliance with the siting criteria presented in the C-144 application submitted to the NMOCD District 1 Office on September 17, 2013 and approved on September 18, 2013.
3. From July 22 to October 9, 2013, fresh water from the initial frac flow-back was used via the drainage system in the inner cell to reduce the salt concentration of the waste. All free liquids (above the cuttings) were removed from the outer cell by September 12, 2013, the inner cell by October 9, 2013, and flow-back pit by December 4, 2013. The waste material was allowed to dry out until closure field activities began prematurely on October 22, 2013 and officially on December 3, 2013.
4. From October 22, to October 23, 2013 and from December 3, to December 4, 2013 the temporary pit contents were stabilized to a capacity sufficient to support the final cover, as verified by a paint filter test conducted by a representative of RT Hicks Consultants on December 4, 2013. The final mixing ratio was greater than 2:1 but did not exceed 3:1 (clean soil to waste material).
5. On September 12, 2013, prior to the initiation of closure activities, five-point composite samples were recovered from both the inner and outer cells of the temporary pit. These samples were mixed together according to the relative volume of waste material in each cell. The resulting sample was mixed with clean soil from the walls and dividers surrounding the temporary pit at a ratio of 3 parts clean soil to 1 part waste material in order to create a “stabilized sample”. The stabilized sample was submitted to Cardinal Laboratories for analyses of GRO, DRO, MRO (EPA method 8015M), TPH (EPA method 418.1), BTEX (EPA method 8260B), and Chloride (SM4500). The results, as noted in the November 17, 2013 Closure Notice letter, indicated that the waste

Closure Letter Attachment 4
Caza Operating – Caza Ridge “14” State #4H
API: 30-025-40936

material contaminant concentrations, stabilized at a ratio of 3:1 exceeded the concentration limits listed in Table II of 19.15.17.13 NMAC only for TPH (418.1) and Total BTEX (see letter in Attachment 1 and Lab report in Attachment 3).

On October 23, 2013, following the premature start-up of closure activities, a five-point composite sample was recovered from the remaining undisturbed waste, most of which was located on the outer edge of the outer cell. This sample should be considered conservative, with respect to hydrocarbons as the outer cell contained oil from the flow-back operation. The composite sample was mixed with clean soil from the walls and dividers surrounding the temporary pit at a ratio of 3 parts clean soil to 1 part waste material in order to create a “stabilized sample”. The stabilized sample was submitted to Cardinal Laboratories for analyses of TPH (418.1) and Total BTEX. The results, as noted in the November 17, 2013 Closure Notice letter, indicated that the waste material contaminant concentrations, stabilized at a ratio of 3:1 exceeded the prescribed concentration limits listed in Table II of 19.15.17.13 NMAC only for TPH (418.1).

On November 12, 2013 a five-point sample was recovered from the stabilized waste within the temporary pit. The purpose of the sample was to determine the waste concentration of TPH by 418.1 using the more advanced silica gel sieve method and compare the results with an analysis of GRO+DRO+MRO. No effort was made to represent the correct volumes of the inner and outer cells since the premature mixing had made the task virtually impossible. The sample was submitted to Hall Environmental Laboratories for analyses of TPH (418.1) and GRO+DRO+MRO (8015D). The results, as noted in the November 17, 2013 Closure Notice letter, indicated that the waste material concentration did not exceed the prescribed limit listed in Table II of 19.15.17.13 NMAC for TPH (418.1) and was a much more favorable match to the TPH (418.1) versus GRO+DRO+MRO results from the September 12, 2013 samples.

6. Following the December 4, 2013 inspection, having achieved all applicable waste stabilization associated with in-place burial, the 20-mil string reinforced LLDPE liner from the flow-back pit was folded over the waste material in a manner that prevents the collection of infiltration water in the temporary pit and on the geomembrane cover after the soil cover is in place.
7. Once the geomembrane cover was in place, at least 4 feet of non-waste containing, uncontaminated, earthen material and topsoil was installed as prescribed in Paragraph (3) of Subsection H of 19.15.17.13 NMAC.

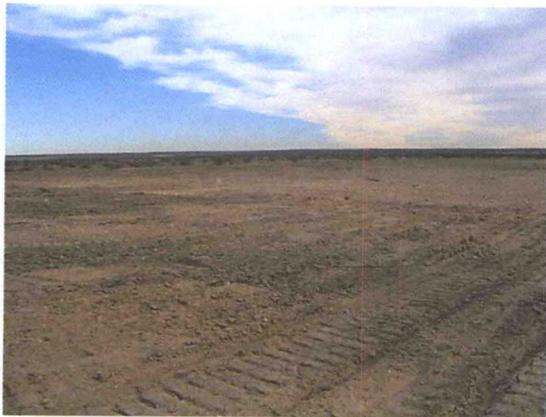
**Closure Letter Attachment 4
Caza Operating – Caza Ridge “14” State #4H
API: 30-025-40936**



Stabilized Waste (12-4-13)



Paint Filter Test (12-4-13)



Final Cover and Topsoil (1-8-14)

Site Reclamation and Soil Cover Plan

After the temporary pit was closed, topsoil and subsoil was replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability, and blend with the surrounding undisturbed area and topography according to Subsection H of 19.15.17.13 NMAC. There were no road or surface drainage features nearby that required restoration or preservation.

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 of about one foot. It is nowhere less than one foot of suitable material in order to establish vegetation at the site in accordance with Paragraph (5), Subsection H of 19.15.17.13 NMAC.

Re-vegetation Plan

Upon completion of the soil cover the surface of the topsoil contained small ripples from the bulldozer treads, therefore no additional soil preparation was required.

1. On January 8, 2014, an employee of the owners of the former Eagle Eye Excavation (a company that was disbanded during the pit closure operations) seeded the pit area by hand broadcast spreading 40 lbs. of seed over the 1.96-acre reclamation area. The seed was then covered with soil by dragging a heavy steel harrow across the area for several hours with a four-wheel drive pick-up truck.
2. The seed mix used for this site to reestablish the native perennial vegetative cover was the BLM #1 assortment.
3. During the next two growing seasons to prove viability, there will be no artificial irrigation of the vegetation.
4. The operator will repeat seeding or planting until it successfully achieves the required vegetative cover.
5. 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 when it successfully achieves re-vegetation.



Spreading the Seed



Covering the Seed

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.

RECEIVED

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: Caza Operating LLC OGRID #: 249099
Address: 200 North Loraine, Suite 1550, Midland, Texas 79701
Facility or well name: Caza Ridge "14" State Well No. 4H
API Number: 30-025-40936 OCD Permit Number: PI-05637
U/L or Qtr/Qtr P Section 14 Township 23S Range 34E County: Lea
Center of Proposed Design: Latitude 32.298141° N Longitude -103.433951° 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: 40,961 bbl Dimensions: L 116 x W 327 x D 6-8 ft (drilling) 12 ft (fluids cell)

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

<p>Within 100 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Temporary Pit Non-low chloride drilling fluid</p>	
<p>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</p> <ul style="list-style-type: none"> - Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image. See Figure 4 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>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;</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site <p style="text-align: center;">See Figures 1 & 2</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>Within 300 feet of a wetland. See Figure 6</p> <ul style="list-style-type: none"> - 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
<p>Permanent Pit or Multi-Well Fluid Management Pit</p>	
<p>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).</p> <ul style="list-style-type: none"> - Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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.</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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): Richard Wright Title: Production Superintendent

Signature: *Richard L. Wright* Date: September 17, 2013

e-mail address: rwright@cazapetro.com Telephone: (432) 682-7472 (x1006)

18. OCD Approval: ^{MOD} Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature: *Jeffrey Sekins* Approval Date: 9/18/13

Title: Environmental Specialist OCD Permit Number: P1-05637

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) NA (State Land)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable) NA (In-Place Burial)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number NA (No Off-site Disposal)
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude N 32.2985698^o Longitude W -103.434607^o 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): Richard L. Wright Title: Production Superintendent

Signature: *Richard L. Wright* Date: January 31, 2014

e-mail address: rwright@cazapetro.com Telephone: (432) 682-7472 (x-1006)