

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1520952625
District RP	2RP-3164
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # NAB1520952625
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.707 Longitude -104.38745
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Bryan ME #1	Site Type Well
Date Release Discovered 07/11/2015	API# 30-015-23097

Unit Letter	Section	Township	Range	County
F	33	18S	26E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 10
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Please refer to the attached original C-141 form for 2RP-3164 for cause of release and immediate action steps. EOG Resources is submitting for closure via the new form to formally close out this incident. All sampling and correspondence is also attached.

Incident ID	NAB1520952625
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	NAB1520952625
District RP	2RP-3164
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1520952625
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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	NAB1520952625
District RP	2RP-3164
Facility ID	
Application ID	


Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chase Settle Title: Rep Safety and Environmental Sr
Signature:  Date: 10/18/2021
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 11/02/2021
Printed Name: Bradford Billings Title: Envi.Spec.A



EOG Resources, Inc.
Artesia Division Office
104 S. 4th Street
Artesia, N. M. 88210

October 18, 2021

NMOCD District II
811 S. First St.
Artesia, NM 88210

Re: Bryan ME #1
30-015-23097
F-33-18S-26E
Eddy County, NM
Incident #NAB1520952625

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. EOG Resources, Inc. hereby requests closure.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

A handwritten signature in black ink, appearing to read "Chase Settle".

Chase Settle
Rep Safety & Environmental Sr
EOG Resources, Inc.

**Bryan ME #1
Closure Report
30-015-23097
F-33-18S-26E
Eddy County, NM
October 18, 2021
NAB1520952625**

Bryan ME #1
Closure Report
#NAB1520952625



October 18, 2021

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Revegetation Photos

I. Background

A release of 15 barrels of produced water occurred at the Bryan ME #1 on July 11, 2015, with 10 barrels of produced water recovered. An area northeast of the wellhead was impacted, approximately 30 feet by 40 feet. Delineation of the impacted area was completed with a remediation plan being submitted for NMOCD approval on April 4, 2016. NMOCD approved the plan with stipulations to increase the excavation depth to four (4) feet below grade surface (bgs), set the synthetic liner at that depth, and excavate sidewalls to 800 mg/kg chloride concentrations, with field screens being an acceptable method of confirmation. At this time it was agreed to excavate the site to four (4) feet bgs and install the liner, but disclosure was made that the release occurred adjacent to the historical drill cuttings pit. With that disclosure, NMOCD still requested the sidewall samples in that area. Results were provided to NMOCD and the request was made to excavate into the historical drill pit, but after photos of the excavation were provided, NMOCD agreed to provide backfill approval and close the site but using Rule 17 vegetation requirements, which had previously been stated as 70% revegetation.

II. Revegetation Evidence

On October 18, 2021, the remediated site was visited to determine if the vegetation had reached the 70% threshold required by NMOCD for the approved closure of the incident. Upon review of the site and the amount of vegetation present, it easily exceeds 70% revegetation. A comparison of the site in 2016 and 2021 is included with this Closure Report as evidence of meeting the revegetation threshold set by NMOCD in the approval email from July 7, 2016. Photos can be compared over time due to the same background features that are still present in 2021, photos are grouped together based on their background features.

With the site clearly showing revegetation that exceeds 70%, EOG Resources, Inc. requests closure of Incident # NAB1520952625.

Revegetation Photos



Figure 1- 2016 Image



Figure 2- 2016 Image



Figure 3- 2021 Image



Figure 4- 2021 image



Figure 5- 2016 image



Figure 6- 2021 image



Figure 7- 2021 Image



Figure 8- 2021 Image



Figure 9- 2021 image



Figure 50- 2016 image



Figure 61- 2021 Image

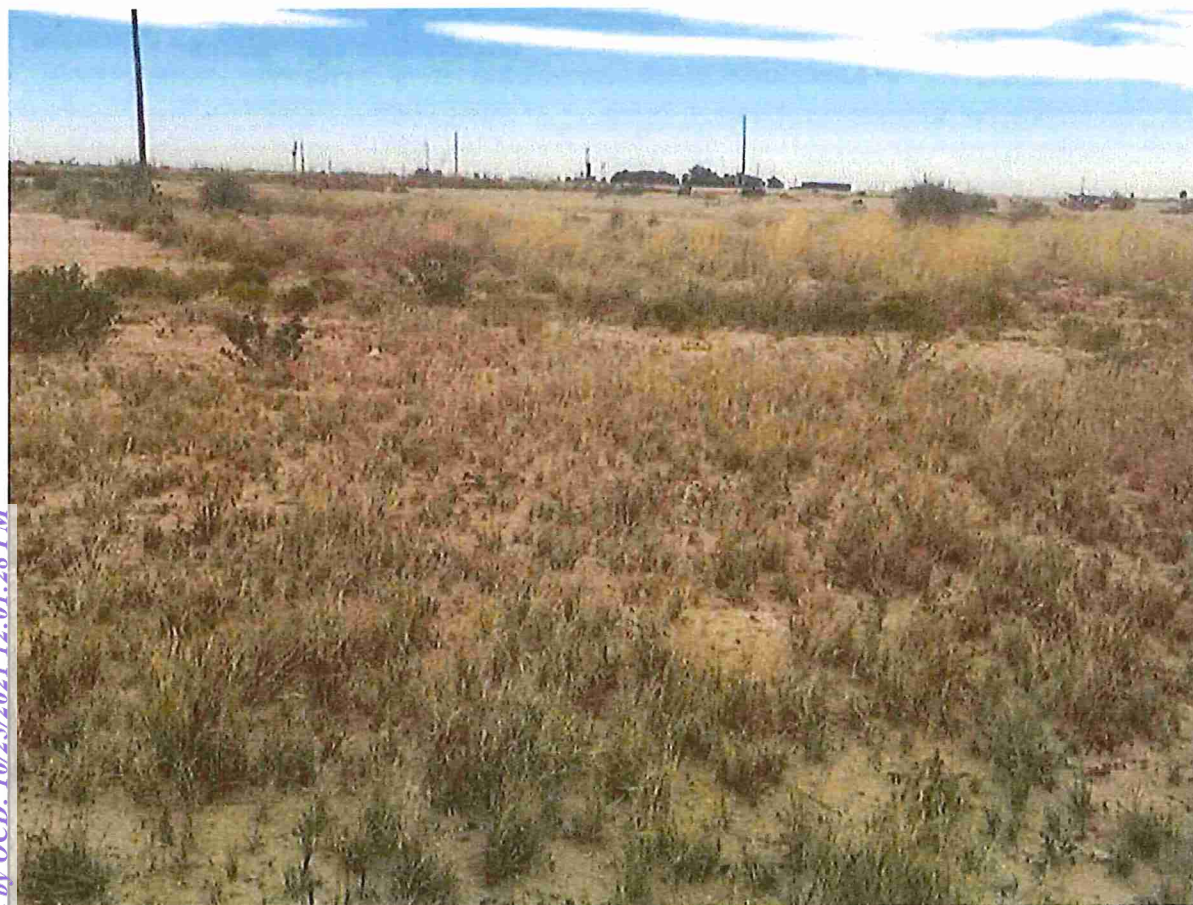


Figure 72- 2021 Image



Figure 83- 2021 image

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 27 2015

Form C-141

Revised August 8, 2011

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB 1520952625

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Yates Petroleum Corporation <i>25575</i>		Contact Amber Griffin
Address 104 S. 4 th Street		Telephone No. 575-748-1471
Facility Name Bryan ME #1		Facility Type Well
Surface Owner Fee	Mineral Owner Fee	API No. 30-015-23097

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	33	18S	26E	1650	North	2310	West	Eddy

Latitude 32.707 Longitude 104.38745

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 15 B/PW	Volume Recovered 10 B/PW
Source of Release Well casing	Date and Hour of Occurrence 7/11/2015; AM	Date and Hour of Discovery 7/11/2015; AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Heather Patterson, & Randy Dade	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 7/11/2015; 5:36 PM (Email)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

There was a hole in the casing, causing the release. Vacuum truck(s) and roustabout crews were called.

Describe Area Affected and Cleanup Action Taken.*

An approximate area of 30' X 40'. The well was shut in, vacuum trucks were called to recover the spill and a roustabout crew was called to repair the casing. Excavated soils will be hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis run for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 10) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: 50-99' (approximately 75', Section 33, T18S-R26E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: <i>Amber Griffin</i>	Signed By: <i>Mike Bratcher</i>	
Printed Name: Amber Griffin	Approved by Environmental Specialist:	
Title: NM Environmental Regulatory Agent	Approval Date: <u>7/28/15</u>	Expiration Date: <u>N/A</u>
E-mail Address: ACannon@yatespetroleum.com	Conditions of Approval:	
Date: July 27, 2015	Remediation per O.C.D. Rules & Guidelines	
Phone: 575-748-4111	SUBMIT REMEDIATION PROPOSAL NO. <u>2RP-3164</u>	

* Attach Additional Sheets If Necessary

LATER THAN: 8/30/15

Bratcher, Mike, EMNRD

From: Tanna Adams <TAdams@yatespetroleum.com>
Sent: Monday, July 27, 2015 9:37 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Dade, Randy, EMNRD
Cc: Bob Asher; Amber Cannon; Chase Settle; Katie Parker; Veronica Alvarado
Subject: Bryan ME #1 C141
Attachments: Bryan ME #1_C141_Initial_071115.pdf

Good morning,

Please find attached the signed C141 Initial for the below listed location:

Bryan ME #1
 30-015-23097
 Section 33, T18S-R26E
 1650 FNL & 2310 FWL
 Eddy County, New Mexico

Thank you,

Tanna Adams

Yates Petroleum Corporation
 Environmental Technician
 Environmental Department
 Office: (575) 748-4184
 TAdams@yatespetroleum.com



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Bratcher, Mike, EMNRD

From: Bob Asher <BobA@yatespetroleum.com>
Sent: Saturday, July 11, 2015 5:36 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Dade, Randy, EMNRD
Cc: IncidentReportingNM; Amber Cannon; Chase Settle; Katie Parker; Tanna Adams; Veronica Alvarado
Subject: Release Notification (Bryan ME #1)

Yates Petroleum Corporation is reporting a release at the following location (7/11/2015, 4:15 PM).

Bryan ME #1
 30-015-23097
 Section 33, T18S-R26E
 1650 FNL & 2310 FWL
 Eddy County, New Mexico

Released: Approximately 30 B/PW; Recovered: In Progress.

Cause of the release was from a hole in the casing. The released produced water is being contained on the location. Vacuum truck(s) are being called.
 A Form C-141 with complete information will be submitted.

Thank you.

Robert Asher
NM Environmental Regulatory Supervisor
Yates Petroleum Corporation
 105 S. 4th Street
 Artesia, NM 88210
 575-748-4217 (Office)
 575-365-4021 (Cell)

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From: [Amber Griffin](#)
To: [Patterson, Heather, EMNRD](#); [Bratcher, Mike, EMNRD](#)
Subject: Bryan ME #1 (2RP-3164)
Date: Monday, April 04, 2016 3:30:06 PM
Attachments: BryanME1_WorkPlan_040416.pdf

Heather/Mike,

Please find attached a work plan for the release that occurred at the Bryan ME #1 on July 11, 2015 (2RP-3164).

Should you have any questions or comments, please let me know.

Thank you,

Amber Griffin

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

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MARTIN YATES, III
1912-1908

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471
www.yatespetroleum.com

JOHN A. YATES
CHAIRMAN EMERITUS
JOHN A. YATES JR.
CHAIRMAN OF THE BOARD
DOUGLAS E. BROOKS
PRESIDENT
CHIEF EXECUTIVE OFFICER
JOHN D. PERINI
CHIEF FINANCIAL OFFICER

April 4, 2016

Mr. Mike Bratcher or Ms. Heather Patterson
NMOCD District II
811 South First
Artesia, NM 88210

RE: Bryan ME #1
30-015-23097
Section 33, T18S-R26E
Eddy County, New Mexico

Mr. Bratcher or Ms. Patterson,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on July 11, 2015 (2RP-3164). The release was 15 barrels of produced water with 10 barrels of produced water recovered.

With NMOCD approval of this work plan, Yates will hold a bid meeting allowing several contractors the opportunity to submit bids on this remediation project. Bids that are received will be forwarded to Yates Management for review. Once Yates Management reviews the bids and gives approval, the remediation project will be awarded to a contractor for work to commence.

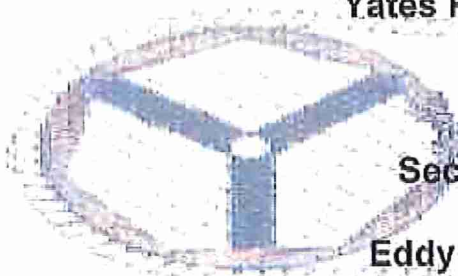
If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at agriffin@yatespetroleum.com.

Thank You,

Amber Griffin
Environmental Regulatory Agent
Yates Petroleum Corporation

KATHY H. PORTER
SECRETARY

JAMES D. SCHAFER
TREASURER



Yates Petroleum Corporation

Bryan ME #1

Section 33, T18S-R26E

Eddy County, New Mexico

April 4, 2016

I. Location

The release area is located approximately 9.1 miles south of Artesia, NM on Highway 285, 0.6 miles east of Highway 285 on Kincaid Ranch Road and 0.5 miles south of Kincaid Ranch Road on a lease road.

II. Background

On July 11, 2015, Yates had a release of 15 barrels produced water with 10 barrels produced water recovered. The area affected from this release was to the north of the wellhead/pumpjack and is approximately 30' x 40'. At the time of the release, the area was bermed to prevent the release from spreading. An initial Form C-141 was submitted, via e-mail, to the NMOCD District II on July 27, 2015.

On July 15, 2015 Yates visited the site and collected an initial soil sample from the surface using a shovel. The surface soil sample was sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M, and Chlorides 300.0. Yates received the analytical results on July 24, 2015 (Report 1507792 attached to this work plan). The analytical results showed that both BTEX and TPH were at levels below NMOCD RRA's. The analytical results also showed elevated chloride levels, and Yates determined that further vertical delineation of chlorides was needed.

Yates returned to the site again on September 10, 2015 and November 3, 2015 and collected soils samples from the depths of 1' - 8', 10', 12' and 14' below the surface level using a backhoe. Yates received the analytical results on September 28, 2015, October 12, 2015 and November 17, 2015 (Reports 1509894, 1510101 and 1511272 attached to this work plan). Analytical results from these sampling events showed that chloride levels were still elevated.

Yates returned to the site on February 24, 2016 and collected soils samples from the depths of 16', 18' and 20' below the surface level using a trackhoe. Yates received the analytical results on March 4, 2016 (Report 1602B44 attached to this work plan). Analytical results show chloride levels finally delineating to acceptable levels.

III. Surface and Ground Water

Area surface geology is Cenozoic. The ChevronTexaco depth to ground water map shows the depth to groundwater to be approximately 75' feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the following:

Depth to ground water	50-99'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are caliche and clay seams.

V. Scope of Work

Based off the analytical reports which show complete vertical delineation, Yates proposes to excavate 3' from the release area. The excavation will be approximately 40' long, 30' wide. Once all soils have been excavated, a 20 mil synthetic liner will be placed in the bottom of the excavation. The backfill process of the excavation will then be completed with topsoil.

Contaminated soils that are excavated will be hauled to a NMOCD approved disposal facility – R360 Environmental Solutions Halfway Facility located on Highway 62/180.

Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD requesting closure of this release.



Google earth



Bryan ME #1

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Bryan 1 - Surface	Release Area	7/15/2015	1507792	Grab/Shovel	Surface	ND	ND	ND	ND	7,700
Bryan 1 - 1'	Release Area	9/10/2015	1509894	Grab/Backhoe	1'	-	-	-	-	2,000
Bryan 1 - 2'	Release Area	9/10/2015	1509894	Grab/Backhoe	2'	-	-	-	-	1,800
Bryan 1 - 3'	Release Area	9/10/2015	1509894	Grab/Backhoe	3'	-	-	-	-	2,700
Bryan 1 - 4'	Release Area	9/10/2015	1510101	Grab/Backhoe	4'	-	-	-	-	1,700
Bryan 1 - 5'	Release Area	9/10/2015	1510101	Grab/Backhoe	5'	-	-	-	-	1,900
Bryan 1 - 6'	Release Area	9/10/2015	1510101	Grab/Backhoe	6'	-	-	-	-	1,800
Bryan 1 - 7'	Release Area	11/3/2015	1511272	Grab/Backhoe	7'	-	-	-	-	5,300
Bryan 1 - 8'	Release Area	11/3/2015	1511272	Grab/Backhoe	8'	-	-	-	-	8,200
Bryan 1 - 10'	Release Area	11/3/2015	1511272	Grab/Backhoe	10'	-	-	-	-	8,500
Bryan 1 - 12'	Release Area	11/3/2015	1511272	Grab/Backhoe	12'	-	-	-	-	5,700
Bryan 1 - 14'	Release Area	11/3/2015	1511272	Grab/Backhoe	14'	-	-	-	-	4,100
Bryan 1 - 16'	Release Area	2/24/2016	1502844	Grab/Backhoe	16'	-	-	-	-	1,100
Bryan 1 - 18'	Release Area	2/24/2016	1502844	Grab/Backhoe	18'	-	-	-	-	540
Bryan 1 - 20'	Release Area	2/24/2016	1502844	Grab/Backhoe	20'	-	-	-	-	490

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 75', per Chevron/Texasco Trend Map).

All results are ppm.

Released: 15 B/PW; Recovered: 10 B/PW. Release Date: 7/11/2015. 2RP-3164



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

July 24, 2015

Amber Griffin
Yates Petroleum
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Bryan ME #1

OrderNo.: 1507792

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/17/2015 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
 Lab Order 1507792
 Date Reported: 7/24/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum

Client Sample ID: Bryan I - Surface

Project: Bryan ME #1

Collection Date: 7/15/2015 12:50:00 PM

Lab ID: 1507792-001

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/22/2015 11:18:52 AM	20309
Surf: DNOP	102	57.9-140		%REC	1	7/22/2015 11:18:52 AM	20309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/20/2015 3:38:32 PM	20306
Surf: BFB	92.3	75.4-113		%REC	1	7/20/2015 3:38:32 PM	20306
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	7/20/2015 3:38:32 PM	20306
Toluene	ND	0.048		mg/Kg	1	7/20/2015 3:38:32 PM	20306
Ethylbenzene	ND	0.048		mg/Kg	1	7/20/2015 3:38:32 PM	20306
Xylenes, Total	ND	0.096		mg/Kg	1	7/20/2015 3:38:32 PM	20306
Surf: 4-Bromofluorobenzene	101	80-120		%REC	1	7/20/2015 3:38:32 PM	20306

Refer to the QC Summary report and sample log-in 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 RSD limit	P Sample pH Not in Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Page 1 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507792

24-Jul-15

Client: Yates Petroleum

Project: Bryan ME #1

Sample ID: MB-20309	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 20309	RunNo: 27634								
Prep Date: 7/17/2015	Analysis Date: 7/21/2015	SeqNo: 830062 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Sur: DNOP	10		10.00		103	57.9	140			

Sample ID	LCS-20309	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	20309	RunNo:	27634					
Prep Date:	7/17/2015	Analysis Date:	7/21/2015	SeqNo:	830063	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	51	10	50.00	0	102	57.4	139			
Sur: DNOP	5.0		5.000		100	57.9	140			

Sample ID: MB-20378	Sample Type: MBLK	Test Code: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 20378	Run No: 27701								
Prep Date: 7/22/2015	Analysis Date: 7/23/2015	Seq No: 833319 Units: %REC								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual

Sur: DNOP	11		10.00		109	57.9	140			
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Sample ID	LCS-20378	Sample Type:	LCS	Test Code:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	20378	Run No:	27701					
Prep Date:	7/22/2015	Analysis Date:	7/23/2015	Seq No:	833320	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual

Sur: DNOP	7.3		5.000		147	57.9	140			S
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Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation limits
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- 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
- REL Reporting Detection Limit

Page 2 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507792

24-Jul-15

Client: Yates Petroleum

Project: Bryan ME #1

Sample ID: MB-20306	Sample Type: MBLK	Test Code: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 20306	Run No: 27604								
Prep Date: 7/17/2015	Analysis Date: 7/20/2015	Seq No: 829377 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual

Gasoline Range Organics (GRO)	ND	5.0								
Sum: BFB	810		1000		90.7	75.4	113			

Sample ID	LCS-20306	Sample Type:	LCS	Test Code:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	20306	Run No:	27604					
Prep Date:	7/17/2015	Analysis Date:	7/20/2015	Seq No:	829378	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.1	78.5	122			
Sum: BFB	980		1000		98.1	75.4	113			

Sample ID	MB-20308	SampType	MBLK		TestCode	EPA Method 8015D: Gasoline Range				
Client ID	PBS	Batch ID	20308		RunNo	27604				
Prep Date	7/17/2015	Analysis Date	7/20/2015		SeqNo	829387		Units	%REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sum: BFB	900		1000		90.4	75.4	113			
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Sample ID: LCS-20308	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 20308	RunNo: 27604								
Prep Date: 7/17/2015	Analysis Date: 7/20/2015	SeqNo: 829388 Unks: %REC								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDUmit	Qual

Sum: BFB	990		1000		98.5	75.4	113			
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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 RSD limit | P Sample pH Not in Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Page 3 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507792

24-Jul-15

Client: Yates Petroleum

Project: Bryan ME #1

Sample ID	MB-20306	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	20306	RunNo:	27604					
Prep Date:	7/17/2015	Analysis Date:	7/20/2015	SeqNo:	829405	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								
Sum: 4-Bromofluorobenzene	0.97		1.000		96.9	80	120			

Sample ID	LCS-20306	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	20306	RunNo:	27604					
Prep Date:	7/17/2015	Analysis Date:	7/20/2015	SeqNo:	829406	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.0	76.6	126			
Toluene	0.97	0.050	1.000	0	96.9	75	124			
Ethylbenzene	0.99	0.050	1.000	0	96.7	79.5	126			
Xylenes, Total	2.9	0.10	3.000	0	96.1	78.8	124			
Sum: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID: MB-20308	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 20308	RunNo: 27604								
Prep Date: 7/17/2015	Analysis Date: 7/20/2015	SeqNo: 829414								
		Units: %REC								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sum: 4-Bromofluorobenzene	0.97		1.000		96.8	80	120			

Sample ID	LCS-20308	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	20308	RunNo:	27604					
Prep Date:	7/17/2015	Analysis Date:	7/20/2015	SeqNo:	829418	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sum: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- F Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- 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

Page 4 of 4



Hall Environmental Analysis Laboratory
 1901 Hickory NL
 Albuquerque, NM 87109
 TEL: 505-315-3975 FAX: 505-315-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name Yates Petroleum Corpora

Work Order Number: 1507702

RcptNo 1

Received by/date:

CS

07/17/15

Logged By Collina Soosa

7/17/2015 10:00:00 AM

Collina Soosa

Completed By Collina Soosa

7/17/2015 11:20:02 AM

Collina Soosa

Reviewed By

EO

07/17/15

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?

Courier

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 ☒

of preserved
bottles checked
for pH:

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

Adjusted?

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

Checked by:

(If no, notify customer for authorization.)

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date

By Whom:

Via

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

17. Additional remarks

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.



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

July 24, 2015

Amber Griffin
Yates Petroleum
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Bryan ME #1

OrderNo.: 1507792

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/17/2015 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
 Lab Order 1507792
 Date Reported: 7/24/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum

Client Sample ID: Bryan 1 - Surface

Project: Bryan ME #1

Collection Date: 7/15/2015 12:50:00 PM

Lab ID: 1507792-001

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	7700	300		mg/Kg	200	7/23/2015 3:58:02 PM	20356

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

Qualifiers:	A	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	Page 1 of 1
	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 RSD limit	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
1901 Hawk Ave. NE
Albuquerque, NM 87109
TEL: 505.345.3015 FAX: 505.345.4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1507702

Rep No: 1

Received by/date:

CS

07/17/15

Logged By: Collina Boasa

7/17/2015 10:00:00 AM

Collina Boasa

Completed By: Collina Boasa

7/17/2015 11:28:02 AM

Collina Boasa

Reviewed By: IO

07/17/15

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? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 ☐ # of preserved bottles checked for pH: (≤2 or ≥12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
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 ☐ Checked by:

Special Handling (If applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Mailing Address:

105 South 4th Street Artesia, NM 88210

Phone #: 575-513-8799 or 575-748-4111

e-mail or Fax: acannon@yatespetroleum.com

CA/QC Package:

☐ Standard ☐ Level 2 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type) _____

Turn-Around Time:	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
Project Name:	Bryan ME #1	
Project #:	30-015-23097	
Project Manager:	Amber Griffin	
	PO # 205-2020	
Sampler:	Amber Griffin	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Sample Temperature:	1.0° C	

Container Type and #	Preservative Type	HEAL No.
		1507702

1-207	ice	100-
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[illegible][illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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[illegible][illegible][illegible][illegible][illegible]

Received by:	Date	Time

Received by	Date	Time
Chlorine	2/17/15	1022

connected to other associated locations. The server is notified of the



4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks: TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chloride results on a separate report.

THE ABOVE INFORMATION IS NOT TO BE RELEASED TO THE PUBLIC. ANY CONTINUED DATA WILL BE CLEARLY MARKED TO THE PUBLIC. ANY CONTINUED DATA WILL BE CLEARLY MARKED TO THE PUBLIC.



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

September 28, 2015

Amber Griffin

Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Bryan ME #1

OrderNo.: 1509894

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/18/2015 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'.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
 Lab Order 1509894
 Date Reported: 9/28/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: Bryan 1 - 1'

Project: Bryan ME #1

Collection Date: 9/10/2015 9:35:00 AM

Lab ID: 1509894-001

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2000	75		mg/Kg	50	9/24/2015 6:48:20 AM	21444

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level	H	Analyte detected in the associated Method Blank	Page 1 of 4
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Analytical Report

Lab Order 1509894

Date Reported: 9/28/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: Bryan I - 2'

Project: Bryan ME #1

Collection Date: 9/10/2015 9:40:00 AM

Lab ID: 1509894-002

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1800	75		mg/Kg	50	9/24/2015 7:00:45 AM	21444

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	D	Analyte detected in the associated Method Blank	Page 2 of 4
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not in Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Analytical Report

Lab Order 1509894

Date Reported: 9/28/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: Bryan 1 - 3'

Project: Bryan ME #1

Collection Date: 9/10/2015 9:45:00 AM

Lab ID: 1509894-003

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DT	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2700	75		mg/Kg	50	9/24/2015 7:13:10 AM	21444

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	Page 3 of 4
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RI	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509894

28-Sep-15

Client: Yates Petroleum Corporation
Project: Bryan ME #1

Sample ID: MB-21444	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 21444	RunNo: 29028								
Prep Date: 9/22/2015	Analysis Date: 9/22/2015	SeqNo: 880818 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21444	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	21444	RunNo:	29028					
Prep Date:	9/22/2015	Analysis Date:	9/22/2015	SeqNo:	880819	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- 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: Yates Petroleum Corporal

Work Order Number: 1508884

Rep/No: 1

Received by/date:

Logged By: Lindsey Mangin

09/18/15
9/18/2015 9:21:00 AM

Completed By: Lindsey Mangin

9/18/2015 2:24:20 PM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles?
2. Is Chain of Custody complete?
3. How was the sample delivered?

Yes ☒

No ☐

Not Present ☐

Yes ☒

No ☐

Not Present ☐

Courier

Log In

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

Yes ☒

No ☐

NA ☐

Yes ☒

No ☐

NA ☐

Yes ☒

No ☐

Yes ☒

No ☐

Yes ☒

No ☐

Yes ☐

No ☒

NA ☐

Yes ☐

No ☐

No VOA Vials ☒

Yes ☐

No ☒

of preserved
bottles checked
for pH:

Yes ☒

No ☐

(<2 or >12 unless noted)

Yes ☒

No ☐

Adjusted?

Yes ☒

No ☐

Yes ☒

No ☐

Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.2	Good	Yes			

Chain-of-Custody Record

Client:	Yates Petroleum Corporation
Mailing Address:	105 South 4th Street Artesia, NM 88210
Phone #:	575-513-8789 or 575-748-4111
email or Fax#:	agrlin@yatespetroleum.com
Q/A/QC Packages:	
<input type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)
Accreditation:	
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____
<input type="checkbox"/> EDD (Type) _____	

[illegible]

Turn-Around Time:	
X Standard <input type="checkbox"/> Rush	
Project Name:	Bryan ME #1
Project #:	2RP-3164
Project Manager:	Amber Griffin PO # 205-2020

Sampler:	Amber Griffin	AG
On-Hold:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Sample Temperature:	53	99-12

Container Type and #	Preservative a Type	HEAL No: 15007894
-------------------------	------------------------	----------------------

1 - 4oz	None	-001
1 - 4oz	None	-002
1 - 4oz	None	-003

[illegible][illegible][illegible]

Received by:	Date	Time
<i>[Signature]</i>	09/18/15	0921
Released by:	Date	Time

submitted to other accredited laboratories. (This serves as notice of the



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975
Fax 505-345-4107

Analysis Request

[illegible]

Remarks: Chloride Only;

any and all information that may be required for the purpose of the contract. The service is subject to the terms and conditions of the contract. Any and all information that may be required for the purpose of the contract. The service is subject to the terms and conditions of the contract.



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

October 12, 2015

Amber Griffin

Yates Petroleum Corporation

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Bryan ME #1

OrderNo.: 1510101

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/2/2015 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1510101

Date Reported: 10/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Bryan ME #1

Lab Order: 1510101

Lab ID: 1510101-001

Collection Date: 9/10/2015 9:50:00 AM

Client Sample ID: Bryan 1-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1700	75		mg/Kg	50	10/8/2015 2:26:57 AM	21662

Lab ID: 1510101-002

Collection Date: 9/10/2015 9:55:00 AM

Client Sample ID: Bryan 1-5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1900	75		mg/Kg	50	10/8/2015 2:39:22 AM	21662

Lab ID: 1510101-003

Collection Date: 9/10/2015 10:00:00 AM

Client Sample ID: Bryan 1-6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1800	75		mg/Kg	50	10/8/2015 3:16:36 AM	21662

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	Page 1 of 2
D	Sample Diluted Due to Matrix	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	P Sample pH Not In Range	
R	RPD outside accepted recovery limits	RL Reporting Detection Limit	
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510101

12-Oct-15

Client: Yates Petroleum Corporation

Project: Bryan ME #1

Sample ID	MB-21662	SamplType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS	Batch ID:	21662		RunNo:	29327				
Prep Date:	10/5/2015	Analysis Date:	10/5/2015		SeqNo:	891488	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-21662	SampleType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 21662	RunNo: 29327								
Prep Date: 10/5/2015	Analysis Date: 10/5/2015	SeqNo: 891487 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	83.3	80	110			

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RL Reporting Detection Limit

Page 2 of 2



Hall Environmental Analysis Laboratory
 1901 Hickory St.
 Albuquerque, NM 87109
 TEL: 505-345-1975 FAX: 505-345-1707
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1510101

Rep/No: 1

Received by/Date:

Lugged By Lindsay Manglin

10/2/2015 9:40:00 AM

Completed By Lindsay Manglin

10/2/2015 7:41:41 AM

Reviewed By

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? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6°C ? Yes ☐ No ☒ NA ☐
Approved by client
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 ☒ # of preserved bottles checked for pH: ☐
 (≤2 or ≥12 unless noted)
12. Does paperwork match bottle labels? Yes ☒ No ☐ Adjusted? ☐
 (Note discrepancies on chain of custody)
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? Yes ☒ No ☐ Checked by: ☐
 (If no, notify customer for authorization.)

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person ☐
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	14.4	Good	Yes			

Chain-of-Custody Record

Chain-of-Custody Record		Turn-Around Time:
Client: Yates Petroleum Corporation		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Mailing Address:		Project Name:
105 South 4th Street Artesia, NM 88210		Bryan ME #1
Phone #: 575-513-8799 or 575-748-4111		Project #:
email or Fax#: agriffin@yatespetroleum.com		Project Manager:
QA/QC Package:		Amber Griffin
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		PO # 205-2020
Accreditation:		Sampler:
<input type="checkbox"/> NELAP <input type="checkbox"/> Other		Or Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> EDO (Type)		Sample Temperature: 77 °F



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenviromental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks: Chloride Only:

Date:	Time:	Reinforced by:	Resolved by:	Date:	Time:
10/11/15		Paul Andrew Girden	Paul Andrew Girden	11/6/15	0340
Date:	Time:	Reinforced by:	Resolved by:	Date:	Time:

manuscript, and the submitted version will be clearly marked as the author's final manuscript. All manuscripts are submitted to peer-reviewed journals. The review process will be clearly marked as the author's final manuscript.



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

November 17, 2015

Amber Griffin

Yates Petroleum Corporation

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Bryan ME #1

OrderNo.: 1511272

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/6/2015 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'.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1511272

Date Reported: 11/17/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Bryan ME #1

Lab Order: 1511272

Lab ID: 1511272-001

Collection Date: 11/3/2015 9:56:00 AM

Client Sample ID: Bryan 1-7'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride

5300

300

mg/Kg

200 11/14/2015 1:53:54 AM 22299

Lab ID: 1511272-002

Collection Date: 11/3/2015 9:59:00 AM

Client Sample ID: Bryan 1-8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride

8200

750

mg/Kg

500 11/14/2015 2:08:20 AM 22299

Lab ID: 1511272-003

Collection Date: 11/3/2015 10:04:00 AM

Client Sample ID: Bryan 1-10'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride

8500

750

mg/Kg

500 11/14/2015 2:18:45 AM 22299

Lab ID: 1511272-004

Collection Date: 11/3/2015 10:10:00 AM

Client Sample ID: Bryan 1-12'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride

5700

300

mg/Kg

200 11/14/2015 2:31:09 AM 22299

Lab ID: 1511272-005

Collection Date: 11/3/2015 10:17:00 AM

Client Sample ID: Bryan 1-14'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride

4100

150

mg/Kg

100 11/14/2015 2:43:33 AM 22299

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	Page 1 of 2
	D Sample Diluted Due to Matrix	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	P Sample pH Not in Range	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S % Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511272

17-Nov-15

Client: Yates Petroleum Corporation

Project: Bryan ME #1

Sample ID	MB-22299	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	22299	RunNo:	30193					
Prep Date:	11/11/2015	Analysis Date:	11/11/2015	SeqNo:	919916	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22299	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	22299	RunNo:	30193					
Prep Date:	11/11/2015	Analysis Date:	11/11/2015	SeqNo:	919917	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.9	80	110			

Sample ID	MB-22299	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	22299	RunNo:	30221					
Prep Date:	11/11/2015	Analysis Date:	11/12/2015	SeqNo:	920917	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22299	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	22299	RunNo:	30221					
Prep Date:	11/11/2015	Analysis Date:	11/12/2015	SeqNo:	920918	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	80	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- 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: **Yates Petroleum Corporat**

Work Order Number: **1511272**

ReplNo: 1

Received by/date:

SA

11/06/15

Logged By:

Lindsay Mangin

11/8/2016 8:35:00 AM

Completed By:

Lindsay Mangin

11/8/2016 12:21:55 PM

Reviewed By:

SA

11/06/15

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?

Courier

SA 11/06/15

Log In

4. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 8.0°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 ☒

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

Adjusted?

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

Checked by:

(If no, notify customer for authorization.)

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	5.3	Good	Yes			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Mailing Address:

105 South 4th Street Artesia, NM 88210

Phone # 575-613-8799 or 575-748-4111

email or Fax#: agrimin@yatespetroleum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDO (Type) _____

Turn-Around Time:	
X Standard	<input type="checkbox"/> Rush
Project Name:	Bryan ME #1
Project #:	2RP3164

Project Manager:	Amber Griffin
	PO # 205-2020
Sampler:	Amber Griffin AG
DATE: 11/15/2020	TIME: 11:00
Sample Location:	7

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAT No.
11/3/2015	9:56	Soil	Bryan 1 - 7'	1 - 4oz.	None	-001
11/3/2015	9:59	Soil	Bryan 1 - 8'	1 - 4oz.	None	-002
11/3/2015	10:04	Soil	Bryan 1 - 10'	1 - 4oz.	None	-003
11/3/2015	10:10	Soil	Bryan 1 - 12'	1 - 4oz.	None	-004
11/3/2015	10:17	Soil	Bryan 1 - 14'	1 - 4oz.	None	-005

HALL ENVIRONMENTAL ANALYSIS LABORATORY		www.hallenvironmental.com		4901 Hawkins NE - Albuquerque, NM 87109		Tel 505-345-3975 Fax 505-345-4107	
BTX + MTBE + TMB's (8021)							
BTX + MTBE + TPH (Gas only)							
TPH Method 8015B (Gas/Diesel)							
TPH (Method 418.1)							
EDB (Method 504.1)							
8310 (PMA or PAH)							
RCRA 8 Metals							
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	X	X	X	X	X	X	X
8081 Pesticides / 8082 PCB's							
8260B (VOA)							
8270 (Semi-VOA)							
Air Bubbles (Y or N)							

Date:	11/5/15	Time:	8:00 A	Relinquished by:	Amber Griffin	Received by:	Jay DePoe	Date:	11/6/15	Time:	0935
Date:		Time:		Relinquished by:		Received by:		Date:		Time:	

If necessary, samples submitted to Hill Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4187
Website: www.hallenvironmental.com

March 04, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Bryan ME #1

OrderNo.: 1602B44

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/26/2016 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1602B44

Date Reported: 3/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Bryan ME #1

Lab Order: 1602B44

Lab ID: 1602B44-001

Collection Date: 2/24/2016 8:40:00 AM

Client Sample ID: Bryan 1-16

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	1100	30		mg/Kg	20	3/3/2016 6:45:47 PM	24065

Lab ID: 1602B44-002

Collection Date: 2/24/2016 8:47:00 AM

Client Sample ID: Bryan 1-18

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	540	30		mg/Kg	20	3/3/2016 6:58:12 PM	24065

Lab ID: 1602B44-003

Collection Date: 2/24/2016 8:56:00 AM

Client Sample ID: Bryan 1-20

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	480	30		mg/Kg	20	3/3/2016 7:10:37 PM	24065

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	Page 1 of 2
D Sample Diluted Due to Matrix	H 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	P Sample pH Not in Range		
R RPD outside accepted recovery limits	RL Reporting Detection Limit		
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B44

04-Mar-16

Client: Yates Petroleum Corporation

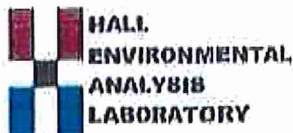
Project: Bryan ME #1

Sample ID	MB-24065	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	24065	RunNo:	32563					
Prep Date:	3/3/2016	Analysis Date:	3/3/2016	SeqNo:	996302	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-24065	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 24065	RunNo: 32563								
Prep Date: 3/3/2016	Analysis Date: 3/3/2016	SeqNo: 996303 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | 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 | P Sample pH Not in Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Hall Environmental Analysis Laboratory
1901 Hawkins St.
Albuquerque, NM 87109
TEL: 505-349-3975 FAX: 505-345-1102
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora Work Order Number: 1002B44 RptlNo: 1

Received by date:

Logged By: Ashley Gallegos 2/26/2016 8:55:00 AM

Completed By: Ashley Gallegos 2/26/2016 3:08:00 PM

Reviewed By: *[Signature]*

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? Carrie

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $\geq 0^{\circ}\text{C}$ to 6°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 ☒ # of preserved bottles checked for pH ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐ (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met? Yes ☒ No ☐ Checked by: ☐

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

17. Additional remarks

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Yes			

Chain-of-Custody Record

Client	Yates Petroleum Corporation
Mailing Address:	
	105 South 4th Street Artesia, NM 88210
Phone #:	575-513-8799 or 575-748-4111
Email or Fax#:	agrimin@yatespetroleum.com
QA/QC Package:	
<input type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)
Accreditation:	
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____
<input type="checkbox"/> EDD (Type)	

Hurry-Around Time:	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
Project Name:	
Bryan ME #1	
Project #:	
ZRP-3184	
Project Manager:	
Amber Griffin	
PO # 205-2020	
Sampler:	Amber Griffin AB
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Temperature: 3.2	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.nallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks: Chloride Only.

Received by:	Date	Time
<i>Jim Kent</i>	<i>02/26/16</i>	<i>0855</i>

Date:	Time:	Refiniquished by:
2/25/14	5:00 PM	Andrew Givertin

This cannot be an indication of the possibility of a sub-contradictory data will be a very valuable asset.

From: Patterson, Heather, EMNRD
To: ["Amber Griffin"; Bratcher, Mike, EMNRD](#)
Subject: RE: Bryan ME #1 (2RP-3164)
Date: Wednesday, April 06, 2016 11:06:00 AM

RE: Yates Petroleum * Bryan ME #1 * 30-015-23097 * 2RP-3164

Amber,

Thank you for the vertical delineation at this location. Your work plan is approved with a few exceptions. For liner protection, the OCD would like a four foot excavation. Also, as it appears you may have discovered some historic contamination, the OCD requests sidewall confirmation samples at time of closure. These samples should display chloride levels at 800 mg/kg or less, and may be done with field screens if Yates prefers.

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

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [mailto:AGriffin@yatespetroleum.com]
Sent: Monday, April 04, 2016 3:27 PM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD
Subject: Bryan ME #1 (2RP-3164)

Heather/Mike,

Please find attached a work plan for the release that occurred at the Bryan ME #1 on July 11, 2015 (2RP-3164).

Should you have any questions or comments, please let me know.

Thank you,

Amber Griffin

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

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From: [Amber Griffin](#)
To: [Patterson, Heather, EMNRD](#); [Bratcher, Mike, EMNRD](#)
Cc: [Katie Parker](#); [Bob Asher](#)
Subject: RE: Bryan ME #1 (2RP-3164)
Date: Thursday, April 07, 2016 2:29:11 PM

Heather,

Yates' Management has considered your exceptions for the Bryan ME #1 work plan.

- 1 – Yates agrees to excavate the area to a depth of 4' to ensure liner protection.
- 2 – Yates agrees to complete sidewall sampling on three sidewalls (south, east and north walls) of the excavation. The 4th sidewall (west) is on the side of the historical drilling pit at the location. This pit would have been closed under the NMOCD requirements/standards that existed at that time, and we do not want to disturb a closed pit.

Thank you,
 Amber

From: Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]
Sent: Wednesday, April 06, 2016 11:07 AM
To: Amber Griffin; Bratcher, Mike, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)

RE: Yates Petroleum * Bryan ME #1 * 30-015-23097 * 2RP-3164

Amber,

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Subject: Bryan ME #1 (2RP-3164)

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From: Patterson, Heather, EMNRD
To: ["Amber Griffin"](#)
Cc: [Katie Parker](#); [Bob Asher](#); [Bratcher, Mike, EMNRD](#)
Subject: RE: Bryan ME #1 (2RP-3164)
Date: Monday, April 18, 2016 8:35:00 AM

Amber,

Please go ahead and pull that west side sample for OCD review.

Thank you,

Heather Patterson
 Environmental Specialist
 NMOCD District II
 Office (575)748-1283 ext.101
 Cell (575)703-0228

From: Amber Griffin [mailto:AGriffin@yatespetroleum.com]
Sent: Thursday, April 07, 2016 2:29 PM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD
Cc: Katie Parker; Bob Asher
Subject: RE: Bryan ME #1 (2RP 3164)

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Thank you,
 Amber

From: Patterson, Heather, EMNRD [mailto:Heather.Patterson@state.nm.us]
Sent: Wednesday, April 06, 2016 11:07 AM
To: Amber Griffin; Bratcher, Mike, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)

RE: Yates Petroleum # Bryan ME #1 * 30-015-23097 * 2RP-3164

Amber,

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Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

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Environmental Regulatory Agent
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Office: (575) 748-4111
Cell: (575) 513-8799

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From: [Amber Griffin](#)
To: [Patterson, Heather, EMNRD](#)
Cc: [Bob Asher](#); [Katie Parker](#); [Chase Settle](#)
Subject: FW: Bryan ME #1 (2RP-3164)
Date: Thursday, June 23, 2016 8:57:36 AM

Heather,

The Bryan ME #1 has been excavated to 4' below the surface level. As requested by NMOCD, Yates Petroleum has also field tested the sidewalls for chlorides.

The chloride testing results were:

- East Sidewall – 564 ppm
- South Sidewall – Non-Detect
- West Sidewall – 3,792 ppm – we tested out an additional 1'-2' and found that these levels decreased to 180 ppm.
- North Sidewall – 5,708 ppm – we tested out an additional 3-4' and found that these levels decreased to 1,204 ppm.

These chloride levels are not a result of the release that occurred at this site, but rather from a drilling pit on the location. Based off of the closure standards under Pit Rule 17, Yates Petroleum requests permission to backfill the excavation. No further excavation work will be completed, but Yates will install the 20 mil liner and backfill the location as previously approved by NMOCD.

Thank you,
 Amber Griffin

From: Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]
Sent: Wednesday, April 06, 2016 11:07 AM
To: Amber Griffin; Bratcher, Mike, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)

RE: Yates Petroleum * Bryan ME #1 * 30-015-23097 * 2RP-3164

Amber,

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

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [<mailto:AGriffin@yatespetroleum.com>]
Sent: Monday, April 04, 2016 3:27 PM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD
Subject: Bryan ME #1 (2RP-3164)

Heather/Mike,

Please find attached a work plan for the release that occurred at the Bryan ME #1 on July 11, 2015 (2RP-3164).

Should you have any questions or comments, please let me know.

Thank you,

Amber Griffin

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

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From: Patterson, Heather, EMNRD
To: ["Amber Griffin"](#)
Cc: [Bob Asher](#); [Katie Parker](#); [Chase Settle](#); [Bratcher, Mike, EMNRD](#); [Baviss, Randolph, EMNRD](#)
Subject: RE: Bryan ME #1 (2RP-3164)
Date: Thursday, July 07, 2016 9:19:00 AM

Amber,

Please extend your excavation on the west side to remove contaminated soils, since this is not considered part of the pit. As for the north (pit) side, you have approval to backfill.

Please be advised that this RP may remain open until this area has achieved 70% plant cover (excluding noxious weeds). Leaving elevated chlorides in place may hinder that goal.

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Heather Patterson
 Environmental Specialist
 NMOCD District II
 Office (575)748-1283 ext.101
 Cell (575)703-0228

From: Amber Griffin [mailto:AGriffin@yatespetroleum.com]
Sent: Thursday, June 23, 2016 8:58 AM
To: Patterson, Heather, EMNRD
Cc: Bob Asher; Katie Parker; Chase Settle
Subject: FW: Bryan ME #1 (2RP-3164)

Heather,

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requests permission to backfill the excavation. No further excavation work will be completed, but Yates will install the 20 mil liner and backfill the location as previously approved by NMOCD.

Thank you,
Amber Griffin

From: Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]
Sent: Wednesday, April 06, 2016 11:07 AM
To: Amber Griffin; Bratcher, Mike, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)

RE: Yates Petroleum * Bryan ME #1 * 30-015-23097 * 2RP-3164

Amber,

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

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [<mailto:AGriffin@yatespetroleum.com>]
Sent: Monday, April 04, 2016 3:27 PM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD
Subject: Bryan ME #1 (2RP-3164)

Heather/Mike,

Please find attached a work plan for the release that occurred at the Bryan ME #1 on July 11, 2015 (2RP-3164).

Should you have any questions or comments, please let me know.

Thank you,

Amber Griffin

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

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From: [Amber Griffin](#)
To: [Patterson, Heather, EMNRD](#)
Cc: [Katie Parker](#); [Chase Settle](#); [Bratcher, Mike, EMNRD](#); [Bayliss, Randolph, EMNRD](#)
Subject: RE: Bryan ME #1 (2RP-3164)
Date: Monday, July 11, 2016 9:58:19 AM

Heather,

When this release occurred, contractors immediately bermed the release area to keep it from migrating horizontally. Yates made sure that during the excavation process we excavated outside of the bermed area to ensure that all soils contaminated by this release were excavated. The release occurred on top of the old drilling pit and the chlorides that Yates found on the west and north sidewalls are not a result of the release, but are a result of the historical drilling pit. There are multiple places near the release area where the old pit liner is visible, and that includes to the west and north of the current excavation.

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IMG_0687 – Dry hole marker showing I was at the Bryan ME #1 location.

IMG_0688 – Looking north to the excavated area from by the dry hole marker.

IMG_0589 – Looking north while inside the excavation showing the liner in the north sidewall.

IMG_0690 – Looking west while inside the excavation showing the liner in the west sidewall.

Thank you,
 Amber

From: Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]
Sent: Thursday, July 07, 2016 9:20 AM
To: Amber Griffin
Cc: Bob Asher; Katie Parker; Chase Settle; Bratcher, Mike, EMNRD; Bayliss, Randolph, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)

Amber,

Please extend your excavation on the west side to remove contaminated soils, since this is not considered part of the pit. As for the north (pit) side, you have approval to backfill.

Please be advised that this RP may remain open until this area has achieved 70% plant cover (excluding noxious weeds). Leaving elevated chlorides in place may hinder that goal.

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

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [<mailto:AGriffin@yatespetroleum.com>]

Sent: Thursday, June 23, 2016 8:58 AM

To: Patterson, Heather, EMNRD

Cc: Bob Asher; Katie Parker; Chase Settle

Subject: FW: Bryan ME #1 (2RP-3164)

Heather,

The Bryan ME #1 has been excavated to 4' below the surface level. As requested by NMOCD, Yates Petroleum has also field tested the sidewalls for chlorides.

The chloride testing results were:

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- South Sidewall – Non-Detect
- West Sidewall – 3,792 ppm – we tested out an additional 1'-2' and found that these levels decreased to 180 ppm.
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These chloride levels are not a result of the release that occurred at this site, but rather from a drilling pit on the location. Based off of the closure standards under Pit Rule 17, Yates Petroleum requests permission to backfill the excavation. No further excavation work will be completed, but Yates will install the 20 mil liner and backfill the location as previously approved by NMOCD.

Thank you,
Amber Griffin

From: Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]

Sent: Wednesday, April 06, 2016 11:07 AM

To: Amber Griffin; Bratcher, Mike, EMNRD

Subject: RE: Bryan ME #1 (2RP-3164)

RE: Yates Petroleum * Bryan ME #1 * 30-015-23097 * 2RP-3164

Amber,

Thank you for the vertical delineation at this location. Your work plan is approved with a

few exceptions. For liner protection, the OCD would like a four foot excavation. Also, as it appears you may have discovered some historic contamination, the OCD requests sidewall confirmation samples at time of closure. These samples should display chloride levels at 800 mg/kg or less, and may be done with field screens if Yates prefers.

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Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [<mailto:AGriffin@yatespetroleum.com>]
Sent: Monday, April 04, 2016 3:27 PM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD
Subject: Bryan ME #1 (2RP-3164)

Heather/Mike,

Please find attached a work plan for the release that occurred at the Bryan ME #1 on July 11, 2015 (2RP-3164).

Should you have any questions or comments, please let me know.

Thank you,

Amber Griffin

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

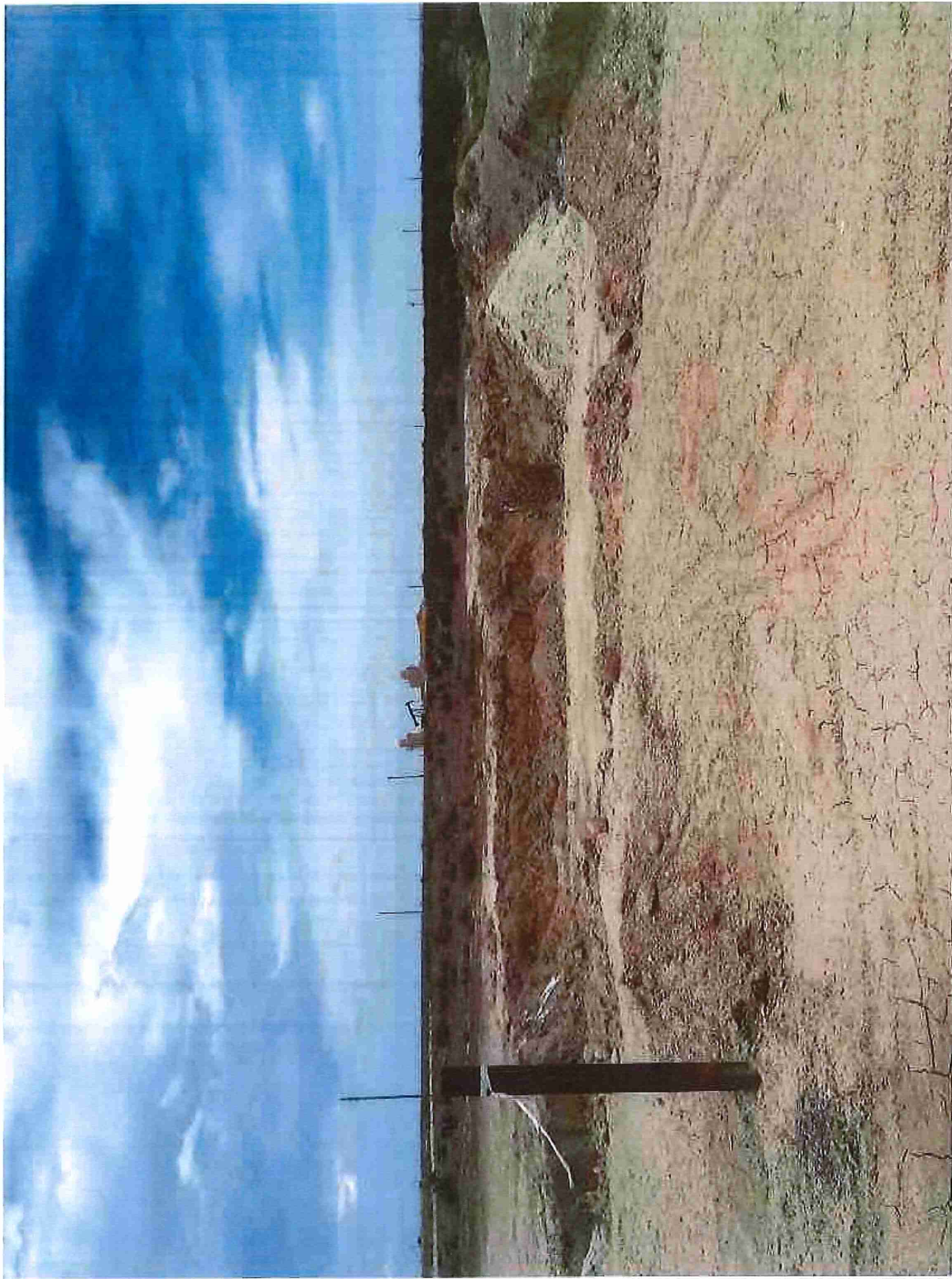
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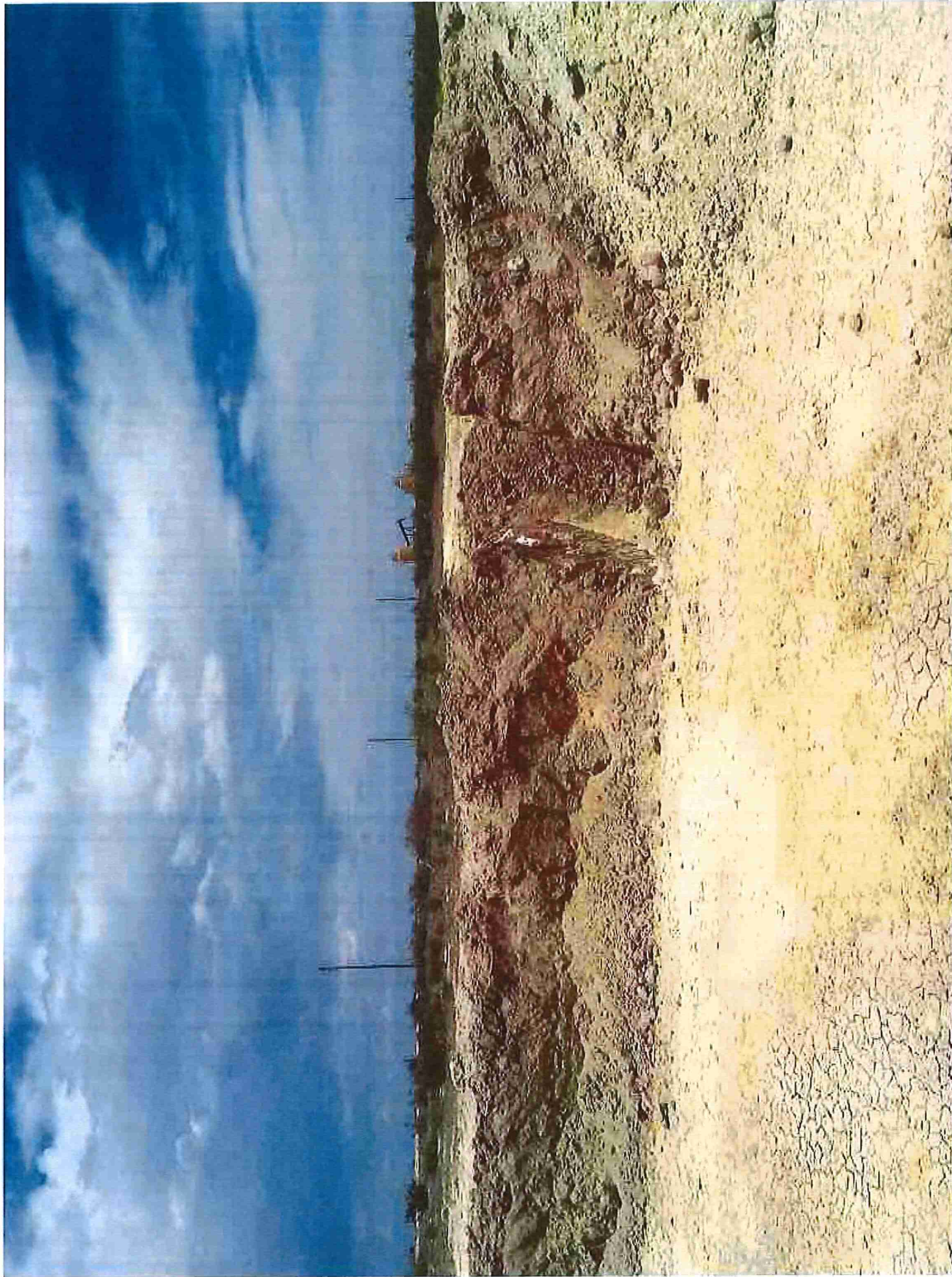
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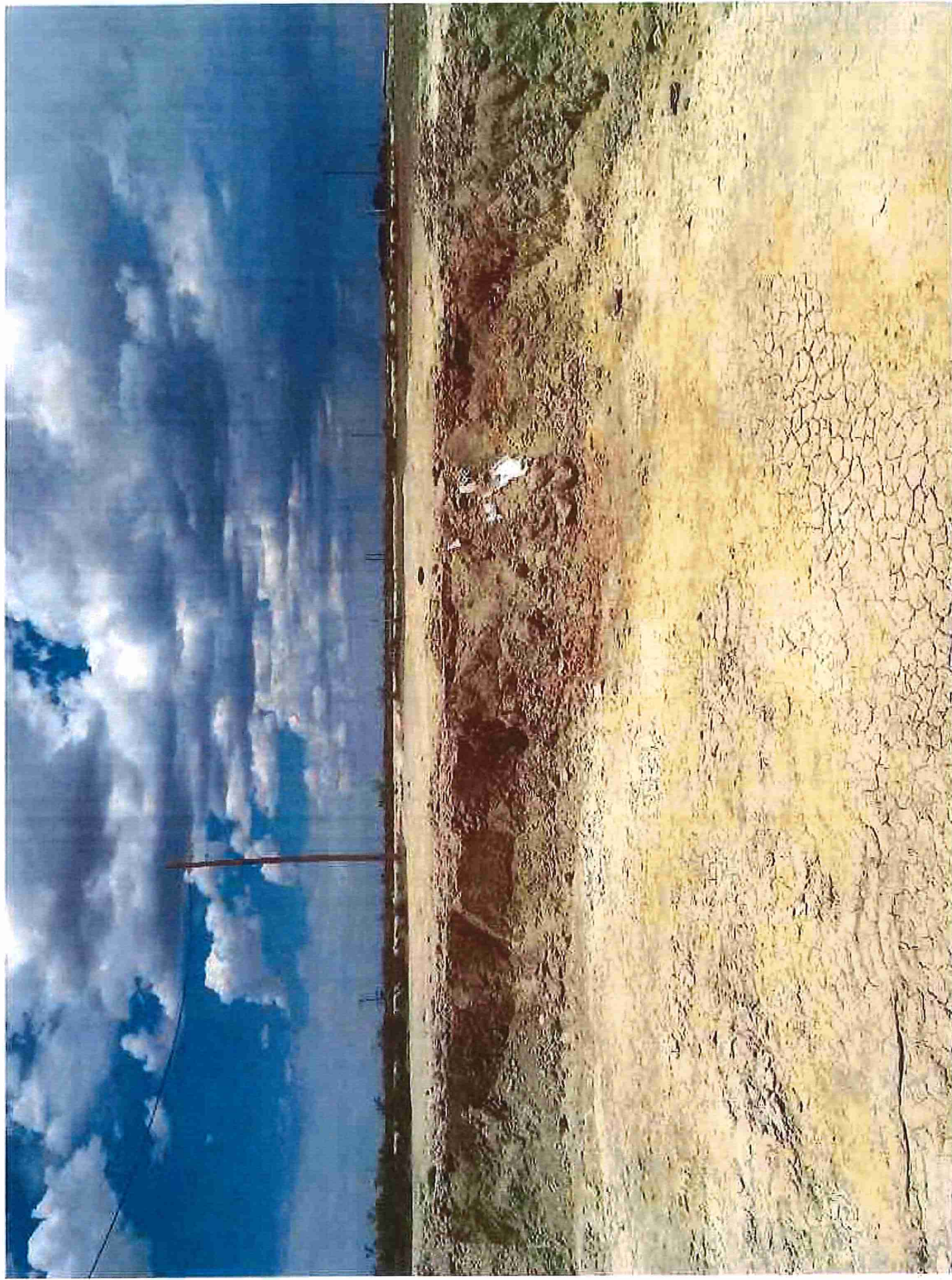
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From: Patterson, Heather, EMNRD
To: "Amber Griffin"
Cc: Katie Parker; Chase Settle; Bratcher, Mike, EMNRD; Bayliss, Randolph, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)
Date: Friday, July 15, 2016 7:11:00 AM

Amber,

After going back and reviewing emails I see that I had it backwards. I thought the pit was on the North side, but per your April 7th email, the pit is actually on the West side. Regardless, it appears that on both the north and the west sides the contamination cleans up within a few feet of your sidewalls. This appears to support the fact that this contamination is from the spill, not the pit. If you were going into the pit, your numbers should increase. But on both the West side and the North side your numbers significantly decrease as you moved outward.

That said, your pictures do seem to support some historical pit evidence. If Yates wants to use part 17 closure standards at this location (as requested in your June 23rd email), you may do so. But then I must use part 17 to close it, which does require plant growth and may drag this project on longer.

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

Heather Patterson
 Environmental Specialist
 NMOCD District II
 Office (575)748-1283 ext.101
 Cell (575)703-0228

From: Amber Griffin [mailto:AGriffin@yatespetroleum.com]
Sent: Monday, July 11, 2016 9:56 AM
To: Patterson, Heather, EMNRD
Cc: Katie Parker; Chase Settle; Bratcher, Mike, EMNRD; Bayliss, Randolph, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)

Heather,

When this release occurred, contractors immediately bermed the release area to keep it from migrating horizontally. Yates made sure that during the excavation process we excavated outside of the bermed area to ensure that all soils contaminated by this release were excavated. The release occurred on top of the old drilling pit and the chlorides that Yates found on the west and north sidewalls are not a result of the release, but are a result of the historical drilling pit. There are multiple places near the release area where the old pit liner is visible, and that includes to the west and north of the current excavation.

Yates requests that since the west sidewall falls within the historical pit location, and was not impacted by this current release, you reconsider our request to backfill with no further excavation to be conducted on the west sidewall. Attached are photographs which show evidence of the historical drilling pit material (white liner) in the west sidewall. I also went ahead and took a photograph of the north sidewall, also showing the same historical pit liner evidence. These pictures were taken on 7/7/2016.

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Thank you,

Amber

From: Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]

Sent: Thursday, July 07, 2016 9:20 AM

To: Amber Griffin

Cc: Bob Asher; Katie Parker; Chase Settle; Bratcher, Mike, EMNRD; Bayliss, Randolph, EMNRD

Subject: RE: Bryan ME #1 (2RP-3164)

Amber,

Please extend your excavation on the west side to remove contaminated soils, since this is not considered part of the pit. As for the north (pit) side, you have approval to backfill.

Please be advised that this RP may remain open until this area has achieved 70% plant cover (excluding noxious weeds). Leaving elevated chlorides in place may hinder that goal.

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Environmental Specialist
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Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [<mailto:AGriffin@yatespetroleum.com>]

Sent: Thursday, June 23, 2016 8:58 AM

To: Patterson, Heather, EMNRD

Cc: Bob Asher; Katie Parker; Chase Settle

Subject: FW: Bryan ME #1 (2RP-3164)

Heather,

The Bryan ME #1 has been excavated to 4' below the surface level. As requested by NMOCD, Yates Petroleum has also field tested the sidewalls for chlorides.

The chloride testing results were:

- East Sidewall – 564 ppm
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Thank you,
Amber Griffin

From: Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]
Sent: Wednesday, April 06, 2016 11:07 AM
To: Amber Griffin; Bratcher, Mike, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)

RE: Yates Petroleum * Bryan ME #1 * 30-015-23097 * 2RP-3164

Amber,

Thank you for the vertical delineation at this location. Your work plan is approved with a few exceptions. For liner protection, the OCD would like a four foot excavation. Also, as it appears you may have discovered some historic contamination, the OCD requests sidewall confirmation samples at time of closure. These samples should display chloride levels at 800 mg/kg or less, and may be done with field screens if Yates prefers.

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Environmental Specialist
NMOCD District II

Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [<mailto:AGriffin@yatespetroleum.com>]
Sent: Monday, April 04, 2016 3:27 PM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD
Subject: Bryan ME #1 (2RP-3164)

Heather/Mike,

Please find attached a work plan for the release that occurred at the Bryan ME #1 on July 11, 2015 (2RP-3164).

Should you have any questions or comments, please let me know.

Thank you,

Amber Griffin

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Yates Petroleum Corporation
Office: (575) 748-4111
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From: [Amber Griffin](#)
To: [Patterson, Heather, EMNRD](#)
Cc: [Katie Parker](#); [Bob Asher](#); [Chase Settle](#); [Bratcher, Mike, EMNRD](#); [Bayliss, Randolph, EMNRD](#)
Subject: RE: Bryan ME #1 (2RP-3164)
Date: Monday, July 18, 2016 1:28:26 PM

Heather,

Yates does want to use part 17 closures standards for this location because it is a drilling pit area. Yates will seed and monitor the location to achieve the 70% plant cover requirement stated in your July 7, 2016 email before requesting closure of this RP. Once we have met the re-vegetation requirement we will then submit a Final C-141 for this release area to NMOCD. Yates will move forward with backfill procedures of this open excavation.

Thank you,
Amber

From: Patterson, Heather, EMNRD [mailto:Heather.Patterson@state.nm.us]
Sent: Friday, July 15, 2016 7:13 AM
To: Amber Griffin
Cc: Katie Parker; Chase Settle; Bratcher, Mike, EMNRD; Bayliss, Randolph, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)

Amber,

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Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [<mailto:AGriffin@yatespetroleum.com>]
Sent: Monday, July 11, 2016 9:56 AM
To: Patterson, Heather, EMNRD
Cc: Katie Parker; Chase Settle; Bratcher, Mike, EMNRD; Bayliss, Randolph, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)

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From: Amber Griffin [<mailto:AGriffin@yatespetroleum.com>]

Sent: Thursday, June 23, 2016 8:58 AM

To: Patterson, Heather, EMNRD

Cc: Bob Asher; Katie Parker; Chase Settle

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Sent: Wednesday, April 06, 2016 11:07 AM

To: Amber Griffin; Bratcher, Mike, EMNRD

Subject: RE: Bryan ME #1 (2RP-3164)

RE: Yates Petroleum * Bryan ME #1 * 30-015-23097 * 2RP-3164

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NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [<mailto:AGriffin@yatespetroleum.com>]

Sent: Monday, April 04, 2016 3:27 PM

To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD

Subject: Bryan ME #1 (2RP-3164)

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Should you have any questions or comments, please let me know.

Thank you,

Amber Griffin

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Office: (575) 748-4111
Cell: (575) 513-8799

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From: [Amber Griffin](#)
To: [Bratcher, Mike, EMNRD](#); [Patterson, Heather, EMNRD](#)
Subject: Bryan ME #1 (ZRP-3164)
Date: Monday, August 15, 2016 11:32:50 AM
Attachments: BryanMFI_C141_071115 Final.pdf

Mike/Heater,

Please find attached a Final C-141 for the release that occurred at the Bryan ME #1 on 7/11/2015. All work was completed as per the previously approved work plan.

Thank you,

Amber Griffin

Environmental Representative
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

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From: Patterson, Heather, EMNRD
To: "Amber Griffin"; Bratcher, Mike, EMNRD
Subject: RE: Bryan ME #1 (2RP-3164)
Date: Tuesday, August 16, 2016 1:58:00 PM

Thank you for the update.

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Amber Griffin [mailto:AGriffin@yalespetroleum.com]
Sent: Monday, August 15, 2016 11:33 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Subject: Bryan ME #1 (2RP-3164)

Mike/Heater,

Please find attached a Final C-141 for the release that occurred at the Bryan ME #1 on 7/11/2015.
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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR		<input type="checkbox"/> Initial Report	<input checked="" type="checkbox"/> Final Report
Name of Company Yates Petroleum Corporation	Contact Amber Griffin		
Address 104 S. 4 th Street	Telephone No. 575-748-1471		
Facility Name Bryan ME #1	Facility Type Well		
Surface Owner Fee	Mineral Owner Fee	API No. 30-015-23097	

LOCATION OF RELEASE

Unit Letter F	Section 33	Township 18S	Range 26E	Feet from the 1650	North/South Line North	Feet from the 2310	East/West Line West	County Eddy
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Latitude 32.707 Longitude 104.38745

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 15 B/PW	Volume Recovered 10 B/PW
Source of Release Well casing	Date and Hour of Occurrence 7/11/2015, AM	Date and Hour of Discovery 7/11/2015, AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Heather Patterson, & Randy Dado	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 7/11/2015, 5:36 PM (Email)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

There was a hole in the casing, causing the release. Vacuum truck(s) and roustabout crews were called.

Describe Area Affected and Cleanup Action Taken.*

An approximate area of 30' X 40'. The well was shut in, vacuum trucks were called to recover the spill and a roustabout crew was called to repair the casing. Excavated soils will be hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis run for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 10) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: 50-99' (approximately 75', Section 33, T18S-R26E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10, Yates Petroleum is submitting this Final C-141 to NMOCD because all excavation and backfill work has been completed as per the approved work plan. Yates understands that this RP will remain open until the site obtains a 70% vegetation growth as requested by NMOCD. Once the site reaches the 70% vegetative state, Yates will re-send NMOCD a second Final C-141 to close out this release.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <u>Amber Griffin</u>		OIL CONSERVATION DIVISION	
Printed Name: Amber Griffin		Approved by Environmental Specialist:	
Title: Environmental Representative		Approval Date:	Expiration Date:
E-mail Address: <u>ngriffin@yatespetroleum.com</u>		Conditions of Approval:	
Date: August 15, 2016	Phone: 575-748-4111	2RP-3164	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

From: [Amber Griffin](#)
To: [Bratcher, Mike, EMNRD](#); [Patterson, Heather, EMNRD](#)
Subject: Bryan ME #1 (2RP-3164)
Date: Monday, August 15, 2016 11:32:50 AM
Attachments: BryanME1_C141_071115 Final.pdf

Mike/Heater,

Please find attached a Final C 141 for the release that occurred at the Bryan ME #1 on 7/11/2015.
All work was completed as per the previously approved work plan.

Thank you,

Amber Griffin

Environmental Representative
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 57677

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 57677
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	11/2/2021