

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	NHMP1417633704
District RP	2RP-2354
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 # NHMP1417633704
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.63444 Longitude -104.51701
(NAD 83 in decimal degrees to 5 decimal places)

Site Name NDDUP #108	Site Type Well
Date Release Discovered 06/02/2014	API# 30-015-27378

Unit Letter	Section	Township	Range	County
H	30	19S	25E	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) 10	Volume Recovered (bbls) 8
	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-2354 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	NHMP1417633704
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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 1/2-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	NHMP1417633704
District RP	2RP-2354
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	NHMP1417633704
District RP	2RP-2354
Facility ID	
Application ID	

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	NHMP1417633704
District RP	2RP-2354
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: 10/11/2021
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: 10/20/2021
Printed Name: Bradford Billings Title: Envi.Spec.A

From: [Chase Settle](#)
To: [Bratcher, Mike, EMNRD](#); [Patterson, Heather, EMNRD](#)
Cc: [Bob Asher](#)
Subject: NDDUP Unit #108 Work Plan
Date: Tuesday, September 09, 2014 3:34:36 PM
Attachments: NDDUP Unit #108 Work Plan.pdf

September 9, 2014

Re: NDDUP Unit #108
30-015-27378
Section 30, T19S-R25E
Eddy County, New Mexico
2RP-2354

Mr. Bratcher,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated June 12, 2014.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of September 23, 2014.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

Chase Settle

**Environmental Regulatory Agent
Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)**

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MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2000



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

JOHN A. YATES
CHAIRMAN OF THE BOARD

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CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 09, 2014

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

Re: NDDUP Unit #108
30-015-27378
Section 30, T19S-R25E
Eddy County, New Mexico

Mr. Bratcher,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated June 12, 2014.

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If you have any questions, feel free to call me at (575) 748-4171

Thank you.

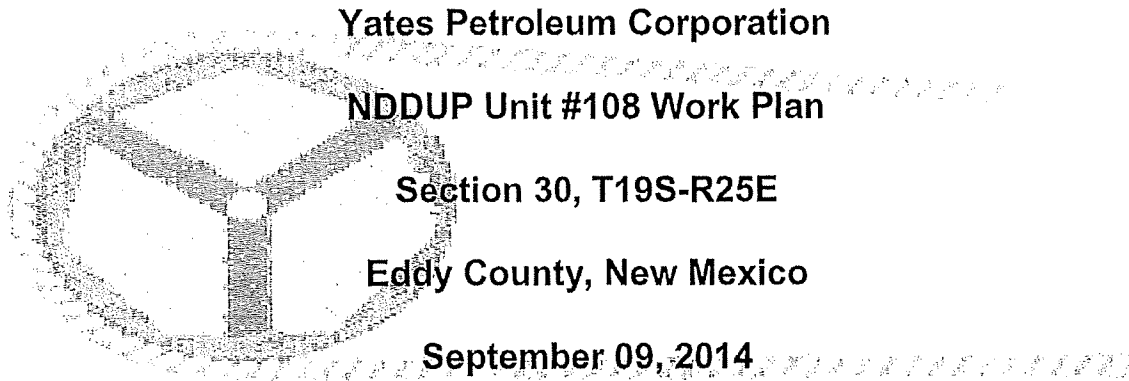
YATES PETROLEUM CORPORATION

Chase Settle
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER



Yates Petroleum Corporation

NDDUP Unit #108 Work Plan

Section 30, T19S-R25E

Eddy County, New Mexico

September 09, 2014

I. Location

The Julie #2 Battery is located 13 miles south of Artesia on US 285, west approximately 8 miles on Rocking R Red Road, then south on Crossbuck Road 1.5 miles, and approximately 0.4 of a mile east on the lease road.

II. Background

On June 12, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 10 B/PW with 8 B/PW recovered. Excavation of visually impacted soils was undertaken within the release area. The total affected area was approximately 146 feet by 85 feet. Initial delineation samples were taken in the S1 area (6/20/2014) and sent to a NMOCD approved laboratory (7/01/2014, results enclosed). Based on analytical results (7/01/2014), Yates determined that further sampling was needed. Additional delineation samples were taken and the area split into 3 sample areas. Samples were taken from the S2, S3, and S4 areas (7/10/2014) and sent to a NMOCD approved laboratory (7/21/2014, results enclosed). Based on analytical results (7/21/2014), Yates excavated an additional four (4) feet of impacted material from the release area and completed deeper, more extensive sampling to determine delineation of chlorides. Yates sampled the S2, S3, and S4 areas again (8/20/2014) and sent samples to a NMOCD approved laboratory (8/21/2014, results enclosed).

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 30, T19S-R25E) that depth to groundwater is approximately 200 feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

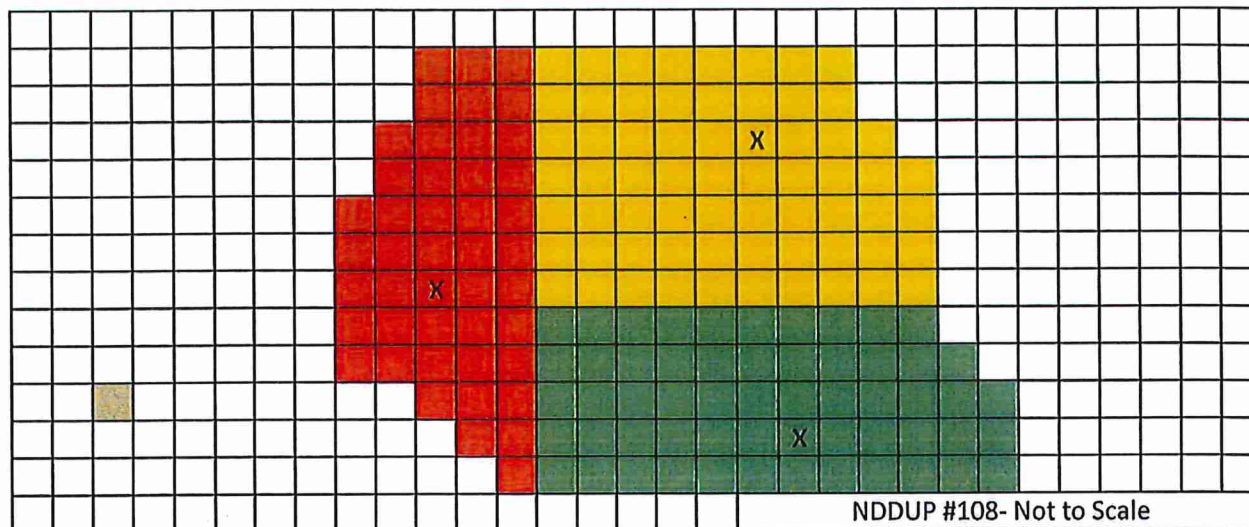
IV. Soils

The area consists of soils that are caliche and bedrock which are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (200'), five (5) feet of impacted material already excavated, and a decrease in chlorides, Yates Petroleum Corporation will install a 20 ml liner in the release area with six (6) inches of topsoil below the liner for cushion, then backfill with four and a half (4 1/2) feet of topsoil allowing for vegetative repopulation of the disturbed area and protection from groundwater contamination. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) in the release area, no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report, analytical results and a site sample diagram will be submitted to the NMOCD and request closure of the site.

NDDUP #108



Wellhead



S3 Sample area



S2 Sample area



S4 Sample area



S1 was a composite from all areas

H401919	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	6/20/2014	Backhoe	1'	<0.3	<10.0	<10.0	4640
S1-2'	Release Area	6/20/2014	Backhoe	2'	<0.3	<10.0	<10.0	5040
S1-3'	Release Area	6/20/2014	Backhoe	3'	<0.3	<10.0	<10.0	3680
S1-4'	Release Area	6/20/2014	Backhoe	4'	<0.3	<10.0	<10.0	4800
S1-5'	Release Area	6/20/2014	Backhoe	5'	<0.3	<10.0	<10.0	4080
S1-6'	Release Area	6/20/2014	Backhoe	6'	<0.3	<10.0	<10.0	5120
S1-7'	Release Area	6/20/2014	Backhoe	7'	<0.3	<10.0	<10.0	4480
S1-8'	Release Area	6/20/2014	Backhoe	8'	<0.3	<10.0	<10.0	5680
H402130	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-9'	Release Area	7/10/2014	Backhoe	9'	N/A	N/A	N/A	3950
S2-11'	Release Area	7/10/2014	Backhoe	11'	N/A	N/A	N/A	5680
S2-13'	Release Area	7/10/2014	Backhoe	13'	N/A	N/A	N/A	5440
S2-15'	Release Area	7/10/2014	Backhoe	15'	N/A	N/A	N/A	5600
S3-9'	Release Area	7/10/2014	Backhoe	9'	N/A	N/A	N/A	6560
S3-11'	Release Area	7/10/2014	Backhoe	11'	N/A	N/A	N/A	4240
S3-13'	Release Area	7/10/2014	Backhoe	13'	N/A	N/A	N/A	4640
S3-15'	Release Area	7/10/2014	Backhoe	15'	N/A	N/A	N/A	4480
S4-9'	Release Area	7/10/2014	Backhoe	9'	N/A	N/A	N/A	3480
S4-11'	Release Area	7/10/2014	Backhoe	11'	N/A	N/A	N/A	4880
S4-13'	Release Area	7/10/2014	Backhoe	13'	N/A	N/A	N/A	6160
S4-15'	Release Area	7/10/2014	Backhoe	15'	N/A	N/A	N/A	6640
H402567	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-16'	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	6000

S2-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	3520
S2-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	3000
S2-22'	Release Area	8/20/2014	Trackhoe	22'	N/A	N/A	N/A	1280
S3-16'	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	4560
S3-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	5040
S3-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	4160
S3-22'	Release Area	8/20/2014	Trackhoe	22'	N/A	N/A	N/A	704
S4-16'	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	2160
S4-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	48
S4-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	<16.0
S4-22'	Release Area	8/20/2014	Trackhoe	22'	N/A	N/A	N/A	64

Site Ranking is Zero (0). >100' (200', Section 30, T19S-R25E, Trend Map

All results are ppm. Chlorides for documentation

Released: 10 B/PW; Recovered: 8 B/PW Release Date: 06/02/2014



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 01, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: NDDUP UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 06/25/14 16:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-1' (H401919-01)

BTX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/27/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/27/2014	ND	4.86	80.9	6.00	7.21	
Total BTX	<0.300	0.300	06/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 96.9 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 69.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-2' (H401919-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55			
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635			

Surrogate: 1-Chlorooctane 71.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-3' (H401919-03)

BTX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 98.0 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 72.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-4' (H401919-04)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 97.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 69.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.8 % 63.6-154

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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-5' (H401919-05)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 97.5 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 73.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-6' (H401919-06)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 97.4 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 71.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.6 % 63.6-154

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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-7' (H401919-07)

BTX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 95.9 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 74.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-8' (H401919-08)

BTX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 97.7 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 76.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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July 21, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: NDDUP UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 07/14/14 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "C. D. Keene", written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 07/14/2014
Reported: 07/21/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/10/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S2-9' (H402130-01)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3950	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S2-11' (H402130-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S2-13' (H402130-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S2-15' (H402130-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	07/18/2014	ND	400	100	400	3.92	

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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 07/14/2014
Reported: 07/21/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/10/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S3-9' (H402130-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S3-11' (H402130-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S3-13' (H402130-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	07/18/2014	ND	416	104	400	0.00	

Sample ID: S3-15' (H402130-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/18/2014	ND	416	104	400	0.00	

Sample ID: S4-9' (H402130-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	07/18/2014	ND	416	104	400	0.00	

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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 07/14/2014
Reported: 07/21/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/10/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S4-11' (H402130-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	07/18/2014	ND	416	104	400	0.00	

Sample ID: S4-13' (H402130-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	07/18/2014	ND	416	104	400	0.00	

Sample ID: S4-15' (H402130-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	07/18/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

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

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: NDDUP Unit #108

Project #: NDDUP Unit #108

Project Loc: NDDUP Unit #108

PO #: 205750

Page 6 of 7

Project Manager: Chase Settle

Company: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature]

e-mail: csettle@yatespetroleum.com

(lab use only)

ORDER #: H402030

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sudge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 410.1 8015M 8015B TPH: TX 1005 TX 1006	Calions (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Su	Volatiles	Semivolatiles	BTEX #021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	S2-9'			7/10/2014	12:25 PM		1										S														X
2	S2-11'			7/10/2014	12:25 PM		1										S														X
3	S2-13'			7/10/2014	12:25 PM		1										S														X
4	S2-15'			7/10/2014	12:25 PM		1										S														X
5	S3-9'			7/10/2014	3:00 PM		1										S														X
6	S3-11'			7/10/2014	3:00 PM		1										S														X
7	S3-13'			7/10/2014	3:00 PM		1										S														X
8	S3-15'			7/10/2014	3:00 PM		1										S														X

Special Instructions:

Reinquired by: [Signature] Date: 7-14-14 Time: 12:25 Received by: [Signature] Date: 7/14/14 Time: 12:25

Reinquired by: [Signature] Date: 7-14-14 Time: 12:25 Received by: [Signature] Date: 7/14/14 Time: 12:25

Reinquired by: [Signature] Date: 7-14-14 Time: 12:25 Received by: [Signature] Date: 7/14/14 Time: 12:25

Laboratory Comments:

Sample Containers Intact? Y

VOCs Free of HeadSpace? Y

Labels on container(s) Y

Custody seals on container(s) Y

Custody seals on cooler(s) Y

Sample Hand Delivered Y

by Courier? Y UPS Y DHL Y FedEx Y Lone Star Y

Temperature Upon Receipt: 24.4 °C



ARDINAL LABORATORIES
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(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

NDDUP Unit #108

Project #:

Project Location

NDDUP Unit #108

Page 7 of 7

Project Manager: Chase Settle

Comp: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Fax No: 575-748-4131

Report Format: ☒ Standard

Sampler Signature:

e-mail: csettle@yatespetroleum.com

PO #: 205750

(lab use only) #4402130

ORDER #

H402130
~~H402029~~

[illegible]



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 27, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: NDDUP UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 08/21/14 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "C. D. Keene", written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 08/21/2014
Reported: 08/27/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: S2-16' (H402567-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/25/2014	ND	416	104	400	3.92	

Sample ID: S2-18' (H402567-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	08/25/2014	ND	416	104	400	3.92	

Sample ID: S2-20' (H402567-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	08/25/2014	ND	416	104	400	3.92	

Sample ID: S2-22' (H402567-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	08/25/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 08/21/2014
Reported: 08/27/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: S3-16' (H402567-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	08/25/2014	ND	416	104	400	3.92	

Sample ID: S3-18' (H402567-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	08/25/2014	ND	416	104	400	3.92	

Sample ID: S3-20' (H402567-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	08/25/2014	ND	416	104	400	3.92	

Sample ID: S3-22' (H402567-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/25/2014	ND	400	100	400	0.00	

Sample ID: S4-16' (H402567-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	08/25/2014	ND	400	100	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 08/21/2014
Reported: 08/27/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: S4-18' (H402567-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/25/2014	ND	400	100	400	0.00	

Sample ID: S4-20' (H402567-11)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/25/2014	ND	400	100	400	0.00	

Sample ID: S4-22' (H402567-12)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/25/2014	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

Fax No: 575-748-4131

e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205750

Project Name: NDDUP Unit #108

Project #:

Project Loc: NDDUP Unit #108

ORDER #: H402567

(lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 100G	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX #021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
9	S4-16'			8/20/2014	12:00 PM		1									S																
10	S4-18'			8/20/2014	12:00 PM		1									S																
11	S4-20'			8/20/2014	12:00 PM		1									S																
12	S4-22'			8/20/2014	12:00 PM		1									S																

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspaces?

Labels on container(s)?

Custody seals on container(s)?

Sample Hand Delivered by Sampler/Client Rep.?

UPS DHL FedEx Lone Star

Temperature Upon Receipt: 25.7 °C

From: Patterson, Heather, EMNRD
To: ["Chase Settle"](#)
Cc: [Bob Asher](#); [Bratcher, Mike, EMNRD](#)
Subject: RE: NDDUP Unit #108 Work Plan
Date: Wednesday, September 10, 2014 7:53:00 AM

Re: NDDUP #108 * 30-015-27378 * **2RP-2354**

Chase,

Your Work Plan is approved as written. Please advise if excavations depths are not achieved.

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

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

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

From: Chase Settle [mailto:CSettle@yatespetroleum.com]
Sent: Tuesday, September 09, 2014 3:31 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: Bob Asher
Subject: NDDUP Unit #108 Work Plan

September 9, 2014

Re: NDDUP Unit #108
30-015-27378
Section 30, T19S-R25E
Eddy County, New Mexico
2RP-2354

Mr. Bratcher,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated June 12, 2014.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of September 23, 2014.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

Chase Settle

Environmental Regulatory Agent
Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)

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

April 12, 2018

Ms. Crystal Weaver
NMOCD District II
811 S. First St.
Artesia, New Mexico 88210

Re: NDDUP Unit #108
30-015-27378
Section 30, T19S-R25E
Eddy County, New Mexico
2RP-2354

Ms. Weaver,

EOG Y Resources, Inc. is submitting the enclosed CLOSURE REPORT and C-141 Final for the above captioned remediation. The plan is being submitted in response to the C-141 report dated June 12, 2014 with a Work Plan that was approved on September 10, 2014.

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

Thank you.

EOG Y Resources, Inc.

Chase Settle
Rep Safety & Environmental II

NDDUP #108
2RP-2354
Closure Report



April 12, 2018

EOG Y Resources, Inc.

CLOSURE REPORT

NDDUP #108

30-015-27378

Section 30, T19S-R25E

Eddy County, New Mexico

April 12, 2018

2RP- 2354

NDDUP #108
2RP-2354
Closure Report



April 12, 2018

I. Location

From the intersection of US 285 and Rocking R Red Road, go west approximately 8 miles on Rocking R Red Road, then south on Crossbuck Road 1.5 miles, and approximately 0.4 of a mile east on the lease road.

II. Background

On June 12, 2014, Yates Petroleum Corporation (YPC) submitted to the NMOCD District II office a Form C-141 for the release of 10 B/PW with 8 B/PW recovered. Excavation of visually impacted soils was undertaken within the release area. The total affected area was approximately 146 feet by 85 feet. Initial delineation samples were taken in the S1 area (6/20/2014) and sent to a NMOCD approved laboratory (7/01/2014, results enclosed). Based on analytical results (7/01/2014), YPC determined that further sampling was needed. Additional delineation samples were taken and the area split into 3 sample areas. Samples were taken from the S2, S3, and S4 areas (7/10/2014) and sent to a NMOCD approved laboratory (7/21/2014, results enclosed). Based on analytical results (7/21/2014), YPC excavated an additional four (4) feet of impacted material from the release area and completed deeper, more extensive sampling to determine delineation of chlorides. YPC sampled the S2, S3, and S4 areas again (8/20/2014) and sent samples to a NMOCD approved laboratory (8/21/2014, results enclosed).

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 30, T19S-R25E) that depth to groundwater is approximately 200 feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are caliche and bedrock which are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work Completed

After approval of the work plan by NMOCD on September 10, 2014, landowner issues prevented any work from being completed at the site until November 30, 2017. The site had previously been excavated to a depth of five (5) feet, with areas at six (6) and seven (7) feet. The remaining soil around the steel line was addressed, then six (6) inches of topsoil cushion was installed in the excavation, followed by the 20 ml synthetic liner that was installed on top of the cushion within the excavation. The remainder of the excavation was filled with topsoil and backed using machinery traffic to complete the remediation activities.

With all remedial activities completed according to the NMOCD approved work plan, a C-141 Final is submitted requesting closure for the site.

NDDUP #108
2RP-2354
Closure Report



April 12, 2018

Figure 1

Site Map

NDDUP #108
2RP-2354
Closure Report



April 12, 2018



NDDUP #108
2RP-2354
Closure Report



April 12, 2018

Photos

NDDUP #108
2RP-2354
Closure Report



April 12, 2018



NDDUP #108
2RP-2354
Closure Report



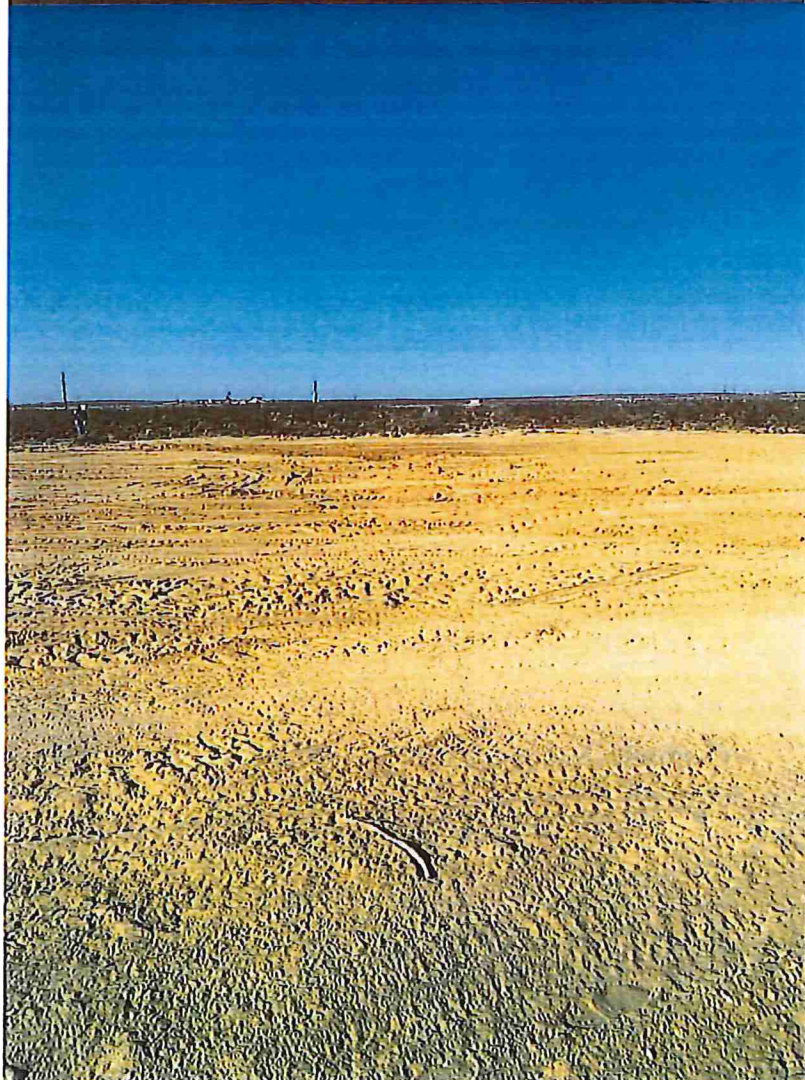
April 12, 2018



NDDUP #108
2RP-2354
Closure Report



April 12, 2018



energy opportunity growth

NDDUP #108
2RP-2354
Closure Report

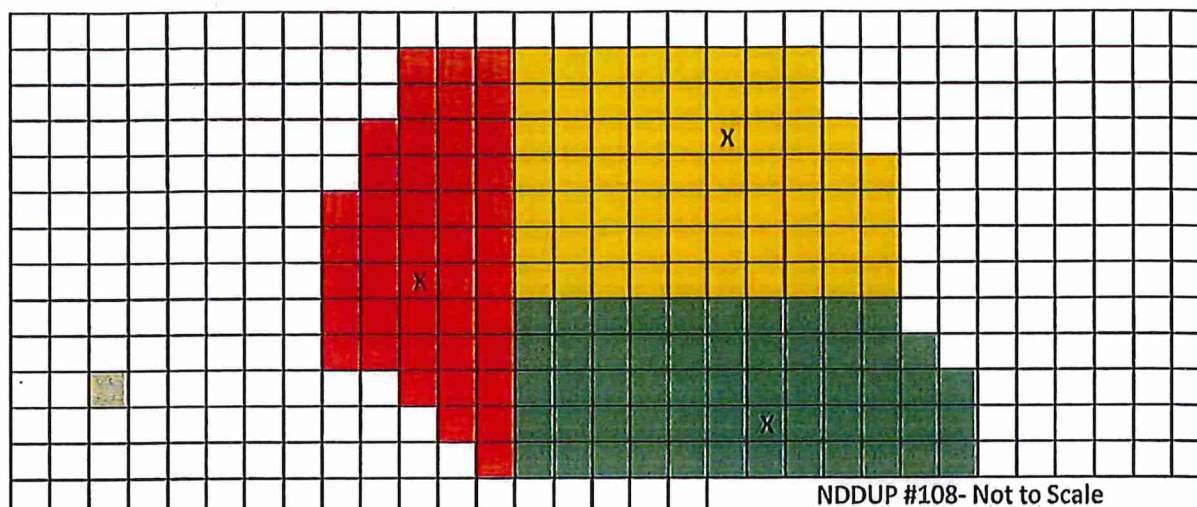


April 12, 2018

Appendix A

Sample Data Sheet

NDDUP #108



NDDUP #108- Not to Scale



H401919	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	6/20/2014	Backhoe	1'	<0.3	<10.0	<10.0	4640
S1-2'	Release Area	6/20/2014	Backhoe	2'	<0.3	<10.0	<10.0	5040
S1-3'	Release Area	6/20/2014	Backhoe	3'	<0.3	<10.0	<10.0	3680
S1-4'	Release Area	6/20/2014	Backhoe	4'	<0.3	<10.0	<10.0	4800
S1-5'	Release Area	6/20/2014	Backhoe	5'	<0.3	<10.0	<10.0	4080
S1-6'	Release Area	6/20/2014	Backhoe	6'	<0.3	<10.0	<10.0	5120
S1-7'	Release Area	6/20/2014	Backhoe	7'	<0.3	<10.0	<10.0	4480
S1-8'	Release Area	6/20/2014	Backhoe	8'	<0.3	<10.0	<10.0	5680
H402130	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-9'	Release Area	7/10/2014	Backhoe	9'	N/A	N/A	N/A	3950
S2-11'	Release Area	7/10/2014	Backhoe	11'	N/A	N/A	N/A	5680
S2-13'	Release Area	7/10/2014	Backhoe	13'	N/A	N/A	N/A	5440
S2-15'	Release Area	7/10/2014	Backhoe	15'	N/A	N/A	N/A	5600
S3-9'	Release Area	7/10/2014	Backhoe	9'	N/A	N/A	N/A	6560
S3-11'	Release Area	7/10/2014	Backhoe	11'	N/A	N/A	N/A	4240
S3-13'	Release Area	7/10/2014	Backhoe	13'	N/A	N/A	N/A	4640
S3-15'	Release Area	7/10/2014	Backhoe	15'	N/A	N/A	N/A	4480
S4-9'	Release Area	7/10/2014	Backhoe	9'	N/A	N/A	N/A	3480
S4-11'	Release Area	7/10/2014	Backhoe	11'	N/A	N/A	N/A	4880
S4-13'	Release Area	7/10/2014	Backhoe	13'	N/A	N/A	N/A	6160
S4-15'	Release Area	7/10/2014	Backhoe	15'	N/A	N/A	N/A	6640
H402567	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S2-16'	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	6000

S2-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	3520
S2-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	3000
S2-22'	Release Area	8/20/2014	Trackhoe	22'	N/A	N/A	N/A	1280
S3-16'	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	4560
S3-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	5040
S3-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	4160
S3-22'	Release Area	8/20/2014	Trackhoe	22'	N/A	N/A	N/A	704
S4-16'	Release Area	8/20/2014	Trackhoe	16'	N/A	N/A	N/A	2160
S4-18'	Release Area	8/20/2014	Trackhoe	18'	N/A	N/A	N/A	48
S4-20'	Release Area	8/20/2014	Trackhoe	20'	N/A	N/A	N/A	<16.0
S4-22'	Release Area	8/20/2014	Trackhoe	22'	N/A	N/A	N/A	64

Site Ranking is Zero (0). >100' (200', Section 30, T19S-R25E, Trend Map

All results are ppm. Chlorides for documentation

Released: 10 B/PW; Recovered: 8 B/PW Release Date: 06/02/2014

NDDUP #108
2RP-2354
Closure Report



April 12, 2018

Appendix B

Analytical Data



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 01, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: NDDUP UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 06/25/14 16:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-1' (H401919-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/27/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/27/2014	ND	4.86	80.9	6.00	7.21	
Total BTX	<0.300	0.300	06/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 96.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 69.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-2' (H401919-02)

BTEX 8021B mg/kg			Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 97.9 % 89.4-126

Chloride, SM4500Cl-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M mg/kg			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 71.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-3' (H401919-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 98.0 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 72.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.8 % 63.6-154

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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-4' (H401919-04)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 97.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 69.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-5' (H401919-05)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PJC) 97.5 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 73.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-6' (H401919-06)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PDE) 97.4 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/30/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C20	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 71.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-7' (H401919-07)

BTEX B021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTEX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 95.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	06/30/2014	ND	416	104	400	3.92	

TPH B015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 74.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 80240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 06/25/2014
Reported: 07/01/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-8' (H401919-08)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2014	ND	1.70	84.8	2.00	8.67	
Toluene*	<0.050	0.050	06/28/2014	ND	1.77	88.5	2.00	8.91	
Ethylbenzene*	<0.050	0.050	06/28/2014	ND	1.56	78.2	2.00	8.01	
Total Xylenes*	<0.150	0.150	06/28/2014	ND	4.86	80.9	6.00	7.21	
Total BTX	<0.300	0.300	06/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PJE) 97.7 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/30/2014	ND	416	104	400	3.92	

TPH B015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2014	ND	176	88.0	200	1.55	
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635	

Surrogate: 1-Chlorooctane 76.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name: NDDUP Unit #108

Company Address: 105 South 4th Street

Project #: NDDUP Unit #108

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature]

e-mail: csettle@yatespetroleum.com

PO #: 205750

(lab use only)

ORDER #: 4401919

ORDER #:	Preservation & # of Containers															Matrix																
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid HP=Non-Potable Specify Other	TPH: 410.1 0015M 00150	TPH: TX 1005 TX 1006	Cations (Co, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 0021B/5030 or BTEX 0260	RCL	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48	Standard TAT	
1	S1-1'			6/20/2014	12:30 PM		1	X								S	X														X	X
	S1-2'			6/20/2014	12:30 PM		1	X								S	X														X	X
	S1-3'			6/20/2014	12:30 PM		1	X								S	X														X	X
	S1-4'			6/20/2014	12:30 PM		1	X								S	X														X	X
	S1-5'			6/20/2014	12:30 PM		1	X								S	X														X	X
	S1-6'			6/20/2014	12:30 PM		1	X								S	X														X	X
	S1-7'			6/20/2014	12:30 PM		1	X								S	X														X	X
	S1-8'			6/20/2014	12:30 PM		1	X								S	X														X	X
Laboratory Comments:																																

Special Instructions:

Reinforced by: [Signature]

Date: 6-25-14 Time: 11:30 AM

Relinquished by:

Date:

Time:

Received by: [Signature]

Date:

Time:

Received by ETO:

Date:

Time:

Date:

Time:

Laboratory Comments:
Sample Containers Intact?
VOCs Free of Headspace?
Labels on container(s)?
Custody seals on container(s)?
Custody seals on cooler(s)?
Sample Hand Delivered?
by Sampler/Client Rep.?
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt

60.0 °C



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 21, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: NDDUP UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 07/14/14 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 07/14/2014
Reported: 07/21/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/10/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S2-9' (H402130-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3950	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S2-11' (H402130-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S2-13' (H402130-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S2-15' (H402130-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	07/18/2014	ND	400	100	400	3.92	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 07/14/2014
Reported: 07/21/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/10/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S3-9' (H402130-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S3-11' (H402130-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	07/18/2014	ND	400	100	400	3.92	

Sample ID: S3-13' (H402130-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	07/18/2014	ND	416	104	400	0.00	

Sample ID: S3-15' (H402130-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/18/2014	ND	416	104	400	0.00	

Sample ID: S4-9' (H402130-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	07/18/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 07/14/2014
Reported: 07/21/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/10/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S4-11' (H402130-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	07/18/2014	ND	416	104	400	0.00	

Sample ID: S4-13' (H402130-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	07/18/2014	ND	416	104	400	0.00	

Sample ID: S4-15' (H402130-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	07/18/2014	ND	416	104	400	0.00	

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Caley D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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August 27, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: NDDUP UNIT #108

Enclosed are the results of analyses for samples received by the laboratory on 08/21/14 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 08/21/2014
Reported: 08/27/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: S2-16' (H402567-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	08/25/2014	ND	416	104	400	3.92		

Sample ID: S2-18' (H402567-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	08/25/2014	ND	416	104	400	3.92		

Sample ID: S2-20' (H402567-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	08/25/2014	ND	416	104	400	3.92		

Sample ID: S2-22' (H402567-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	08/25/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 08/21/2014
Reported: 08/27/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: S3-16' (H402567-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	08/25/2014	ND	416	104	400	3.92	

Sample ID: S3-18' (H402567-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	08/25/2014	ND	416	104	400	3.92	

Sample ID: S3-20' (H402567-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	08/25/2014	ND	416	104	400	3.92	

Sample ID: S3-22' (H402567-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/25/2014	ND	400	100	400	0.00	

Sample ID: S4-16' (H402567-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	08/25/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 08/21/2014
Reported: 08/27/2014
Project Name: NDDUP UNIT #108
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/20/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: S4-18' (H402567-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/25/2014	ND	400	100	400	0.00	

Sample ID: S4-20' (H402567-11)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/25/2014	ND	400	100	400	0.00		

Sample ID: S4-22' (H402567-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/25/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name: NDDUP Unit #108

Company Address: 105 South 4th Street

Project #:

City/State/Zip: Artesia, NM 88210

Project Loc: NDDUP Unit #108

Telephone No: 575-748-4171

Fax No: 575-748-4131

PO #: 205750

Sampler Signature:

e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

ORDER #: 1408567

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers										Matrix	Analyze For:															
LAB #	FIELD CODE							H ₂ O	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 410.1 0015M 0015M	TPH: TX 1005 TX 1006	Canlons (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR/ESP/CEC	Metals: As Ag Ba Cd Cr Pb Hg Sn	Volatiles	Semivolatiles	BTEX 00216/5030 or BTEX 0260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	S2-16'			8/20/2014	9:30 AM		1								X		S																	X
2	S2-18'			8/20/2014	9:30 AM		1								X		S																	X
3	S2-20'			8/20/2014	9:30 AM		1								X		S																	X
4	S2-22'			8/20/2014	9:30 AM		1								X		S																	X
5	S3-16'			8/20/2014	10:45 AM		1								X		S																	X
6	S3-18'			8/20/2014	10:45 AM		1								X		S																	X
7	S3-20'			8/20/2014	10:45 AM		1								X		S																	X
8	S3-22'			8/20/2014	10:45 AM		1								X		S																	X

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by ELDT:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Sample Hand Delivered by Sampler/Client Rep.?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 25.7 °C



Analyze For:					
TCLP:					
TOTAL:					
					hrs

[illegible]

Laboratory Comments:

Sample Containers Intact?
VOCs Free of Headspace?

☒ N
☒ N
☐ N

Labels on container(s)	✓
Custody seals on container(s)	✓
Custody seals on cooler(s)	✓

Sample Hand Delivered by Sampler/Client Rep.? by Courier?	YES	NO
	<input checked="" type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>

Temperature Upon Receipt: 25.7 °C

NDDUP #108
2RP-2354
Closure Report



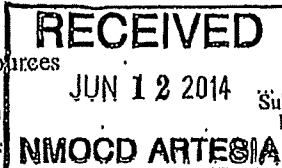
April 12, 2018

Appendix C

Form C-141 Initial

District I
1625 N. Fitchett Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 16, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

nHMP1417633704

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Chase Settle
Address 104 S. 4 TH Street	API Number 30015-27378	Telephone No. 575-748-4147
Facility Name NDDUP #108		Facility Type Well

Surface Owner Fee	Mineral Owner Fee	Lease No.
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LOCATION OF RELEASE

Unit Letter H	Section 30	Township 19S	Range 25E	Feet from the 1665	North/South Line North	Feet from the 660	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	----------------

Latitude: 32.63444 Longitude: 104.51701

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 10 B/PW	Volume Recovered 8 B/PW
Source of Release Produced Water Flow Line	Date and Hour of Occurrence 6/2/2014, AM	Date and Hour of Discovery 6/2/2014, AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: N/A	
If a Watercourse Was Impacted, Describe Fully: N/A		
Describe Cause of Problem and Remedial Action Taken: The release was caused by failure of a produced water line. Describe Area Affected and Cleanup Action Taken: An approximate area of 146' X 85' affected off location from failure of a produced water flow line. Vacuum trucks and a backhoe were called to recover standing produced water and remove impacted soil. Excavated soils will be hauled to a NMOC 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 0) 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: >100' (approximately 200', Section 30, T19S-R25E, per Trend Map). Wellhead Protection Area: No; Distance to Surface Water Body: >1000', SITE RANKING IS 0.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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:		OIL CONSERVATION DIVISION
Printed Name: Chase Settle		Approved by District Supervisor:
Title: Environmental Regulatory Agent	Approval Date: 6/25/14	Expiration Date: NA
E-mail Address: CSettle@yatespetroleum.com	Conditions of Approval:	Attached: <input type="checkbox"/>
Date: Thursday, June 12, 2014	Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 7/25/14	

* Attach Additional Sheets, If Necessary

2PP-2354

NDDUP #108
2RP-2354
Closure Report



April 12, 2018

Appendix D

Form C-141 Final

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company EOG Y Resources, Inc.	OGRID Number 25575	Contact Chase Settle
Address 104 S. 4 TH Street		Telephone No. 575-748-4147
Facility Name NDDUP #108	API Number 30-015-27378	Facility Type Well
Surface Owner Fee	Mineral Owner Fee	Lease No.

LOCATION OF RELEASE

Unit Letter H	Section 30	Township 19S	Range 25E	Feet from the 1665	North/South Line North	Feet from the 660	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.63444 Longitude 104.51701

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 10 B/PW	Volume Recovered 8 B/PW
Source of Release Produced Water Flow Line	Date and Hour of Occurrence 6/2/2014; AM	Date and Hour of Discovery 6/2/2014; AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* The release was caused by failure of a produced water line.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 146' X 85' affected off location from failure of a produced water flow line. Vacuum trucks and a backhoe were called to recover standing produced water and remove impacted soil. Excavated soils will be hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) 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: >100' (approximately 200', Section 30, T19S-R25E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. All work completed per approved NMOCD work plan, Closure Requested.		
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: <i>Chase Settle</i>	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Approved by District Supervisor:	
Title: Safety & Environmental Rep II	Approval Date:	Expiration Date:
E-mail Address: Chase_Settle@eogresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Thursday, April 12, 2018 Phone: 575-748-4171	2RP-	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company EOG Y Resources, Inc.	OGRID Number 25575	Contact Chase Settle
Address 104 S. 4 TH Street		Telephone No. 575-748-4147
Facility Name NDDUP #108	API Number 30-015-27378	Facility Type Well
Surface Owner Fee	Mineral Owner Fee	Lease No.

LOCATION OF RELEASE

Unit Letter H	Section 30	Township 19S	Range 25E	Feet from the 1665	North/South Line North	Feet from the 660	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.63444 Longitude 104.51701

NATURE OF RELEASE

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Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* The release was caused by failure of a produced water line.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 146' X 85' affected off location from failure of a produced water flow line. Vacuum trucks and a backhoe were called to recover standing produced water and remove impacted soil. Excavated soils will be hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) 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: >100' (approximately 200', Section 30, T19S-R25E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. All work completed per approved NMOCD work plan, Closure Requested.		
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Signature: <i>Chase Settle</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chase Settle	Approved by District Supervisor:	
Title: Safety & Environmental Rep II	Approval Date:	Expiration Date:
E-mail Address: Chase.Settle@eogresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Thursday, April 12, 2018 Phone: 575-748-4171	2RP-	

* Attach Additional Sheets If Necessary

District I
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 55833

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 55833
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Closure approved on and under old guidelines and report dates. Not todays needs.	10/20/2021