



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

May 5, 2022

Bradford Billings
EMNRD
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Barbara Federal #10 Pipeline
30-015-26570
I-31-19S-25E
Eddy County, NM
2RP-2061
Incident # nJMW1331831899

EOG Resources, Inc. is submitting the enclosed Closure Report in response to the denial issued by NMOCD on March 22, 2022. EOG Resources, Inc. attempted to comply with the request made by NMOCD for additional boundary sampling to be conducted, however the private surface owner did not grant permission for these activities to occur. Once access was not granted, EOG Resources, Inc. performed further research of the remediation uncovering that sidewall sampling had been conducted appropriately for the time, and that records indicate verbal approval of closure by NMOCD in 2014. The remedial actions completed for the site, the timeline of the completions of these activities, as well as the notes of NMOCD correspondence are summarized and included with this Closure Report.

EOG Resources, Inc. has included a C-141 Final with the most current form in this Closure Report, and hereby requests closure of the open incident.

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

Respectfully,

Chase Settle

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

Barbara Federal #10 Pipeline

Closure Report

30-015-26570

I-31-19S-25E

Eddy County, NM

May 5, 2022

2RP-2061

nJMW1331831899



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I. Location

The site is located approximately 6 miles west of Seven Rivers in Eddy County, New Mexico.

II. Background

On November 2, 2013, a release was discovered by the private surface owner on a produced water pipeline that had previously been removed from service. The volume released was unable to be determined since the line had previously been removed from service, and there was not a recovered volume due to the release absorbing into the surrounding soil. The approximate area identified as impacted was 300 feet by 200 feet. Yates Petroleum Corporation (YPC) sent a release notification email (Appendix B) to the NMOCD District II office on November 4, 2013. At that time the produced water transfer system, or an associated API, were unknown, therefore it was stated that full details would be included with the C-141 Initial submission. The C-141 Initial was submitted to NMOCD on November 8, 2013, as evidenced by the receipt stamp on the document (Appendix A).

III. Initial Site Delineation

Excavation of visually impacted soils began immediately after discovery of the release. Through the month of November 2013, impacted soils were excavated to a depth of three (3) feet across the visually impacted area. Initial samples from the release area were collected on December 9, 2013. Analytical results exhibited that BTEX and TPH were not issues for the site as BTEX was non-detect for all samples and TPH concentration was less than fifty (50) mg/kg for all samples. Chloride concentration numbers ranged from 4640 to 7600 mg/kg, identifying chloride as the remaining constituent of concern for the site.

Further delineation samples were collected on December 31, 2013, to determine chloride concentrations and identify the decline in concentration as was the standard during this time period. Analytical results returned from the laboratory on January 8, 2014, with results showing a decline in chloride concentration for the site. A meeting was scheduled between YPC, NMOCD District II, and the private landowner to determine the remediation plan for the site.

IV. Remediation Activities

January 30, 2014, a site meeting was held with YPC (Robert Asher), NMOCD District II (Mike Bratcher), TNT (YPC contractor), and the private surface owner. It was determined, after discussion between all parties, that the pasture area would be excavated to four (4) feet below grade surface (bgs) and that the current excavated area would be extended in depth from three (3) feet to between six (6) and eight (8) feet bgs. Notes within the Internal Activity Log (Appendix C) describe the details of the meeting between all involved participants. With the remediation plan for the site agreed to during the on-site meeting, excavation continued at the site to meet the excavation depths which all had agreed to.

On March 4, 2014, the dirt contractor called the YPC to inform that the private surface owner had discovered visual chloride impacts on the sidewalls of the excavation after a recent precipitation event. To address these concerns, YPC instructed the contractor to perform further excavation of the sidewalls, hauling the excavated soils to disposal. YPC then performed confirmation sampling in the areas (SESW, ESW, NSW, and SSW) that had been addressed. Analytical results confirmed concentrations that ranged from <16.0 mg/kg for two areas to a high of 464 mg/kg in one area, with the fourth area having a concentration of 48 mg/kg for chloride.

On March 17, 2014, the contractor notified YPC that alternate areas were showing visual signs of chloride surfacing after additional precipitation had been received. The additional areas were sampled by YPC on March 20, 2014. These areas are identified as N, S, NB, SB, WNSW, WWSW, and WSSW in the analytical results accompanying this report as Appendix D. On March 27, 2014, YPC instructed the contractor to excavate the soils showing visual impacts of chloride migration from the most recent precipitation event and stockpile the soils on plastic within the release excavation area to be sampled for determination of chloride concentration.

A meeting was held on-site on April 8, 2014, between YPC's Land and Environmental staff with the private surface owner. Once the meeting was completed, further sampling was completed of the stockpiled soil and sidewalls that had been further excavated. An in person meeting at the NMOCD District II office was then had between Robert Asher (YPC) and Mike Bratcher (NMOCD) to discuss the site remediation. A follow up meeting was held on April 21, 2014, after the analytical results had returned from the laboratory between Robert Asher and Mike Bratcher. During this meeting NMOCD requested that further vertical delineation be completed in the NB area of the site for chloride delineation.

The NB area was sampled further vertically on April 23, 2014, with additional sampling occurring on May 5, 2014, using an excavator. Initial results of the April 23rd sampling did not emphasize a decrease in chloride, therefore an excavator was used to extend the sampling depth to thirty-two (32) feet bgs where chloride concentrations had declined.

After analytical results had returned from the May 5th sampling event, another in-person meeting was conducted between Robert Asher (YPC) and Mike Bratcher (NMOCD) at the District II Office on May 8, 2014. During this meeting the sample results of the deeper delineation were presented to NMOCD, and NMOCD approved the installation of a liner in the west area of the excavation. NMOCD also provided approval for closure of the site by allowing backfill activities to commence. This meeting is summarized in a follow up email from Robert Asher to Mike Bratcher on the same date (Appendix B).

On May 13, 2014, during an on-site meeting between YPC, the contractor, and private surface owner, it was requested of YPC by the private surface owner to backfill with the stockpiled material prior to the installation of the liner. Since performing the requested actions would only bring the liner up to a depth of eight (8) feet bgs from ten (10), YPC agreed to the amendment and sent a follow-up email (Appendix B) to NMOCD on May 14, 2014, explaining the change in scope.

Backfill and liner installation activities were completed on June 30, 2014, with reseeding occurring once those activities had been completed.

V. Closure Report

The release received closure approval (permission to backfill) from NMOCD verbally on May 8, 2014, during the in-person conducted at the NMOCD District II office between Robert Asher (YPC) and Mike Bratcher (NMOCD). Once the backfill, liner installation, and seeding activities were complete, YPC submitted to NMOCD a C-141 Final on July 2, 2014, requesting closure (Appendix E).

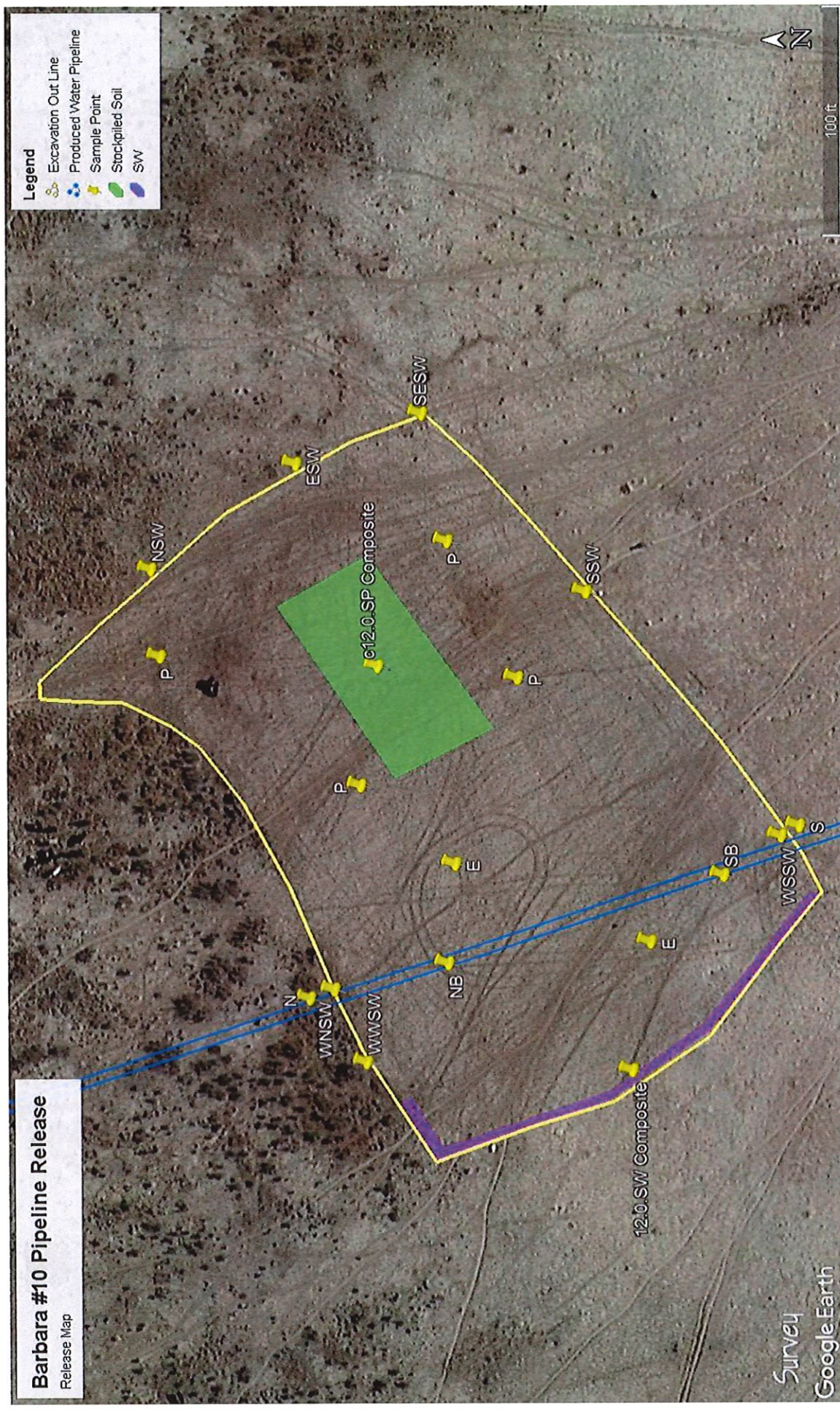
Based on the verbally approved closure, and evidence of the remediation being completed in an appropriate method for the time period, EOG is submitting the current C-141 Closure Form as Appendix F requesting official closure of nJMW1331831899 (2RP-2061).

Site Map



Barbara Federal #10 Pipeline
Closure Report
#nJMW1331831899

May 5, 2022



*Sample Point locations are approximate, GPS was not used for marking sampling points during this time



Sample Results Table

Barbara Federal #10 Pipeline
Closure Report
#nJMW1331831899



May 5, 2022

Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	Total TPH	Chlorides
C01.0.E	4	12/9/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	34.3	34.3	4640
C02.0.E	5	12/9/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.4	44.4	5680
C03.0.E	6	12/9/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	35.1	35.1	7600
C04.0.E	7	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	3858
C05.0.E	8	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	2615
C06.0.E	9	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	3101
C07.0.E	10	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	2370
C08.0.E	11	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	2835
C09.0.E	12	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	2230
C00.25.P	3.25	12/9/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.6	31.6	5040
C01.0.P	4	12/9/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.1	30.1	6800
C02.0.E	5	12/9/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.6	36.6	7280
C03.0.E	6	12/9/13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	5760
C04.0.P	7	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	1286
C05.0.P	8	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	958
C06.0.P	9	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	1041
C07.0.P	10	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	1203
C08.0.P	11	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	883.9
C09.0.P	12	12/31/13	NR	NR	NR	NR	NR	NR	NR	NR	824.7
C04X2 (NSW)	0-4	3/4/14	NR	NR	NR	NR	NR	NR	NR	NR	<16.0
C04X2 (ESW)	0-4	3/4/14	NR	NR	NR	NR	NR	NR	NR	NR	48
C04X2 (SESW)	0-4	3/4/14	NR	NR	NR	NR	NR	NR	NR	NR	464
C04X2 (SSW)	0-4	3/4/14	NR	NR	NR	NR	NR	NR	NR	NR	<16.0
C01.0.N	1	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	ND
C02.0.N	2	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	ND
C03.0.N	3	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	ND
C01.0.S	1	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	ND
C02.0.S	2	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	ND
C03.0.S	3	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	ND
C10.0. WNSW	0-10	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	970
C10.0. WWSW	0-10	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	1500
C10.0. WSSW	0-10	3/20/14	NR	NR	NR	NR	NR	NR	NR	NR	1500
C11.0.NB	11	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	2200
C12.0.NB	12	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	2200
C13.0.NB	13	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	2100
C14.0.NB	14	4/23/14	NR	NR	NR	NR	NR	NR	NR	NR	4160
C15.0.NB	15	4/23/14	NR	NR	NR	NR	NR	NR	NR	NR	4960
C16.0.NB	16	4/23/14	NR	NR	NR	NR	NR	NR	NR	NR	7680
C18.0.NB	18	5/5/14	NR	NR	NR	NR	NR	NR	NR	NR	7300
C20.0.NB	20	5/5/14	NR	NR	NR	NR	NR	NR	NR	NR	4480
C22.0.NB	22	5/5/14	NR	NR	NR	NR	NR	NR	NR	NR	4560
C24.0.NB	24	5/5/14	NR	NR	NR	NR	NR	NR	NR	NR	4800
C26.0.NB	26	5/5/14	NR	NR	NR	NR	NR	NR	NR	NR	5440
C28.0.NB	28	5/5/14	NR	NR	NR	NR	NR	NR	NR	NR	5840
C30.0.NB	30	5/5/14	NR	NR	NR	NR	NR	NR	NR	NR	3120
C32.0.NB	32	5/5/14	NR	NR	NR	NR	NR	NR	NR	NR	2080
C11.0.SB	14	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	2500
C12.0.SB	15	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	2300
C13.0.SB	16	3/20/14	ND	ND	ND	ND	ND	ND	ND	ND	150
C12.0.SW	0-12	4/8/14	NR	NR	NR	NR	NR	NR	NR	NR	710
C12.0.SP	0-4	4/8/14	NR	NR	NR	NR	NR	NR	NR	NR	240

*All results mg/kg

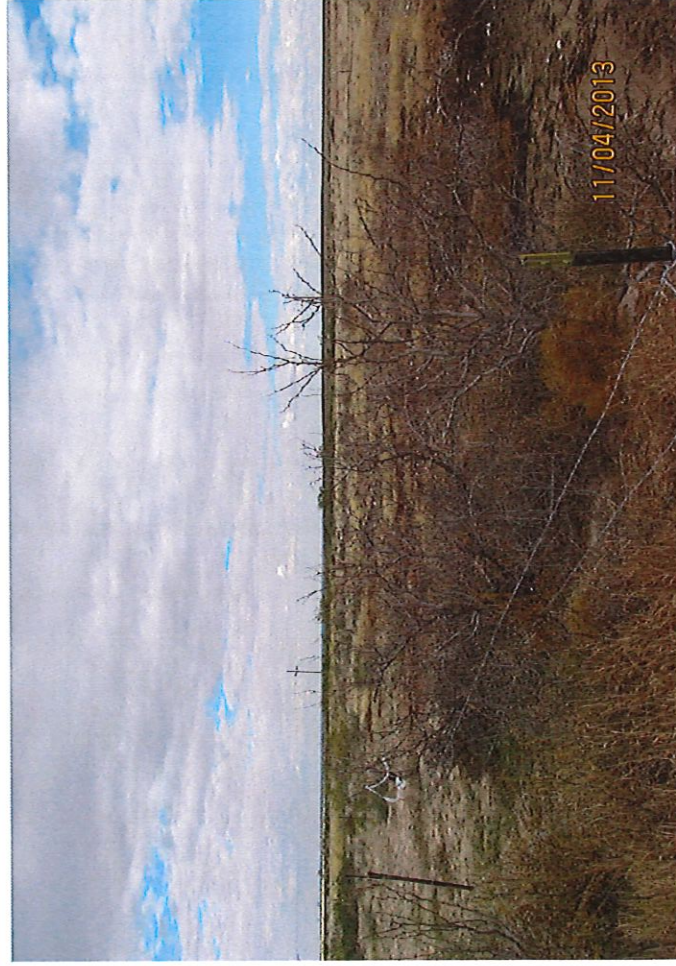
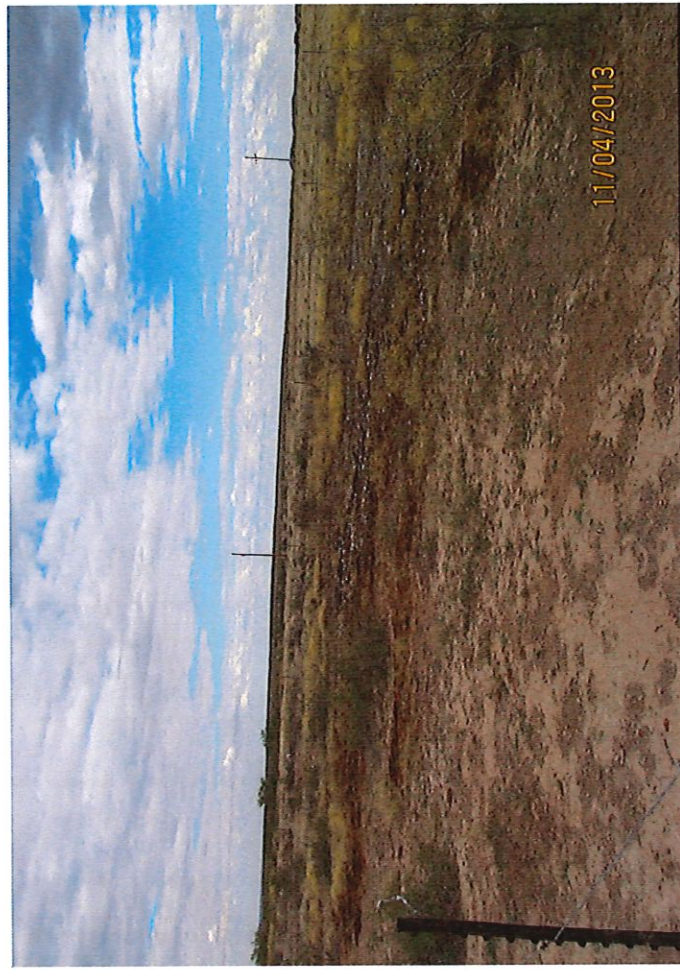
ND: Non-detectable concentration

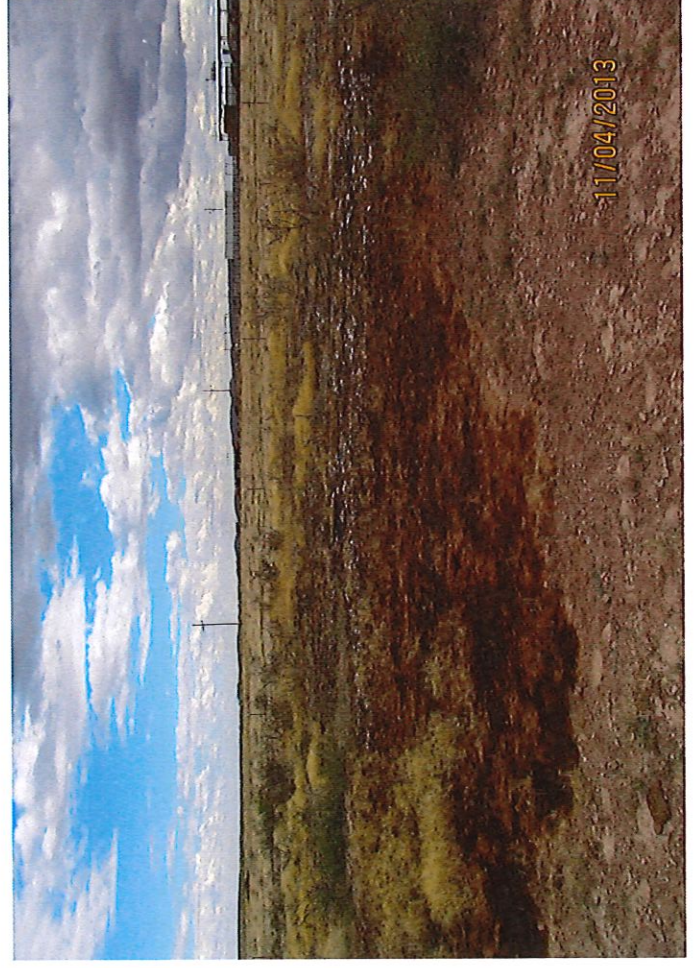
NR: constituent not analyzed

energy opportunity growth

Photos



















Appendix A

Original C-141 Initial

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

RECEIVED

NOV 08 2013

NMOCD ARTESIA

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

NM 1331831899

Name of Company Yates Petroleum Corporation		OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street		Telephone No. 575-748-1471	
Facility Name Barbara #1 Pipe Line		API Number 30-015-26570	Facility Type Water Transfer Pipe Line
Surface Owner Fee <i>Federal</i>		Mineral Owner	Lease No.

☒ Initial Report ☐ Final Report

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	31	19S	25E					Eddy

Latitude ___ Longitude ___

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Unknown B/PW	Volume Recovered Unknown B/PW
Source of Release Pipe line	Date and Hour of Occurrence 11/2/2013 - AM	Date and Hour of Discovery 11/2/2013 - AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 11/4/2013 (E-mail)	
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.*

Buried pipe line from the Barbara #10 well developed a leak on the Wilbank's Ranch, releasing produced water. Vacuum truck(s) called, Backhoe crew called.

Describe Area Affected and Cleanup Action Taken.*

An approximate area of 300' X 200'. Line repaired, release area and sprayed pasture fenced off. Impacted soils being excavated and scraped from release and sprayed area, hauled to an 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 a work plan will be submitted to the OCD. Depth to Ground Water: >100' (228' Chevron/Texaco 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 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>Robert Asher</i>	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by District Supervisor:	Signed By <i>Mike Bratcher</i>
Title: NM Environmental Regulatory Supervisor	Approval Date: NOV 14 2013	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION	Attached <input type="checkbox"/>
Date: Friday, November 08, 2013	Phone: 575-748-1471	

* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:

December 14, 2013

2RP-2061

Appendix B

NMOCD Email Correspondence

Bratcher, Mike, EMNRD

From: Bob Asher <BobA@yatespetroleum.com>
Sent: Monday, November 04, 2013 9:25 AM
To: Bratcher, Mike, EMNRD; Dade, Randy, EMNRD
Cc: Amber Cannon; Katie Parker; Lupe Carrasco
Subject: Release (Section 31, T19S-R25E)

Yates Petroleum Corporation is reporting a release at the following location (11/2/2013).

Section 31, T19S-R25E
Eddy County, New Mexico

Released: Unknown; Recovered: In Process.

Cause of release is from a buried water line. At this time the release has not been designated with a water system name or API Number, it was discovered on the Wilbank's property. Complete information will be submitted in a Form C-141.

Thank you.

Robert Asher

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

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Bob Asher

From: Bob Asher
Sent: Thursday, May 08, 2014 9:14 AM
To: (mike.bratcher@state.nm.us)
Subject: Willbank's Excavation

Mike,

Per our meeting this morning, 5/8/2014, Yates will proceed with lining the ten (10) foot excavation with a 20 mil liner at 10' below surface level and start backfilling the excavation to a depth of four (4) feet below surface level, then proceed with backfill and compressing a 2' caliche layer and finishing the backfill with 2' feet of topsoil.

Thank you.

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

Bob Asher

From: Bob Asher
Sent: Wednesday, May 14, 2014 2:20 PM
To: (mike.bratcher@state.nm.us)
Subject: 5/13/2014 Wilbanks Meeting

Mike,

I wanted to recap yesterday's meeting with Kevin Wilbanks, Jerry Chaves/TNT and myself. Kevin stated that the large stockpiled soils that came from the excavated area directly below the removed pipe line was showing some chloride runoff after a rain shower a few weeks ago. I had pulled a grab composite from that stockpile and results were below 1000 ppm, but there could have been a higher concentration of chlorides within the stockpile that was not part of the 4/8/2014 sample results. With the work that had proceeded since Kevin noticed the chlorides, material had been moved around the stock pile and was not visible yesterday. Kevin asked if the stockpiled soils could be placed back in the excavation (since we have analytical results indicating higher chlorides below the ten (10) foot bottom of the excavation) and place the liner as we discussed last week over that backfill.

With that process the liner will be at an approximate depth of eight (8) feet instead of ten, but well below if any future pipe lines were installed, it also makes Kevin more comfortable about the stock piled materials being under the liner. The backfill on top of the liner will be caliche from Kevin's pit and will be clean with no chlorides with a 2 foot cap of top soil.

If you have any question, please contact me.

Thank you.

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

Appendix C

Internal Activity Log

Status Report

Well/Location Name: Barbara Federal #10 (Wilbanks Pipe Line Release)

Field Supervisor: Mike Farmer

Location: Section 31, T19S-R25E

Eddy County, NM

Latitude:

Longitude:

API # 30-015-26570

Surface Owner: Fee

Mineral Owner: Fee

Lease No.

Directions:

SITE RANKING IS Zero (0). Depth to Ground Water: >100' (approx. 228', per the ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000'.

Date	Comment
11/2/2013	Released: Unknown B/PW; Recovered: Unknown B/PW
11/4/2013	Initial Check/Photos. Excavation work in progress. ^{W/B} C-1470000.
11/18/2013	Progress Check on Excavation work
11/20/2013	Progress Check on Excavation work.
12/7/2013	Samples (enclosed log) sent to Cardinal (picked up 12/11/13)
12/12/2013	Analytical results (H302991), Based on results (BTEX-ND, TPH (DRO <50 ppm). Chlorides range from 4640 → 7600 ppm (4' - 6' ASL); 5040 → 7280 ppm (2.5' - 4.0') & 5760 ppm @ 5'. Based on results further delineation needed.
12/31/2013	Samples (enclosed log), Picked up by Summit
1/8/2014	Laboratory Report (1400002/Summit). Showing decrease of Chlorides. To meet w/ Wilbanks, M. Bratcher/Innocent & TNT for work plan discussion.
1/30/2014	Meeting w/ M. Bratcher/Innocent; Jerry Graves/TNT; Kevin Wilbanks. Discussed proposed remediation to include excavate eastern area to 3' & excavation area to approximately 6-8'. Lay crushed compact to create natural barrier & backfill w/ like soils, this based on excel spreadsheet of analytical results. Kevin Wilbanks asked about remaining chlorides in soils, I responded that with 18" of compacted crushed that water (precipitation) would not likely get to a depth of 3' & allow chlorides to move vertical. Innocent recommended that 4' of impacted soils be removed to a depth of 4' total (depth

1/30/2014

Page 2Status Report

Well/Location Name: Barbara Federal #10 (Wilbanks Pipe Line Release)

Field Supervisor: Mike Farmer

Location: Section 31, T19S-R25E

Eddy County, NM

Latitude:

Longitude:

API # 30-015-26570

Surface Owner: Fee

Mineral Owner: Fee

Lease No.

Directions:

SITE RANKING IS Zero (0). Depth to Ground Water: >100' (approx. 228', per the ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000'.

Date	
1/31/2014	TO JURY IN EXCAVATION AREA) LATES WOULD THEN BACKFILL W/ 2' OF COMPACTED GRAVEL & 2' OF LIKE SOILS, ALL PRESENT WERE IN AGREEMENT WITH THIS REMEDIATION PROCESS.
	EXCAVATION & HAULING OFF OF IMPACTED SOILS CONTINUED. UPC WOULD PURCHASE MATERIAL/SURFACE DAMAGE OR RESEED MEASURED AREA FOR SURFACE DAMAGES.
2/3/2014	EMailed Armando/Lowd WITH AREA MEASUREMENTS FOR [REDACTED]
2/4/2014	EMAIL from Armando, DAMAGES CURRENTLY PAID ARE [REDACTED]. ENCLOSED EMAIL.
3/4/2014	CALLS BY TNT, KEVIN WILBANKS SAW CHLORIDES ON EDGES OF EXCAVATION, HAD TNT EXCAVATE/HAUL SOILS, COLLECTED SAMPLES (ENCLOSED LOG). CHLORIDES APPEARED AFTER PRECIPITATION EVENT IN AREA A COUPLE DAYS BEFORE. DISCUSSED INSTALLATION OF LINER ON SURFACE TO SE TO EAST EDGE OF EXCAVATION (TRENCH ALONG EDGE & PUT LINER BELOW 4' BOTTOM & ON SIDEWALL).
3/6/2014	ANALYTICAL RESULTS (H400677). BASED ON RESULTS (SESW, 4' DEEP X 2' INTO SIDEWALL @ 464 ppm CHLORIDES. ESW, 4' DEEP X 2' INTO SIDE WALL @ 48 ppm CHLORIDES AND NSW & SSW ARE <16.0 ppm) NO FURTHER ACTIONS TAKEN.
3/17/2014	TNT CAUSED MORE CHLORIDES FROM PRECIPITATION, SCHEDULED SAMPLING FOR 3/20/2014
3/20/2014	SAMPLES (ENCLOSED LOG), PICKED UP BY SUMMIT 3/24/2014 (72 HR TNT).

4/14/2014

Status Report

Well/Location Name: Barbara Federal #10 (Wilbanks Pipe Line Release)

Field Supervisor: Mike Farmer

Location: Section 31, T19S-R25E

Eddy County, NM

Latitude:

Longitude:

API # 30-015-26570

Surface Owner: Fee

Mineral Owner: Fee

Lease No.

Directions:

SITE RANKING IS Zero (0). Depth to Ground Water: >100' (approx. 228', per the ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000'.

Date	Comment
3/21/2014	ON SITE CHECK, KATE PARSON & JERRY GAVES/TNT. KEVIN WILBANKS CAME OVER, DISCUSSED CUTTING OUT SLOPE (SOUTH SIDEWAY TO EAST SIDEWAY TRENCH (see COUCH)). [REDACTED]
	[REDACTED]
	(PLEASE SEE ENCLOSED EMAIL).
3/24/2014	Email Reply from TRAVIS/LAND (enclosed).
3/27/2014	TNT CAUSED (migrating CHLORIDES/ROD), WENT TO LOCATION, INSTRUCTED TNT TO EXCAVATE/STOCKPILE ON QUASTAC AND I WOULD SAMPLE AFTER APRIL 7TH.
4/7/2014	Meeting w/ LAND (ARMANDO, BILLY & TRAVIS) PRODUCTION (LEE RAY & DEC.) & ENVIRO (KATE, AMBER, MANNIE, CHASE & MYSELF). [REDACTED]
	[REDACTED]
	[REDACTED] REMEDIATION IS PER NMDCD STANDARDS. ENVIRONMENTAL CONTACT IS BOB ASHER. REVIEWED MEETING ON 4/8 w/ LAND & ENVIRO w/ KEVIN WILBANKS, ARMANDO TO SET TIME, WENT TO LOCATION TO REMEDIATION (CAUSED K. WILBANKS). [REDACTED]
4/8/2014	MEETING ON LOCATION. K. WILBANKS, LAND (ARMANDO, CYCOWAN, TRAVIS, BILLY) ENVIRO (KATE, CHASE, AMBER & MYSELF). K. WILBANKS STATED HE DID NOT LIKE [REDACTED] NOTES WILL DO BOTH, ARMANDO EXPLAINED DAMAGE PROCESS WITH

4/14/2014

Status Report

Well/Location Name: Barbara Federal #10 (Wilbanks Pipe Line Release)

Field Supervisor: Mike Farmer

Location: Section 31, T19S-R25E

Eddy County, NM

Latitude:

Longitude:

API # 30-015-26570

Surface Owner: Fee

Mineral Owner: Fee

Lease No.

Directions:

SITE RANKING IS Zero (0). Depth to Ground Water: >100' (approx. 228', per the ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000'.

Date	Comment
4/8/2014	Drilling PADS. I GAVE K. WILBANKS A DRAFT for [REDACTED] & REGARDING PROPOSAL. LETTER SENT CERTIFIED MAIL RECEIPT SAME DAY. [REDACTED]
	[REDACTED] I INFORMED GROUP THAT I WOULD COLLECT SAMPLES FROM STOCK PILE & SIDEWALLS, SAMPLES COLLECTED TO SEND TO SUMMIT. K WILBANKS WANTED GROUP TO GO TO NEW RELEASE (NORTH OF FRENCH HOUSE). K. WILBANKS HAD ALLEN HODGE/ PHOENIX ENVIRONMENT THERE. [REDACTED]
	[REDACTED] SURVEYED AREA & DISCUSSED W/ ENVICO THE SUGGESTION OF DIGGING A TRENCH TO REVEAL WATER. I WAS ASKED BY K. WILBANKS TO GO TO RELEASE AREA WITH HIM & A. HODGE, TO DISCUSS YPC REMEDIATION, I DECLINED, BRIEFLY INFORMED BOTH PARTIES PLAN (2' COMPACTED GRAVEL & 2' OF LIKE SOILS), A. HODGE SUGGESTED RED BED CLAY OR SYNTHETIC LINER, HODGE ALSO STATED THAT PROCTOR DENSITY SHOULD BE CONDUCTED. I SAID THAT I WOULD CHECK W/ NMCD ABOUT BOTH, LEFT SITE [REDACTED] AFTER GOING TO KENT BSK#1, STOPPED AT NMCD/ARTESIA OFFICE & SPOKE TO M. BRUTCHER.

4/14/2014

Status Report

Well/Location Name: Barbara Federal #10 (Wilbanks Pipe Line Release)

Field Supervisor: Mike Farmer

Location: Section 31, T19S-R25E

Eddy County, NM

Latitude:

Longitude:

API # 30-015-26570

Surface Owner: Fee

Mineral Owner: Fee

Lease No.

Directions:

SITE RANKING IS Zero (0). Depth to Ground Water: >100' (approx. 228', per the ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000'.

Date	Comment
4/8/2014	CHALKER DENSITY #1's & PROCTOR DENSITY, M. BRATCHER SAID THERE IS LANGUAGE IN GUIDELINES ON CHALKER DENSITY / PROCTOR DENSITY BUT HE WOULD NOT REVIEW. I ALSO ASKED ABOUT USING A COMUL LNER W/CHALKER & BACKFILL, M. BRATCHER SAID YPC COULD USE EITHER.
4/21/2014	MET w/ M. BRATCHER (WMOED ARTSIA OFFICE). DISCUSSED ENCLOSED SAMPLE RESULTS, M. BRATCHER REQUESTED FURTHER DELINEATION IN NB (NORTH BOTTOM) SECTION FOR DECREASE IN CHLORIDES. SCHEDULED SAMPLING W/INT FOR WEDNESDAY, 4/23/14 @ 10 AM. PER M. BRATCHER SAMPLE AREA OWS BE BACKFILLED WHEN SAMPLES TAKEN.
4/23/2014	SAMPLES (ENCLOSED LOG), TO SEND TO CARDINAL TO RUN FOR CHLORIDES. CALLED K. WILBANKS TO NOTIFY, LEFT VM, HAD MISSED CALL FROM K. WILBANKS, CALLED BACK & SPOKE TO WOMAN WHO SAID K. WILBANKS UNAVAILABLE, I TOLD HER I'D CALL VM EARLIER & IF QUESTIONS K. WILBANKS COULD CALL ME, RECEIVED NO RETURN CALL.
4/24/2014	CALL K. WILBANKS (KATE P/YPC SATIN ON CALL). INFORMED K. WILBANKS THAT SAMPLES TAKEN & WHEN ACCEPTED BY WMOED, YATES WOULD PROCEED W/BACKFILL (PER 1/30/2014 MEETING W/ WMOED, TNT, K WILBANKS & YPC).

4/14/2014

Status Report

Well/Location Name: Barbara Federal #10 (Wilbanks Pipe Line Release)

Field Supervisor: Mike Farmer

Location: Section 31, T19S-R25E

Eddy County, NM

Latitude:

Longitude:

API # 30-015-26570

Surface Owner: Fee

Mineral Owner: Fee

Lease No.

Directions:

SITE RANKING IS Zero (0). Depth to Ground Water: >100' (approx. 228', per the ChevronTexaco Trend Map), Wellhead Protection Area: No. Distance to Surface Water Body: >1000'.

Date	Comment
4/25/2014	Analytical Results (H401247, Cardinal), Based on results will require deeper for decrease in chlorides
5/2/2014	Met w/JERRY/TNT TO Schedule Sampling w/TRACHEE (5/5/2014).
5/5/2014	Samples (enclosed bag), delivered to Cardinal w/THAT TNT.
5/6/2014	Analytical Results (H401364), Based on results will meet w/M. BRATCHER - NMCD TO DISCUSS Limer & BACKFILL.
5/8/2014	Meeting WITH M. BRATCHER /NMCD TO DISCUSS SAMPLE RESULTS. M. BRATCHER APPROVED Limer @ 10' IN WEST SIDE (DEEP EXCAVATION AREA) & BACKFILL.
5/13/2014	Meeting @ W#1 (K. WILBANKS, JCHAVES/TNT & BOB A. HODG). K. WILBANKS ASKED ABOUT [REDACTED]
	[REDACTED]
	K. WILBANKS REQUESTED THAT STOCK PILE BE BACKFILLED UNDER LIMER (SHOW OF CHLORIDES FROM PREVIOUS RAIN BUT NOT CURRENTLY VISIBLE BE CAUSE OF CURRENT BACKFILL WORK, I AGREED TO DO THAT. BACKFILL WORK TO START 5/14/2014
5/14/2014	Rec'd of 5/13 meet in e-mail to M. BRATCHER, NMCD (ENCLOSED).
5/21/2014	[REDACTED]

6/5/2014

Status Report

Well/Location Name: Barbara Federal #10 (Wilbanks Pipe Line Release)

Field Supervisor: Mike Farmer

Location: Section 31, T19S-R25E

Eddy County, NM

Latitude:

Longitude:

API # 30-015-26570

Surface Owner: Fee

Mineral Owner: Fee

Lease No.

Directions:

SITE RANKING IS Zero (0). Depth to Ground Water: >100' (approx. 228', per the ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000'.

[illegible]

6/5/2014

Status Report

Well/Location Name: Barbara Federal #10 (Wilbanks Pipe Line Release)

Field Supervisor: Mike Farmer

Location: Section 31, T19S-R25E

Eddy County, NM

Latitude:

Longitude:

API # 30-015-26570

Surface Owner: Fee

Mineral Owner: Fee

Lease No.

Directions:

SITE RANKING IS Zero (0). Depth to Ground Water: >100' (approx. 228', per the ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000'.

Date	Comment
6/3/2014	CAUSED CEASAR / TCS, WILL MEET @ LOCATION TO BEGIN HAULING OF RAINWATER TO KING SWD#1. WILL START LATER TODAY. CAUSED K WILBANK ON WHAT YPL WANTED TO DO SO BACKFILL WORK COULD START UP SOONER, HE WAS OKAY W/ WATER HAULING. CHECKED WATER IN AFTERNOON (ABMT 3pm) TOLD TRUCK DRIVER TO FINISH UP & COMPLETE BY 6/4/2014
6/9/2014	BACKFILL WORK CONTINUING
6/30/2014	BACKFILL FINISHED, CONTACTED BY RAY MONTGOMERY FOR DIME AMOUNT OF BACKFILL USED
7/2/2014	
7/2/2014	SUGGESTION (EMAIL) FROM C-141 REQUESTING CLOSER TO M. BARTCHER / AMOCH II - ARTESIA.

Appendix D

Analytical Reports



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

December 18, 2013

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BARBARA FEDERAL #10

Enclosed are the results of analyses for samples received by the laboratory on 12/11/13 11:00.

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
 ROBERT ASHER
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received: 12/11/2013
 Reported: 12/18/2013
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: C01.0E (H302991-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2013	ND	1.94	96.9	2.00	1.16	
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216	
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18	
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07	
Total BTX	<0.300	0.300	12/13/2013	ND					

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

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	12/16/2013	ND	157	78.5	200	4.34	
DRO >C10-C28	34.3	10.0	12/16/2013	ND	194	96.8	200	2.72	

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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
 ROBERT ASHER
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received: 12/11/2013
 Reported: 12/18/2013
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: C02.0E (H302991-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2013	ND	1.94	96.9	2.00	1.16	
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216	
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18	
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07	
Total BTEX	<0.300	0.300	12/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.5 % 89.4-126

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	12/16/2013	ND	157	78.5	200	4.34		
DRO >C10-C28	44.4	10.0	12/16/2013	ND	194	96.8	200	2.72		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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* = Accredited Analyte

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Analytical Results For:

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

Received: 12/11/2013
 Reported: 12/18/2013
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: C03.0E (H302991-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2013	ND	1.94	96.9	2.00	1.16		
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216		
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18		
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07		
Total BTEX	<0.300	0.300	12/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 89.4-126

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	12/16/2013	ND	157	78.5	200	4.34		
DRO >C10-C28	35.1	10.0	12/16/2013	ND	194	96.8	200	2.72		

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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* = Accredited Analyte

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 ROBERT ASHER
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received: 12/11/2013
 Reported: 12/18/2013
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: C00.25P (H302991-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2013	ND	1.94	96.9	2.00	1.16	
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216	
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18	
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07	
Total BTEX	<0.300	0.300	12/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.3 % 89.4-126

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	12/16/2013	ND	157	78.5	200	4.34	
DRO >C10-C28	31.6	10.0	12/16/2013	ND	194	96.8	200	2.72	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/11/2013
 Reported: 12/18/2013
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: C01.0P (H302991-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2013	ND	1.94	96.9	2.00	1.16	
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216	
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18	
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07	
Total BTEX	<0.300	0.300	12/13/2013	ND					

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

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	12/16/2013	ND	157	78.5	200	4.34	
DRO >C10-C28	30.1	10.0	12/16/2013	ND	194	96.8	200	2.72	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/11/2013
 Reported: 12/18/2013
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: C02.0E (H302991-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2013	ND	1.94	96.9	2.00	1.16	
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216	
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18	
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07	
Total BTEX	<0.300	0.300	12/13/2013	ND					

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

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	12/16/2013	ND	157	78.5	200	4.34	
DRO >C10-C28	36.6	10.0	12/16/2013	ND	194	96.8	200	2.72	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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
 ROBERT ASHER
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received: 12/11/2013
 Reported: 12/18/2013
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: C03.0E (H302991-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2013	ND	1.94	96.9	2.00	1.16	
Toluene*	<0.050	0.050	12/13/2013	ND	1.95	97.5	2.00	0.216	
Ethylbenzene*	<0.050	0.050	12/13/2013	ND	1.95	97.6	2.00	1.18	
Total Xylenes*	<0.150	0.150	12/13/2013	ND	5.83	97.2	6.00	2.07	
Total BTEx	<0.300	0.300	12/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.2 % 89.4-126

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	12/16/2013	ND	157	78.5	200	4.34	
DRO >C10-C28	33.8	10.0	12/16/2013	ND	194	96.8	200	2.72	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**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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Celey D. Keene, Lab Director/Quality Manager



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

December 18, 2013

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BARBARA FEDERAL #10

Enclosed are the results of analyses for samples received by the laboratory on 12/11/13 11:00.

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
 ROBERT ASHER
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received: 12/11/2013
 Reported: 12/18/2013
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: C01.0E (H302991-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	12/18/2013	ND	416	104	400	0.00	

Sample ID: C02.0E (H302991-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	12/18/2013	ND	416	104	400	0.00	

Sample ID: C03.0E (H302991-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	12/18/2013	ND	416	104	400	0.00	

Sample ID: C00.25P (H302991-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	12/18/2013	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

Analytical Results For:

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

Received: 12/11/2013
 Reported: 12/18/2013
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: C01.OP (H302991-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	12/18/2013	ND	416	104	400	0.00	

Sample ID: C02.OE (H302991-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	12/18/2013	ND	416	104	400	0.00	

Sample ID: C03.OE (H302991-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	12/18/2013	ND	416	104	400	0.00	

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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 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

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Celey D. Keene, Lab Director/Quality Manager



LABORATORY REPORT

Client

Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210

Order Number

1400002

Project Number

Barbara Federal #10

Issued

Wednesday, January 08, 2014

Total Number of Pages

5 (excluding C.O.C. and cooler receipt form)

Approved By :

QA Manager



Certifications: A2LA/DOD 0724.01, Alabama 41600, Arkansas 88-0735, California 07256CA, Colorado, Connecticut PH-0105, Delaware, Florida NELAC E87688, Georgia E87688 and 943, Idaho OH00923, Illinois 200061 and Reg.5, Indiana C-OH-13, Kansas E-10347, Kentucky (underground Storage Tank) 3, Kentucky 90146, Louisiana 04061 and LA12004, Maine 2012015, Maryland 339, Massachusetts M-OPH923, Michigan (Reg.5), Minnesota 409711, Montana CERT0099, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, Ohio 4170, Ohio VAP CL0052, Oklahoma 9940, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Tennessee TN04018, Texas T104704466-11-5, Region 5 WG-15J, Region 8 8TMS-L, USDA/APHIS P330-11-00244, Utah OH009232011-1, Vermont VT-87688, Virginia 00440 and 1581, Washington C891, West Virginia 248 and 9957C and E87688, Wisconsin 399013010

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Web Site: www.settek.com



Sample Summary

Client: Yates Petroleum Corporation

Order Number: 1400002

Laboratory ID	Client ID	Matrix	Sampling Date
1400002-01	c04.0.E	Solid	12/31/2013
1400002-02	c05.0.E	Solid	12/31/2013
1400002-03	c06.0.E	Solid	12/31/2013
1400002-04	c07.0.E	Solid	12/31/2013
1400002-05	c08.0.E	Solid	12/31/2013
1400002-06	c09.0.E	Solid	12/31/2013
1400002-07	c04.0.P	Solid	12/31/2013
1400002-08	c05.0.P	Solid	12/31/2013
1400002-09	c06.0.P	Solid	12/31/2013
1400002-10	c07.0.P	Solid	12/31/2013
1400002-11	c08.0.P	Solid	12/31/2013
1400002-12	c09.0.P	Solid	12/31/2013



Report Narrative

Client: Yates Petroleum Corporation

Order Number: 1400002

Solid sample results are reported on a wet weight basis except as noted.
No problems were encountered during analysis of this order number, except as noted.

Method numbers, unless specified as SM or ASTM, are EPA methods.

Data Qualifiers:

B = Analyte found in the method blank
J = Estimated concentration of analyte between MDL (LOD) and Reporting Limit (LOQ)
C = Analyte has been confirmed by another instrument or method
E = Analyte exceeds the upper limit of the calibration curve.
D = Sample or extract was analyzed at a higher dilution
X = User defined data qualifier.
S = Surrogate out of control limits
U = Undetected
a = Not Accredited by NELAC

ND = Non Detected at LOQ
DF = Dilution Factor

Limit Of Quantitation (LOQ) = Laboratory Reporting Limit (not adjusted for dilution factor)
Limit Of Detection (LOD) = Method Detection Limit
Practical Quantitation Limit (PQL) = (same as LOQ)
Method Detection Limit (MDL) = (same as LOD)
Reporting Detection Limit (RDL) = (same as LOD)

Matrices:

A = Air
C = Cream
DW = Drinking Water
L = Liquid
O = Oil
SL = Sludge
SO = Soil
S = Solid
T = Tablet
TC = TCLP Extract
WW = Waste Water
W = Wipe

Estimated uncertainty values are available upon request.

The test results meet the requirements of the NELAC standard, except where noted. The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the client. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the client for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

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Web Site: www.settek.com



January 08, 2014

Client: Yates Petroleum Corporation
Address: 105 S. 4th Street
Artesia, NM 88210

Received: 1/3/2014
Project #: Barbara Federal #10

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c04.0.E	1400002-01	31-Dec-13	Chloride	3858.0	mg/Kg	S	9056/300	1	50	06-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c05.0.E	1400002-02	31-Dec-13	Chloride	2615.0	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c06.0.E	1400002-03	31-Dec-13	Chloride	3101.0	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c07.0.E	1400002-04	31-Dec-13	Chloride	2370.0	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c08.0.E	1400002-05	31-Dec-13	Chloride	2835.0	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c09.0.E	1400002-06	31-Dec-13	Chloride	2230.0	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c04.0.P	1400002-07	31-Dec-13	Chloride	1286.0	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c05.0.P	1400002-08	31-Dec-13	Chloride	958.0	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c06.0.P	1400002-09	31-Dec-13	Chloride	1041.0	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c07.0.P	1400002-10	31-Dec-13	Chloride	1203.0	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Page 4

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Web Site: www.settek.com



January 08, 2014

Client: Yates Petroleum Corporation
Address: 105 S. 4th Street
Artesia, NM 88210

Received: 1/3/2014

Project #: Barbara Federal #10

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c08.0.P	1400002-11	31-Dec-13	Chloride	883.9	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	LOQ	Run	Analyst
c09.0.P	1400002-12	31-Dec-13	Chloride	824.7	mg/Kg	S	9056/300	1	50	07-Jan-14	KRC

Rev. 12
Date: 07/27/13



Order ID: 1400002

COOLER

Summit Environmental Technolog.
Cooler Receipt Form

Client: Yates Initials of person inspecting cooler and samples: [Signature]
 Order Number: _____
 Date Received: 1-3-14 Time Received: 1050 Date cooler(s) opened and samples inspected: 1-3-14
 Number of Coolers/Boxes: 1 N/A
 Shipper: FED EX UPS DHL Airborne US Postal Walk-in Pickup Other: _____
 Packaging: Bubble Wrap Peanuts Paper Foam None Other: _____
 Tape on cooler/box: Y N N/A
 Custody Seals intact Y N N/A
 C-O-C in plastic Y N N/A
 Ice Blue ice present / absent / melted N/A
 Sample Temperature IR Gun #16020459 CF 10.0 °C 21 °C N/A
 Radiological Testing Instrument serial #35127 Y N N/A
 (see page 2 for scan results)
 **Use 1 sheet per sample for Radiological Testing. If sample is HOT, the Radiological Safety Officer must be notified immediately.
 C-O-C filled out properly Y N N/A
 Samples in separate bags Y N N/A
 Sample containers intact* Y N N/A
 *If no, list broken sample(s): _____

Sample label(s) complete (ID, date, etc.) Y N N/A
 Label(s) agree with C-O-C Y N N/A
 Correct containers used Y N N/A
 Sufficient sample received Y N N/A
 Bubbles absent from 40 mL vials** Y N N/A

** Samples with bubbles <6mm are acceptable. Indicate bubble size if >6mm. _____

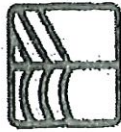
Was client contacted about samples Y N
 Will client send new samples Y N

Client contact: _____

Date/Time: _____

Logged in by: _____

Comments: _____



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
3310 Win Street
Cuyahoga Falls, Ohio 44223
800-278-0140

Analysis Request

For Summit Enviro

Order ID: 1400002

Page 51

COC

Client Name Yates Petroleum Corporation		Project Identification Barbara Federal #10	
Client Address 105 S. 4th Street, Artesia, NM 88210		Project Address	
Client Phone 575-748-4217		Report To 30-015-26570	
Client Fax No. 575-748-4217		boba@yatespetroleum.com	
<input checked="" type="checkbox"/> to Receive Results by Fax		PO Number 205632	
Contact Person Robert Asher		Quote Number	
Sampled By Same			
<input type="checkbox"/> if Ohio VAP Samples <div style="font-size: 2em; font-weight: bold; text-align: center;">1400002-01</div>			
#	Sample	Sample Date	Collection Date
c04.O.E		12/31/13	9:10A
c05.O.E		12/31/13	9:20A
c06.O.E		12/31/13	9:30A
c07.O.E		12/31/13	9:40A
c08.O.E		12/31/13	9:50A
c09.O.E		12/31/13	10:00A
c04.O.P		12/31/13	10:10A
c05.O.P		12/31/13	10:20A
c06.O.P		12/31/13	10:30A
c07.O.P		12/31/13	10:40A
c08.O.P		12/31/13	10:50A
c09.O.P		12/31/13	11:00A

Relinquished by:	Date	Time	Received by:	Date	Time
<i>Quel</i>	12/21/13	10:07A			
Received in Lab by:	Date	Time	Rush Requested:	Day(s)	
<i>Robert Asher</i>	3-14	1052	Must be approved by Lab Manager		

Notes / Comments:
Please Note New P.O Number

Analytical Parameters and Methods	Number of Containers	Preservative	Matrix: S=Solid, L=Liquid, O=Oil SL=Sludge, A=Air	Composite	Date	Time
BTEX + MTBE + TMBs (8021)	1	N/A	S	X	12/31/13	9:10A
TPH Method 8015B (Gas/Diesel)	1	N/A	S	X	12/31/13	9:20A
Anions (Cl)	1	N/A	S	X	12/31/13	9:30A
	1	N/A	S	X	12/31/13	9:40A
	1	N/A	S	X	12/31/13	9:50A
	1	N/A	S	X	12/31/13	10:00A
	1	N/A	S	X	12/31/13	10:10A
	1	N/A	S	X	12/31/13	10:20A
	1	N/A	S	X	12/31/13	10:30A
	1	N/A	S	X	12/31/13	10:40A
	1	N/A	S	X	12/31/13	10:50A
	1	N/A	S	X	12/31/13	11:00A



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

March 06, 2014

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BARBARA FEDERAL #10

Enclosed are the results of analyses for samples received by the laboratory on 03/05/14 14:05.

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 that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/05/2014
 Reported: 03/06/2014
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 03/04/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: C04X2 (NSW) (H400677-01)

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	03/06/2014	ND	432	108	400	0.00	

Sample ID: C04XX2 (ESW) (H400677-02)

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	03/06/2014	ND	432	108	400	0.00	

Sample ID: C04X2 (SESW) (H400677-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/06/2014	ND	432	108	400	0.00	

Sample ID: C04X2 (SSW) (H400677-04)

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	03/06/2014	ND	432	108	400	0.00		

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

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 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



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Robert Asher

Project Name: Barbara Federal #10

Company Address: 105 South 4th Street

Project #: 30-015-26570

City/State/Zip: Artesia, NM 88210

Project Loc: Eddy County

Telephone No: 575-748-4217

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: *Robert Asher*

e-mail:

rdoba@yatespetroleum.com

PO #: 103632

ab use only)

ORDER #: H40067

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 1006	Cations (Ca, Mg, Na, K)	Anions (Cl)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/6030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	C04X2 (NSW)	4'	4'	3/4/2014	10:15 AM		1																									
2	C04X2 (ESW)	4'	4'	3/4/2014	10:25 AM		1																									
3	C04X2 (SESW)	4'	4'	3/4/2014	10:35 AM		1																									
4	C04X2 (SSW)	4'	4'	3/4/2014	10:45 AM		1																									

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

Special Instructions: PLEASE PUT CHLORIDES ON SEPARATE REPORT. ALL results in mg/kg. Thank you.

Laboratory Comments:

Sample Containers Intact?

☒

VOCs Free of Headspace?

☒

Labels on container(s) clearly legible?

☒

Sample Hand Delivered by Sampler/Client Rep?

☒

Temperature Upon Receipt:

22.8 °C

Date

Time

Received by:

Wadi Memon

Date

Time

Date

Time

Received by:

Wadi Memon

Date

Time

Date

Time

Received by:

Wadi Memon

Date

Time



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.

3310 Win St.

Cuyahoga Falls, Ohio 44223

TEL: (330) 253-8211 FAX: (330) 253-4489

Website: <http://www.settek.com>

March 28, 2014

Robert Asher
Yates Petroleum Corporation
105 South 4th Street
Artesia, NM 88210
TEL: (575) 748-4217
FAX:

RE: Barbara Federal #10

Order No.: 14032304

Dear Robert Asher:

Summit Environmental Technologies, Inc. received 15 sample(s) on 3/26/2014 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Dara Gilger

3310 Win St.
Cuyahoga Falls, Ohio 44223

A2LA 0724.01, Alabama 41600, Arkansas 88-0735, California 07256CA, Colorado, Connecticut PH-0105, Delaware, Florida NELAC E87688, Georgia E87688 and 943, Idaho OH00923, Illinois 200061 and Reg.5, Indiana C-OH-13, Kansas E-10347, Kentucky (underground Storage Tank) 3, Kentucky 90146, Louisiana 04061 and LA12004, Maine 2012015, Maryland 339, Massachusetts M-OPH923, Minnesota 409711, Montana CERT0099, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, Ohio 4170, Ohio VAP CL0052, Oklahoma 9940, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Tennessee TN04018, Texas T104704466-11-5, Region 8 8TMS-L, USDA/APHIS P330-11-00244, Utah OH009232011-1, Vermont VT-87688, Virginia 00440 and 1581, Washington C891, West Virginia 248 and 9957C and E87688, Wisconsin 399013010



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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Workorder Sample Summary

WO#: 14032304
28-Mar-14

CLIENT: Yates Petroleum Corporation
Project: Barbara Federal #10

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
14032304-001	c01.0.N		3/20/2014 10:10:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-002	c02.0.N		3/20/2014 10:15:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-003	c03.0.N		3/20/2014 10:20:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-004	c01.0.S		3/20/2014 10:25:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-005	c02.0.S		3/20/2014 10:30:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-006	c03.0.S		3/20/2014 10:35:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-007	c010.0.WNSW		3/20/2014 10:40:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-008	c10.0.WSW		3/20/2014 10:45:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-009	c11.0.NB		3/20/2014 10:50:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-010	c12.0.NB		3/20/2014 10:55:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-011	c13.0.NB		3/20/2014 11:00:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-012	c10.0.WSSW		3/20/2014 11:05:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-013	c11.0.SB		3/20/2014 11:10:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-014	c12.0.SB		3/20/2014 11:15:00 AM	3/26/2014 9:45:00 AM	Solid
14032304-015	c13.0.SB		3/20/2014 11:20:00 AM	3/26/2014 9:45:00 AM	Solid



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Case Narrative

WO#: 14032304
Date: 3/28/2014

CLIENT: Yates Petroleum Corporation
Project: Barbara Federal #10

This report in its entirety consists of the documents listed below. All documents contain the Summit Environmental Technologies, Inc. Work Order Number assigned to this report.

Paginated Report including: Cover Letter, Case Narrative, Analytical Results, Applicable Quality Control Summary Reports and copies of the Chain of Custody Documents supplied with this sample set.

Concentrations reported with a J flag in the Qual field are values below the Limit of Quantitation (LOQ) but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

Method numbers, unless specified as SM (Standard Methods) or ASTM, are EPA methods.

Estimated uncertainty values are available upon request.

Any comments or problems with the analytical events associated with this report are noted below.

Original



SUMMIT
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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

WO#: 14032304
Date Reported: 3/28/2014
Company: Yates Petroleum Corporation
Address: 105 South 4th Street
Artesia NM 88210
Received: 3/26/2014
Project#: Barbara Federal

Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c01.0.N	001	3/20/2014 Chloride	ND	mg/Kg	Solid	EPA 9056 A	1	50	3/27/2014	SG
Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c02.0.N	002	3/20/2014 Chloride	ND	mg/Kg	Solid	EPA 9056 A	1	50	3/27/2014	SG
Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c03.0.N	003	3/20/2014 Chloride	ND	mg/Kg	Solid	EPA 9056 A	1	50	3/27/2014	SG
Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c01.0.S	004	3/20/2014 Chloride	ND	mg/Kg	Solid	EPA 9056 A	1	50	3/27/2014	SG
Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c02.0.S	005	3/20/2014 Chloride	ND	mg/Kg	Solid	EPA 9056 A	1	50	3/27/2014	SG
Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c03.0.S	006	3/20/2014 Chloride	ND	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG
Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c010.0.WNSW	007	3/20/2014 Chloride	970	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG
Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c10.0.WWSW	008	3/20/2014 TPH-DRO	ND	mg/Kg	Solid	EPA 8015 C	1	50	3/27/2014	AMZ
c10.0.WWSW	008	3/20/2014 1,2,4-Trimethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 1,3,5-Trichlorobenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 Benzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 Ethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 m,p-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 MTBE	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 o-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 Toluene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 Surr: PID a,a,a-TFT	113	%REC	Solid	EPA 8021 B	1	70-130	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 TPH-GRO	ND	mg/Kg	Solid	EPA 8015 B	1	10	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 Surr: FID a,a,a-TFT	105	%REC	Solid	EPA 8015 B	1	70-130	3/26/2014	CLG
c10.0.WWSW	008	3/20/2014 Chloride	1500	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG



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Website: <http://www.settek.com>

WO#: 14032304

Date Reported: 3/28/2014

Company: Yates Petroleum Corporation

Address: 105 South 4th Street
Artesia NM 88210

Received: 3/26/2014

Project#: Barbara Federal

Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c11.0.NB	009	3/20/2014 TPH-DRO	ND	mg/Kg	Solid	EPA 8015 C	1	50	3/27/2014	AMZ
c11.0.NB	009	3/20/2014 1,2,4-Trimethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.NB	009	3/20/2014 1,3,5-Trichlorobenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.NB	009	3/20/2014 Benzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.NB	009	3/20/2014 Ethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.NB	009	3/20/2014 m,p-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.NB	009	3/20/2014 MTBE	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.NB	009	3/20/2014 o-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.NB	009	3/20/2014 Toluene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.NB	009	3/20/2014 Surr: PID a,a,a-TFT	114	%REC	Solid	EPA 8021 B	1	70-130	3/26/2014	CLG
c11.0.NB	009	3/20/2014 TPH-GRO	ND	mg/Kg	Solid	EPA 8015 B	1	10	3/26/2014	CLG
c11.0.NB	009	3/20/2014 Surr: FID a,a,a-TFT	104	%REC	Solid	EPA 8015 B	1	70-130	3/26/2014	CLG
c11.0.NB	009	3/20/2014 Chloride	2200	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG

Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c12.0.NB	010	3/20/2014 TPH-DRO	ND	mg/Kg	Solid	EPA 8015 C	1	50	3/27/2014	AMZ
c12.0.NB	010	3/20/2014 1,2,4-Trimethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.NB	010	3/20/2014 1,3,5-Trichlorobenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.NB	010	3/20/2014 Benzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.NB	010	3/20/2014 Ethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.NB	010	3/20/2014 m,p-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.NB	010	3/20/2014 MTBE	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.NB	010	3/20/2014 o-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.NB	010	3/20/2014 Toluene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.NB	010	3/20/2014 Surr: PID a,a,a-TFT	105	%REC	Solid	EPA 8021 B	1	70-130	3/26/2014	CLG
c12.0.NB	010	3/20/2014 TPH-GRO	ND	mg/Kg	Solid	EPA 8015 B	1	10	3/26/2014	CLG
c12.0.NB	010	3/20/2014 Surr: FID a,a,a-TFT	94.7	%REC	Solid	EPA 8015 B	1	70-130	3/26/2014	CLG
c12.0.NB	010	3/20/2014 Chloride	2200	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG

Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c13.0.NB	011	3/20/2014 TPH-DRO	ND	mg/Kg	Solid	EPA 8015 C	1	50	3/27/2014	AMZ
c13.0.NB	011	3/20/2014 1,2,4-Trimethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.NB	011	3/20/2014 1,3,5-Trichlorobenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.NB	011	3/20/2014 Benzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.NB	011	3/20/2014 Ethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.NB	011	3/20/2014 m,p-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.NB	011	3/20/2014 MTBE	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.NB	011	3/20/2014 o-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.NB	011	3/20/2014 Toluene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.NB	011	3/20/2014 Surr: PID a,a,a-TFT	116	%REC	Solid	EPA 8021 B	1	70-130	3/26/2014	CLG
c13.0.NB	011	3/20/2014 TPH-GRO	ND	mg/Kg	Solid	EPA 8015 B	1	10	3/26/2014	CLG
c13.0.NB	011	3/20/2014 Surr: FID a,a,a-TFT	105	%REC	Solid	EPA 8015 B	1	70-130	3/26/2014	CLG
c13.0.NB	011	3/20/2014 Chloride	2100	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG



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WO#: 14032304
Date Reported: 3/28/2014
Company: Yates Petroleum Corporation
Address: 105 South 4th Street
Artesia NM 88210
Received: 3/26/2014
Project#: Barbara Federal

Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c10.0.WSSW	012	3/20/2014 TPH-DRO	ND	mg/Kg	Solid	EPA 8015 C	1	50	3/27/2014	AMZ
c10.0.WSSW	012	3/20/2014 1,2,4-Trimethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 1,3,5-Trichlorobenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 Benzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 Ethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 m,p-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 MTBE	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 o-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 Toluene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 Surr: PID a,a,a-TFT	107	%REC	Solid	EPA 8021 B	1	70-130	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 TPH-GRO	ND	mg/Kg	Solid	EPA 8015 B	1	10	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 Surr: FID a,a,a-TFT	106	%REC	Solid	EPA 8015 B	1	70-130	3/27/2014	CLG
c10.0.WSSW	012	3/20/2014 Chloride	1500	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG

Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c11.0.SB	013	3/20/2014 TPH-DRO	ND	mg/Kg	Solid	EPA 8015 C	1	50	3/27/2014	AMZ
c11.0.SB	013	3/20/2014 1,2,4-Trimethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.SB	013	3/20/2014 1,3,5-Trichlorobenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.SB	013	3/20/2014 Benzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.SB	013	3/20/2014 Ethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.SB	013	3/20/2014 m,p-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.SB	013	3/20/2014 MTBE	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.SB	013	3/20/2014 o-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.SB	013	3/20/2014 Toluene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c11.0.SB	013	3/20/2014 Surr: PID a,a,a-TFT	86.4	%REC	Solid	EPA 8021 B	1	70-130	3/26/2014	CLG
c11.0.SB	013	3/20/2014 TPH-GRO	ND	mg/Kg	Solid	EPA 8015 B	1	10	3/26/2014	CLG
c11.0.SB	013	3/20/2014 Surr: FID a,a,a-TFT	78.4	%REC	Solid	EPA 8015 B	1	70-130	3/26/2014	CLG
c11.0.SB	013	3/20/2014 Chloride	2500	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG

Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c12.0.SB	014	3/20/2014 TPH-DRO	ND	mg/Kg	Solid	EPA 8015 C	1	50	3/27/2014	AMZ
c12.0.SB	014	3/20/2014 1,2,4-Trimethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.SB	014	3/20/2014 1,3,5-Trichlorobenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.SB	014	3/20/2014 Benzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.SB	014	3/20/2014 Ethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.SB	014	3/20/2014 m,p-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.SB	014	3/20/2014 MTBE	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.SB	014	3/20/2014 o-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.SB	014	3/20/2014 Toluene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c12.0.SB	014	3/20/2014 Surr: PID a,a,a-TFT	92.8	%REC	Solid	EPA 8021 B	1	70-130	3/26/2014	CLG
c12.0.SB	014	3/20/2014 TPH-GRO	ND	mg/Kg	Solid	EPA 8015 B	1	10	3/26/2014	CLG
c12.0.SB	014	3/20/2014 Surr: FID a,a,a-TFT	85.4	%REC	Solid	EPA 8015 B	1	70-130	3/26/2014	CLG
c12.0.SB	014	3/20/2014 Chloride	2300	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

WO#: 14032304

Date Reported: 3/28/2014

Company: Yates Petroleum Corporation

Address: 105 South 4th Street
Artesia NM 88210

Received: 3/26/2014

Project#: Barbara Federal

Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c13.0.SB	015	3/20/2014 TPH-DRO	ND	mg/Kg	Solid	EPA 8015 C	1	50	3/27/2014	AMZ
c13.0.SB	015	3/20/2014 1,2,4-Trimethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.SB	015	3/20/2014 1,3,5-Trichlorobenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.SB	015	3/20/2014 Benzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.SB	015	3/20/2014 Ethylbenzene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.SB	015	3/20/2014 m,p-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.SB	015	3/20/2014 MTBE	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.SB	015	3/20/2014 o-Xylene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.SB	015	3/20/2014 Toluene	ND	mg/Kg	Solid	EPA 8021 B	1	0.0050	3/26/2014	CLG
c13.0.SB	015	3/20/2014 Surr: PID a,a,a-TFT	109	%REC	Solid	EPA 8021 B	1	70-130	3/26/2014	CLG
c13.0.SB	015	3/20/2014 TPH-GRO	ND	mg/Kg	Solid	EPA 8015 B	1	10	3/26/2014	CLG
c13.0.SB	015	3/20/2014 Surr: FID a,a,a-TFT	101	%REC	Solid	EPA 8015 B	1	70-130	3/26/2014	CLG
c13.0.SB	015	3/20/2014 Chloride	150	mg/Kg	Solid	EPA 9056 A	1	50	3/28/2014	SG



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
3310 Win Street
Cuyahoga Falls, Ohio 44223
800-278-0140

Analysis Request / Chain of Custody

For Summit Environmental Technologies, Inc. use only

Client Name Yates Petroleum Corporation		Project Identification Barbara Federal #10		Page of SET No.								
Client Address 105 S. 4th Street, Artesia, NM 88210		Project Address 30-015-26570										
Client Phone 575-748-4217		Report To boba@yatespetroleum.com										
Client Fax No.		PO Number 205632										
Contact Person Robert Asher		Quote Number										
Sampled By Same		<input type="checkbox"/> if Ohio VAP Samples										
#	Sample Identification	Date Collected	Time Collected	Grab	Matrix: Composite	S-Solid, L-Liquid, O-Oil SL-Sludge, A-Air	Preservative	Number of Containers	BTEX + MTBE + TMBs (6021)	TPH Method 8015B (Gas/Diesel)	Anions (Cl)	Analytical Parameters and Methods
	c01.0.N	03/20/14	10:10		X	S	ICE	1			X	
	c02.0.N	03/20/14	10:15		X	S	ICE	1			X	
	c03.0.N	03/20/14	10:20		X	S	ICE	1			X	
	c01.0.S	03/20/14	10:25		X	S	ICE	1			X	
	c02.0.S	03/20/14	10:30		X	S	ICE	1			X	
	c03.0.S	03/20/14	10:35		X	S	ICE	1			X	
	c10.0.WNSW	03/20/14	10:40		X	S	ICE	1			X	
	c10.0.WWSW	03/20/14	10:45		X	S	ICE	1	X	X	X	
	c11.0.NB	03/20/14	10:50		X	S	ICE	1	X	X	X	
	c12.0.NB	03/20/14	10:55		X	S	ICE	1	X	X	X	
	c13.0.NB	03/20/14	11:00		X	S	ICE	1	X	X	X	
	c10.0.WSSW	03/20/14	11:05		X	S	ICE	1			X	
Relinquished by: <i>Rea/MLC</i>		Date: 3/29/14	Time: 8:22 A	Received by:		Date:	Time:	Notes / Comments: Please Note New P.O Number 72HR TAT PLEASE				
Received in Lab by: <i>Rea</i>		Date: 3/29/14	Time: 0945	Rust:		Date:	Time:	14032304-001-015 <i>JP</i>				

Rev. 12
Date: 07/27/13

Summit Environmental Technologies, Inc. Cooler Receipt Form

Client: Yates Initials of person inspecting cooler and samples: [Signature]
 Date Received: 3/2/16 Time Received: 09:45 Order Number: _____
 Date cooler(s) opened and samples inspected: 3/2/16
 Number of Coolers/Boxes: _____ N/A
 Shipper: FED EX UPS DHL Airborne US Postal Walk-in Pickup Other: _____
 Packaging: _____
 Peanut Bubble Wrap Paper Foam None Other: _____
 Tape on cooler/box: (Y) N N/A
 Custody Seals intact (Y) N N/A
 C-O-C in plastic (Y) N N/A
 Ice X Blue ice _____
 present / absent / melted N/A
 Sample Temperature IR Gun #16020459 CF 0.0 °C 23 °C N/A
 Radiological Testing Instrument serial #35127 Y N N/A
 (see page 2 for scan results)
 **Use 1 sheet per sample for Radiological Testing. If sample is HOT, the Radiological Safety Officer must be notified immediately.
 C-O-C filled out properly (Y) N N/A
 Samples in separate bags (Y) N N/A
 Sample containers intact* (Y) N N/A
 *If no, list broken sample(s): _____
 Sample label(s) complete (ID, date, etc.) (Y) N N/A
 Label(s) agree with C-O-C (Y) N N/A
 Correct containers used (Y) N N/A
 Sufficient sample received (Y) N N/A
 Bubbles absent from 40 mL vials** (Y) N N/A
 ** Samples with bubbles <6mm are acceptable. Indicate bubble size if >6mm. _____
 Was client contacted about samples Y N
 Will client send new samples Y N
 Client contact: _____
 Date/Time: _____
 Logged in by: _____
 Comments: _____



Summit Environmental Technologies, Inc.

3310 Win St.

Cuyahoga Falls, Ohio 44223

TEL: (330) 253-8211 FAX: (330) 253-4489

Website: <http://www.settek.com>

April 11, 2014

Robert Asher
Yates Petroleum Corporation
105 South 4th Street
Artesia, NM 88210
TEL: (575) 748-4217
FAX:

RE: Barbara Federal #10

Order No.: 14040875

Dear Robert Asher:

Summit Environmental Technologies, Inc. received 2 sample(s) on 4/10/2014 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Dara Gilger

3310 Win St.
Cuyahoga Falls, Ohio 44223

A2LA 0724.01, Alabama 41600, Arkansas 88-0735, California 07256CA, Colorado, Connecticut PH-0105, Delaware, Florida NELAC E87688, Georgia E87688 and 943, Idaho OH00923, Illinois 200061 and Reg.5, Indiana C-OH-13, Kansas E-10347, Kentucky (underground Storage Tank) 3, Kentucky 90146, Louisiana 04061 and LA12004, Maine 2012015, Maryland 339, Massachusetts M-OPH923, Minnesota 409711, Montana CERT0099, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, Ohio 4170, Ohio VAP CL0052, Oklahoma 9940, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Tennessee TN04018, Texas T104704466-11-5, Region 8 8TMS-L, USDA/APHIS P330-11-00244, Utah OH009232011-1, Vermont VT-87688, Virginia 00440 and 1581, Washington C891, West Virginia 248 and 9957C and E87688, Wisconsin 399013010

Page 1 of 4



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Workorder Sample Summary

WO#: 14040875
11-Apr-14

CLIENT: Yates Petroleum Corporation
Project: Barbara Federal #10

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
14040875-001	c12.O.SW		4/8/2014 10:30:00 AM	4/10/2014 9:20:00 AM	Solid
14040875-002	c12.O.SP		4/8/2014 10:35:00 AM	4/10/2014 9:20:00 AM	Solid

14
/



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Case Narrative

WO#: 14040875
Date: 4/11/2014

CLIENT: Yates Petroleum Corporation
Project: Barbara Federal #10

This report in its entirety consists of the documents listed below. All documents contain the Summit Environmental Technologies, Inc. Work Order Number assigned to this report.

Paginated Report including: Cover Letter, Case Narrative, Analytical Results, Applicable Quality Control Summary Reports and copies of the Chain of Custody Documents supplied with this sample set.

Concentrations reported with a J flag in the Qual field are values below the Limit of Quantitation (LOQ) but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

Method numbers, unless specified as SM (Standard Methods) or ASTM, are EPA methods.

Estimated uncertainty values are available upon request.

Any comments or problems with the analytical events associated with this report are noted below.

Original
Page 3 of 4



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

WO#: 14040875
Date Reported: 4/11/2014
Company: Yates Petroleum Corporation
Address: 105 South 4th Street
Artesia NM 88210
Received: 4/10/2014
Project#: Barbara Federal

Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c12.0.SW	001	4/8/2014 Chloride	710	mg/Kg	Solid	EPA 9056 A	1	50	4/11/2014	SG
Client ID#	Lab ID#	Collected Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
c12.0.SP	002	4/8/2014 Chloride	240	mg/Kg	Solid	EPA 9056 A	1	50	4/11/2014	SG



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.

Analysis Request / Chain of Custody

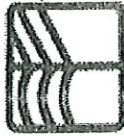
For Summit Environmental Technologies, Inc. use only

[illegible]

Rev. 12
Date: 07/27/13

Summit Environmental Technologies, Inc.
Cooler Receipt Form

Client: Jates Initials of person inspecting cooler and samples: [Signature]
 Date Received: 4/10 Time Received: 0920 Order Number: _____
 Date cooler(s) opened and samples inspected: 4/10
 Number of Coolers/Boxes: 1 N/A
 Shipper: FEDEX UPS DHL Airborne US Postal Walk-in Pickup Other: _____
 Packaging: Peanuts Bubble Wrap Paper Foam None Other: _____
 Tape on cooler/box: Y N N/A
 Custody Seals intact Y N N/A
 C-O-C in plastic Y N N/A
 Ice Y Blue ice X present / absent / melted N/A
 Sample Temperature IR Gun #16020459 CF 0.0 °C 4.7 °C N/A
 Radiological Testing Instrument serial #35127 Y N N/A
 (see page 2 for scan results)
 **Use 1 sheet per sample for Radiological Testing. If sample is HOT, the Radiological Safety Officer must be notified immediately.
 C-O-C filled out properly Y N N/A
 Samples in separate bags Y N N/A
 Sample containers intact* Y N N/A
 *If no, list broken sample(s): _____
 Sample label(s) complete (ID, date, etc.) Y N N/A
 Label(s) agree with C-O-C Y N N/A
 Correct containers used Y N N/A
 Sufficient sample received Y N N/A
 Bubbles absent from 40 mL vials** Y N N/A
 ** Samples with bubbles <6mm are acceptable. Indicate bubble size if >6mm. _____
 Was client contacted about samples Y N
 Will client send new samples Y N
 Client contact: _____
 Date/Time: _____
 Logged in by: _____
 Comments: _____



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
3310 Wm Street
Cuyahoga Falls, Ohio 44223
800-278-0140

Analysis Request / Chain of Custody

For Summit Environmental Technologies, Inc. use only

[illegible]



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

April 25, 2014

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BARBARA FEDERAL #10

Enclosed are the results of analyses for samples received by the laboratory on 04/25/14 9:05.

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 that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/25/2014	Sampling Date:	04/23/2014
Reported:	04/25/2014	Sampling Type:	Soil
Project Name:	BARBARA FEDERAL #10	Sampling Condition:	** (See Notes)
Project Number:	30-015-26570	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: C14.0.NB (H401247-01)

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	04/25/2014	ND	432	108	400	3.64	

Sample ID: C15.0.NB (H401247-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	04/25/2014	ND	432	108	400	3.64	

Sample ID: C16.0.NB (H401247-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	04/25/2014	ND	400	100	400	7.69	

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

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 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



Released to Imaging: 5/31/2022 9:34:14 AM

Page 4 of 4

Artesia, NM 88210

575-748-4217

Report Format:

☒ Standard

☐ TRRP☐ NPDES

boba@vatespetroleum.com

ORDER #: H401247

Analyze For:					
TCLP:					
TOTAL:					
Cations (Ca, Mg, Na, K)					
Anions (Cl)	X				
SAR / ESP / CEC	X				
Metals: As Ag Ba Cd Cr Pb Hg So	X				
Volatiles					
Semivolatiles					
BTEX 8021B/5030 or BTEX 8260					
RCI					
N.O.R.M.					
RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	X	X	X		
Standard TAT					

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: #59F 13°C °C

Y Y Y Y Y



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

May 06, 2014

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BARBARA FEDERAL #10

Enclosed are the results of analyses for samples received by the laboratory on 05/05/14 13:00.

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
 ROBERT ASHER
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received: 05/05/2014
 Reported: 05/06/2014
 Project Name: BARBARA FEDERAL #10
 Project Number: 30-015-26570
 Project Location: EDDY COUNTY, NM

Sampling Date: 05/05/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: C18.0.NB (H401364-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7300	16.0	05/06/2014	ND	400	100	400	0.00		

Sample ID: C20.0.NB (H401364-02)

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	05/06/2014	ND	400	100	400	0.00	

Sample ID: C22.0.NB (H401364-03)

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	05/06/2014	ND	400	100	400	0.00	

Sample ID: C24.0.NB (H401364-04)

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	05/06/2014	ND	400	100	400	0.00	

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
 ROBERT ASHER
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/05/2014	Sampling Date:	05/05/2014
Reported:	05/06/2014	Sampling Type:	Soil
Project Name:	BARBARA FEDERAL #10	Sampling Condition:	** (See Notes)
Project Number:	30-015-26570	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: C26.0.NB (H401364-05)

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	05/06/2014	ND	400	100	400	0.00	

Sample ID: C28.0.NB (H401364-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	05/06/2014	ND	400	100	400	0.00	

Sample ID: C30.0.NB (H401364-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	05/06/2014	ND	400	100	400	0.00	

Sample ID: C32.0.NB (H401364-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	05/06/2014	ND	400	100	400	0.00	

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

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 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

Appendix E

Original 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

OIL CONSERVATION

ARTESIA DISTRICT

JUL 02 2014

RECEIVED

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 Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name Barbara #1 Pipe Line	API Number 30-015-26570	Facility Type Water Transfer Pipe Line
Surface Owner Fee	Mineral Owner	Lease No.


LOCATION OF RELEASE

Unit Letter	Section 31	Township 19S	Range 25E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
-------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude__ Longitude__

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Unknown B/PW	Volume Recovered Unknown B/PW
Source of Release Pipe line	Date and Hour of Occurrence 11/2/2013 - AM	Date and Hour of Discovery 11/2/2013 - AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 11/4/2013 (E-mail)	
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.* Buried pipe line from the Barbara #10 well developed a leak on the Wilbank's Ranch, releasing produced water. Vacuum truck(s) called, Backhoe crew called.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 300' X 200'. Line repaired, release area and sprayed pasture fenced off. Impacted soils being excavated and scraped from release and sprayed area, hauled to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). Depth to Ground Water: >100' (228' ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', SITE RANKING IS 0. Based on impacted soils excavated/hauled to an NMOCD approved facility, excavation has been backfilled per NMOCD approval and analytical data, Yates Petroleum Corporation requests closure.		
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: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by District Supervisor:	
Title: NM Environmental Regulatory Supervisor	Approval Date:	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Wednesday, July 02, 2014 Phone: 575-748-1471	2RP - 2061	

* Attach Additional Sheets If Necessary

Appendix F

Current C-141 Closure Request

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	nJMW1331831899
District RP	2RP-2061
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 # (assigned by OCD) nJMW1331831899
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.61699 Longitude -104.51718
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Barbara #10 Pipeline	Site Type Pipeline
Date Release Discovered 11/02/2013	API# (if applicable) 30-015-26570

Unit Letter	Section	Township	Range	County
I	31	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) Unknown	Volume Recovered (bbls) 0
	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 original C-141 for details of 2RP-2061.

State of New Mexico
Oil Conservation Division

Incident ID	nJMW1331831899
District RP	2RP-2061
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Unknown volume released, but notice was provided to NMOCD at the time of discovery in 2013.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Mike Bratcher and Randy Dade by email on November 4, 2013, by Robert Asher.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Chase Settle</u>	Title: <u>Rep Safety & Environmental Sr</u>
Signature: <u>Chase Settle</u>	Date: <u>05/05/2022</u>
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<u>OCD Only</u> Received by: _____ Date: _____	

State of New Mexico
Oil Conservation Division

Incident ID	nJMW1331831899
District RP	2RP-2061
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nJMW1331831899
District RP	2RP-2061
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: _____

State of New Mexico
Oil Conservation Division

Incident ID	nJMW1331831899
District RP	2RP-2061
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: _____

State of New Mexico
Oil Conservation Division

Incident ID	nJMW1331831899
District RP	2RP-2061
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 & Environmental Sr
 Signature: Chase Settle Date: 05/05/2022
 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: Jennifer Nobui Date: 05/31/2022
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

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 107107

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 107107
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Approved.	5/31/2022