

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NKL1629453480
District RP	1RP-4475
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 # NKL1629453480	
Contact mailing address 104 S. 4th Street, Artesia, NM 88210		

### Location of Release Source

Latitude 33.03027

Longitude \_-103.76710 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Vespa BME Federal #1H	Site Type Battery
Date Release Discovered 10/11/2016	API# 30-005-29095

Unit Letter	Section	Township	Range	County
1	12	15S	31E	Chaves

Surface Owner: State Federal Tribal X 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)

Crude Oil	Volume Released (bbls) 15	Volume Recovered (bbls) 7
X Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 6
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	X Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Please refer to the attached original C-141 form for 1RP-4475 for cause of release and immediate action steps. EOG Resources is submitting for closure via the new form to formally close out this incident. All sampling and correspondence is also attached.

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F	orm	C	141
J.	age 2		
Pag			

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?	
🗌 Yes 🗌 No		
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

## **Initial Response**

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

 $\checkmark$  The source of the release has been stopped.

 $\checkmark$  The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Chase Settle	<sub>Title:</sub> Rep Safety & Environmental Sr	
Signature: Chan Settle	Date: 10/5/2021	
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471	
OCD Only		
Received by:	Date:	

orm C-141 age 3

State of New Mexico **Oil Conservation Division** 

Incident ID	NKL1629453480
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10/6/2021 12:58:01 PM

# 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?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 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)?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 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?	🗌 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	Yes 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.

- 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 <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs

Received

- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

Released to Imaging: 🕄 the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation in 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 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 State of New Mexico Oil Conservation Divisio			Incident ID District RP Facility ID Application ID	NKL1629453480 1RP-4475
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptance and/or regulations.	nformation given above is true and complete to the b are required to report and/or file certain release notif onment. The acceptance of a C-141 report by the O stigate and remediate contamination that pose a three e of a C-141 report does not relieve the operator of r	ications and perform CD does not relieve t at to groundwater, sur responsibility for com	corrective actions for rel he operator of liability sh face water, human health pliance with any other fe	eases which may endanger hould their operations have h or the environment. In ederal, state, or local laws
Printed Name:		Title:		
Signature:		Date:		
email:		Telephone:		
OCD Only		· · · · · · · · · · · · · · · · · · ·		
Received by:		Date:		

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Form C-141

State of New Mexico Oil Conservation Division

Incident ID	NKL1629453480
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# **Remediation Plan**

<b><u>Remediation Plan Checklist</u></b> : Each of the following items must	be included in the plan.
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation poin</li> <li>Estimated volume of material to be remediated</li> </ul>	
Closure criteria is to Table 1 specifications subject to 19.15.29 Proposed schedule for remediation (note if remediation plan times)	
Deferral Requests Only: Each of the following items must be co	onfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	_ Date:
Approved Approved with Attached Conditions of	f Approval Denied Deferral Approved
Signature:	Date:
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State of New Mexico Oil Conservation Division

Incident ID	NKL1629453480
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Released to Imaging: 10/6/2021 12:58:01 P.

# 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. Title: Rep Safety and Environmental Sr Printed Name: Chase Settle Signature: Man Gittle \_\_\_\_\_ Date: 10/5/2021 Telephone: 575-748-1471 <sub>email:</sub> <u>Chase\_Settle@eogresources.com</u> **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: <u>Bradford Billings</u> Date: 10/06/2021 Printed Name: \_\_\_\_\_ Bradford Billings Envi.Spec.A Title: Received by OCD: 10

7 of District 1
 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

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#### REVIEWED By Kristen Lynch at 3:00 pm, Oct 20, 2016 State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

Form C-141 Revised August 8, 2011

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

District IV       1220 South St. Francis Dr.         220 S. St. Francis Dr., Santa Fe, NM 87505       Santa Fe, NM 87505								
	and Corrective Action							
	<b>OPERATOR</b> Initial Report Final Report							
Name of Company Co	ontact							
Address	hase Settle elephone No.							
	75-748-4171							
and there we are a set of a se	acility Type attery							
Surface Owner Mineral Owner Private Federal	API No. 30-005-29095							
	OF RELEASE							
	OF RELEASE           outh Line         Feet from the 200         East/West Line County Chaves							
Latitude 33.03027	Longitude <u>-103.76710</u>							
	DF RELEASE							
Type of Release	Volume of Release Volume Recovered							
	15 B/O & 10 B/PW7 B/O & 6 B/PWDate and Hour of OccurrenceDate and Hour of Discovery							
Horizontal Knockout Was Immediate Notice Given?	10/11/2016; AM 10/11/2016; 10:30 AM If YES, To Whom?							
🛛 Yes 🗌 No 🗌 Not Required	Kristen Lynch, Rick Flores							
By Whom? Robert Asher	Date and Hour 10/12/2016; 9:01 AM							
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.							
If a Watercourse was Impacted, Describe Fully.* N/A								
Describe Cause of Problem and Remedial Action Taken.* A collar failed on the horizontal knockout allowing the site glass nipple to b	be pushed out by pressure causing the release.							
Describe Area Affected and Cleanup Action Taken.* An approximate area of 54' X 40' was affected within the lined berm of the battery and 55' X 40' on the adjacent pad to the south of the battery between the battery and the gas meter house. Vacuum truck was contracted to recover standing fluid and a backhoe was dispatched to remove impacted soils. Excavated soils will be hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: >100' (approximately 240', Section 12, T15S-R31E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body:								
>1000', SITE RANKING IS 0.         I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to 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: Chase Settle       Approved by Environmental Specialist:								
115-	OIL CONSERVATION DIVISION							
Signature.	pproved by Environmental Specialist:							
Printed Name: Chase Settle	pproved by Environmental Specialist:							
E-mail Address: csettle@yatespetroleum.com	Approval Date: 10/20/2016       Expiration Date: 12/20/2016         IMOCD accepts discrete samples only conditions of Approval:       Attached □         /ork plan's submitted will be approved based pon not only BTEX & TPH, but also       Attached □         lorides. Please notify NMOCD prior to mKL1629453480       nKL1629453480         ampling, Delineation plan must be be must be be must be							
	pon not only BTEX & TPH, but also hlorides. Please notify NMOCD prior to nKL1629453480							
sa	nlorides. Please notify NMOCD prior to nKL1629453480 Impling, Delineation plan must be pKL1629453878 Ibmitted no later than 11/20/2016.							

submitted no later than 11/20/2016.

To: Cc: Subject: Date: Attachments:

From:

Oberding, Tomas, EMNRD Katie Parker; Yu, Olivia, EMNRD; Chase Settle Griswold, Jim, EMNRD; Bob Asher; Amber Griffin RE: C-141 Final Vespa BME Federal #1H Wednesday, February 8, 2017 7:47:14 AM image001.png image002.png

Ms. Parker Mr. Settle et al,

To address the point brought up by Mr. Settle it has been a long time policy to have a workplan approved by the division as noted in the regulations-

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Without such confirmation all work done by the responsible party is done at the RP's own risk.

Ms. Parker, to address your point- we review items in the order in which they are received.

Thank you for your understanding.

-Dr. Oberding

Tomáš 'Doc' Oberding PhD Hydrologist, Adv-District 1 Oil Conservation Division, EMNRD (505) 476-3403 E-Mail: tomas.oberding@state.nm.us

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

From: Katie Parker [mailto:Katie\_Parker@eogresources.com]
Sent: Tuesday, February 7, 2017 7:58 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>; Griswold, Jim, EMNRD
<Jim.Griswold@state.nm.us>; Bob Asher <Bob\_Asher@eogresources.com>; Amber Griffin
<Amber\_Griffin@eogresources.com>
Subject: FW: C-141 Final Vespa BME Federal #1H

Dear Ms. Yu,

Received by OCD: 10/6/2021 10:28:59 AM

I am following up on the request for closure for this site. The initial samples following excavation of impacted material show that this site should be closed. Please let us know if you will approve the closure request based on the information provided.

Thank you,

Katie Parker

Safety & Environmental Manager EOG Resources, Inc – Artesia NM Division 105 S. Fourth Street Artesia, NM 88210

Cell: 575-513-9915 Office: 575-748-4193



From: Chase Settle
Sent: Monday, January 16, 2017 10:29 AM
To: 'Yu, Olivia, EMNRD'
Cc: stucker@blm.gov; Oberding, Tomas, EMNRD; 'Flores, Rick'; Katie Parker; Bob Asher; Amber Griffin
Subject: RE: C-141 Final Vespa BME Federal #1H

Ms. Yu,

Unfortunately, I do not have any documentation of approval for a work plan to conduct delineation activities. Until I received your email specifically pointing out that request in the C-141 Initial, I had not noticed it. This is the first time a request has ever been made for a prior work plan before delineation activities occur. The normal operating procedure has been to submit a work plan after delineation activities have been completed in order to get approval for final remediation work. Luckily, the initial clean up excavation removed all impacted soils at this release as evidenced by the previously enclosed analytical results of the soil sampling procedures that were conducted, which should be noted, were scheduled prior to receiving Ms. Lynch's email on 10/20/2016. I do apologize for the oversight in regards to a delineation plan, but EOG Y Resources, Inc. still requests closure based on the analytical results that have been provided. We see no reason for continued activities when analytical results have deemed the release as posing no danger to public health or the environment, the obligation for remediation activities under both the Oil & Gas Act and Water Quality Act.

Thank you,

Chase Settle, M.S.

#### Rep Safety & Environmental II

EOG Resources 105 S. 4<sup>th</sup> Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)



From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Wednesday, January 11, 2017 8:45 AM
To: csettle@yatespetroleum.com
Cc: stucker@blm.gov; Oberding, Tomas, EMNRD
Subject: RE: C-141 Final Vespa BME Federal #1H

\*\* External email. Use caution.\*\* Dear Chase:

I need to see documentation of a workplan approval before I review your final C-141. If you have an email from OCD with workplan approval, please forward it to me. According to your initial C-141 (attached), a delineation and characterization workplan must be submitted to OCD BEFORE sampling.

Thanks,

Olivia Yu Environmental Specialist; District 1 OCD-EMNRD 575-393-6161 x 113 <u>Olivia.yu@state.nm.us</u>

From: Chase Settle
Sent: Tuesday, December 27, 2016 1:31:38 PM (UTC-07:00) Mountain Time (US & Canada)
To: Lynch, Kristen, EMNRD; rflores@blm.gov
Cc: Oberding, Tomas, EMNRD; Katie Parker; Bob Asher; Veronica Alvarado; Amber Griffin
Subject: C-141 Final Vespa BME Federal #1H

Please find attached the C-141 Final for the below listed location. Enclosed with the C-141 Final are the analytical results and a site diagram, EOG Y Resources, Inc. requests closure.

Vespa BME Federal #1H 30-005-29095 Section 12, T15S-R31E 2500' FSL & 200' FEL

Received by OCD: 10/6/2021 10:28:59 AM

Chaves County, New Mexico

Thank you,

*Chase Settle, M.S.* Adv. Environmental Representative

EOG Resources 105 S. 4<sup>th</sup> Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)



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Form C-141 Revised August 8, 2011

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Oil Conservation Division 1220 South St. Er aia D

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

1220 F. Et Emperie Dr. Conte En NIM 97505	in St. Francis Dr.									
	Fe, NM 87505									
Release Notificatio	n and Corrective Ac	tion								
New (O	OPERATOR Initial Report Final									
Name of Company EOG Y Resources, Inc.	Contact Chase Settle									
Address	Telephone No.									
104 S. 4 <sup>th</sup> Street, Artesia, NM 88210	575-748-4171									
Facility Name	Facility Type		·							
Vespa BME Federal #1H	Battery									
Surface Owner Mineral Owner	······································	API No.	······							
Private Federal		30-005-	29095							
LOCATION OF RELEASE										
		East/West Line	County							
1 12 15S 31E 2500 Sout	h 200	East	Chaves							
Latitude <u>33.030</u>	Latitude <u>33.03027</u> Longitude <u>-103.76710</u>									
NATURI	<b>COF RELEASE</b>									
Type of Release	Volume of Release	Volume R								
Crude Oil and Produced Water Source of Release	15 B/O & 10 B/PW Date and Hour of Occurrence	7 B/O & C	B/PW Hour of Dise							
Horizontal Knockout	10/11/2016; AM		6; 10:30 AN							
Was Immediate Notice Given?	If YES, To Whom?									
Yes 🗋 No 🗋 Not Required										
By Whom? Robert Asher	Date and Hour 10/12/2016; 9:01 AM									
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.									
🗋 Yes 🖾 No	N/A									
If a Watercourse was Impacted, Describe Fully.* N/A										
Describe Cause of Problem and Remedial Action Taken.*										
A collar failed on the horizontal knockout allowing the site glass nipple Describe Area Affected and Cleanup Action Taken.*	to be pushed out by pressure caus	ing the release.								
An approximate area of 54' X 40' was affected within the lined berm of	the battery and 55' X 40' on the a	idjacent pad to the	e south of th	e batte	ry between					
the battery and the gas meter house. Vacuum truck was contracted to re	cover standing fluid and a backho	e was dispatched	to remove ir	npacte	d soils.					
Excavated soils will be hauled to a NMOCD approved facility. Vertical BTEX (chlorides for documentation). If initial analytical results for TPI	and horizontal defineation sample H & BTEX are under RRAL's (sit	es will be taken ar e ranking is ()) a F	id analysis r Jinal Report	an for	TPH &					
submitted to the OCD requesting closure. If the analytical results are ab	ove the RRAL's a work plan will	be submitted to th	ne OCD. De	epth to	Ground					
Water: >100' (approximately 240', Section 12, T15S-R31E, per Tree			e to Surfac	e Wat	er Body:					
>1000', SITE RANKING IS 0. Based on enclosed analytical results, I hereby certify that the information given above is true and complete to			uant to NM	OCD r	ules and					
regulations all operators are required to report and/or file certain release	notifications and perform correcti	ive actions for rele	eases which	may e	ndanger					
public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedi					f liability					
or the environment. In addition, NMOCD acceptance of a C-141 report					v other					
federal, state, or local laws and/or regulations.	-		-		0					
	OIL CONS	ERVATION	DIVISIC	<u>N</u>	Ś					
Signature										
Approved by Environmental Specialist:										
Printed Name: Chase Settle		1								
Title: NM Adv. Environmental Representative	Approval Date:	Expiration	Date:		f liability man health y other					
E-mail Address: Chase_Settle@eogresources.com	Conditions of Approval:			<b></b>						
			Attached	Ц						
Date:         12/27/2016         Phone:         575-748-4171           Attach Additional Sheets If Necessary	L	<u></u>	<u> </u>							
Arthon Auditolia, 20002 II 14000201 y										



Site Ranking is Zero (0). DTGW >100' (approx 240', Section 12, T15S-R31E, Trend Map) All results are ppm, Chlorides for documentation.

Released: 15 B/O & 10 B/PW Recovered: 7 B/O & 6 B/PW Release Date: 10/11/2016

	ANALYTICAL DATA										
1611464	Sample Area	Sample Date	Sampe Type	Depth	BTEX	GRO	DRO	CHLORIDE			
S1-1'	Release Area	10/28/2016	Backhoe	1'	ND	ND	ND	ND			
S1-2'	Release Area	10/28/2016	Backhoe	2'	ND	ND	55	59			
\$2-1"	Release Area	10/28/2016	Backhoe	1'	ND	ND	ND	33			
\$2-2'	Release Area	10/28/2016	Backhoe	2'	ND	ND	170	100			
\$2-3'	Release Area	10/28/2016	Backhoe	3'	ND	ND	93	ND			
\$2-3.5'	Release Area	10/28/2016	Backhoe	3.5'	ND	ND	76	40			

NMOCD will accept data for delineation purposes for 1RP-4475.

**REVIEWED** By Olivia Yu at 2:38 pm, Sep 22, 2017

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 11, 2016

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

RE: Vespa BME Federal #1

OrderNo.: 1611464

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/1/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Received by OCD: 10/6/2021 10:28:59 AM

andig

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

11/10/2016 11:46:59 AM 28570

	Petroleum Corporation BME Federal #1 4-001	Client Sample ID: S1-1'Collection Date: 10/28/2016 8:37:00 AMMatrix: SOILReceived Date: 11/1/2016 10:00:00 AM					-	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 30	0.0: ANIONS						Analy	st: MRA
Chloride		ND	30		mg/Kg	20	11/10/2016 11:40:08	AM 28610
EPA METHOD 80	15M/D: DIESEL RANGE	E ORGANIC	S				Analy	st: TOM
Diesel Range Org	anics (DRO)	ND	9.9		mg/Kg	1	11/10/2016 12:29:18	PM 28597
Surr: DNOP		88.6	70-130		%Rec	1	11/10/2016 12:29:18	PM 28597
EPA METHOD 80	15D: GASOLINE RANG	6E					Analy	st: NSB
Gasoline Range C	Irganics (GRO)	ND	4.8		mg/Kg	1	11/10/2016 11:46:59	AM 28570
Surr: BFB		84.4	68.3-144		%Rec	1	11/10/2016 11:46:59	AM 28570
EPA METHOD 80	21B: VOLATILES						Analy	st: NSB
Benzene		ND	0.048		mg/Kg	1	11/10/2016 11:46:59	AM 28570
Toluene		ND	0.048		mg/Kg	1	11/10/2016 11:46:59	AM 28570
Ethylbenzene		ND	0.048		mg/Kg	1	11/10/2016 11:46:59	AM 28570
Xylenes, Total		ND	0.097		mg/Kg	1	11/10/2016 11:46:59	AM 28570

80-120

98.0

%Rec

1

# Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

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

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 10
ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>R RPD outside accepted recovery limits</li> </ul>	DSample Diluted Due to MatrixEHHolding times for preparation or analysis exceededJNDNot Detected at the Reporting LimitPRRPD outside accepted recovery limitsRL

Received by OCD: 10/6/2021 10:28:59 AM

# Hall Environmental Analysis Laboratory, Inc. Distribution CLIENT: Yates Petroleum Corporation Client Sample ID: S1-2' Project: Vespa BME Federal #1 Collection Date: 10/28

Matrix: SOIL

Collection Date: 10/28/2016 8:58:00 AM Received Date: 11/1/2016 10:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0; ANIONS					Anal	yst: MRA
Chloride	59	30	mg/Kg	20	11/10/2016 12:17:22	2 PM 28610
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANIC	s			Anal	yst: TOM
Diesel Range Organics (DRO)	55	10	mg/Kg	1	11/10/2016 12:14:39	9 PM 28597
Surr: DNOP	84.7	70-130	%Rec	1	11/10/2016 12:14:39	9 PM 28597
EPA METHOD 8015D: GASOLINE R	ANGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 12:10:36	6 PM 28570
Surr: BFB	82.1	68.3-144	%Rec	1	11/10/2016 12:10:36	6 PM 28570
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.024	mg/Kg	1	11/10/2016 12:10:36	6 PM 28570
Toluene	ND	0.049	mg/Kg	1	11/10/2016 12:10:36	6 PM 28570
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 12:10:36	3 PM 28570
Xylenes, Total	ND	0.098	mg/Kg	1	11/10/2016 12:10:36	3 PM 28570
Surr: 4-Bromofluorobenzene	94.3	80-120	%Rec	1	11/10/2016 12:10:36	3 PM 28570

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

Qualifiers:	*	Value exceeds Maximun Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Received by OCD: 10/6/2021 10:28:59 AM

Lab ID:

1611464-002

Analyst: TOM

Analyst: NSB

Analyst: NSB

11/10/2016 12:41:57 PM 28597

11/10/2016 12:41:57 PM 28597

11/10/2016 12:34:19 PM 28570

### Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

**Diesel Range Organics (DRO)** 

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

**EPA METHOD 8021B: VOLATILES** 

**EPA METHOD 8015D: GASOLINE RANGE** 

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT:	Yates Petroleum Corporation	Client Sample ID: S2-1'							
Project:	Vespa BME Federal #1			<b>Collection</b>	Date: 10	/28/2016 9:01:00 AI	M		
Lab ID:	1611464-003	Matrix:	Matrix: SOIL Received Date: 11/1/2016 10:00:00 AM			M			
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed	Batch		
EPA MET	THOD 300.0: ANIONS					Analy	/st: MRA		
Chloride		33	30	mg/Kg	20	11/10/2016 6:42:07	PM 28610		

9.7

4.9

70-130

68.3-144

0.024

0.049

0.049

0.098

80-120

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

ND

82.8

ND

83.7

ND

ND

ND

ND

95.5

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

Qualifiers:	ŧ	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limi
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
		N/ 10		0 1 (1 )

- % Recovery outside of range due to dilution or matrix S
- hod Blank
- <sup>nits</sup> Page 3 of 10
- Sample container temperature is out of limit as specified w

Received by OCD: 10/6/2021 10:28:59 AM

# Hall Environmental Analysis Laboratory, Inc.

# CLIENT: Yates Petroleum Corporation Client Sample ID: S2-2' Project: Vespa BME Federal #1 Collection Date: 10/28/2016 9:03:00 AM Lab ID: 1611464-004 Matrix: SOIL Received Date: 11/1/2016 10:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	100	30	mg/Kg	20	11/10/2016 6:54:32 P	M 28610
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	170	9.6	mg/Kg	1	11/10/2016 12:48:13	PM 28597
Sum DNOP	97.7	70-130	%Rec	1	11/10/2016 12:48:13	PM 28597
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 12:57:50	PM 28570
Surr: BFB	82.8	68.3-144	%Rec	1	11/10/2016 12:57:50	PM 28570
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.025	mg/Kg	1	11/10/2016 12:57:50	PM 28570
Toluene	ND	0.049	mg/Kg	1	11/10/2016 12:57:50	PM 28570
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 12:57:50	PM 28570
Xylenes, Total	ND	0.099	mg/Kg	1	11/10/2016 12:57:50	PM 28570
Surr: 4-Bromofluorobenzene	94.3	80-120	%Rec	1	11/10/2016 12:57:50	PM 28570

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	w	Sample container temperature is out of limit as specified

Received by OCD: 10/6/2021 10:28:59 AM

11/10/2016 1:21:20 PM 28570

11/10/2016 1:21:20 PM 28570

CLIENT: Y	ates Petroleum Corporation			<b>Client Sampl</b>	e ID: S2	-3'	
Project: \	espa BME Federal #1			Collection 1	Date: 10/	/28/2016 9:06:00 AM	
Lab ID: 1	.611464-005	Matrix:	SOIL	Received 1	Date: 11/	/1/2016 10:00:00 AM	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METH	OD 300.0: ANIONS					Analyst	MRA
Chloride		ND	30	mg/Kg	20	11/10/2016 7:06:57 PM	28610
EPA METH	OD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	TOM
Diesel Ran	ge Organics (DRO)	93	10	mg/Kg	1	11/10/2016 1:33:42 PM	28597
Surr: DN	IOP	97.1	70-130	%Rec	1	11/10/2016 1:33:42 PM	28597
EPA METH	OD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline R	ange Organics (GRO)	ND	4.7	mg/Kg	1	11/10/2016 1:21:20 PM	28570
Surr: BF	В	83.7	68.3-144	%Rec	1	11/10/2016 1:21:20 PM	28570
EPA METH	OD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.023	mg/Kg	1	11/10/2016 1:21:20 PM	28570
Toluene		ND	0.047	mg/Kg	1	11/10/2016 1:21:20 PM	28570
Ethylbenze	ene	ND	0.047	mg/Kg	1	11/10/2016 1:21:20 PM	28570

0.094

80-120

mg/Kg

%Rec

1

1

ND

96.6

# Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Received by OCD: 10/6/2021 10:28:59 AM

Xylenes, Total

Surr: 4-Bromofluorobenzene

# Hall Environmental Analysis Laboratory, Inc.

# CLIENT: Yates Petroleum Corporation Client Sample ID: S2-3.5' Project: Vespa BME Federal #1 Collection Date: 10/28/2016 9:26:00 AM Lab ID: 1611464-006 Matrix: SOIL Received Date: 11/1/2016 10:00:00 AM Analyses Result PQL Qual Units DF Date Analyzed Batch

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information
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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Ĥ	Holding times for preparation or analysis exceeded	j	Analyte detected below quantitation limits Page 6 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Received by OCD: 10/6/2021 10:28:59 AM

Analyses	Kesuit			Dr	Date Analyzeu	Daten
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	40	30	mg/Kg	20	11/10/2016 7:19:21 PM	28610
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analys	t: TOM
Diesel Range Organics (DRO)	76	9.9	mg/Kg	1	11/10/2016 2:14:15 PM	28597
Surr: DNOP	96.4	70-130	%Rec	1	11/10/2016 2:14:15 PM	28597
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 5:39:03 PM	1 28570
Surr: BFB	84.9	68.3-144	%Rec	1	11/10/2016 5:39:03 PM	1 28570
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	11/10/2016 5:39:03 PN	1 28570
Toluene	ND	0.049	mg/Kg	1	11/10/2016 5:39:03 PN	1 28570
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 5:39:03 PM	1 28570
Xylenes, Total	ND	0.098	mg/Kg	1	11/10/2016 5:39:03 PN	1 28570
Surr: 4-Bromofluorobenzene	99.3	80-120	%Rec	1	11/10/2016 5:39:03 PM	1 28570

WO#: 1611464

Ha	II	Envi	ronmen	tal A	Anal	ysis	La	borat	tory,	Inc.
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#### **Client:** Yates Petroleum Corporation

**Project:** Vespa BME Federal #1

Sample ID MB-28610 Client ID: PBS	Batch	ype: mb n ID: 28	610	F	RunNo: 3	8626	300.0: Anion	-		
Prep Date: 11/10/2016	Analysis D	ate: 11	1/10/2010	c	SeqNo: 1	2003/0	Units: mg/K	vg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID LCS-28610	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID: LCSS	Batcl	n ID: 28	610	F	RunNo: 3	8626				
Prep Date: 11/10/2016	Analysis D	ate: 11	1/10/2016	5	SegNo: 1	206571	Units: mg/k	٢g		
Analita	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	rioodii	1 94.00								

Qualifiers:

Received by OCD: 10/6/2021 10:28:59 AM

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range р
- Sample container temperature is out of limit as specified

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#### Client: Yates Petroleum Corporation

Project: Vespa BME Federal #1

Sample ID LCS-28593	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 28593	RunNo: 38609
Prep Date: 11/10/2016	Analysis Date: 11/10/2016	SeqNo: 1205792 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.1 5.000	81.6 70 130
Sample ID LCS-28593	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 28593	RunNo: 38609
Prep Date: 11/10/2016	Analysis Date: 11/10/2016	SeqNo: 1205793 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Sur: DNOP	4.2 5.000	84.9 70 130
Sample ID MB-28593	SampType: MBLK	TestCode: EPA Method 8015M/D; Diesel Range Organics
Client ID: PBS	Batch ID: 28593	RunNo: 38609
Prep Date: 11/10/2016	Analysis Date: 11/10/2016	SeqNo: 1205794 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 10.00	90.1 70 130
Sample ID MB-28597	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Sample ID MB-28597	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Sample ID MB-28597 Cilent ID: PBS	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 38609
Sample ID MB-28597 Cilent ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO)	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 38609 SeqNo: 1205795 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLImit Qual
Sample ID MB-28597 Client ID: PBS Prep Date: 11/10/2016 Analyte	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 38609 SeqNo: 1205795 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLImit Qual
Sample ID MB-28597 Cilent ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO)	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 38609 SeqNo: 1205795 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLImit Qual
Sample ID MB-28597 Client ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10 8.5 10.00	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 38609 SeqNo: 1205795 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 84.9 70 130
Sample ID MB-28597 Client ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID LCS-28572	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10 8.5 10.00 SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 38609 SeqNo: 1205795 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 84.9 70 130 TestCode: EPA Method 8015M/D: Diesel Range Organics
Sample ID MB-28597 Client ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID LCS-28572 Client ID: LCSS	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10 8.5 10.00 SampType: LCS Batch ID: 28572 Analysis Date: 11/10/2016	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 38609 SeqNo: 1205795 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLImit Qual 84.9 70 130 TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 38609
Sample ID MB-28597 Client ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID LCS-28572 Client ID: LCSS Prep Date: 11/9/2016	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10 8.5 10.00 SampType: LCS Batch ID: 28572 Analysis Date: 11/10/2016	TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 38609       SeqNo: 1205795       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         84.9       70       130       130       130       130       130         TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 38609       SeqNo: 1206232       Units: %Rec         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit
Sample ID MB-28597 Client ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID LCS-28572 Client ID: LCSS Prep Date: 11/9/2016 Analyte	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10 8.5 10.00 SampType: LCS Batch ID: 28572 Analysis Date: 11/10/2016 Result PQL SPK value	TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 38609       SeqNo: 1205795       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         84.9       70       130       130       130       130       130         TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 38609       SeqNo: 1206232       Units: %Rec         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit
Sample ID MB-28597 Client ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID LCS-28572 Client ID: LCSS Prep Date: 11/9/2016 Analyte Surr: DNOP	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10 8.5 10.00 SampType: LCS Batch ID: 28572 Analysis Date: 11/10/2016 Result PQL SPK value 4.5 5.000	TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 38609       SeqNo: 1205795       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         84.9       70       130       130       130       130       130       130         TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 38609         SeqNo: 1206232       Units: %Rec         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual
Sample ID MB-28597 Cilent ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID LCS-28572 Client ID: LCSS Prep Date: 11/9/2016 Analyte Surr: DNOP Sample ID MB-28572	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10 8.5 10.00 SampType: LCS Batch ID: 28572 Analysis Date: 11/10/2016 Result PQL SPK value 4.5 5.000 SampType: MBLK	TestCode:       EPA Method 8015M/D: Diesel Range Organics         RunNo:       38609         SeqNo:       1205795         Units:       mg/Kg         SPK Ref Val       %REC         84.9       70         130       130         TestCode:       EPA Method 8015M/D: Diesel Range Organics         RunNo:       38609         SeqNo:       1206232         Units:       %Rec         SPK Ref Val       %REC         LowLimit       HighLimit         %Rec       SeqNo:         SeqNo:       1206232         Units:       %Rec         SPK Ref Val       %REC         LowLimit       HighLimit       %RPD         Ref Val       %REC       LowLimit       HighLimit         89.0       70       130       Qual         TestCode:       EPA Method 8015M/D: Diesel Range Organics       Ref Val
Sample ID MB-28597 Client ID: PBS Prep Date: 11/10/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID LCS-28572 Client ID: LCSS Prep Date: 11/9/2016 Analyte Surr: DNOP Sample ID MB-28572 Client ID: PBS	SampType: MBLK Batch ID: 28597 Analysis Date: 11/10/2016 Result PQL SPK value ND 10 8.5 10.00 SampType: LCS Batch ID: 28572 Analysis Date: 11/10/2016 Result PQL SPK value 4.5 5.000 SampType: MBLK Batch ID: 28572 Analysis Date: 11/10/2016	TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 38609       SeqNo: 1205795       Units: mg/Kg         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         84.9       70       130       130       130       130       130       130         TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 38609       SeqNo: 1206232       Units: %Rec       1206232       Units: %Rec         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 38609       70       130       130       130

#### Qualifiers:

Received by OCD: 10/6/2021 10:28:59 AM

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

WO#: 1611464 11-Nov-16

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11-Nov-16

Hall	Environmental	Analysis	Laboratory.	Inc.

	Petroleum Corporation BME Federal #1			
Sample ID MB-28570	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	6
Client ID: PBS	Batch ID: 28570	RunNo: 38598		
Prep Date: 11/9/2016	Analysis Date: 11/10/2016	SeqNo: 1206092	Units: mg/Kg	
Analyte Gasoline Range Organics (GRO)	Result PQL SPK value ND 5.0	SPK Ref Val %REC LowLimit	HighLlmit %RPD	RPDLimit Qual
Surr: BFB	820 1000	82.3 68.3	144	
Sample ID LCS-28570	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Rang	e
Client ID: LCSS	Batch ID: 28570	RunNo: 38598		
Prep Date: 11/9/2016	Analysis Date: 11/10/2016	SeqNo: 1206093	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	24 5.0 25.00	0 94.8 74.6	123	
Surr: BFB	890 1000	88.6 68.3	144	
Sample ID MB-28565	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Rang	e
Client ID: PBS	Batch ID: 28565	RunNo: 38598		
Prep Date: 11/9/2016	Analysis Date: 11/10/2016	SeqNo: 1206108	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	850 1000	84.9 68.3	144	
Sample ID LCS-28565	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Rang	e
Client ID: LCSS	Batch ID: 28565	RunNo: 38598		
Prep Date: 11/9/2016	Analysis Date: 11/10/2016	SeqNo: 1206109	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLlmit %RPD	RPDLimit Qual
Surr: BFB	910 1000	91.0 68.3	144	

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#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р
  - Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Page 9 of 10

## Client: Yates Petroleum Corporation

Project: Vespa BME Federal #1

Sample ID MB-28570	SampType: MI	BLK	Tesi	Code: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID: 28	570	R	unNo: 3	8598				
Prep Date: 11/9/2016	Analysis Date: 1	1/10/2016	S	eqNo: 1	206124	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Benzene	ND 0.025								
Toluene	ND 0.050								
Ethylbenzene	ND 0.050								
Xylenes, Total	ND 0.10								
Surr: 4-Bromolluorobenzene	0.97	1.000		96.9	80	120			
Sample ID LCS-28570	SampType: LC	cs '	Tes	Code: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 28	570	F	RunNo: 3	8598				
Prep Date: 11/9/2016	Analysis Date: 1	1/10/2016	5	SeqNo: 1	206125	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1 0.025	1.000	0	113	75.2	115			
Toluene	1.0 0.050	1.000	0	103	80.7	112			
Ethylbenzene	1.0 0.050	1.000	0	100	78.9	117			
Xylenes, Total	3.0 0.10	3.000	0	99.5	79.2	115			
Surr: 4-Bromofluorobenzene	1.0	1.000		102	80	120			
Sample ID MB-28565	SampType: M	BLK	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID: PBS	Batch ID: 28	565	F	RunNo: 3	8598				
Prep Date: 11/9/2016	Analysis Date: 1	1/10/2016	5	SeqNo: 1	206416	Units: %Re	C		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		100	80	120			
Sample ID LCS-28565	SampType: LO	CS	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch ID: 28	3565	F	RunNo: 3	8598				
Prep Date: 11/9/2016	Analysis Date: 1	1/10/2016	5	SeqNo: 1	206417	Units: %Re	C		
Analyte	Result PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1	1.000		108	80	120			

#### Qualifiers:

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

Page 10 of 10

WO#: 1611464

11-Nov-16

HALL ENVIRONMENTAL ANALYSIS LABORATORY	7 TEL: 505-345-3	ital Analysis Laborator, 4901 Hawkins Ni Albuquerque, NM 8710 975 FAX: S05-345-410 9.hallenvironmental.con	<sup>E</sup> 9 Samp	ole Log-In Cł	neck List
Client Name: EOG/Yates	Work Order Num	ber: 1611464		ReptNo:	1
Received by/date: AJ	11/01/6				
Logged By: Anne Thorne	11/1/2016 10:00:00	AM	anne Am		
Completed By: Anne Thorne	11/9/2016		anne Ann	·	
Reviewed By:	109/16				
Chain of Custody	•				
1. Custody seals intact on sample	e bottles?	Yes 🗹	No 🗌	Not Present	
2. Is Chain of Custody complete	7	Yes 🗹	No 🗆	Not Present 🗌	
3. How was the sample delivered	1?	Courier		·	
<u>Log In</u>					
4. Was an attempt made to cool	the complee?	Yes 🗹	No 🗆		
The Was an allempt made to cool	(na samples r	165 121		4 93 k Bronnar	
5. Were all samples received at	a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆		
6. Sample(s) in proper container	(s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume for i	ndicated test(s)?	Yes 🗹	No 🗌		
8, Are samples (except VOA and	I ONG) properly preserved?	Yes 🗹	No 🗌	<u></u>	
9. Was preservative added to be	ttles?	Yes 🗌	No 🗹	na 🗆	
10.VOA vials have zero headspa	ce?	Yes	No 🗆	No VOA Vials 🗹	
11. Were any sample containers	received broken?	Yes 🗆	No 🗹 🏻	# of preserved	
12, Does paperwork match bottle	labels?	Yes 🔽	No 🗆	bottles checked for pH:	
(Note discrepancies on chain	of custody)		_		or >12 unless noted)
13. Are matrices correctly Identifie	•	Yes 🗹		Adjusted?	······
14. Is it clear what analyses were		Yes 🗹 Yes 🗹	No ∐   No □	Checked by:	
15. Were all holding times able to (If no, notify customer for auth		Yes 🔽			
Special Handling (if applic	able)				
16. Was client notified of all discr	epancies with this order?	Yes	No 🗆	NA 🗹	
Person Notified:	· Da	te			
By Whom:	Via	<b>1</b>	hone 🗌 Fax	🔲 In Person	
Regarding:					
Client Instructions:	· · · · ·	· · · ·	L		
17. Additional remarks:					
18. Cooler Information				. 1	
	Condition Seal Intact Seal No	Seal Date	Signed By		
1 1.0 G	ood Yes			l	

Page 1 of 1

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# Received by OCD: 10/6/2021 10:28:59 AM

Client: EOG						_			HALL ENVIRONMENIAL						_
and the second se		t: EOG	X standarc	🗆 Rush				AN	AL	ISI		BO	ANALYSIS LABORATORY	10	≿
			Project Name					M.	w.halle	www.hallenvironmental.com	mental	LOO.			
Mailing Address:	••			Vespa BME Federal #1	ederal #1	4	301 H	awkins	- UE	4901 Hawkins NE - Albuquerque, NM 87109	erque,	NM 8	7109		
1 4th S	105 South 4th Street Artesia, NM	88210	Project #:				Tel. 50	505-345-3975	3975	Fax	505-34	505-345-4107	7		
	575-703-6537	-6537		30-005-29095	9095				An An	Analysis	Request	est	- 14 - 14 - 14		
email or Fax#:	<u>csettle@</u>	spetroleum.com	Project Manager:	ger:						(*09	S				
QA/QC Package:				Chase Settle				:		S,≱C	.80				
Standard		🗆 Level 4 (Full Validation)		PO # 205. 0750	750					)d' <sup>7</sup>	5 6				
Accreditation:				Chase Settle						ON"	303	(			<u>VIN</u>
۵.	D Other		On Ice:	<u>N</u> Yes	S No						/ \$3	ΥC			
D EDD (Type)			Sample Tem	perature	LO										<u> </u>
Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO. 1613-464	BTEX + MT	orliaM H9T	hitem) H9T Methodia	AN9) 0168	M 8 Aମ୍ପଠମ Anions (F	bites9 1808	0V) 8260B (VO			səlddu8 rlA
10/28/2015 8:37a	Soil	S1-1'	1 - 4oz.	ICE .	-cd	×	_×			_×					
10/28/2018 8:58a	Soil	S1-2'	1 - 4oz.	СП П	202	×	×	- 2		<u>×</u>		_			
10/28/2016 9:01a	Soil	S2-1 <sup>1</sup>	1 - 4oz.	ICE	203	×	×			×				_	
10/28/2018 9:03a	Soil	S2-2'	1 - 4oz.	ICE .	192	×	×	_		×				_	
102822016 9:06a	Soil	S2-3'	1 - 4oz.	ICE	212	×	×			×				-	
1072872018 9:26a	Soil	S2-3.5'	1 - 4oz.	СП	1200	×	_×			×	·				
				,										-	
			-												
			:		1.0										
Time:	Relinquistfed by:	the second	Received by:	mu	Date Time	Remar	ks: Ar	alysis	results	Remarks: Analysis results by 11/8/2016.	8/2016				
2 2 2			Densitied him	•	3										
lime:	Relinquished by:	led by:	Kecelved by:												

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

•

From:Yu, Olivia, EMNRDTo:"Chase Settle"Cc:Katie Parker; Billings, Bradford, EMNRDSubject:RE: Vespa BME Federal #1H- 1RP-4475Date:Friday, September 22, 2017 2:54:00 PMAttachments:image001.png

Dear Mr. Settle:

As indicated by Dr. Oberding in an email dated February 8, 2017, remedial activities completed without an approved corrective action plan will be considered completed at risk. However, NMOCD will consider delineation completed for 1RP-4475, based on the data submitted along with the unapproved Final C-141.

In order to verify remediation was completed, NMOCD requires the following items before approval for backfilling is granted.

- 1. laboratory analyses (BTEX, TPH extended, and chlorides) from a minimum of 4 sidewalls and 1 bottom samples. Please mark confirmation sample locations on a scaled map.
- 2. a statement affirming that the liner under the battery has and will continue to contain liquids. Photo documentation are required to serve as a record of the removal of contaminated fill or proper disposal of liquids.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

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

From: Chase Settle [mailto:Chase\_Settle@eogresources.com]
Sent: Tuesday, September 5, 2017 1:20 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Katie Parker <Katie\_Parker@eogresources.com>
Subject: Vespa BME Federal #1H- 1RP-4475

Ms. Yu,

Received by OCD: 10/6/2021 10:28:59 AM

I would like to know the status of this release listed below so that we can forward with backfilling the

open excavation where the initial excavation activities were completed.

Vespa BME Federal #1H 30-005-29095 Section 12, T15S-R31E 2500' FSL & 200' FEL Chaves County, New Mexico 1RP-4475

Thank you,

# Chase Settle, M.S. Rep Safety & Environmental II

EOG Resources 105 S. 4<sup>th</sup> Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)





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

November 28, 2017

Ms. Olivia Yu NMOCD District I 1625 N. French Drive Hobbs, New Mexico 88240

Re: Vespa BME Federal #1H 30-005-29095 Section 12, T15S-R31E 2500' FSL & 200' FEL Chaves County, New Mexico 1RP-4475

Ms. Yu,

EOG Y Resources, Inc. is submitting the enclosed CLOSURE REPORT and C-141 Final for the above captioned remediation. The plan is being submitted in response to the C-141 report dated October 18, 2016.

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

Thank you.

EOG Y Resources, Inc.

Chase Settle Rep Safety & Environmental II



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#### I. Location

From Crossroads, NM, take Carrol Rd (T-170) west for approximately 3.5 miles, then turn south on lease road, follow lease road for 0.7 mile, and then follow the pipeline ROW southwest for 1200 feet to the release area.

#### II. Background

On October 18, 2016, EOG Y Resources, Inc. submitted to the NMOCD District I office a Form C-141 for the release of 15 B/O & 10 B/PW with 7 B/O & 6 B/PW recovered. The affected area was approximately 54 feet by 40 within the lined berm of the battery and 55 feet by 40 feet on the adjacent pad to the south of the battery between the battery and gas meter house. Preliminary excavation of visually impacted material outside of the battery included removing between 1 and 2 feet of soil within the release area, with this soil being hauled to a NMOCD approved disposal facility. Also hauled to the disposal facility was the impacted gravel and dirt that had accumulated within the lined battery. Initial delineation samples were taken (10/28/2016) and sent to a NMOCD approved laboratory (11/11/2016, results enclosed). On the instruction of NMOCD, confirmation sampling was conducted (10/12/2017) and sent to a NMOCD approved laboratory (10/25/2017, results enclosed).

#### III. Surface and Ground Water

Area surface geology is Cenozoic Tertiary. Based on information collected from New Mexico Office of the State Engineer and USGS National Water Information System, depth to groundwater at this location (Section 12, T15S-R31E) is approximately 230 feet, making the site ranking a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following: Depth to ground water > 100' Wellhead Protection Area > 1000' Distance to surface water body > 1000'

#### IV. Soils

The release area consists of soils that are caliche and rock since it occurred on an active production pad.

#### V. Scope of Work Completed

No further work was needed beyond the initial excavation work completed to remove the visually impacted soils, as evidenced by the analytical data returned from soil sampling. A C-141 Final is submitted requesting closure for the site.

Vespa BME Federal #1H 1RP-4475 Closure Report



November 28, 2017

# Figure 1

Site Map

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Vespa BME Federal #1H 1RP-4475 Closure Report



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# **Photos**

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After Clean Up





Vespa BME Federal #1H 1RP-4475 Closure Report



November 28, 2017

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# **Appendix A**

# **NMOSE Well Log Information**


# New Mexico Office of the State Engineer Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right	(R=POI been rep O=orph C=the fi closed)	olaced, aned,	(quar	ters are 1=) (quarters					(NAD8	3 UTM in meters)				(in fe	rct)	
	-	POD			qqq								Log File	Depth	Depth	License
POD Number <u>L 06328</u>	Code	Subbasin L	County LE	Source Shallow	6416 4	Sec			X 616360	¥ 3655352* 🚱	Distance Start Date 1233 06/14/1968	Finish Date 06/20/1968		Well 345	Water Driller 234 BRADY, W.H.	Number 359
L 12528 POD1		L	СН	Shallow	131	12	158	31E	613665	3655617 🌍	1495 03/04/2010	03/04/2010	03/24/2010	335	EADES, ALAN	1044
L. 12598 POD1		L	LE	Shallow	224	13	15S	31E	615155	3653704 🌍	1603 09/24/2010	09/24/2010	09/30/2010	330	EADES, ALAN	1044
L 12515 POD1		L	LE	Shallow	113	13	155	31E	613770	3653562 🌑	2210 02/18/2010	02/18/2010	04/22/2010	335	EADES, ALAN	1044
L 06338		L	LE	Shallow	13	05	155	32E	617044	3656873* 🚳	2474 06/14/1968	06/26/1968	07/29/1968	334	233 BRADY, W.H.	359
L 06307		L	СН	Shallow	243	п	155	31E	612686	3654805* 🚱	2492 05/23/1968	06/08/1968	07/29/1968	297	264 BRADY, W.H.	359
L 09614		L	LE	Shallow	334	08	155	32E	617875	3654869 🚳	2782 04/01/1985	04/01/1985	04/04/1985	290	GLENN, CLARK A."CORKY (LD)	- 421
L 06572		L	LE	Shallow	333	17	15S	32E	616989	3653150* 🍪	2849 08/04/1969	08/06/1969	08/08/1969	330	240 MURRELL ABBOTT	46
L.03600		L	LE	Shallow	111	24	15S	31E	613718	3652811* 🌑	2867 07/09/1962	07/16/1962	07/19/1962	332	246 BURKE, EDWARD B.	111
L 05142 X11		L	LE	Shallow	233	31	14S	32E	615462	3658234* 🚳	2945 10/08/1963	10/14/1963	10/31/1963	339	220	111
L 06737		L	LE	Shallow	433	17	15S	32E	617189	3653150* 🍪	2984 11/25/1970	11/29/1970	12/03/1970	329	226	46
Record Count: 11	******															
UTMNAD83 Radi	ius Searc	<u>ch (in meter</u>	<u>:s):</u>													
Easting (X): 6	15127.7	l		Northing	(1):	3655	307.6	5		Radius: 300	0					

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

11/28/17 10:23 AM

WELLS WITH WELL LOG INFORMATION

Vespa BME Federal #1H 1RP-4475 Closure Report



November 28, 2017

# **Appendix B**

# **USGS Water Well Information**

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National Water Information System: Web Interface

**USGS Water Resources** 

 Data Category:
 Geographic Area:

 Groundwater
 V
 United States
 V

USGS Home Contact USGS Search USGS

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Groundwater levels for the Nation

### Search Results -- 1 sites found

Minimum number of levels = 1 Save file of selected sites to local disk for future upload

### USGS 330145103451701 15S.32E.07.41223

Available data for this site Groundwater: Field measurements Y GO

Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 33°01'51", Longitude 103°45'12" NAD27 Land-surface elevation 4,348.00 feet above NGVD29 The depth of the well is 345 feet below land surface. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

<u>Table of data</u> <u>Tab-separated data</u>

Graph of data



- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

 Questions about sites/data?

 Feedback on this web site

 Automated retrievals

 Help

 Data Tips

 Explanation of terms

 Subscribe for system changes

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Accessibility Plug-Ins FOIA Privacy Policies and Notices
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?



USA.gov





National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

Data Category:		Geographic Area:		
Groundwater	Y	United States	Y	GO

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### Search Results -- 1 sites found

Minimum number of levels = 1 Save file of selected sites to local disk for future upload

### USGS 330122103465501 15S.31E.12.131

Available data for this site Groundwater: Field measurements Y GO

Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 33°01'21.8", Longitude 103°46'55.4" NAD83 Land-surface elevation 4,382.0 feet above NGVD29 The depth of the well is 335.0 feet below land surface.

**Output formats** 

# Table of data Tab-separated data Graph of data Develop period





Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

 Questions about sites/data?

 Feedback on this web site

 Automated retrievals

 Help

 Data Tips

 Explanation of terms

 Subscribe for system changes

 News

FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior | U.S. Geological Survey</u> Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team



AM



### Water-Data Report 2011

### 330122103465501 Local number 15S.31E.12.131

Undefined Aquifer Undefined Aquifer

Lea County, NM

LOCATION.--Lat 33°01'21.8", long 103°46'55.4" referenced to North American Datum of 1983, in NW ¼ SW ¼ NW ¼ sec.12, T.15 S., R.31 E., Lea County, NM, Hydrologic Unit is unknown.

### **GROUNDWATER RECORDS**

WELL CHARACTERISTICS .-- Depth 335 ft. Upper casing diameter undefined; top of first opening 275 ft, bottom of last opening 335 ft.

DATUM.--Land-surface datum is 4,382 ft above National Geodetic Vertical Datum of 1929. Measuring point: Slot for wires, 1.4 ft above land-surface datum, Dec. 11, 2010, to present.

### WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[Measurement method: S, steel tape. Water-

level status: - - , static.]

 Date	Water level	Measurement method	Water- level status
Dec 11	255.49	S	

Period of record highest: 255.49, Dec 11, 2010; lowest: 255.49, Dec 11, 2010

Record available from Dec 11, 2010, to Dec 11, 2010; 1 entries

Vespa BME Federal #1H 1RP-4475 Closure Report



November 28, 2017

# **Appendix C**

# Sample Data Sheet

energy opportunity growth

### Vespa BME Federal #1H Sample Analysis

Sample ID	Depth (bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT	Total TPH	Chlorides
										DRO		
S1-1'	1'	10/28/16	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
S1-2'	2'	10/28/16	ND	ND	ND	ND	ND	ND	55	-	55	59
S2-1'	1'	10/28/16	ND	ND	ND	ND	ND	ND	ND	-	ND	33
S2-2'	2'	10/28/16	ND	ND	ND	ND	ND	ND	170	-	170	100
S2-3'	3'	10/28/16	ND	ND	ND	ND	ND	ND	93	-	93	ND
S2-3.5'	3.5'	10/28/16	ND	ND	ND	ND	ND	ND	76	-	76	40
WWW.												
B1- Conf	1'	10/12/17	0.054	0.124	0.052	<0.0150	0.358	<10.0	85.5	51.2	136.7	48
B2- Conf	2'	10/12/17	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	502	173	675	112
N- Conf	6"	10/12/17	<0.050	<0.050	<0.050	<0.0150	< 0.300	<10.0	1750	628	2378	96
W- Conf	6"	10/12/17	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	64
S- Conf	2'	10/12/17	<0.050	<0.050	< 0.050	< 0.0150	< 0.300	<10.0	<10.0	<10.0	<10.0	16
E- Conf	1.5'	10/12/17	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	128

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Vespa BME Federal #1H 1RP-4475 Closure Report



November 28, 2017

# **Appendix D**

**Analytical Data** 

energy opportunity growth

November 11, 2016

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

RE: Vespa BME Federal #1

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

OrderNo.: 1611464

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/1/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Received by OCD: 10/6/2021 10:28:59 AM

andig

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation Project: Vespa BME Federal #1 Lab ID: 1611464-001		Client Sample ID: S1-1'           Collection Date: 10/28/2016 8:37:00 AM           Matrix: SOIL         Received Date: 11/1/2016 10:00:00 AM								
Analyses	Result		al Units		Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analy	st: MRA				
Chloride	ND	30	mg/Kg	20	11/10/2016 11:40:08	AM 28610				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analy	st: TOM				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/10/2016 12:29:18	PM 28597				
Surr: DNOP	88.6	70-130	%Rec	1	11/10/2016 12:29:18	PM 28597				
EPA METHOD 8015D: GASOLINE RAM	IGE				Analy	st: NSB				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/10/2016 11:46:59	AM 28570				
Surr: BFB	84.4	68.3-144	%Rec	1	11/10/2016 11:46:59	AM 28570				
EPA METHOD 8021B: VOLATILES					Analy	st: NSB				
Benzene	ND	0.048	mg/Kg	1	11/10/2016 11:46:59	AM 28570				
Toluene	ND	0.048	mg/Kg	1	11/10/2016 11:46:59	AM 28570				
Ethylbenzene	ND	0.048	mg/Kg	1	11/10/2016 11:46:59	AM 28570				
Xylenes, Total	ND	0.097	mg/Kg	1	11/10/2016 11:46:59	AM 28570				
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	11/10/2016 11:46:59	AM 28570				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1611464 Date Reported: 11/11/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum CorporationProject: Vespa BME Federal #1Lab ID: 1611464-002	Client Sample ID: S1-2'Collection Date: 10/28/2016 8:58:00 AMMatrix: SOILReceived Date: 11/1/2016 10:00:00 AM							
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analy	st: MRA		
Chloride	59	30	mg/Kg	20	11/10/2016 12:17:22	PM 28610		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analy	st: TOM		
Diesel Range Organics (DRO)	55	10	mg/Kg	1	11/10/2016 12:14:39	PM 28597		
Surr: DNOP	84.7	70-130	%Rec	1	11/10/2016 12:14:39	PM 28597		
EPA METHOD 8015D: GASOLINE RAN	GE				Analy	st: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 12:10:36	PM 28570		
Surr: BFB	82.1	68.3-144	%Rec	1	11/10/2016 12:10:36	PM 28570		
EPA METHOD 8021B: VOLATILES					Analy	st: NSB		
Benzene	ND	0.024	mg/Kg	1	11/10/2016 12:10:36	PM 28570		
Toluene	ND	0.049	mg/Kg	1	11/10/2016 12:10:36	PM 28570		
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 12:10:36	PM 28570		
Xylenes, Total	ND	0.098	mg/Kg	1	11/10/2016 12:10:36	PM 28570		
Surr: 4-Bromofluorobenzene	94.3	80-120	%Rec	1	11/10/2016 12:10:36	PM 28570		

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1611464

### Date Reported: 11/11/2016

CLIENT: Yates Petroleum CorporationProject: Vespa BME Federal #1Lab ID: 1611464-003	Matrix:	SOIL	Collection I	Client Sample ID: S2-1' Collection Date: 10/28/2016 9:01:00 AM Received Date: 11/1/2016 10:00:00 AM					
Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: MRA			
Chloride	33	30	mg/Kg	20	11/10/2016 6:42:07 PM	A 28610			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	s			Analys	t: TOM			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/10/2016 12:41:57 F	M 28597			
Surr: DNOP	82.8	70-130	%Rec	1	11/10/2016 12:41:57 F	M 28597			
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 12:34:19 F	M 28570			
Surr: BFB	83.7	68.3-144	%Rec	1	11/10/2016 12:34:19 F	M 28570			
EPA METHOD 8021B: VOLATILES					Analys	t: NSB			
Benzene	ND	0.024	mg/Kg	1	11/10/2016 12:34:19 P	M 28570			
Toluene	ND	0.049	mg/Kg	1	11/10/2016 12:34:19 F	M 28570			
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 12:34:19 F	M 28570			
Xylenes, Total	ND	0.098	mg/Kg	1	11/10/2016 12:34:19 F	M 28570			
Surr: 4-Bromofluorobenzene	95.5	80-120	%Rec	1	11/10/2016 12:34:19 F	M 28570			

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	w	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1611464 Date Reported: 11/11/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum CorporationProject: Vespa BME Federal #1Lab ID: 1611464-004	Matrix:		Client Sample ID: S2-2' Collection Date: 10/28/2016 9:03:00 AM Received Date: 11/1/2016 10:00:00 AM				
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: MRA	
Chloride	100	30	mg/Kg	20	11/10/2016 6:54:32 P	M 28610	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analy	st: TOM	
Diesel Range Organics (DRO)	170	9.6	mg/Kg	1	11/10/2016 12:48:13	PM 28597	
Surr: DNOP	97.7	70-130	%Rec	1	11/10/2016 12:48:13	PM 28597	
EPA METHOD 8015D: GASOLINE RAI	NGE				Analy	st: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 12:57:50	PM 28570	
Surr: BFB	82.8	68.3-144	%Rec	1	11/10/2016 12:57:50	PM 28570	
EPA METHOD 8021B: VOLATILES					Analy	st: NSB	
Benzene	ND	0.025	mg/Kg	1	11/10/2016 12:57:50	PM 28570	
Toluene	ND	0.049	mg/Kg	1	11/10/2016 12:57:50	PM 28570	
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 12:57:50	PM 28570	
Xylenes, Total	ND	0.099	mg/Kg	1	11/10/2016 12:57:50	PM 28570	
Surr: 4-Bromofluorobenzene	94.3	80-120	%Rec	1	11/10/2016 12:57:50	PM 28570	

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Received by OCD: 10/6/2021 10:28:59 AM

### Hall Environmental Analysis Laboratory, Inc.

CLIENT	: Yates Petroleum Corporation		Client Sample ID: S2-3'
<b>Project:</b>	Vespa BME Federal #1		Collection Date: 10/28/2016 9:06:00 AM
Lab ID:	1611464-005	Matrix: SOIL	Received Date: 11/1/2016 10:00:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst:	MRA
Chloride	ND	30	mg/Kg	20 11/10/2016 7:06:57 PM	28610
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANIC	s		Analyst:	том
Diesel Range Organics (DRO)	93	10	mg/Kg	1 11/10/2016 1:33:42 PM	28597
Surr: DNOP	97.1	70-130	%Rec	1 11/10/2016 1:33:42 PM	28597
EPA METHOD 8015D: GASOLINE RA	NGE			Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1 11/10/2016 1:21:20 PM	28570
Surr: BFB	83.7	68.3-144	%Rec	1 11/10/2016 1:21:20 PM	28570
EPA METHOD 8021B: VOLATILES				Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1 11/10/2016 1:21:20 PM	28570
Toluene	ND	0.047	mg/Kg	1 11/10/2016 1:21:20 PM	28570
Ethylbenzene	ND	0.047	mg/Kg	1 11/10/2016 1:21:20 PM	28570
Xylenes, Total	ND	0.094	mg/Kg	1 11/10/2016 1:21:20 PM	28570
Surr: 4-Bromofluorobenzene	96.6	80-120	%Rec	1 11/10/2016 1:21:20 PM	28570

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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Analytical Report Lab Order 1611464 Date Reported: 11/11/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation Project: Vespa BME Federal #1	Client Sample ID: S2-3.5' Collection Date: 10/28/2016 9:26:00 AM								
Lab ID: 1611464-006	Matrix:	SOIL		Received Date: 11/1/2016 10:00:00 AM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analysi	: MRA			
Chloride	40	30	mg/Kg	20	11/10/2016 7:19:21 PN	1 28610			
EPA METHOD 8015M/D: DIESEL RANG	<b>GE ORGANIC</b>	s			Analys	: TOM			
Diesel Range Organics (DRO)	76	9.9	mg/Kg	1	11/10/2016 2:14:15 PN	28597			
Surr: DNOP	96.4	70-130	%Rec	1	11/10/2016 2:14:15 PN	28597			
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 5:39:03 PN	28570			
Surr: BFB	84.9	68.3-144	%Rec	1	11/10/2016 5:39:03 PN	28570			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.025	mg/Kg	1	11/10/2016 5:39:03 PM	28570			
Toluene	ND	0.049	mg/Kg	1	11/10/2016 5:39:03 PM	28570			
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 5:39:03 PM	28570			
Xylenes, Total	ND	0.098	mg/Kg	1	11/10/2016 5:39:03 PN	28570			
Surr: 4-Bromofluorobenzene	99.3	80-120	%Rec	1	11/10/2016 5:39:03 PM	28570			

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
•	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

### Hall Environmental Analysis Laboratory, Inc.

Client: Project:		Petroleum Co BME Federal	1	on							
Sample ID	ample ID MB-28610 SampType: mblk TestCode: EPA Method 300.0: Anions										
Client ID:	PBS	Batch	ID: 28	610	F	RunNo: 3	8626				
Prep Date:	11/10/2016	Analysis Da	ate: 11	/10/2016	5	SeqNo: 1	206570	Units: mg/K	g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID	LCS-28610	SampTy	/pe: lcs		Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 28	610	F	RunNo: 3	8626				
Prep Date:	11/10/2016	Analysis Da	ate: 11	/10/2016	8	SeqNo: 1	206571	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.9	90	110			

Qualifiers:

Received by OCD: 10/6/2021 10:28:59 AM

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range E
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- Sample container temperature is out of limit as specified W

11-Nov-16

Page 7 of 10

Client:

**Project:** 

### QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

Yates Petroleum Corporation

Vespa BME Federal #1

:	11/10/2016	Analysis Date:	11/10/2010
		Result PC	L SPK value
P		4.2	5.000
)	MB-28593	SampType:	MBLK
	PBS	Batch ID:	28593
:	11/10/2016	Analysis Date:	11/10/2016
		Result PC	L SPK value
P		9.0	10.00
)	MB-28597	SampType:	MBLK
	PBS	Batch ID:	28597
:	11/10/2016	Analysis Date:	11/10/2016
		Result PG	L SPK value
	Organics (DRO)	ND	10
P		8.5	10.00
)	LCS-28572	SampType:	LCS
)	LCS-28572 LCSS	SampType: Batch ID:	
)			28572
	LCSS	Batch ID:	28572 11/10/2016
	LCSS	Batch ID: Analysis Date:	28572 11/10/2016
:	LCSS	Batch ID: Analysis Date: Result PG	28572 11/10/2016 QL SPK value 5.000
: P	LCSS 11/9/2016	Batch ID: Analysis Date: Result PC 4.5	28572 11/10/2016 <u>QL SPK value</u> 5.000 MBLK
: P	LCSS 11/9/2016 MB-28572	Batch ID: Analysis Date: Result PC 4.5 SampType:	28572 11/10/2016 <u>QL SPK value</u> 5.000 MBLK 28572
: P=>	LCSS 11/9/2016 MB-28572 PBS	Batch ID: Analysis Date: Result PC 4.5 SampType: Batch ID:	28572 11/10/2016 <u>2L SPK value</u> 5.000 MBLK 28572 11/10/2016
: P=>	LCSS 11/9/2016 MB-28572 PBS	Batch ID: Analysis Date: Result PC 4.5 SampType: Batch ID: Analysis Date:	28572 11/10/2016 <u>QL_SPK value</u> 5.000 MBLK 28572 11/10/2016
: P	LCSS 11/9/2016 MB-28572 PBS	Batch ID: Analysis Date: Result PC 4.5 SampType: Batch ID: Analysis Date: Result PC	28572 11/10/2016 <u>2L SPK value</u> 5.000 MBLK 28572 11/10/2016 <u>2L SPK value</u>
: P	LCSS 11/9/2016 MB-28572 PBS	Batch ID: Analysis Date: Result PC 4.5 SampType: Batch ID: Analysis Date: Result PC	28572 11/10/2016 <u>2L SPK value</u> 5.000 MBLK 28572 11/10/2016 <u>2L SPK value</u>
: P	LCSS 11/9/2016 MB-28572 PBS	Batch ID: Analysis Date: Result PC 4.5 SampType: Batch ID: Analysis Date: Result PC	28572 11/10/2016 <u>2L SPK value</u> 5.000 MBLK 28572 11/10/2016 <u>2L SPK value</u>

Qualifiers:

\*

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В

Е Value above quantitation range

- Analyte detected below quantitation limits Page 8 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

WO#: 1611464 11-Nov-16

Cilent ID:         LCSS         Batch ID:         28593         RumNo:         38609           Prep Date:         11/10/2016         Analysis Date:         11/10/2016         SeqNo:         1205792         Unils: '%Rec           Analyte         Result         POL         SPK value         SPK Kef Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Sur: DNOP         4.1         5.000         81.6         70         130			
Prep Date:         11/10/2016         Analysis Date:         11/10/2016         SeqNo:         1205792         Units:         %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Surr.DNOP         4.1         5.000         81.6         70         130	Sample ID LCS-28593	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range	Organics
Analyte         Result         POL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLImit         Qual           Sur: DNOP         4.1         5.000         81.6         70         130               130            Qual           300         130             300          300           300         300         300           300         300          300	Client ID: LCSS	Batch ID: 28593 RunNo: 38609	
Surr, DNOP       4.1       6.000       81.6       70       130         Sample ID       LCS-28593       SampType: LCS       TestCode: EPA Method 8015M/D: Diesel Range Organics         Cilent ID:       LCSS       Batch ID: 28593       RunNo: 38609         Prep Date:       11/10/2016       Analysis Date:       11/10/2016       SeqNo:       1205793       Units: %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Surr, DNOP       4.2       5.000       84.9       70       130       130         Sample ID       MB-28593       SampType: MBLK       TestCode: EPA Method 8015M/D: Diesel Range Organics       Clent ID:       PBS       Batch ID: 28593       RunNo: 38609       11/10/2016       SeqNo: 1205794       Units: %Rec         Analyte       Result       PQL       SPK Net Value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Surr DNOP       9.0       10.00       90.1       70       130       130       130         Sample ID       MB-28597       SampType: MBLK       TestCode: EPA Method 8015M/D: Diesel Range Organics       Clent ID	Prep Date: 11/10/2016	Analysis Date: 11/10/2016 SeqNo: 1205792 Units: %Rec	
Sample ID LCS-28593 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Cilent ID: LCSS Batch ID: 28593 RunNo: 38609 Prep Date: 11/10/2016 Analysis Date: 11/10/2016 SeqNo: 1205793 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sample ID MB-28593 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Cilent ID: PBS Batch ID: 28593 RunNo: 38609 Prep Date: 11/10/2016 Analysis Date: 11/10/2016 SeqNo: 1205794 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sample ID MB-28597 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Cilent ID: PBS Batch ID: 28593 RunNo: 38609 Prep Date: 11/10/2016 Analysis Date: 11/10/2016 SeqNo: 1205794 Units: %Rec Sample ID MB-28597 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Cilent ID: PBS Batch ID: 28597 RunNo: 38609 Prep Date: 11/10/2016 Analysis Date: 11/10/2016 SeqNo: 1205795 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual iesel Range Organics (DRO) ND 10 Sample ID MB-28572 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Cilent ID: PBS Batch ID: 28572 RunNo: 38609 Prep Date: 11/10/2016 Analysis Date: 11/10/2016 SeqNo: 1205795 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual iesel Range Organics (DRO) ND 10 Sam: DNOP 8.5 10.00 84.9 70 130 Sample ID LCS-28572 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Cilent ID: LCSS Batch ID: 28572 RunNo: 38609 Prep Date: 11/19/2016 Analysis Date: 11/10/2018 SeqNo: 1206232 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sample ID MB-28572 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Cilent ID: PBS Batch ID: 28572 RunNo: 38609 Prep Date: 11/19/2016 Analysis Date: 11/10/2016 SeqNo: 1206235 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Client ID:       LGSS       Batch ID:       28593       RunNo:       38609         Prep Date:       11/10/2016       Analysis Date:       11/10/2016       SeqNo:       1205793       Unlis:       %Rec         Analyte       Result       PQL       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Sur: DNOP       4.2       5.000       84.9       70       130	Surr: DNOP	4.1 5:000 81.6 70 130	
Prep Date:         11/10/2016         Analysis Date:         11/10/2016         SeqNo:         1205793         Unlis:         %Rec           Analyte         Result         PQL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Sur; DNOP         4.2         5.000         84.9         70         130	Sample ID LCS-28593	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range	Organics
Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Surr. DNOP       4.2       5.000       84.9       70       130       130       130         Sample ID       MB-289593       SampType:       MBLK       TestCode:       EPA Method 8015M/D: Diesel Range Organics       Clent ID:       PBS       Batch ID:       286593       RunNo:       38609         Prep Date:       11/10/2016       Analysis Date:       11/10/2016       SeqNo:       1205794       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLImit       Qual         Surr. DNOP       9.0       10.00       90.1       70       130       130       130         Sample ID       MB-28597       SampType:       MBLK       TestCode:       EPA Method 8015M/D: Diesel Range Organics       Cleint ID:       PIS       Batch ID:       28597       RunNo:       38609       130       130       130       140       1410/2016       SeqNo:       1205795       Units:       MREC       Analyte       Result       PQL       SPK value <td>Client ID: LCSS</td> <td>Batch ID: 28593 RunNo: 38609</td> <td></td>	Client ID: LCSS	Batch ID: 28593 RunNo: 38609	
Mark       High	Prep Date: 11/10/2016	Analysis Date: 11/10/2016 SeqNo: 1205793 Units: %Rec	
Sample ID       MB-28593       SampType:       MBLK       TestCode:       EPA Method 8015M/D: Diesel Range Organics         Client ID:       PBS       Batch ID:       28593       RunNo:       38609         Prep Date:       11/10/2016       Analysis Date:       11/10/2016       SeqNo:       1205794       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK value       SPK value       SPK value       SeqNo:       1205794       Units:       %Rec         Surr: DNOP       9.0       10.00       90.1       70       130       30       30         Sample ID       MB-28597       SampType:       MBLK       TestCode:       EPA Method 8015M/D: Diesel Range Organics         Client ID:       PBS       Batch ID:       28597       RunNo:       38609       9         Prep Date:       11/10/2016       Analysis Date:       11/10/2016       SeqNo:       1205795       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         iesel Range Organics (DRO)       ND       10       10.00       84.9       70       130       1	Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Client ID:PBSBatch ID:28593RunNo:38609Prep Date:11/10/2016Analysis Date:11/10/2016SeqNo:1205794Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSur: DNOP9.010.0090.1701303030303030Sample IDMB-28597SampType:MBLKTestCode:EPA Method 8015M/D:Diesel Range OrganicsClient ID:PBSBatch ID:28597RunNo:38609Prep Date:11/10/2016Analysis Date:11/10/2016SeqNo:1205795Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualitesel Range Organics (DRO)ND1010Sample IDLCS-28572SampType:LCSTestCode:EPA Method 8015M/D:Diesel Range OrganicsClient ID:LCSBatch ID:28572RunNo:38609TestCode:EPA Method 8015M/D:Diesel Range OrganicsClient ID:LCSBatch ID:28572RunNo:38609TestCode:EPA Method 8015M/D:Diesel Range OrganicsClient ID:LCSBatch ID:28572RunNo:38609To130Sample IDMB-28572SampType:MBLKTestCode:EPA Method 8015M/D:Diesel Range OrganicsSample IDMB-2857	Surr: DNOP	4.2 5.000 84.9 70 130	
Prep Date:         11/10/2016         Analysis Date:         11/10/2016         SeqNo:         1205794         Units:         %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Sur; DNOP         9.0         10.00         90.1         70         130	Sample ID MB-28593	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range	Organics
Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Sur: DNOP       9.0       10.00       90.1       70       130       130       130         Sample ID       MB-26597       SampType:       MBLK       TestCode:       EPA Method 8015M/D: Diesel Range Organics       Client ID:       PBS       Batch ID:       28597       RunNo:       38609       Prep Date:       11/10/2016       Analysis Date:       11/10/2016       SeqNo:       1205795       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Sur: DNOP       8.5       10.00       84.9       70       130       130       130         Sample ID       LCS-28572       SampType: LCS       TestCode:       EPA Method 8015M/D: Diesel Range Organics       140         Glient ID:       LCSS       Batch ID:       28572       RunNo:       38609       130       140         Sur: DNOP       4.5       5.000       89.0       70       130       130       130       140       140       140 <td>Client ID: PBS</td> <td>Batch ID: 28593 RunNo: 38609</td> <td></td>	Client ID: PBS	Batch ID: 28593 RunNo: 38609	
Marking       Nome       9.0       10.00       90.1       70       130         Surr: DNOP       9.0       10.00       90.1       70       130         Sample ID       MB-28597       SampType: MBLK       TestCode: EPA Method 8015M/D: Diesel Range Organics         Cilent ID:       PBS       Batch ID: 28597       RunNo: 38609         Prep Date:       11/10/2016       Analysis Date:       11/10/2016         Analyte       Result       PQL_SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Iesel Range Organics (DRO)       ND       10       Surr: DNOP       8.5       10.00       84.9       70       130         Sample ID       LCS-28572       SampType: LCS       TestCode: EPA Method 8015M/D: Diesel Range Organics       Client ID: LCSS       Batch ID: 28572       RunNo: 38609         Prep Date:       11/9/2016       Analysis Date:       11/10/2016       SeqNo: 1206232       Units: %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD RPDLimit       Qual         Surr: DNOP       4.5       5.000       89.0       70       130       70	Prep Date: 11/10/2016	Analysis Date: 11/10/2016 SeqNo: 1205794 Units: %Rec	
Sample ID       MB-28597       SampType:       MBLK       TestCode:       EPA Method 8015M/D: Diesel Range Organics         Cilent ID:       PBS       Batch ID:       28597       RunNo:       38609         Prep Date:       11/10/2016       Analysis Date:       11/10/2016       SeqNo:       1205795       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Surr: DNOP       8.5       10.00       84.9       70       130	Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Client ID:PBSBatch ID:28597RunNo:38609Prep Date:11/10/2016Analysis Date:11/10/2016SeqNo:1205795Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualInterest Range Organics (DRO)ND108.510.0084.970130100Surr: DNOP8.510.0084.970130100Sample IDLCS-28572SampType:LCSTestCode:EPA Method 8015M/D:Diesel Range OrganicsClient ID:LCSSBatch ID:28572RunNo:38609100300Prep Date:11/9/2016Analysis Date:11/10/2016SeqNo:1206232Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSample IDMB-28572SampType:MBLKTestCode:EPA Method 8015M/D:Diesel Range OrganicsSample IDMB-28572SampType:MBLKTestCode:EPA Method 8015M/D:Diesel Range OrganicsSample IDMB-28572SampType:MBLKTestCode:EPA Method 8015M/D:Diesel Range OrganicsSample IDMB-28572SampType:MBLKTestCode:EPA Method 8015M/D:Diesel Range OrganicsClient ID:PBSBatch ID:28572RunNo:38609Prep Date:11/9/2016SeqNo:1	Surr: DNOP	9.0 10.00 90.1 70 130	
Prep Date:       11/10/2016       Analysis Date:       11/10/2016       SeqNo:       1205795       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         liesel Range Organics (DRO)       ND       10	Sample ID MB-28597	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range	Organics
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualiesel Range Organics (DRO)ND10Surr: DNOP8.510.0084.970130Sample IDLCS-28572SampType: LCSTestCode: EPA Method 8015M/D: Diesel Range OrganicsClient ID:LCSSBatch ID: 28572RunNo: 38609Prep Date:11/9/2016Analysis Date:11/10/2016SeqNo: 1206232Units: %RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSample IDMB-28572SampType: MBLKTestCode: EPA Method 8015M/D: Diesel Range OrganicsQualSample IDMB-28572SampType: MBLKTestCode: EPA Method 8015M/D: Diesel Range OrganicsClient ID:PBSBatch ID: 28572RunNo: 38609Prep Date:11/9/2016Analysis Date:11/10/2016SeqNo: 1206235Units: %RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual	Client ID: PBS	Batch ID: 28597 RunNo: 38609	
NumberND10Surr: DNOP8.510.0084.970130Sample IDLCS-28572SampType: LCSTestCode: EPA Method 8015M/D: Diesel Range OrganicsClient ID:LCSSBatch ID: 28572RunNo: 38609Prep Date:11/9/2016Analysis Date:11/10/2016Semple IDMBPQLSPK valueSPK Ref Val%RecResultPQLSPK valueSPK Ref ValSurr: DNOP4.55.00089.070Sample IDMB-28572SampType:MBLKSample IDMB-28572SampType:MBLKSample IDPBSBatch ID: 28572RunNo: 38609Prep Date:11/9/2016Analysis Date:11/10/2016SeqNo:1206235Units: %RecAnalyteResultPQLSPK valuePrep Date:11/9/2016Analysis Date:11/10/2016ResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual	Prep Date: 11/10/2016	Analysis Date: 11/10/2016 SeqNo: 1205795 Units: mg/Kg	
Surr. DNOP8.510.0084.970130Sample IDLCS-28572SampType: LCSTestCode: EPA Method 8015M/D: Diesel Range OrganicsClient ID:LCSSBatch ID:28572RunNo:38609Prep Date:11/9/2016Analysis Date:11/10/2016SeqNo:1206232Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSurr: DNOP4.55.00089.070130130130130Sample IDMB-28572SampType:MBLKTestCode: EPA Method 8015M/D: Diesel Range OrganicsClient ID:PBSBatch ID:28572RunNo:38609Prep Date:11/9/2016Analysis Date:11/10/2016SeqNo:1206235Units:Prep Date:11/9/2016Analysis Date:11/10/2016SeqNo:1206235Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual	Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Sample ID       LCS-28572       SampType:       LCS       TestCode:       EPA Method       8015M/D:       Diesel Range Organics         Client ID:       LCSS       Batch ID:       28572       RunNo:       38609         Prep Date:       11/9/2016       Analysis Date:       11/10/2016       SeqNo:       1206232       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Surr: DNOP       4.5       5.000       89.0       70       130         Sample ID       MB-28572       SampType:       MBLK       TestCode:       EPA Method 8015M/D:       Diesel Range Organics         Client ID:       PBS       Batch ID:       28572       RunNo:       38609         Prep Date:       11/9/2016       Analysis Date:       11/10/2016       SeqNo:       1206235       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual	Diesel Range Organics (DRO)		
Client ID:       LCSS       Batch ID:       28572       RunNo:       38609         Prep Date:       11/9/2016       SeqNo:       1206232       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Surr: DNOP       4.5       5.000       89.0       70       130	Surr: DNOP	8.5 10.00 84.9 70 130	
Prep Date:       11/9/2016       Analysis Date:       11/10/2016       SeqNo:       1206232       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Surr: DNOP       4.5       5.000       89.0       70       130         Sample ID       MB-28572       SampType:       MBLK       TestCode:       EPA Method       8015M/D: Diesel Range Organics         Client ID:       PBS       Batch ID:       28572       RunNo:       38609         Prep Date:       11/9/2016       Analysis Date:       11/10/2016       SeqNo:       1206235       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual	Sample ID LCS-28572	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range	Organics
Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Surr: DNOP       4.5       5.000       89.0       70       130         Sample ID       MB-28572       SampType:       MBLK       TestCode:       EPA Method 8015M/D:       Diesel Range Organics         Client ID:       PBS       Batch ID:       28572       RunNo:       38609         Prep Date:       11/9/2016       Analysis Date:       11/10/2016       SeqNo:       1206235       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual	Client ID: LCSS	Batch ID: 28572 RunNo: 38609	
Number       Note of the second	Prep Date: 11/9/2016	Analysis Date: 11/10/2016 SeqNo: 1206232 Units: %Rec	
Common of the second	Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Client ID:     PBS     Batch ID:     28572     RunNo:     38609       Prep Date:     11/9/2016     Analysis Date:     11/10/2016     SeqNo:     1206235     Units:     %Rec       Analyte     Result     PQL     SPK value     SPK Ref Val     %REC     LowLimit     HighLimit     %RPD     RPDLimit     Qual	Surr: DNOP	4.5 5.000 89.0 70 130	· ·
Prep Date: 11/9/2016 Analysis Date: 11/10/2016 SeqNo: 1206235 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Sample ID MB-28572	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range	Organics
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Client ID: PBS	Batch ID: 28572 RunNo: 38609	
	Prep Date: 11/9/2016	Analysis Date: 11/10/2016 SeqNo: 1206235 Units: %Rec	
Surr: DNOP 9.3 10.00 92.7 70 130	Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
		9.3 10.00 92.7 70 130	

### QC SUMMARY REPORT

### Hall Environmental Analysis Laboratory, Inc.

Client: Project:		etroleum Corpora ME Federal #1	tion							
Sample ID	MB-28570	IBLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e		
Client ID:	PBS	Batch ID: 2	8570	F	RunNo: 3	8598				
Prep Date:	11/9/2016	Analysis Date:	11/10/2016	ę	SeqNo: 1	206092	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	ND 5.0								
Surr: BFB		820	1000		82.3	68.3	144			
Sample ID	LCS-28570	SampType: L	cs	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID:	LCSS	Batch ID: 2	8570	F	RunNo: 3	8598				
Prep Date:	11/9/2016	Analysis Date:	11/10/2016	8	SeqNo: 1	206093	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	24 5.0		0	94.8	74.6	123			
Surr: BFB		890	1000		88,6	68.3	144			
Sample ID	MB-28565	SampType: N	IBLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Rang	e	
Client ID:	PBS	Batch ID: 2	8565	F	RunNo: 38	8598				
Prep Date:	11/9/2016	Analysis Date:	1/10/2016	S	SeqNo: 12	206108	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		850	1000		84.9	68.3	144			
Sample ID	LCS-28565	SampType: L	CS	Tes	tCode: EF	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch ID: 2	8565	F	RunNo: 38	8598				
Prep Date:	11/9/2016	Analysis Date:	1/10/2016	S	eqNo: 12	206109	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		910	1000		91.0	68.3	144			

Qualifiers:

Received by OCD: 10/6/2021 10:28:59 AM

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

11-Nov-16

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# QC SUMMARY REPORT

### Hall Environmental Analysis Laboratory, Inc.

Client: Project:		etroleum C 3ME Feder	•	on							
	• cspa 1		μι <i>π</i> ι								
Sample ID	MB-28570 SampType: MBLK				Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Bato	h ID: 28	570	F	RunNo: 3	8598				
Prep Date:	11/9/2016	Analysis I	Date: 1 <sup>,</sup>	1/10/2016	ŝ	SeqNo: 1	206124	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025	_						· · · · · · · · · · · · · · · · · · ·	······
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
-	nofluorobenzene	0.97		1.000		96.9	80	120			
Sample ID	LCS-28570	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batc	h ID: 28	570	F	RunNo: 3	8598				
Prep Date:	11/9/2016	Analysis I	Date: 14	1/10/2016	ę	SeqNo: 1	206125	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.025	1.000	0	113	75.2	115			
Toluene		1.0	0.050	1.000	0	103	80.7	112			
Ethylbenzene		1.0	0.050	1.000	0	100	78.9	117			
Xylenes, Total		3.0	0.10	3.000	0	99.5	79.2	115			
Surr: 4-Brom	ofluorobenzene	1.0		1.000		102	80	120			
Sample ID	MB-28565	Samp	Гуре: МЕ	3LK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batc	h ID: 28	565	F	RunNo: 3	8598				
Prep Date:	11/9/2016	Analysis [	Date: 11	1/10/2016	S	SeqNo: 1	206416	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.0		1.000		100	80	120			
Sample ID	LCS-28565	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volati	iles		
Client ID:	LCSS	Batc	h ID: 28	565	F	RunNo: 3	8598				
Prep Date:	11/9/2016	Analysis [	Date: 11	1/10/2016	S	SeqNo: 1	206417	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

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

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HALL ENVIRONMENTAL	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109
ANALYSIS	TEL: 505-345-3975 FAX: 505-345-4107
LABORATORY	Website: www.hallenvironinental.com

# Sample Log-In Check List

LABORATORY	TEL: 505-345-397 Website: www.l	5 FAX: 505-345-4 allenvironmental.			
Client Name: EOG/Yates	Work Order Numbe	or: 1611464		RcptNo:	1
Received by/date: AJ M/01/16			••••••••••••••••••••••••••••••••••••••		
Logged By: Anne Thorne	11/1/2016 10:00:00 /	M	anne Arm		
Completed By: Anne Thorne	11/9/2016		anne Arm	~	
Reviewed By: 70 11/09/16					
Chain of Custody					
1. Custody seals intact on sample bottles?		Yes 🗹	No 🗌	Not Present 🔲	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present 🗌	
3. How was the sample delivered?		Courier			
<u>Log In</u>					
4. Was an attempt made to cool the samples?		Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes 🗹	No 🗌		
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)	?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) properly	/ preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
10.VOA vials have zero headspace?		Yes 🗆	No 🗆	No VOA Vials 🗹	
11. Were any sample containers received broker	n?	Yes 🗆	No 🔽	# of preserved	
12. Does paperwork match bottle labels?		Yes 🗹	No 🗆	bottles checked for pH:	or >12 unless noted
(Note discrepancies on chain of custody)		Yes 🔽	No 🗆	Adjusted?	or >12 unless ribled,
13, Are matrices correctly identified on Chain of C	Justody?	Yes 🗹			
<ul><li>14, Is it clear what analyses were requested?</li><li>15. Were all holding times able to be met? (If no, notify customer for authorization.)</li></ul>		Yes 🗹	No 🗌	Checked by:	
<u>Special Handling (if applicable)</u>		_	—		
16. Was client notified of all discrepancies with th	nis order?	Yes 🗌	No 🗌		
Person Notified:	Date			_	
By Whom:	Via:	🗌 eMall 🔲	Phone 🗌 Fax	In Person	
Regarding:	turing and the second		· · · ·	<u> </u>	
Client instructions:	•	· · · · ·		•••••••••••••••••••••••••••••••••••••••	
17. Additional remarks:					

### 18. Cooler Information

Received by OCD: 10/6/2021 10:28:59 AM

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

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Slient: EOG	() 0			X Standarc	D Rush					ANALY SITE LABORATORY					ZAT S	Į	۲ ۲	
				Project Name:					· ·	www.hallenvironmental.com	allenvâ		ntal.c	E			L F	
Viailing Address:	Adress			>	Vespa BME Federal #1	sderal #1		1901	ławki	4901 Hawkins NE	- Albuquerque, NM 87109	duerc	ue, N	M 871	60			
105 Sout	th 4th S	105 South 4th Street Artesia, NM	esia, NM 88210	Project #				Tel. 5	05-34	Tel. 505-345-3975	Ŭ,	20 32 ·	Fax 505-345-4107	4107				
-hone #:	,	575-703-6537	-6537		30-005-29095	095	 	•			Anal	sis Re	duest		:			
smail or Fax#.	Fax#.	<u>csettle@</u>	csettle@yatespetroleum.com	Project Manager:	jer.													
JA/QC Package:	ackage:	_			Chase Settle								P. (%)					
Standard	lard		Level 4 (Full Validation)		PO # 205. 0750	50			:				~					
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO 1611-164	BTEX + MT	BTEX + MI	TPH (Meth	AN9) 801 AN9) 01:68	M 8 ARDFI	T) enoinA	8081 Pestic 0V) 80828	me2) 0728				Alr Bubbles
10/28/2016 8:37a	8:37a	Soil	S1-1'	1 - 4oz.	ICE ·	60	×	_×				×			L			<u> </u>
10282018 8:58a	8:58a	Soil	S1-2'	1 - 402.	ICE	-202	×	- <b>X</b>	· · · · ·			 ×						r
10/28/2016 9:01a	9:01a	Soil	S2-1'	1 - 4oz.	ICE	E02 .	×	×				×						<u> </u>
10282016 9:03a	9:03a	Soil	\$2-2'	1 - 4oz.	ICE	192	×	×										
10/28/2018 9:06a	9:06a	Soil	S2-3'	1 - 4oz.	ICE	572	×	<u>×</u>				×						
1028(2018) 9:26a	9:26a	Soil	\$2-3.5 <sup>1</sup>	1 - 402.	ICE	9p2	×	×				×	 					
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Amy sub-contracted data will be clearly notated on the analytical report.

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October 25, 2017

CHASE SETTLE EOG Y RESOURCES, INC 105 SOUTH 4TH STREET ARTESIA, NM 88210

RE: VESPA BME FEDERAL #1H

Enclosed are the results of analyses for samples received by the laboratory on 10/18/17 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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,

Received by OCD: 10/6/2021 10:28:59 AM

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:	10/18/2017	Sampling Date:	10/12/2017
Reported:	10/25/2017	Sampling Type:	Soil
Project Name:	VESPA BME FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	30-005-29095	Sample Received By:	Tamara Oldaker
Project Location:	CHAVES COUNTY		

### Sample ID: B1 - CONFIRMATION (H702831-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.054	0.050	10/21/2017	ND	1.71	85.3	2.00	1.15	
Toluene*	0.124	0.050	10/21/2017	ND	1.70	84.8	2.00	0.528	
Ethylbenzene*	0.052	0.050	10/21/2017	ND	1.70	84.9	2.00	1.24	
Total Xylenes*	<0.150	0.150	10/21/2017	ND	5.05	84.2	6.00	1.09	
Total BTEX	0.358	0.300	10/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/23/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2017	ND	214	107	200	2.10	
DR0 >C10-C28	85.5	10.0	10/20/2017	ND	217	108	200	4.09	
EXT DRO >C28-C36	51.2	10.0	10/20/2017	ND					
Surrogate: 1-Chlorooctane	92.9 9	28.3-164							
Surrogate: 1-Chlorooctadecane	99.69								

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Celeg D.Kee

Celey D. Keene, Lab Director/Quality Manager

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EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:	10/18/2017	Sampling Date:	10/12/2017
Reported:	10/25/2017	Sampling Type:	Soil
Project Name:	VESPA BME FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	30-005-29095	Sample Received By:	Tamara Oldaker
Project Location:	CHAVES COUNTY		

### Sample ID: B2 - CONFIRMATION (H702831-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2017	ND	1.71	85.3	2.00	1.15	
Toluene*	<0.050	0.050	10/21/2017	ND	1.70	84.8	2.00	0.528	
Ethylbenzene*	<0.050	0.050	10/21/2017	ND	1.70	84.9	2.00	1.24	
Total Xylenes*	<0.150	0.150	10/21/2017	ND	5.05	84.2	6.00	1.09	
Total BTEX	<0.300	0.300	10/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	% 72-148							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/23/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2017	ND	214	107	200	2.10	
DR0 >C10-C28	502	10.0	10/20/2017	ND	217	108	200	4.09	
EXT DRO >C28-C36	173	10.0	10/20/2017	ND					
Surrogate: 1-Chlorooctane	76.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	94.8	% 34.7-15	7						

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received:	10/18/2017	Sampling Date:	10/12/2017
Reported:	10/25/2017	Sampling Type:	Soil
Project Name:	VESPA BME FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	30-005-29095	Sample Received By:	Tamara Oldaker
Project Location:	CHAVES COUNTY		

### Sample ID: N - CONFIRMATION (H702831-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2017	ND	1.71	85.3	2.00	1.15	
Toluene*	<0.050	0.050	10/21/2017	ND	1.70	84.8	2.00	0.528	
Ethylbenzene*	<0.050	0.050	10/21/2017	ND	1.70	84.9	2.00	1.24	
Total Xylenes*	<0.150	0.150	10/21/2017	ND	5.05	84.2	6.00	1.09	
Total BTEX	<0.300	0.300	10/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/23/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/20/2017	ND	214	107	200	2.10	
DR0 >C10-C28	1750	50.0	10/20/2017	ND	217	108	200	4.09	
EXT DRO >C28-C36	628	50.0	10/20/2017	ND					
Surrogate: 1-Chlorooctane	63.2 9	6 28.3-164		,					
Surrogate: 1-Chlorooctadecane	105 %	6 34.7-157							

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



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Received:	10/18/2017	Sampling Date:	10/12/2017
Reported:	10/25/2017	Sampling Type:	Soil
Project Name:	VESPA BME FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	30-005-29095	Sample Received By:	Tamara Oldaker
Project Location:	CHAVES COUNTY		

### Sample ID: W- CONFIRMATION (H702831-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2017	ND	1.83	91.4	2.00	0.101	QR-03
Toluene*	<0.050	0.050	10/24/2017	ND	1.81	90.5	2.00	0.00944	QR-03
Ethylbenzene*	<0.050	0.050	10/24/2017	ND	1.79	89.3	2.00	0,250	QR-03
Total Xylenes*	<0.150	0.150	10/24/2017	ND	5.34	89,1	6.00	0.858	
Total BTEX	<0,300	0.300	10/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	6 72-148		6					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/23/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2017	ND	214	107	200	2.10	
DRO >C10-C28	<10.0	10.0	10/20/2017	ND	217	108	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	10/20/2017	ND					
Surrogate: 1-Chlorooctane	84.1 9	6 28.3-164							
Surrogate: 1-Chlorooctadecane	82.8 9	% 34.7-157							

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Received:	10/18/2017	Sampling Date:	10/12/2017
Reported:	10/25/2017	Sampling Type:	Soil
Project Name:	VESPA BME FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	30-005-29095	Sample Received By:	Tamara Oldaker
Project Location:	CHAVES COUNTY		

### Sample ID: S- CONFIRMATION (H702831-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	10/23/2017	ND	1.83	91.4	2.00	0.101				
Toluene*	<0.050	0.050	10/23/2017	ND	1.81	90.5	2,00	0.00944				
Ethylbenzene*	<0,050	0.050	10/23/2017	ND	1.79	89.3	2.00	0.250				
Total Xylenes*	<0.150	0.150	10/23/2017	ND	5.34	89.1	6.00	0,858				
Total BTEX	<0.300	0.300	10/23/2017	ND								
Surrogate: 4-Bromofluorobenzene (PIL	99.69	% 72-148										
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC				RPD Qualifier				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Chloride	16.0	16.0	10/23/2017	ND	432	108	400	3.64				
ТРН 8015М	mg/	kg	Analyze	d By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
GRO C6-C10	<10.0	10.0	10/20/2017	ND	214	107	200	2.10				
DRO >C10-C28	<10.0	10.0	10/20/2017	ND	217	108	200	4.09				
EXT DRO >C28-C36	<10.0	10.0	10/20/2017	ND								
Surrogate: 1-Chlorooctane	83.5 9	% 28.3-164										
Surrogate: 1-Chlorooctadecane	81.8 %	34.7-157										

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Received:	10/18/2017	Sampling Date:	10/12/2017
Reported:	10/25/2017	Sampling Type:	Soil
Project Name:	VESPA BME FEDERAL #1H	Sampling Condition:	Cool & Intact
Project Number:	30-005-29095	Sample Received By:	Tamara Oldaker
Project Location:	CHAVES COUNTY		

### Sample ID: E - CONFIRMATION (H702831-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	10/23/2017	ND	1.83	91.4	2.00	0.101			
Toluene*	<0.050	0.050	10/23/2017	ND	1.81	90.5	2.00	0.00944			
Ethylbenzene*	<0.050	0.050	10/23/2017	ND	1.79	89.3	2.00	0.250			
Total Xylenes*	<0.150	0.150	10/23/2017	ND	5.34	89.1	6.00	0.858			
Total BTEX	<0.300	0.300	10/23/2017	ND							
Surrogate: 4-Bromofluorobenzene (PIL	96.5 %	% 72-148									
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	128	16.0	10/23/2017	ND	432	108	400	3.64			
TPH 8015M	mg/	kg	Analyze	d By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GR0 C6-C10	<10.0	10.0	10/20/2017	ND	214	107	200	2.10			
DRO >C10-C28	<10.0	10.0	10/20/2017	ND	217	108	200	4.09			
EXT DRO >C28-C36	<10.0	10.0	10/20/2017	ND							
Surrogate: 1-Chlorooctane	84.5 %	6 28.3-164									
Surrogate: 1-Chlorooctadecane	83.9 %	% 34.7-157									

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

### **Notes and Definitions**

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 SM4500CI-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

Page 65 of 73

### Cardinal Laboratories

\*=Accredited Analyte

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PLEASE NOTE: Liability and Damages. Cardinal's Pablity 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, whost limitation, business interruptions, loss of use, or loss of profits incurred by client, its subdidiates, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such chlimic based upon any of the above stated reasons or otherwise. Results relate idny to the samples identified above. This report chail not be reported in fluid with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9

Released to Imaging: 10/6/2021 12:58:01 PM

9		CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST	
	9		

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	shed by:	shed by:	Special Instructions: ALL re				E-Confirmation	S-Confirmation		N-Confirmation	2 B2-Confirmation	B1-Confirmation	FIELD CODE	ORDER # HT02831	andari	Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia. NM 88210	Company Address: 104 South 4th Street	Company Name EOG Resources, Inc.	
	Date	Date 19/17 Date	sults in mg/							_		and the second				×)		3210	Street	s, Inc.	
	П	1:3	kg. T				0	Q	Q	- 3	0-	0	Beginning Depth								
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Contraction of the second	Received by ELOT:	Received by: Received by:	ALL results in mg/kg. TPH EXTENDED needed.				10/12/2017	10/12/2017	10/12/2017	-	10/12/2017	10/12/2017	Date Sampled								
	OT:	y Curbow	eded. Thank you.				1:39 PM	1:48 PM	2:00 PM	2:03 PM	1:44 PM	1:56 PM	Time Sampled			e-mail:	Fax No:				
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Received by OGD: 10/6/2021, 10:28:59 AM

Vespa BME Federal #1H 1RP-4475 Closure Report



November 28, 2017

# Appendix E

# **Liner Integrity Statement**

energy opportunity growth

Released to Imaging: 10/6/2021 12:58:01 PM



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

October 26, 2017

Ms. Olivia Yu NMOCD District I 1625 N. French Drive Hobbs, NM 88240

Re: Vespa BME Federal #1H 30-005-29095 Section 12, T15S-R31E 2500' FSL & 200' FEL Chaves County, New Mexico 1RP-4475

Ms. Yu,

EOG Y Resources, Inc. is submitting this letter as a statement to affirm that the liner in within the Vespa BME Federal #1H Battery is intact and will continue to contain liquids. At the time of the release, October 11, 2016, the impacted material on top of the liner was removed and sent to an NMOCD approved facility for disposal. The liner was then inspected by the undersigned foreman, Noel Gomez, for any defects before new gravel was installed to help protect the liner from wear and tear associated with being exposed to the natural elements and production activities.

Noel Gomez 5 Foreman Production Sr EOG Resources, Inc.

hav Settle

Chase Settle Rep Safety & Environmental II EOG Y Resources, Inc.

Vespa BME Federal #1H 1RP-4475 Closure Report



November 28, 2017

# **Appendix F**

# Form C-141 Initial

energy opportunity growth

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztee, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750

State of New Mexico Energy Minerals and Natural Resources

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

REVIEWED

By Kristen Lynch at 3:00 pm, Oct 20, 2016

Form C-141 Revised August 8, 2011

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

1220 S St Empoir Dr. Canto Eo NIM 97505	un st. Francis Dr.											
Santa	Fe, NM 87505											
Release Notification and Corrective Action												
OPERATOR Initial Report Final Report												
Name of Company	Contact											
Yates Petroleum Corporation	Chase Settle											
Address	Telephone No.											
104 S. 4 <sup>th</sup> Street, Artesia, NM 88210	575-748-4171											
Facility Name Vespa BME Federal #1H	Facility Type											
	Battery											
Surface Owner Mineral Owner	er API No.											
Private Federal	30-005-29095											
LOCATI	ON OF RELEASE											
Unit Letter Section Township Range Feet from the No	rth/South Line Feet from the East/West Line County											
I 12 15S 31E 2500 Sou	uth 200 East Chaves											
Latitude <u>33.03</u>	<u>027</u> Longitude <u>-103.76710</u>											
NATUR	RE OF RELEASE											
Type of Release	Volume of Release Volume Recovered											
Crude Oil and Produced Water Source of Release	15 B/O & 10 B/PW 7 B/O & 6 B/PW											
Horizontal Knockout	Date and Hour of OccurrenceDate and Hour of Discovery10/11/2016; AM10/11/2016; 10:30 AM											
Was Immediate Notice Given?	If YES, To Whom?											
🛛 Yes 🔲 No 🔲 Not Require	ed Kristen Lynch, Rick Flores											
By Whom?	Date and Hour											
Robert Asher	10/12/2016; 9:01 AM											
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse. N/A											
	14/1											
If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.*												
A collar failed on the horizontal knockout allowing the site glass nipple	e to be pushed out by pressure causing the release											
Describe Area Affected and Cleanup Action Taken.*												
An approximate area of 54' X 40' was affected within the lined berm of the better and the gas mater house. Vocument and the set	of the battery and 55' X 40' on the adjacent pad to the south of the battery between											
Excavated soils will be hauled to a NMOCD approved facility. Vertice	recover standing fluid and a backhoe was dispatched to remove impacted soils. al and horizontal delineation samples will be taken and analysis ran for TPH &											
BTEX (chlorides for documentation). If initial analytical results for TF	PH & 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 a	bove the RRAL's a work plan will be submitted to the OCD. Depth to Ground											
Water: >100' (approximately 240', Section 12, T15S-R31E, per Tra >1000', SITE RANKING IS 0.	end Map), Wellhead Protection Area: No, Distance to Surface Water Body:											
I hereby certify that the information given above is true and complete t	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	e 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											
or the environment. In addition NMOCD acceptance of a C-141 report	liate contamination that pose a threat to ground water, surface water, human health t does not relieve the operator of responsibility for compliance with any other											
federal, state, or local laws and/or regulations.	to downed release the operator of responsionity for compliance with any other											
OIL CONSERVATION DIVISION												
Signature (11) 25												
Annroyed by Environmental Specialisty Texter dynch												
Printed Name: Chase Settle Approved by Environmental Specialist:												
Title: NM Environmental Representative	Approval Date: 10/20/2016 Expiration Date: 12/20/2016											
	NMOCD accepts discrete samples only											
E-mail Address: csettle@yatespetroleum.com	Conditions of Approval:											
	Work plan's submitted will be approved based Attached 1 IRP 4475											
Date: 10/18/2016 Phone: 575-748-4171 Attach Additional Sheets If Necessary	upon not only DIEX & IPH, but also											
A SHORE A ROOMAND SHOOD IT 140005501 y	chlorides. Please notify NMOCD prior to nKL1629453480 sampling, Delineation plan must be pKL1629453878											
	sampling, Delineation plan must be pKL1629453878 submitted no later than 11/20/2016.											
	onormities no later than 11/20/2010.											

Received by OCD: 10/6/2021 10:28:59 AM

Vespa BME Federal #1H 1RP-4475 Closure Report



November 28, 2017

# **Appendix G**

Form C-141 Final

energy opportunity growth

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised April 3, 2017

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

OPERATOR       Initial Report       Find Report         OPERATOR       Initial Report       Find Report         Address       Telephone No.         Contract       Contract         Address       Telephone No.         Telephone No.         Joint Report       Contract         Participation Report         Surface Owner       API No.         IDE Colspan="2">Colspan="2">Counted to the Surface on the Surf	Santa Fe, NM 87505														
Name of Company       Contact         EOG Y Resources, Inc.       Chaso Settle         Address       Telephone No.         S75-748-1471       Fracility Name         Yeap BME Federal #1H       Battery         Surface Owner       Mineral Owner         Federal       Battery         Surface Owner       Mineral Owner         Federal       Battery         Surface Owner       Mineral Owner         Federal       Bottery         12       15S         12       15S         200       East         Chaso Settle       County         Chaso Settle       County         Chaso Settle       County         12       15S       3102         200       East       County         Chaso Settle       Chaso Settle         Valuma of Release       Volume Recovered         Task Inmediate Notice Given?       IV FEIS, To Whom?         Was Inmediate Notice Given?       IV FEIS, To Whom?         NA       Chase A FIPW	Release Notification and Corrective Action														
Name of Company       Contact         EOG Y Resources, Inc.       Chase Settle         Address       Telephone No.         S75-748-1471       Fracility Name         Vespa BME Federal #1H       Battery         Surface Owner       Mineral Owner         Fedirity Name       Pederal         Vespa BME Federal #1H       Battery         Surface Owner       Federal         Pee       Construct         Unit Letter       Section         12       15S         3102       2500         Loc CATION OF RELEASE         Unit Letter       Section         12       15S         3103027       Longitude, -103.76710         NAD883       NATURE OF RELEASE         Type of Release       Volume of Release         Yea of Release       1011/2016, AM         Yea (Mathematic Release)       1011/2016, AM         Horizontal Knockout       IVTES, To Whom?         Was Immediate Notice Given?       IVTES, To Whom Peesure         Yea (Mathematic Release)       101/12/016, 901 a.m.         By Whom?       Yea (Mathematic Release)         By Whom?       Yea (Mathematic Release)         By Whom?       Yea (Mathematic Release)							<b>OPERA</b>	FOR	I	🗌 Initia	al Report	$\boxtimes$	Final Report		
Address       Telephone No.         104 S. 4 <sup>th</sup> Street, Artesia, NM 88210       575-748-1471         Pacility Name       Pacility Type         Heality Type       Battery         Surface Owner       Mineral Owner         Fee       Mineral Owner         Peed       Jono 5-29095         LOCATION OF RELEASE         Unit Letter       Section         12       15S         31B       South         South Constraints         Constraints         Attitude _33.03027         Longtunde103.76710         NATURE OF RELEASE         Type of Release         Volume of Release         Of Release         Volume of Release													· · ·		
104 S.4* Street, Artesia, NM 88210       575-748-1471         Facility Name       Facility Type         Surface Owner       Facility Type         Surface Owner       Federal         Fee       AP1 No.         Surface Owner       Federal         Junt Letter       Section         Township       Range         Feed from the       East/West Line         Counce       Counce         Surface Of Release       Volume Recovered         Crade Oil and Produced Water       IS B/O & IO B/PW         Source Of Release       Volume Recovered         Infricting Koncolut       If YES, To Mom?         Was Immediate Notice Given?       If YES, No Mom?         Was a Waterourse Reached?       If YES, Volume Inpacting the Waterourse.         N/A       N/A         If a Waterourse Reached?       If YES, Volume Inpacting the Waterourse.         M/A       N/A         If a Waterourse Reached?       If YES, Volume Inpacting the Wate		ources, In	с.												
Facility Type       Battery         Surface Owner       Mineral Owner         Fee       Mineral Owner         Fee       API No.         CONSTRUCTION OF RELEASE         Unit Letter         1       12         12       15S         31B       Feet from the North/South Line       Feet from the County         LOCATION OF RELEASE         Unit Letter         Lot attitude_33.03027         Longitude _103.76710         NATURE OF RELEASE         Type of Release         Optimum of Release         Volume of Release         Volume of Release         Date and Hour of Occurrence         Date and Hour of Occurrence         Nor INTER OF RELEASE         Was Immediate Notice Given?       If YES, To Whom?         Kristen Lynch, Rick Flores       Date and Hour of Occurrence         By Whon?       Optimum of Release       IO/12016; 0:10 a.m.         By Whon?       IO/2016; Dol a.m.       If YES, Volume Impacting the Watercourse.         N/A       I/YES, Volume Impacting the Watercourse.       N/A         IVES S No     <						1	-								
Yespa BME Federal #1H       Battery         Surface Owner Fee       Mineral Owner Federal       API No. 30-005-29095         Unit Letter       Section       Township       Range       Feet from the North/South Line       Feet from the East       County         1       12       15S       31E       2500       South       200       East       County         1       12       15S       31E       2500       Not West       200       East       County         1       12       15S       31E       2500       Longitude - 103.76710       NAD83         NATURE OF RELEASE         Type of Release       Date and Hour of Courrence       Date and Hour of Disevery         Borneo fRelease       Date and Hour of Courrence       Date and Hour       10/11/2016; 10:30 a.m.         Was Immediate Notice Given?       If YES, Volume Impacting the Watercourse.       NA         Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.       NA         Yes @ No       NA       NA       NA         If a Watercourse was Impacted, Desoribe Fully.*       N/A       N/A         Yes @ No       NA       NA       NA         If a Watercourse was Impacted, Desoratowas contracke.*       A coilar failid on t			sia, NM 882	10											
Surface Owner Fee       Mineral Owner Federal       API No. 30-005-29095         LOCATION OF RELEASE         Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 1 158 31E 2500         Location of Release         Latitude _103.76710         NATURE OF RELEASE         Volume Recovered 15 B/O & 10 B/PW         Of Release Crude Oil and Produced Water         Source of Release 15 B/O & 10 B/PW         Volume Recovered 15 B/O & 10 B/PW         Source of Release 10/11/2016; AM         Volume Recovered 10/11/2016; AM         Was Immediate Notice Given?         Was Immediate Notice Given?       Yes No         Was Immediate Notice Given?       Yes No         Was a Watercourse Reached?       Date and Hour 10/12/2016; 9:01 a.m.         No         N/A         Ves No         N/A         N/A         Date and Hour 10/12/2016; 9:01 a.m.         No         No         No         No         No         No <td <="" colspan="2" td=""><td></td><td></td><td>11 7 7</td><td></td><td></td><td></td><td colspan="7"></td></td>	<td></td> <td></td> <td>11 7 7</td> <td></td> <td></td> <td></td> <td colspan="7"></td>				11 7 7										
Federal       30-005-29095         LOCATION OF RELEASE         Unit Letter       Section       Township       Range       Feder from the       North/South Line       Feder from the       East/West Line       County         L       12       158       31E       South       South       Feder from the       North/South Line       Feder from the       County       County         Locatifued_ 33.03027       Longitude103.76710       NAD83         NATURE OF RELEASE         Type of Release       Volume Recovered       To are and Hour of Discovery         Grade Oil and Produced Water       Date and Hour of Occurrence       Date and Hour of Discovery       10/11/2016; AM       10/11/2016; a.m.         Was Immediate Notice Given?       ↓       YEs       Not Required       Kristen Lynch, Rick Flores       20/11/2016; 10:30 a.m.         By Whon?       ↓       Øres Imaching and Hour       10/12/2016; 9:01 a.m.       10/12/2016; 9:01 a.m.       10/12/2016; 9:01 a.m.         Was a Watercourse Reached?       ↓       Yes       NA       NA       NA         If a Watercourse was Impacted, Describe Fully.*       NA       NA       NA       Sauce of Froblem and Remedial Action Taken.*       A colin failed on the horizontal knockout allowing the aite	Vespa BME	Federal #	<i>†</i> 1H				Battery								
LOCATION OF RELEASE         Unit Letter       Section       Township       Range       Feet from the South       North/South Line       Feet from the 200       East       County         1       12       158       31E       2500       South       200       East       Chaves         Latitude_33.03027       Longitude_103.76710       NADR3         NATURE OF RELEASE         Type of Release       Yolume of Release       Yolume of Cocurrence       Date and Hour of Discovery         Date and Hour of Occurrence       Date and Hour of Discovery       Dot and       Dif1/12016 (3.04       10/11/2016 (3.030 a.m.         Was Immediate Notice Given?       If YES, To Whom?       If YES, To Whom?       If YES, To Whom?       If YES, To Whom?         Robert Asher       10/12/2016 (9.01 a.m.       If YES, Volume Impacting the Watercourse.       N/A         Was a Watercourse was Impacted, Describe Fully.*       N/A       N/A       Describe Cause of Problem and Remedial Action Taken.*       Action Taken.*         A colar failed on the horizontal knockout allowing the site glass nipple to be pushed out by ressure causing the release.       Describe Cause of Signatch ot on renove impacted soils.         Executed soils will be hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ara for TPH & BTEX (chorides	Surface Own	ner			Mineral C	Owner				API No	•				
Unit Letter I       Section 12       Township 15S       Range 31E       Feet from the 2500       Feet from the 200       East/West Line East       County East         Latitude _33.03027       Longitude _103.76710	Fee				Federal					30-005-	29095				
Unit Letter I       Section 12       Township 15S       Range 31E       Feet from the 2500       Feet from the 200       East/West Line East       County East         Latitude _33.03027       Longitude _103.76710					LOC	TIO	V OF REI	FASE							
1       12       15S       31E       2500       South       200       East       Chaves         Latitude _31.03027       Longitude103.76710       NAD83         NATURE OF RELEASE         Type of Release       Volume of Release       Volume of Release       7B.0 & 6 B/PW         Crude Oil and Produced Water       15 B/O & 10 B/PW       7 B/O & 6 B/PW       Date and Hour of Discovery         Borizontal Knockout       10/11/2016; AM       10/11/2016; 10:30 a.m.       10/11/2016; 10:30 a.m.         Was Immediate Notice Given?       If YES, To Whom?       Rristen Lynch, Rick Flores       By Whom?         By Whom?       Date and Hour       10/12/016; 9:01 a.m.       10/12/016; 9:01 a.m.         Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.       N/A         If a Watercourse was Impacted, Describe Fully.*       N/A       N/A         A collar failed on the horizontal knockout allowing the site glass nipple to be pushed out by pressure causing the release.       Describe Area Affected and Cleanup Action Taken.*         A collar failed on the horizontal knockout allowing the site glass nipple to hee pushed out by pressure causing the takes and analysis ran for TPH & BTX (Ario Sing Auto Was affected within the lined berm of the battery and 55' X 40' on the adjacent pad to the south of the battery between the battery and the gas meter house. Vacuum truck was contracted to recover standing flu	Unit Letter	Section	Township	Range					East/W	est Line	County				
NATURE OF RELEASE         Type of Release       Volume Recovered         Crude Oil and Produced Water       15 B/O & 10 B/P W       7 B/O & 6 B/P W         Source of Release       Date and Hour of Occurrence       Date and Hour of Discovery         Horizontal Knockout       10/11/2016; AM       10/11/2016; 10:30 a.m.         Was Immediate Notice Given?       If YES, To Whom?       Kristen Lynch, Rick Flores         By Whom?       Date and Hour       10/12/2016; 9:01 a.m.         Robert Asher       10/12/2016; 9:01 a.m.       NA         Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.       N/A         If a Watercourse was Impacted, Describe Fully.*       N/A       N/A         Describe Cause of Problem and Remedial Action Taken.*       A collar failed on the horizontal knockout allowing the site glass nipple to be pushed out by pressure causing the release.         Describe Cause of Problem and Remedial Action Taken.*       A collar failed on the horizontal knockout allowing the site glass nipple to a cover standing fluid and a backhoe was dispatched to remove impacted soils.         Excavated Soils will be hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentatioy 230, Section 12, T15S-R31E, per NMOSE and USCS), Wellhead Protection Are: No, Distance to Surface Water Body: >1000', StrE RANKING 15 0. Based on enclosed analytical results, EOG Y Resources, Inc. requests closure.					1	1					-				
Type of Release       Volume of Release       Volume Recovered         Crude Oil and Produced Water       15 B/O & 10 B/PW       7 B/O & 6 B/PW         Source of Release       Date and Hour of Discovery         Horizontal Knockout       10/11/2016; AM       10/11/2016; 10:30 a.m.         Was Immediate Notice Given?       IF YES, To Whom?       If YES, To Whom?         Robert Asher       10/12/2016; 9:01 a.m.       If YES, Volume Impacting the Watercourse.         Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.       N/A         If a Watercourse was Impacted, Describe Fully.*       N/A       N/A         Model on the horizontal knockout allowing the site glass nipple to be pushed out by pressure causing the release.       Describe Area Affected and Cleanup Action Taken.*         A collar failed on the horizontal knockout allowing the site glass nipple to be pushed out by pressure causing the release.       Describe Area Affected and Cleanup Action Taken.*         A collar failed on the horizontal knockout allowing the site glass nipple to be pushed out by pressure causing the release.       Describe Area Affected and Cleanup Action Taken.*         A collar failed on the horizontal knockout.       If was contracted to recover standing fluid and a backhoe was dispatched to remove impacted soils.         Excavated soils will be hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentations). I				Latit	ude <u>33.03027</u>	I		<u>103.76710</u> N	VAD83						
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Signature: Chau Sottle															
Signature: (/haw Sottle		$ \wedge $	D				OIL CONSERVATION DIVISION								
	Signature: /	have !	Settle												
Approved by Environmental Specialist:				Approved by	Environmental Sr	pecialist:									
Printed Name: Chase Settle	Printed Name:	Chase Se	ttle												
Title: Safety & Environmental Representative II Approval Date: Expiration Date:	Title: Safety a	& Environi	mental Repres	entative II			Approval Date	e:	Ex	piration I	Date:				
E-mail Address: Chase Settle@eogresources.com Conditions of Approval:					<u>.</u>										
Date: November 28, 2017 Phone: 575-748-1471	Date: Novem	her 28 201	7	Ph	one: 575-748-14	71					Anached	LJ			

\* Attach Additional Sheets If Necessary

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS
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Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	54408
	Action Type:
	[C-141] Release Corrective Action (C-141)
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### CONDITIONS

Created By	Condition	Condition Date
bbillings	None	10/6/2021

CONDITIONS

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Action 54408