



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

Released to Imaging: 3/24/2022 4:37:35 PM

January 31, 2022

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

Re:

Merle BOG State #3 30-025-37545 P-14-10S-34E Lea County, NM 1RP-2792

Incident # nGRL1209340191

Mr. Billings,

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site which currently has an open incident on the NMOCD E-Permitting website. The report is being submitted in reference to Incident # nGRL1209340191 which is associated with 1RP-2792.

Previously EOG had submitted a Closure Report request for Incident # nGRL1209339294 which also relates to 1RP-2792. This Closure Report received approved closure by NMOCD (B. Billings) on 09/21/2021. When the closure report was submitted for this incident (nGRL1209339294), it wasn't known that an additional incident existed on NMOCD E-Permitting for the same release/RP. During investigations related to the possible divestiture of the well, it was discovered that a second incident was created for the same release/RP.

Based on the already approved closure for the previously known incident that relates to 1RP-2792, EOG hereby submits an additional Closure Report for the newly discovered open incident, nGRL1209340191, that is associated with the same RP.

ALL DOCUMENTS BEYOND THE REVISED C-141 FORM ARE IDENTICAL TO THOSE PREVIOUSLY SUBMITTED FOR nGRL1209339294.

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

Respectfully,

Chase Settle

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

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	NGRL1209340191
District RP	1RP-2792
Facility ID	
Application ID	

Release Notification

			Resp	onsible Par	ty
Responsible Part	ty EOG F	Resources, Inc		OGRID-	7377
Contact Name Chase Settle		Contact 7	Celephone 575-748-1471		
		Settle@eogres	sources.com	Incident	# (assigned by OCD) NGRL1209340191
		04 S. 4th Stre		IM 88210	
			£.	of Release S	Source
Latitude _33.442!	53				103.42887
			(NAD 83 in dec	imal degrees to 5 dec	×22 - 17
Site Name Merle	e State Ur	nit #3		Site Type	Well
Date Release Dis	scovered	07/18/2011		API# 30-	025-37545
		ml.t.	Danas	Cox	inty
	Section	Township	Range	Le	· ·
P 14	•	10S	34E	Le	
Surface Owner: [2	X State	☐ Federal ☐ Tr	ibal 🗌 Private (/	Vame:)
	Material	(c) Palessed (Select al		d Volume of	Release
X Crude Oil	Material	Volume Release	d (bbls) 45	curvaturions or speci-	Volume Recovered (bbls) 30
			Volume Recovered (bbls) 0		
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		X Yes No			
Condensate Volume Released (bbls) Volume Recovered (bbls)		Volume Recovered (bbls)			
☐ Natural Gas		Volume Release	ed (Mcf)		Volume Recovered (Mcf)
Other (descri			Released (provid		Volume/Weight Recovered (provide units)
Cause of Releas	se Pleas	e refer to the atta	ched original C-14	41 form for 1RP-2	1792 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 correspondence is also attached.

Incident ID	NGRL1209340191
District RP	1RP-2792
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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 respon	sible party consider this a major release?	
Yes No			
If YES, was immediate n	otice given to the OCD? By whom? To who	om? When and by what means (phone, email, etc)?	
,	·		
	Initial Re	sponse	
The responsible	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ease has been stopped.		
☐ The impacted area ha	as been secured to protect human health and	the environment.	
		ikes, absorbent pads, or other containment devices.	
87X	ecoverable materials have been removed and		
If all the actions describe	If all the actions described above have <u>not</u> been undertaken, explain why:		
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
regulations all operators are public health or the environ failed to adequately investig	e required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C gate and remediate contamination that pose a thre	pest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws	
Printed Name: Chase	Settle	Title: Rep Safety & Environmental Sr	
Signature: Than	Settle	Date: 01/31/2022	
email: Chase_Settle	e@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only			
Received by:		Date:	

Incident ID	NGRL1209340191
District RP	1RP-2792
Facility ID	
Application ID	

Site Assessment/Characterization

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

This information must be provided to the appropriate district office he later many easy eager me ease easy.		
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 not 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.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data		

Chai	racterization Report Checklist. Each of the Johnston must be the mean and the second
	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
	Field data
	Data table of soil contaminant concentration data
나님	Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs Photographs including date and GIS information
	Topographic/Aerial maps
$ \Box $	Laboratory data including chain of custody

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



Incident ID	NGRL1209340191
District RP	1RP-2792
Facility ID	
Application ID	

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

Incident ID	NGRL1209340191
District RP	1RP-2792
Facility ID	
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation point □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29. □ Proposed schedule for remediation (note if remediation plan times) 	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
I hereby certify that the information given above is true and comple rules and regulations all operators are required to report and/or file which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local	e and remediate contamination that pose a threat to groundwater, 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	Approval Denied Deferral Approved
Signature:	Date:

Incident ID	NGRL1209340191
District RP	1RP-2792
Facility ID	
Application ID	

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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 i	tems must be included in the closure report.						
☐ A scaled site and sampling diagram as described in 19.15.29.1	I 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 ODG	C District office must be notified 2 days prior to final sampling)						
☑ Description of remediation activities							
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in						
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr						
Signature: Chase Settle	Date: 01/31/2022						
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471						
OCD Only							
OCD Only							
Received by:	Date:						
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.						
Closure Approved by:	Date: 03/24/2022						
Printed Name:Jennifer Nobui	Title:Environmental Specialist A						
<u> </u>							

District IV

District | 1625 N French Dr., Hobbs, NM 88240

HOBBS OCD

State of New Mexico

Energy Minerals and Natural Resources District II 1301 W Grand Avenue, Artesia, NM 88219AUG 0 2 2011

Oil Conservation Division 1220 South St. Francis Dr.

Form C-141 Revised October 10, 2003

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

1220 S St Francis	'Dr., 'Santa	Fe, NM 87505	RECEIL	/ED Sa	ınta F	e, NM 875	05					side of form
Release Notification and Corrective Action												
	:•3			Ol	PERA	TOR			⊠ Initia	l Report		Final Report
Name of Com				OGRID Nun	VALUE OF THE REAL PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE REAL PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY A	Contact						
Yates Petrolet Address	um Corp	oration		25575		Jeremy Haass Telephone No.						
104 S. 4 TH Str	reet					575-748-1471						
Facility Name				API Number		Facility Typ	ne					
Merle State U	nit#3			30-025-3754		Well						
Surface Owne	er			Mineral C)wner				Lease N VA-194	100		
State					mro	N OE DE	CEACE		171-17-	··		
Unit Letter S	Section	Township	Range	Feet from the		N OF RE	Feet from the	East/V	Vest Line	County		
p	14	10S	34E	990		South	990		East	Lea		
				Y - 4/4 - A - 22 -	14252	Y	102 42007	L				
Latitude 33.44253 Longitude 103.42887 NATURE OF RELEASE												
Type of Release				NAT	URE	Volume of			Volume I	Recovered		
Crude Oil & Pro	oduced W	/ater				45 B/O 10	B/PW		30 B/O			
Source of Relea	ase					Date and F	Hour of Occurrence AM	e	Date and 7/18/201	Hour of Di I AM	scovery	y
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required					eguired	If YES, To Whom?						
By Whom?					cquired	Date and Hour						
Robert Asher, Yates Petroleum Corporation						7/19/2011	AM (email) olume Impacting t	ha Wat				
Was a Watercourse Reached? ☐ Yes ☒ No						N/A	nume impacting t	ille wate	ercourse			
If a Watercours	se was Imp	pacted, Descr	ibe Fully.	•								•
Describe Cause					r Tracta							
Hole in the Pire	e Tube in	the North He	ater i reate	er Isolated Heate	Tireate							
Describe Area	Affected a	and Cleanup	Action Tal	ken * nad Vacuum true	ck calle	d to pick up re	emaining oil, impa	acted so	ils to be sci	raped up an	ıd taken	to an
NMOCD appro	ved facili	ity. Vertical a	and horizo	ntal delineation sa	amples	will be taken	and analysis ran fo	or TPH	& BTEX.	If initial an	alytical	l results for
Work plan will	arc under be submit	RRAL's a Fi tted Depth t	nal Repor o Ground	t, C-141 will be si Water: 50-99' (:	ubmitte approx	d to the OCD imately 50', S	requesting closure Section 14-T10S-	e. If the R34E, p	analylical per New M	results are lexico Che	above t vron T	exaco Trend
Map), Wellhea	ad Protec	tion Area: N	o, Distanc	ce to Surface Wa	ter Boo	ly: >1000', S	ITE RANKING	IS 10.	•			
I hereby certify	that the i	nformation g	ven above	e is true and comp	olete to t	the best of my	knowledge and u	ındersta	nd that pur	suant to NA	MOCD	rules and
public health or	r the envii	ronment The	acceptan	ce of a C-141 repo	ort by th	ne NMOCD m	nd perform correct arked as "Final R	cport" d	loes not rel	ieve the op	crator o	of liability
should their ope	crations h	ave failed to	adequately	unvestigate and r	remedia	te contaminat	ion that pose a thr	eat to g	round wate	r, surface w	vater, hu	uman health
federal, state, or				otance of a C-141	report	does not reliev	e the operator of	respons	ibility for c	omphance	with an	ly other
	. \	\	,				OIL CON	SERV	ATION	DIVISI	ON	
Signature:		14:150							4102	2/12		
Printed Name	Jeremy H	nass —				Approved by	District Supervis	or:		ted for F	Recor	rd Only
Title Environn			nt			Approval Da	te:		Expiration			
	7.00	2 0								T		
E-mail Address	s jhaass@	gyatespetrolei	ım.com			Conditions o	t Approvai:			Attache	0.00	n = 4: 0
Date Friday, Ju	uly 29, 20	111		e: 575-748-1471	l	2RP-				IRP-	1-12	0 2 2012
* Attach Addition	onal Shee	ets If Necess	sary							,	APR	0 % 5015

Bob Asher

From:

Bob Asher

Sent:

Monday, October 13, 2014 1:58 PM

To:

(tomas.oberding@state.nm.us)

Subject:

Closure Request (Merle State Unit #3)

Attachments:

Merle State Unit 3 Final.zip

Doc,

Attached, please find the Final C-141, submitted 1/25/2012 with enclosed sample diagram and analytical results. Impacted soils were excavated and delineation samples taken, based on that the Final C-141, and supporting documentation was submitted. Verbal approval to backfill was granted by Geoff Leking on or around 2/17/2012 but only the Initial C-141 was scanned on OCD Online. The RP Number assigned to this release was 1RP-2792.

Thank you for your time reviewing these documents and if there is anyhing further you need, please contact me.

Robert Asher

NM Environmental Regulatory Supervisor

Yates Petroleum Corporation

105 S. 4th Street Artesia, NM 88210 575-748-4217 (Office) 575-365-4021 (Cell)

Jeremy Haass

From:

Jeremy Haass

Sent:

Monday, March 04, 2013 2:24 PM

To:

Geoffery Leking (geoffreyr.leking@state.nm.us)

Cc:

Bob Asher; Katie Parker; Lisa Norton; E. L. Gonzales (elidiol.gonzales@state.nm.us)

Subject:

OCD Online Signed Final C-141s

Mr. Leking this email is in response to the fact that I have just checked OCD online and cannot find signed Final C-141s for the following releases. This could very well be my own fault. If they are already online could you tell me how to find and retrieve the PDFs, it would be greatly appreciated.

Lotus 'ALT' State #3

API#30-025-36005

Closure report hand delivered on 169/12/11

Merle State Unit #3

API # 30-025-37545

Closure report emailed on 10/21/13

Messina 'BHM' Com #1

API # 30-025-37468

Closure report emailed on 12/21/11



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I realize that you are a very busy man, but I am in urgent need to close the above releases. Thank you for your time and looking forward to your response.

Jeremy Haass

New Mexico Air Permit Specialist Yates Petroleum Corporation

Office: (575) 748-4311 Fax: (575) 748-4131 Cell: (575 513-9235

Jeremy Haass

From:

Jeremy Haass

Sent:

Monday, April 22, 2013 10:29 AM

To:

Geoffery Leking (geoffreyr.leking@state.nm.us)

Cc:

Bob Asher; Katie Parker

Subject:

Hobbs Spill Status

Geoffery this is just an email confirming that we just spoke over the phone concerning the status of the following spills.

Sombrero 'MS' State #1 Lotus 'ALT' Unit #3 Merle State Unit #3 Messina 'BHM' Com #1

Thanks for your time I know you are swamped.

Jeremy Haass

New Mexico Air Permit Specialist Yates Petroleum Corporation

Office: (575) 748-4311 Fax: (575) 748-4131 Cell: (575 513-9235

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Jeremy Haass

From:

Leking, Geoffrey R, EMNRD < GeoffreyR.Leking@state.nm.us>

Sent:

Friday, February 17, 2012 9:32 AM

To:

Jeremy Haass

Subject:

RE: Lea County Spills

Jeremy

1) Messina - Go ahead and back fill

2) Lotus State #3 - Define vertical extent of chlorides. Remove or clay line. This is what we are doing at other projects even when ground water is over 300 feet deep.

3) Red Hat - Define vertical extent of chlorides. Remove or clay line. This is what we are doing at other projects even when ground water is over 300 feet deep.

4) Merle State #3 - It was already agreed that this site could be backfilled.

Let me know if you have any further questions. Thank you.

Geoffrey Leking Environmental Specialist NMOCD-Hobbs 1625 N. French Drive Hobbs, NM 88240

Office: (575) 393-6161 Ext. 113

Cell: (575) 399-2990

email: geoffreyr.leking@state.nm.us

From: Jeremy Haass [mailto:Jhaass@yatespetroleum.com]

Sent: Tuesday, February 14, 2012 3:05 PM

To: Leking, Geoffrey R, EMNRD Subject: RE: Lea County Spills

I'm checking back in on the approvals I'm waiting for. Thanks for your time.

From: Leking, Geoffrey R, EMNRD [mailto:GeoffreyR.Leking@state.nm.us]

Sent: Monday, February 06, 2012 8:56 AM

To: Jeremy Haass

Subject: RE: Lea County Spills

Jeremy

I'll have something for you on Wednesday. Sorry for the wait. Thank you.

Geoffrey Leking Environmental Specialist NMOCD-Hobbs 1625 N. French Drive Hobbs, NM 88240

Office: (575) 393-6161 Ext. 113

Cell: (575) 399-2990

email: geoffreyr.leking@state.nm.us

From: Jeremy Haass [mailto:Jhaass@yatespetroleum.com]

Sent: Monday, February 06, 2012 8:45 AM

To: Leking, Geoffrey R, EMNRD Subject: Lea County Spills

Hey Geoffery just checking in on the spills that we met over. I have Production all over me to get the excavations closed on these because of the hazard to the pumpers. Looking forward to hearing from you as soon as possible so I can take care of these locations. The following list is all the locations we discussed during our meeting at your office.

Merle State Unit #3 Messina 'BHM' Com #1 Lotus 'ALT' State #3 Red Hat State SWD #1

Thank you!!!

Jeremy Haass Environmental Regulatory Agent Yates Petroleum Corp. 105 South 4th St. Artesia New Mexico 575-748-4311 (Office) 575-513-9235 (Cell) 575-748-4131 (Fax)

Jeremy Haass

From:

Leking, Geoffrey R, EMNRD < GeoffreyR.Leking@state.nm.us>

Sent:

Friday, December 09, 2011 11:35 AM

To:

Jeremy Haass

Subject:

RE: Lea County Spills

Jeremy

Comparison of the Lotus 'ALT" State #3 site to other sites of a similar nature indicate that:

Delineation of chlorides should be performed until the 250 ppm threshold is reached. Remediate chloride contamination to between 1000 and 2000 ppm .

Comparison of the Merle State Unit #3 to other sites of a similar nature indicate that:

Due to the shallow depth of ground water, contamination should be delineated and remediated to 100 ppm of Total GRO and DRO TPH.

I am still working on the Red Hat.

Please contact me if you have any questions.

Thank you.

Geoffrey Leking Environmental Specialist NMOCD-Hobbs 1625 N. French Drive Hobbs, NM 88240

Office: (575) 393-6161 Ext. 113

Cell: (575) 399-2990

email: geoffreyr.leking@state.nm.us

From: Jeremy Haass [mailto:Jhaass@yatespetroleum.com]

Sent: Monday, October 31, 2011 9:39 AM

To: Leking, Geoffrey R, EMNRD Cc: Bob Asher; Jerry Fanning Subject: Lea County Spills

Geoffrey,

I'm checking in on the status of the following wells.

Red Hat State SWD #1 - Mailed Initial C-141 to Maxey Brown on 7/11/11

API # 30-025-31110 Emailed Maxey Brown a request for closure on 9/1/11

Lotus 'ALT' State #3 API # 30-025-36005 - Mailed Initial C-141 to Maxey Brown on 8/18/11 Hand delivered a request for closure on 10/12/11

Merle State Unit #3 API # 30-025-37545 - Mailed Initial C-141 to Maxey Brown on 8/1/11 Emailed you a request for closure on 10/24/11

I know that the Hobbs OCD is extremely over loaded with work and I understand it takes awhile for this process to unfold. The reason I'm checking in on these releases is because all three releases happened on location and the excavation sites affect the work area and impose a safety risk for Yates employees.

Thanks for your time I look forward to hearing from you.

Jeremy Haass **Environmental Regulatory Agent** Yates Petroleum Corp. 105 South 4th St. Artesia New Mexico 575-748-4311 (Office) 575-513-9235 (Cell) 575-748-4131 (Fax)

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Received by OCD: 1/31/2022 4:07:05 PM

Jeremy Haass

From:

Jeremy Haass

Sent:

Friday, October 21, 2011 11:53 AM

To:

'Leking, Geoffrey R, EMNRD'

Cc:

Bob Asher; Jerry Fanning

Subject: Requesting Closure for Merle State Unit #3

Geoffrey,

Attached are all analytical reports, a diagram of the spill with a break down of the results, and the C-141 Final requesting closure for the Merle State Unit #3. Based on the amount of oil recovered and all impacted soils having been dug up and hauled to an NMOCD approved facility, and the attached analytical results Yates Petroleum is requesting closure. With the spill encompassing the wellhead and the dig area being 3' deep for safety reasons I would appreciate it if I could get a quick response on this email so I can close the excavation site.

Thank you

Jeremy Haass **Environmental Regulatory Agent** Yates Petroleum Corp. 105 South 4th St. Artesia New Mexico 575-748-4311 (Office) 575-513-9235 (Cell) 575-748-4131 (Fax)

E-mail Address: jhaass@yatespetroleum.com

Date: Friday, October 21, 2011 * Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

Released to Imaging: 3/24/2022 4:37:35 PM

Attached

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

			Rele	ase Notific	ation	and Co	rrective A	ction				
					PERA			I		Report	\boxtimes	Final Report
Name of Co	mpany			OGRID Num	ber	Contact				•		
Yates Petro		oration		25575		Jeremy Haass						
Address						Telephone No.						
104 S. 4 TH S				API Number		575-748-1471 Facility Type						
Facility Nat Merle State				30-025-3754:	200	Well						
Mene State	OIII #3					11 022			Tr s	Υ.		
Surface Ow	ner			Mineral C)wner				Lease N VA-194			
State				State					VA-15			
•						OF RE						
Unit Letter	Section	Township	Range	Feet from the	111111111111111111111111111111111111111	South Line	Feet from the	200 200 40 500 50	West Line East	County Lea		
p	14	10S	34E	990		South	990		East	LCa		
				Latitude 33.4		_Longitude		-				
Type of Rele	ase			IIAI	UKE	Volume of	Release			Recovered		
Crude Oil &	Produced V	Vater				45 B/O 10			30 B/O	Hour of Di	cover	
Source of Release Heater Treater						7/18/2011	Hour of Occurren AM	ce	7/18/201		SCOVEL	,
Was Immediate Notice Given?					If YES, To	Whom?						
☐ Yes ☐ No ☐ Not Required												
By Whom?					Date and Hour 7/19/2011 AM (email)							
Robert Asher, Yates Petroleum Corporation Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.						
			Yes 🗵			N/A						
N/A		pacted, Descr										
Describe Car Hole in the I	use of Prob Fire Tube in	lem and Reme the North He	dial Actio ater Treate	n Taken.* er. Isolated Heate	r Treate	r.						
An approxin NMOCD ap in soils are e OCD reques Map), Welli impacted so I hereby cert regulations a public health should their or the enviro	nate area of proved facinclosed for ting closure head Prote dis excavatify that the nill operators or the envoperations on ment. In e, or local la	lity. Vertical a documentation of Depth to G ction Area: Need/hauled and information g are required ironment. The have failed to addition, NMG aws and/or reg	Il on well and horize n. If initia round Wa to, Distand enclosed iven abov to report a e acceptan adequatel OCD acce	ken.* pad. Vacuum tru patal delineation s al analytical resul ater: 50-99' (app ce to Surface Wa l analytical resul e is true and comp nd/or file certain ce of a C-141 rep y investigate and ptance of a C-141	amples of the formal ter Book	will be taken PH & BTEX at tely 50°, Sect ly: >1000°, Ses Petroleum the best of my notifications are NMOCD note contaminate of the second of t	and analysis ran are under RRAL' iion 14-T10S-R3 ITE RANKING Corporation re y knowledge and and perform corre narked as "Final iion that pose a th	for TPH s a Final 4E, per IS 10. quests c underste cetive ac Report" ireat to g f responsi	Report, C. New Mexi Based on r losure. and that put tions for re does not re ground wate sibility for	also Chloric-141 will be co Chevro ecovered a suant to NI leases which lieve the oper, surface we compliance	MOCD h may berator, le with a	rules and endanger of liability numan health
						Approval Da	ate:		Expiration	Date:		
Title: Enviro	onmental R	egulatory Age	nt			Approvat Di	ato.		Pylianol	- Duito.		

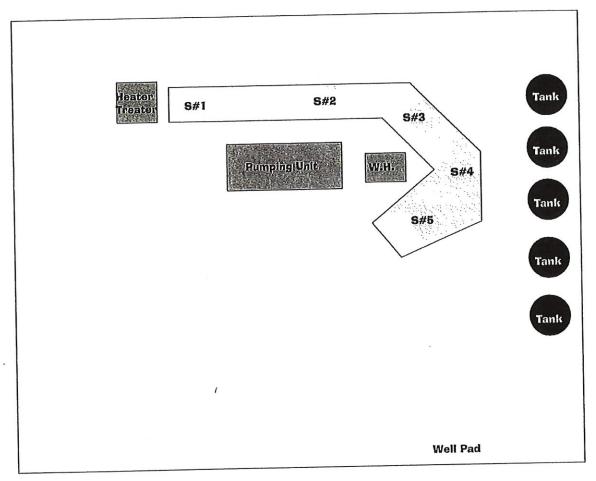
Conditions of Approval:

2RP-

Phone: 575-748-1471









Merle State Unit #3

30-025-37545

Section 14, T10S-R34E

Lea County, NM

SAMPLE DIAGRAM(Not to Scale)

Xenco Laboratories# 426801 & 426802 Report Date: 9/08/2011

Prepared by Jeremy Haass **Environmental Regulatory Agent**

Released to Imaging: 3/24/2022 4:37:35 PM

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Analytical Report-	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
429365 & 429366	10/6/2011	3'	.00236	ND	147	147	ND
Sample #2	10/6/2011	3'	ND	ND	60.9	60.9	ND
Sample #3	# 1 com an	3'	ND	ND	ND	ND	20.2
Sample #4	10/6/2011	3'	ND	ND	301	301	44.9
Sample #5	10/6/2011	0		_	-	1111	

Site Ranking is Zero (10). Depth to Ground Water <100' (approx. 50', per Trend Map).

All results are ppm.Chlorides for documentation. S - Sample Points

Released: 10 B/PW & 45 B/O; Recovered: 0 B/PW & 30 B/O. Release Date: 7/18/2011

mple Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
	1'	.0131	ND	407	407	46.3
	1'	.0587	103	2040	2140	ND
	1'	.117	150	4140	4290	41.8
	1'	.00608	20.9	1280	1300	427
	4'		17.9	1090	1110	3590
	3/23/2011 3/23/2011 3/23/2011 B/23/2011 B/23/2011	3/23/2011 1' 3/23/2011 1' 3/23/2011 1'	3/23/2011 1' .0587 3/23/2011 1' .117 3/23/2011 1' .00608 8/23/2011 1' .00671	3/23/2011 1' .0587 103 3/23/2011 1' .117 150 3/23/2011 1' .00608 20.9 8/23/2011 1' .00671 17.9	3/23/2011 1' .0587 103 2040 3/23/2011 1' .117 150 4140 3/23/2011 1' .00608 20.9 1280 8/23/2011 1' .00671 17.9 1090	3/23/2011 1' .0587 103 2040 2140 3/23/2011 1' .117 150 4140 4290 3/23/2011 1' .00608 20.9 1280 1300

Site Ranking is Zero (10). Depth to Ground Water <100' (approx. 50', per Trend Map).

All results are ppm.Chlorides for documentation. S - Sample Points

Released: 10 B/PW & 45 B/O; Recovered: 0 B/PW & 30 B/O. Release Date: 7/18/2011

Analytical Report 429366

for **Yates Petroleum Corporation**

Project Manager: Jeremy Haass Merle State Unit #3 30-025-37545 19-OCT-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (BPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALII), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (BPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



Project Manager: Jeremy Haass Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 429366

Merle State Unit #3

Project Address: Lea County

Jeremy Haass:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 429366. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 429366 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Received by OCD: 1/31/2022 4:07:05 PM

Brent Barron II

Odessa Laboratory Manager

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Yates Petroleum Corporation, Artesia, NM

Merle State Unit #3

	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample Id Sample # 2 Sample # 3 Sample # 4 Sample # 5	Matrix S S S S	10-06-11 09:45 10-06-11 10:00 10-06-11 10:15 10-06-11 10:30	3 - 3 ft 3 - 3 ft 3 - 3 ft 3 - 3 ft	429366-001 429366-002 429366-003 429366-004
Sample # 5				



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Merle State Unit # 3



Project ID:

30-025-37545

Work Order Number: 429366

Report Date: 19-OCT-11

Date Received: 10/12/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Project Id: 30-025-37545 Contact: Jeremy Haass

Project Location: Lea County

Certificate of Analysis Summary 429366

Yates Petroleum Corporation, Artesia, NM

Project Name: Merle State Unit #3

Date Received in Lab: Wed Oct-12-11 12:00 pm

Project Manager: Brent Barron II

Report Date: 19-0CT-11

	Lab Id:	429366-001	429366-002	429366-003	429366-004	
	Field Id:	Sample #2	Sample #3	Sample # 4	Sample # 5	
Analysis Requested	Deptli:	3-3 ft	3-3 ft	3-3 ft	3-3 ft	
	Matrix	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Oct-06-11 09:45	Oct-06-11 10:00	Oct-06-11 10:15	Oct-06-11 10:30	
Anions by E300	Extracted:					
	Analyzed:	Oct-13-11 18:03	Oct-13-11 18:03	Oct-13-11 18:03	Oct-13-11 18:03	
	TT D.T.	ma/kg RT.	mg/kg RL	mg/kg RL	mg/kg RL	
	Omen	Man 420	1_	1	44.9 4.34	
Chloride		UN 4:30	- 1			
Percent Moisture	Extracted:				07:21	
	Analyzed:	Oct-12-11 13:40	Oct-12-11 13:40	Oct-12-11 13:40	Oct-12-11 13:40	
	Tlante/DI.	% RL	% RL	% RL	% RL	
	Orthon Acco.	1	100	232 1.00	3.19 1.00	
Percent Moisture		2.29	4.1.4	- 1		

Odessa Laboratory Manager Brent Barron II

Final 1.000

Page 5 of 11

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

This analytical report, and the entite data package it represents, has been made for your exclusive and confidential use.

The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laborationies.

XENCO Laboratonies assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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Fax (281) 240-4280 (214) 351-9139 (281) 240-4200 (214) 902 0300 (210) 509-3334 (813) 620-2000 (210) 509-3335 (813) 620-2033 (305) 823-8500 (432) 563-1800 (305) 823-8555 (432) 563-1713 (770) 449-8800 (602) 437-0330 (770) 449-5477



Work Order #: 429366

Analyst: BRB

BS / BSD Recoveries

Project ID: 30-025-37545

Project Name: Merle State Unit #3

Date Prepared: 10/13/2011 Batch#: 1

Solid
Matrix: Solid

		Flag
×		Control Limits %RPD
RY STUD		Control Limits %R
RECOVERY		RPD %
CATE		Bik. Spk Dup. %R [G]
K SPIKE DUPL		Blank Spike Duplicate Result [F]
LANK S		Spike Added [E]
PTKE/B		Blank Spike %R [D]
a#: 1 K/RIANKS		Blank Spike Result [C]
Batch #:	Turand	Spike Added
KS		Blank Sample Result [A]
Sample: 872301-1-BK		
Lab Batch ID: 872301	Units: mg/kg	Anions by E300

20

75-125

111

22.1

20.0

111

22.1

20.0

<0.840

Analytes Chloride

Final 1.000

Page 7 of 11

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Merle State Unit # 3

Chloride

Project ID: 30-025-37545 Analyst: BRB

raggia.		Allarjo	-
	10/13/2011	Matrix: Soil	1
429366	Date Prepared: 10/13/2011	Matrix: Soil ONE OF THE PROPERTY STUDY ONE OF	1
Work Order 4, 872301	Batch #: MATE	Control Flag	1
Lab Batch " 10/13/2011	MATRIX	Spiked Sample %R Limits %R	1
Lab Batch #: 0/13/2011 Date Analyzed: 10/13/2011 QC-Sample ID: 429429-005 S QC-Sample ID: Hartis: mg/kg	Parent Snike	Result [D]	\dashv
		75-125	
Reporting Units: mg/kg Inorganic Anions by EPA 300	Result [B]	98	
Inorganic Ame	100	107	
1	8.66	Analyst: BRB	
Analytes		Analyst. Zoil	

Airca		Direct	
	Date Prepared: 10/13/2011	Matrix: Soil	JDY
. 4. 972301	Ratch #:	Matrix: Soil RIX SPIKE RECOVERY STU Spiked Sample %R Control Limits %R	Flag
Lab Batch #: 6/2011 Date Analyzed: 10/13/2011 Date Analyzed: 429439-001 S	Parent calke	Result [D]	
	gemnle Spire	[C] 102 75-12:	5
Reporting Units: mg/kg Inorganic Anions by EPA 300	[A] [F)	149 102	
Analytes	36.7		

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 2 - Surrogate Recoveries

Project Name: Merle State Unit #3

Work Orders: 429365,

Lab Batch #: 872640

Sample: 612867-1-BKS/BKS

Batch:

Project ID: 30-025-37545 Matrix: Solid

Lab Batch #: 872640	Sample: 612607-1-BK37 B Date Analyzed: 10/12/11 16:12	SU	RROGATE R	ECOVERY S	STUDY	
Units: mg/kg	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes	80.8	100	81	70-135	
1-Chlorooctane		41.3	50.0	83	70-135	

Lab Batch #: 872281

Sample: 612661-1-BKS / BKS

Batch:

Matrix: Solid

Lab Batch #: 872281	Date Analyzed: 10/13/11 11:09	SU	RROGATE R	ECOVERY S	STUDY	
Units: mg/kg BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes	0.0290	0.0300	97	80-120	
1,4-Difluorobenzene		0.0278	0.0300	93	80-120	
4-Bromofluorobenzene		0.0276	1 0.0500			

Lab Batch #: 872640

Sample: 612867-1-BSD / BSD

Batch:

Matrix: Solid

Lab Batch #: 872640	Sample: 012007-1-83D7 B Date Analyzed: 10/12/11 16:37	SU	RROGATE R	ECOVERY S	STUDY	
Units: mg/kg	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes		100	76	70-135	
1-Chlorooctane		76.3	100			
o-Terphenyl		38.0	50.0	76	70-135	

Lab Batch #: 872281

Sample: 612661-1-BSD/BSD

Batch: 1

Matrix: Solid

Lab Batch #: 872281	Date Analyzed: 10/13/11 11:33	SU	RROGATE R	ECOVERY S	STUDY	
Units: mg/kg BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes	0.0285	0.0300	95	80-120	
1,4-Difluorobenzene		0,0283			80-120	
4-Bromofluorobenzene		0.0281	0.0300	94	80-120	

Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution





BS / BSD Recoveries



Project Name: Merle State Unit #3

Work Order #: 429365

Project ID: 30-025-37545 Date Analyzed: 10/13/2011

Flag Control Limits %RPD 35 35 35 35 BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Control Limits 70-130 70-130 71-129 70-135 Matrix: Solid RPD 3 S S Blk. Spk 105 111 0 % P. 107 Blank Spike Duplicate Result [F] 0.105 0.107 0.111 0.224 Spike Added 0.100 0.200 0.100 0.100 包 Blank Spilke %R [D] 110 112 117 Date Prepared: 10/13/2011 Blank Spike Result [C] 0.110 0.112 0.117 Batch #: 1 0.100 0.100 Spike Added 0.100 <u>8</u> Sample Result [A] <0.00100 <0.00200 <0.00100 Blank Sample: 612661-1-BKS BTEX by EPA 8021B Lab Batch ID: 872281 Units: mg/kg Analyst: ASA Analytes Ethylbenzene

Date Prepared: 10/12/2011

Analyst: BBH

m_p-Xylenes o-Xylene

Toluene Benzene

Batch #: 1

Date Analyzed: 10/12/2011 Matrix: Solid

35

71-133

S

112

112

0.112

0.100

118 117

0.236 0.117

0.200

0.100

<0.00100 <0.00200

Batch #: 1	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	nk Spike Blank Blank Spike Spike Added Spike Spike Added Spike Spike Added Spike Spike Spike Spike Dup. RPD Limits Limits Flag	[B] [C] [D] [E] Result [F] [G]	1000 730 73 1000 707 71 3	5.0 1000 873 87 1000 791 79 10 70-135 35
	BLA	Blank Spike imple Result Added		<15.0 1000	<15.0 1000
Lab Batch ID: 872640 Sample: 612867-1-BKS	Units: mg/kg	TPH By SW8015B Mod	Analytes	C6-C10 Gasoline Range Hydrocarbons	C10-C28 Diesel Range Hydrocarbons

Relative Percent Difference RPD = 200*(C-F)/(C+F)Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes

Page 10 of 13

Final 1,000



Sample Duplicate Recovery



Project Name: Merle State Unit #3

Work Order #: 429365

Lab Batch #: 872210

Lab Batch #: 672210

Date Analyzed: 10/12/2011 13:40

Date Prepared: 10/12/2011

Project ID: 30-025-37545

Analyst:BRB

QC- Sample ID: 429365-001 D Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	2.29	2.25	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

STATES ... STATESTER STATE

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Phone: 432-563-1800 Fax: 432-563-1713 12600 West I-20 East Odessa, Texas 79765

	Lower Hones	Project Name: Merle State Unit #3
Project Manager.	Jeremy mass	B1
Company Name	Yates Petroleum Corporation	
Company Address:	Company Address: 105 South 4th Street	Project Loc: Lea County
	OF COLUMN CONTRACTOR OF COLUMN COLUMN CONTRACTOR OF COLUMN	PO #: 103-2636
City/state/zip:		Pannat Format: X Standard TRRP NPDES
Telephone No:	575-748-4311 Fax No:	

jhaass@yatespetroleum.com

e-mail:

					-Holl-		200	haass@yatespetroleum.com	8	atesi	petr	olet	Ē	Ē		-			١		1	1	١	١	ŀ	_
Sampler Signature:														1	L				Analy	Analyze For:	ä			١	7	
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ORDER # 1 4 1 30 3/ 1	7	,				H	T	-	L		H	F	L		108	90			вы		29)	_		_	'rz (
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		ginning Dep	ding Depth	bəlqms2 ətsi	bəlqms2 emi	eld Fikered	ofal #, of Contain	ONI	H\$201	HOBN	¿OsStaN	None Other (Specify)	We Drividing Water	W= Non-Polable	1.814 :H91	TPH: TX 1005 Callons (Ca, Mg	Anions (CI, SO4	SARIESPICE	Metals: As Ag B Volalites	Semholatikes	B1EX 8021B/60	RCI	N.O.R.M.) TAT H8UA	AT brabnat2
FIELD CODE		98	uз		L	-	-	-	-	-	+	┰	+	1	+	+-	-		\vdash	L	×	┢	×			$\stackrel{\times}{\dashv}$
Sample #2		m	60	10/6/2011	9:45am	+	<u> </u>	\dagger	+	-	\dagger	╀	╀		>	\vdash	_	L	\vdash	-	×	\vdash	×			×
Sample #3		ñ	'n	10/6/2011	10:00am	+	×		+	7	1	+	+	مار	4	+	+	士	╁	+	>	T	×		\vdash	×
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Special Instructions: TPH:	8015B, BT	EX:	021B 8	TPH: 8015B, BTEX: 8021B & Chlorides.	Please show BTEX results as mg/kg.	√BT	Ä	saults	as	ng/kg		Thank you.	you.			1.0/- /	Sample Containers Intact?	Free	E E	ars in	fact		張	KK	ZZ	× 7
	3		ime.	Deceived by		1		١	1		Γ		Date	Γ	Time		labels on container(s)	Б	Contai	perts	1	3,0	A.	X		7
Relinquished by:	10/11/11	5 43	10:52 AM	6 00000											ŀ	T	Custody seals on contained (s)	S S S	aison	38.		200		\ ` ''×'	Øz	100
Reinquished by:	Date		Time	Received by:									Date		E		by Sampler/Client Re by Counier? UPS	Sam	plent pento	by Sampler/Client Rep. ' by Courier? UPS	Rep.	걸			Lone	N Lone Star
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12.00 Temperature Upon Receipt:



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client:	ates	Petr	oleum		
Date/Time:	10.10	11.6	12:00		
Lab ID#:	429	565	/429.	366	
Initials:	1	WR/	AE		

Sample Receipt Checklist

1 Occupies on Iso2	T	Blue	Water	No	
1. Samples on ice?		Yes	No	None	
2. Shipping container in good condition?	_	(Yes)	No	NA	
3. Custody seals intact on shipping container (cooler) and bottles?	-	Yee	No		
4. Chain of Custody present?	-	15-5			
5. Sample instructions complete on chain of custody?		Yes	No		
6. Any missing / extra samples?	_	Yes	(No.)		
7. Chain of custody signed when relinquished / received?		Yes	No	PA .	
8. Chain of custody agrees with sample label(s)?	k	Yes	No		
9. Container labels legible and intact?		Yes	No		
10. Sample matrix / properties agree with chain of custody?		Yes	No -		
11. Samples in proper container / bottle?		(Yes	No		
12. Samples properly preserved?	- !	Yes	No	N/A	
13. Sample container intact?		(Yes)	No		
14. Sufficient sample amount for indicated test(s)?		Yes	No		
15. All samples received within sufficient hold time?		(Yes)	No		
16. Subcontract of sample(s)?		Yes	No	(NA)	
17. VOC sample have zero head space?		(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.		Cooler 4 No).	Cooler 5 No.	
ibs 5 \ °C Ibs °C Ibs	°C	lbs	°(lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Dia .	ne/ime:	
Regarding:	Client did not Sign	relinguishing	Samples.	
Corrective	Action Taken:			
				1,4
				

Check all that apply: ☐Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

□ Initial and Backup Temperature confirm out of temperature conditions

□ Client understands and would like to proceed with analysis

Final 1.000

Analytical Report 429365

for **Yates Petroleum Corporation**

Project Manager: Jeremy Haass Merle State Unit #3 30-025-37545

Collected By: Client

19-OCT-11



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALII), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)







19-OCT-11

Project Manager: Jeremy Haass Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 429365

Merle State Unit #3

Project Address: Lea County

Jeremy Haass:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 429365. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 429365 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Received by OCD: 1/31/2022 4:07:05 PM

Brent Barron II

Odessa Laboratory Manager

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Yates Petroleum Corporation, Artesia, NM

Merle State Unit # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample # 2	S	10-06-11 09:45	3 - 3 ft	429365-001
Sample # 2	S	10-06-11 10:00	3 - 3 ft	429365-002
Sample # 4	S	10-06-11 10:15	3 - 3 ft	429365-003
Sample # 5	S	10-06-11 10:30	3 - 3 ft	429365-004

Received by OCD: 1/31/2022 4:07:05 PM

CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: Merle State Unit # 3



Project ID:

30-025-37545

Work Order Number: 429365

Report Date: 19-OCT-11 Date Received: 10/12/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-872640 TPH By SW8015B Mod

SW8015MOD_NM

Batch 872640, 1-Chlorooctane recovered below QC limits . Matrix interferences is suspected;

data not confirmed by re-analysis

Samples affected are: 429365-004,429365-003.



Project Id: 30-025-37545 Contact: Jeremy Haass

Project Location: Lea County

Certificate of Analysis Summary 429365

Yates Petroleum Corporation, Artesia, NM

Project Name: Merle State Unit #3

Date Received in Lab: Wed Oct-12-11 12:00 pm

Project Manager: Brent Barron II Report Date: 19-OCT-11

					The state of the s	
	Lab Id:	429365-001	429365-002	429365-003	429365-004	
F.	Field Id:	Sample # 2	Sample # 3	Sample # 4	Sample # 5	
Analysis Kequesiea	Deptle:	3-3 ft	3-3 ₽	3-3 ft	3-3 ft	
	Matrix	SOIL	SOIL	SOIL	SOLL	
	Sampled:	Oct-06-11 09:45	Oct-06-11 10:00	Oct-06-11 10:15	Oct-06-11 10:30	
BTEX by EPA 8021B	Extracted:	Oct-13-11 10:33	Oct-13-11 10:33	Oct-13-11 10:33	Oct-13-11 10:33	
	Analyzed:	Oct-13-11 14:59	Oct-13-11 15:22	Oct-13-11 14:12	Oct-13-11 14:35	
	Units/RL:	mg/kg RL	mg/kg RL	- 1	- 1	
Benzene		0.00236 0.00102	ND 0.00102	ND 0.00102	ND 0.00104	
Toluene		ND 0.00204	ND 0.00203	ND 0.00204	ND 0.00208	
Ethylbenzene		ND 0.00102	ND 0.00102	ND 0.00102	- 1	
m p-Xylenes		ND 0.00204	ND 0.00203		- 1	
o-Xylene		ND 0.00102	ND 0.00102	ND 0.00102	- 1	
Total Xylenes		ND 0.00102	ND 0.00102	ND 0.00102	ND 0.00104	
Total BTEX		0.00236 0.00102	ND 0.00102	ND 0.00102	ND 0.00104	
Percent Moisture	Extracted:		٠			
	Analyzed:	Oct-12-11 13:40	Oct-12-11 13:40	Oct-12-11 13:40	Oct-12-11 13:40	
	Units/RL:	% RL	% RL	% RL	-	
Percent Moisture		2.29 1.00	2.14 1.00	2.32 1.00	3.19 1.00	
TPH By SW8015B Mod	Extracted:	Oct-12-11 13:00	Oct-12-11 13:00	Oct-12-11 13:00	Oct-12-11 13:00	
	Analyzed:	Oct-12-11 21:08	Oct-12-11 22:20	Oct-12-11 22:44	Oct-12-11 23:08	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	1	
C6-C10 Gasoline Range Hydrocarbons		ND 15.4	ND 15.3			
C10-C28 Diesel Range Hydrocarbons	-					
Total TPH		147 15.4	60.9 15.3	ND 15.4	301 15.5	

- worder

Odessa Laboratory Manager Brent Barron II

Final 1.000

Page 5 of 13

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This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratorics. XENCO Laboratorics assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.





Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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o-Terphenyl

Form 2 - Surrogate Recoveries

Project Name: Merle State Unit #3

Work Orders: 429365,

Project ID: 30-025-37545

70-135

70-135

80-120

80-120

Released to Imaging: 3/24/2022 4:37:35-PM

108

Lab Batch #: 872640

Sample: 429365-001 / SMP

Matrix: Soil Batch:

50.0

Units: mg/kg Date Analyzed: 10/12/11 21:08	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.2	100	82	70-135	
o-Terphenyl	51.2	50.0	102	70-135	

Lab Batch #: 872640	Sample: 429365-0027 SMP	Bato	ch: I Matri	X; 2011		
Units: mg/kg	Date Analyzed: 10/12/11 22:20	SU	RROGATE R	ECOVERY	STUDY	*
TPH I	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		86.9	100	87	70-135	

Lab Batch #: 872640	Sample: 429365-003 / SMP	Batc	h: 1 Matri	k: Soil		
Units: mg/kg	Date Analyzed: 10/12/11 22:44	SU	RROGATE R	ECOVERY	STUDY	
трн в	sy SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		63,4	100	63	70-135	*

53.8

o-Terphenyl		41.1		50.0	82
Lab Batch #: 872640	Sample: 429365-004 / SMP	Batc	h: 1	Matrix	Soil

Units: mg/kg Date Analyzed: 10/12/11 23:08	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015B Mod	Amount Found [A]	True ·Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	64.9	100	65	70-135	*
o-Terphenyl	42.7	50.0	85	70-135	

0.0300

0.0300

Lab Batch #: 872281	Sample: 429365-003 / SMP	Batc	h: 1	Matrix	Soil		
Units: mg/kg	Date Analyzed: 10/13/11 14:12	SU	RROG	ATE RI	ECOVERY S	STUDY	
BTEX	X by EPA 8021B	Amount Found [A]	An	'rue nount [B]	Recovery %R	Control Limits %R	Flags
	Analytes				[D]		

0.0272

0.0290

* Surrogate outside of Laboratory QC limits

1,4-Difluorobenzene

4-Bromofluorobenzene

Surrogate Recovery [D] = 100 * A/B
All results are based on MDL and validated for QC purposes.

97

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Merle State Unit #3

Work Orders: 429365, Lab Batch #: 872281

Project ID: 30-025-37545

Matrix: Soil Sample: 429365-004 / SMP Batch:

Units: mg/kg Date Analyzed: 10/13/11 14:35	SU	RROGATE R	ECOVERY	STUDX	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Sample: 429365-001 / SMP Batch: 1 Matrix: Soil Lab Batch #: 872281 SURROGATE RECOVERY STUDY Date Analyzed: 10/13/11 14:59 Units: mg/kg Control Amount True BTEX by EPA 8021B Limits Flags Recovery Amount Found %R %R [B] [A] [D] Analytes 92 80-120 0.0300 0.0277 1,4-Difluorobenzene 0.0300 95 80-120 0.0285 4-Bromofluorobenzene

Matrix: Soil Sample: 429365-002 / SMP Batch: Lab Batch #: 872281 SURROGATE RECOVERY STUDY

Units: mg/kg Date Analyzed: 10/13/11 15:22	50	MICOGIAL IC	BOO I BACK I		
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

Lab Batch #: 872640	Sample: 612867-1-BLK / BLK	Batch: 1 Matrix: Solid	
Eur Buton III		SUPPOCATE RECOVERY STUDY	

Units: mg/kg Date Analyzed: 10/12/11 17:02	80	RROGATE RI					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes .	73.8	100	74	70-135			
o-Terphenyl	42.7	50.0	85	70-135			

The second secon				
Lab Batch #: 872281	Sample: 612661-1-BLK / BLK	Batch:	1	Matrix: Solid

Units: mg/kg Date Analyzed: 10/13/11 12:41	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A/B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Sample Duplicate Recovery



Project Name: Merle State Unit #3

Work Order #: 429366

Lab Batch #: 872301

Project ID: 30-025-37545

Date Analyzed: 10/13/2011 18:03

Date Prepared: 10/13/2011

Analyst: BRB

QC-Sample ID: 429439-001 D

Batch #: 1

Matrix: Soil

SAMPLE /	SAMPLE	DOLLIC	ATE REC	OVERY
Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
36.7	35.2	4	20	
	Parent Sample Result	Parent Sample Result Duplicate [A] [B]	Parent Sample Result [A] Result [B]	Result Duplicate RPD Limits [A] Result %RPD [B]

Lab Batch #: 872210

Date Analyzed: 10/12/2011 13:40

Date Prepared: 10/12/2011

Analyst; BRB

QC- Sample ID: 429365-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	2.29	2.25	2	20	

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800 Fax: 432-563-1713 12600 West I-20 East Odessa, Texas 79765

NPDES TRRP Project Name: Merle State Unit #3 Project #: 30-025-37545 Report Format: X Standard Project Loc: Lea County PO #: 103-2636 Fax No: Yates Petroleum Corporation Company Address: 105 South 4th Street Artesia, NM 88210 Jeremy Haass 575-748-4311 Project Manager:

ihaass@yatespetroleum.com

e-mail:

Sampler Signature:

Telephone No:

City/State/Zip:

Company Name

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Т	7	097	BTEX 8021B/5030 or BTEX 83	×	×	\times	×				\vdash		\vdash	_			\neg	Laboratory Comments: Sample Conlainers Intact?	8	ner	S	Ġ	Temperature Upon Receipt:
+	1		Semirolailles		-		\dashv											aboratory Comments:	VOCs Free of Headspace?	Sign	S.	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	Sec
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10.P.	5		Anions (Cl, SO4, Alkalinity)															pora	S	sp es	Stod	한 호 호	mpe
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			Dəlqma& ətaO	10/6/2011	10/6/2011	10/6/2011	10/6/2011											TPH: 8015B, BTEX: 8021B & Chlorides.		Received by:		Received by:	Received by ELO
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Ę	いやり	421200														25	2	: 8015B, B		Date	11/11/11	Date	Date
	'	ORDER# 421365/4	EPPER D. CODE	Sample #2	Sample #3	Sample #4	Sample #5									SHURO IND THE HOLD IN	ON SEPARATE REPORT			by:		l by:	ं स्व
(vinc ear del)	לייום מחר מייול	ORDER#:	(Yino esu dai) # &A	٦٩	25	5 6	15	1	+				+	1				Special Instructions:		Relinquished by:		Relinquished by:	Relinquished by:



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dalias Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

Document Title:	Sample Receipt Checklis
Document Title:	Sample Receipt Checkus

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010

Prelogin / Nonconformance Report - Sample Log-In

Client:	ates	Petr	olaum	
Date/Time:	10.10	11.6	12:00	
Lab ID#:	429	565	/4293	66.
Initials:		NR/	AÉ	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	NA	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	(Yes	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	Yes	No	F.	
8. Chain of custody agrees with sample label(s)?	Yes	No		•
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No -		
11. Samples in proper container / bottle?	(Yes	No		
12. Samples properly preserved?	(Yes	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(NA)	
17. VOC sample have zero head space?	(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No).	Cooler 5 No.	
ibs 5.1 °C ibs °C ibs °C	lbs	°c	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:	Client did not Sign	relinguishing samples.	
Corrective /	Action Taken:		
			1,5

Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

□Initial and Backup Temperature confirm out of temperature conditions

□Client understands and would like to proceed with analysis

Received by OCD: 1/31/2022 4:07:05 PM

Received by OCD: 1/31/2022 4:07:05 PM

Analytical Report 426801

for **Yates Petroleum Corporation**

Project Manager: Jeremy Haass Merle 'BOG' State #3 30-025-37545

08-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901); Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





08-SEP-11

Project Manager: Jeremy Haass Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 426801

Merle 'BOG' State #3 Project Address: Lea

Jeremy Haass:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426801. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 426801 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Received by OCD: 1/31/2022 4:07:05 PM

Brent Barron II

Odessa Laboratory Manager

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Sample Cross Reference 426801



Yates Petroleum Corporation, Artesia, NM Merle 'BOG' State #3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample #1	S	08-23-11 15:35	1 - 1 ft	426801-001
Sample #2	S	08-23-11 15:44	1 - 1 ft	426801-002
Sample #3	S	08-23-11 15:55	1 - 1 ft	426801-003
Sample #4	· S	08-23-11 16:10	1 - 1 ft	426801-004
Sample #5	S	08-23-11 16:20	1 - 1 ft	426801-005

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CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Merle 'BOG' State #3



Project ID:

30-025-37545

Work Order Number: 426801

Report Date: 08-SEP-11 Date Received: 08/31/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-869210 BTEX by EPA 8021B

SW8021BM

Batch 869210, Ethylbenzene, Toluene, m p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 426801-001, -002, -005, -004, -003.

The Laboratory Control Sample for Toluene, Ethylbenzene, m_p-Xylenes , o-Xylene is within laboratory Control Limits

SW8021BM

Batch 869210, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 426801-003,426801-002.

Batch: LBA-869326 TPH By SW8015B Mod

SW8015B NM

Batch 869326, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Blank Spike Duplicate however was within limits for the Blank Spike, therefore data is reported as is. Samples affected are: 426704-005, -003, -001, -002, -004.



Project Id: 30-025-37545 Contact: Jeremy Haass

Project Location: Lea

Certificate of Analysis Summary 426801

Yates Petroleum Corporation, Artesia, NM

Project Name: Merle 'BOG' State #3



Date Received in Lab: Wed Aug-31-11 10:00 am

Report Date: 08-SEP-11
Project Manager: Brent Barron II

					Froject Manager: Brent Barron II	rent Barron II
	Lab Id:	426801-001	426801-002	426801-003	426801-004	426801-005
Annlysis Ronnested	Field Id:	Sample #1	Sample #2	Sample #3	Sample #4	Sample #5
marcan have confirmer	Deptle:	1-1 ft	1-1 ft	1-1 ft	1-1 #	1-1 ft
B	Matrix:	SOIL	SOIL	SOL	SOIL	SOIL
	Sampled:	Aug-23-11 15:35	Aug-23-11 15:44	Aug-23-11 15:55	. Aug-23-11 16:10	Aug-23-11 16:20
BTEX by EPA 8021B	Extracted:	Sep-02-11 12:00	Sep-02-11 12:00	Sep-02-11 12:00	Sep-02-11 12:00	Sep-02-11 12:00
	Analyzed:	Sep-03-11 10:47	Sep-03-11 11:09	Sep-03-11 11:35	Sep-03-11 11:57	Sep-03-11 12:20
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.00100	ND 0.00100	ND 0.000992	ND 0.00101	ND 0.00101
Toluene		ND 0.00200	ND 0.00201	0.00235 0.00198	ND 0.00201	ND 0.00202
Ethylbenzenc		0.00203 0.00100	0.00896 0.00100	0.0131 0.000992	0.00102 0.00101	0.00104 0.00101
m_p-Xylenes		0.00475 0.00200	0.0274 0.00201	0.0429 0.00198	0.00223 0.00201	0.00326 0.00202
o-Xylene		0.00627 0.00100	0.0223 0.00100	0.0590 0.000992	0.00283 0.00101	0.00241 0.00101
Total Xylenes		0.0110 0.00100	0.0497 0.00100	0.102 0.000992	0.00506 0.00101	0.00567 0.00101
Total BTEX		0.0131 0.00100	0.0587 0.00100	0.117 0.000992	0.00608 0.00101	0.00671 0.00101
Percent Moisture	Extracted:					
	Analyzed:	Aug-31-11 15:45	Aug-31-11 15:45	Aug-31-11 15:55	Aug-31-11 15:55	Aug-31-11 15:55
	Units/RL:	% . RL	% RL	% RL	% RL	% RL
Percent Moisture		ND 1.00	ND 1.00	ND 1.00	ND 1.00	1.38 1.00
TPH By SW8015B Mod	Extracted:	Sep-01-11 13:40	Sep-01-11 13:40	Sep-01-11 13:40	Sep-01-11 13:40	Sep-01-11 13:40
	Analyzed:	Sep-03-11 06:47	Sep-03-11 07:17	Sep-03-11 08:52	Sep-03-11 09:22	Sep-03-11 10:01
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C10 Gasoline Range Hydrocarbons		ND 15.0	103 75.1	150 74.9	20.9 15.1	17.9 15.1
C10-C28 Diesel Range Hydrocarbons		407 15.0	2040 75.1	4140 74.9	1280 15.1	1090 15.1
Total TPH		407 15.0	.2140 75.1	4290 74.9	1300 15.1	1110 15.1

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENOO Laborationies. XENOO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Final 1.000

Odessa Laboratory Manager

Breff Barron II

Page 5 of 15



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL Below Reporting Limit.
- **RL** Reporting Limit
- MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

POL Practical Quantitation Limit

MQL Method Quantitation Limit

LOQ Limit of Quantitation

- DL Method Detection Limit
- NC Non-Calculable

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+ Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Avc, Phoenix, AZ 85040	(602) 437-0330	

Project Name: Merle 'BOG' State #3

Work Orders: 426801,

Project ID: 30-025-37545

Lab Batch #: 869326

Sample: 426801-001 / SMP

Matrix: Soil Batch:

Units: mg/kg	Date Analyzed: 09/03/11 06:47	SU	RROGATE R	ECOVERY S	STUDY	
ТРН В	sy SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		102	99.9	102	70-135	
o-Temberyl		51.8	50.0	104	70-135	

Lab Batch #: 869326

Sample: 426801-002 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 09/03/11 07:17	SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analytes			[2]			
1-Chlorooctane	83.3	99.6	84	70-135		
o-Terphenyl	39.6	49.8	80	70-135		

Lab Batch #: 869326

Sample: 426801-003 / SMP

Batch:

Matrix: Soil

Units: mg/kg	Date Analyzed: 09/03/11 08:52	SU	RROGATE R	ECOVERY	STUDY	
ТРН В	y SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		121	99.8	121	70-135	
o-Terphenyl		57.9	49.9	116	70-135	

Lab Batch #: 869326

Sample: 426801-004 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 09/03/11 09:22	su	RROGATE R	ECOVERY	STUDY	
ТРН І	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	86.0	100	86	70-135	
o-Terphenyl		41.9	50.0	84	70-135	

Lab Batch #: 869326

Sample: 426801-005 / SMP

Batch:

Matrix: Soil

Units: mg/kg	Date Analyzed: 09/03/11 10:01	SU	RROGATE R	ECOVERY S	STUDY	
ТРН Е	sy SW8015B Mod	Amount Found [A]	True Amount · [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		88.3	99.5	89	70-135	·
o-Terphenyl		44.9	49.8	90	70-135	

^{*} Surrogate outside of Laboratory QC limits

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Surrogate Recovery [D] = 100 * A/BAll results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Merle 'BOG' State #3

Work Orders: 426801,

Project ID: 30-025-37545

Lab Batch #: 869210

Sample: 426801-001 / SMP

Matrix: Soil Batch:

Units: mg/kg	Date Analyzed: 09/03/11 10:47	SU	RROGATE R	ECOVERY	STUDY	
	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0271	0.0300	90	80-120	
4-Bromofluorobenzene		0.0256	0.0300	85	80-120	

Lab Batch #: 869210

Sample: 426801-002 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 09/03/11 11:09	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0387	0.0300	129	80-120	*

Lab Batch #: 869210

Sample: 426801-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 09/03/11 11:35	SU	RROGATE R	ECOVERY	STUDY	
BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0292	0.0300	97	80-120	
4-Bromofluorobenzene		0.0644	0.0300	215	80-120	*

Lab Batch #: 869210

Sample: 426801-004 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 09/03/11 11:57	SU	RROGATE R	RECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1,4-Difluorobenzene	Analytes	0.0306	0.0200	[D]	00.100	
4-Bromofluorobenzene		0.0306	0.0300	98	80-120 80-120	

Lab Batch #: 869210

Sample: 426801-005 / SMP

Batch:

1

Matrix: Soil

Units: mg/kg Date Analyzed: 09/03/11	2:20 SURROGATE RECOVERY STUDY	
BTEX by EPA 8021B	Amount True Control Found Amount Recovery Limits Flags [A] [B] %R %R	
Analytes	[D]	
1,4-Difluorobenzene	0.0291 0.0300 97 80-120	\neg
4-Bromofluorobenzene	0.0272 0.0300 91 80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Merle 'BOG' State #3

Work Orders: 426801,

Project ID: 30-025-37545

Sample: 610994-1-BLK/BLK Lab Batch #: 869326

Matrix: Solid Batch: 1

Units: mg/kg	Date Analyzed: 09/03/11 02:06	su	RROGATE RI	ECOVERY	STUDY	
ТРН В	y SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		86.1	100	86	70-135	
o-Terphenyl		44.4	50.0	89	70-135	

Lab Batch #: 869210

Sample: 610920-1-BLK/BLK

Matrix: Solid Batch:

Units: mg/kg Date Analyzed: 09/03/11 08:30	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes 1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0256	0.0300	85	80-120	

Lab Batch #: 869326

Sample: 610994-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 09/03/11 01:03	Su	RROGATE R	ECOVERY	STUDY	
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes 1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	42.9	50.1	86	70-135	

Lab Batch #: 869210

Sample: 610920-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 09/03/11 06:59	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93.	80-120	

Lab Batch #: 869326

Sample: 610994-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 09/03/11 01:34	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[2]		
1-Chlorooctane	96.2	99.9	96	70-135	
o-Terphenyl	40.5	50.0	81	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.





Project Name: Merle 'BOG' State #3

Work Orders: 426801,

Project ID: 30-025-37545

Lab Batch #: 869210

Sample: 610920-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 09/03/11 07:21	· su	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes .			1-7		
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 869326

Sample: 426704-001 S/MS

Batch:

1

Matrix: Soil

Units: mg/kg	Date Analyzed: 09/03/11 10:32	SU	RROGATE R	ECOVERY	STUDY	
ТРН 1	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	112	101	111	70-135	
o-Terphenyl		46.3	50.3	92	70-135	

Lab Batch #: 869210

Sample: 426978-002 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 09/03/11 12:43	su	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0284	0.0300	95	80-120	
4-Bromofluorobenzene		0.0276	. 0.0300	92	80-120	

Lab Batch #: 869326

Sample: 426704-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 09/03/11 11:03	SU	RROGATE R	ECOVERY	STUDY	
ТРН Е	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	102	99.5	103	70-135	
o-Terphenyl		40.8	49.8	82	70-135	

Lab Batch #: 869210

Sample: 426978-002 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 09/03/11 13:05	su	RROGATE RI	ECOVERY	STUDY	•
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A/B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries

Project Name: Merle 'BOG' State #3

Sample: 610920-1-BKS

Lab Batch ID: 869210

Work Order #: 426801

Analyst: ASA

Date Prepared: 09/02/2011 Batch #: 1

Project ID: 30-025-37545 **Date Analyzed:** 09/03/2011

Matrix: Solid

Flag Limits %RPD Control 35 35 BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Control Limits %R 70-130 70-130 RPD % Blk. Spk Д В % Б 108 97 Blank Spike Duplicate Result [F] 0.0965 0.108 Spike Added 0.100 0.100 9 Blank Spike %R [D] 111 97 0.0974 Blank Spike Result [C] 0.111 Spilce Added 0.100 0.100 13 Sample Result <0.00100 <0.00200 Blank ₹ BTEX by EPA 8021B Units: mg/kg Analytes

35 35 35

71-129 70-135 71-133

104 105

0.104

0.100 0.200

105 105

0.105 0.209

0.100

<0.00100 <0.00200

Ethylbenzene m p-Xylenes o-Xylene

Benzene Toluene 0

86

0.0975

0.100

86

0.0980

0.100

<0.00100

0.200

0.209

Date Analyzed: 09/03/2011 Matrix: Solid

Date Prepared: 09/01/2011 Sample: 610994-1-BKS Lab Batch ID: 869326 Analyst: BBH

Batch #: 1

RI ANK ARI ANK SPIKE / BI ANK SPIKE DIPLICATE RECOVERY STUDY

Units: mg/kg		BLAIN	BLAINK /BLAINK STINE / BLAINK STINE DOTLICATE, ACCO (ENT. 31 OF)	rine/p	LAME	LINE DOLL	מ שושכה	1003	מס ז מי דעוי	,	
TPH By SW8015B Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	BIK. Spk Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	:	(B)	[0]	[a]	[3]	Result [F]	<u>5</u>				
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	706	17	666	879	89	4	70-135	35	רו
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	814	81	666	784	78	4	70-135	35	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes

Final 1.000



Form 3 - MS / MSD Recoveries

Project Name: Merle 'BOG' State #3

Project ID: 30-025-37545

Work Order #: 426801

Lab Batch ID: 869210

Date Analyzed: 09/03/2011 Reporting Units: mg/kg

QC-Sample ID: 426978-002 S

Matrix: Soil Н ASA Batch #: Analyst:

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Date Prepared: 09/02/2011

				ľ							
BTEX by EPA 8021B	Parent Sample Possift	Spilce	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample Result IFI	Spiked Dup. %R	RPD	Control Limits	Control Limits %RPD	Flag
Analytes	[A]		Σ	<u>a</u>	9		5	:			
Benzene	<0.000998	0.0998	0.0798	08	0.100	0.0718	72	11	70-130	35	
Tolirene	<0.00200	0.0998	0.0665	29	0.100	0.0580	58	14	70-130	35	×
Trivilenzene	<0.000998	0.0998	0.0641	2	0.100	0.0520	52	21	71-129	35	×
m n_Xvienec	<0.00200	0.200	0.123	62	0.200	0.0983	49	22	70-135	35	×
o-Xviene	<0.000998	0.0998	0.0543	72	0.100	0.0438	4	21	71-133	35	×
Carlo Carlo							_				

QC-Sample ID: 426704-001 S Date Prepared: 09/01/2011 Date Analyzed: 09/03/2011 Lab Batch D: 869326

Analyst: BBH Batch #:

Matrix: Soil

Reporting Units: mg/kg		×	ATRIX SPIK	E/MATE	UX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECC	VERY S	TUDY		
					I		-		,		
TPH By SW8015B Mod	Parent Sample	Spike	Spiked Sample Spiked Result Sample S	Spiked Sample	pike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control	Control	Flag
	Result	Added	<u>D</u>	%R	dded	Result [F]	%R	%	%R	%RPD	
Analytes	[¥]	8		ē	a		<u>5</u>				
							;	,	201 00	36	
C6-C10 Gasoline Range Hydrocarbons	<16.3	1090	810	74	1080	762	/1	o	/0-133	2	
					1				2000	36	
C10-C28 Diesel Range Hydrocarbons	<16.3	1090	886	91	1080	895	83	10	/0-135	ત	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*((C-F)/(C+F))

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Final 1.000

Page 12 of 15



Sample Duplicate Recovery



Project Name: Merle 'BOG' State #3

Work Order #: 426801

Lab Batch #: 868909

Project ID: 30-025-37545

Date Analyzed: 08/31/2011 14:15

Date Prepared: 08/31/2011

Analyst: BRB

QC-Sample ID: 426780-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE .	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	<1.00	<1.00	0	20	

Lab Batch #: 868917

Date Analyzed: 08/31/2011 15:55

Date Prepared: 08/31/2011

Analyst:BRB

QC- Sample ID: 426801-003 D

Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	<1.00	<1.00	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Phone: 432-563-1800 Fax: 432-563-1713 12600 West I-20 East Odessa, Texas 79765

NPDES Project Name: Merle 'BOG' State #3 TRRP Project #: 30-025-37545 Report Format: X Standard PO #: 103-2636 Project Loc: Lea jhaass@yatespetroleum.com Fax No: e-mail: Yates Petroleum Corporation Company Address: 105 South 4th Street Artesia, NM 88210 Project Manager: Jeremy Haass 575-748-4311 Company Name Telephone No: City/State/Zip:

Sampler Signature:

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Sample ##5	Cample #2		ŧ	#	8/23/2011	3:44pm		×			-			_	S	×		-			\dashv	×			J		
Sample ##	Sample #3		#	4	8/23/2011	3:55pm	\vdash	×			\vdash	_			S	×					-	×		$\widehat{-}$	J		
S X X X X X X X X X	Sample #4		#	#	8/23/2011	4:10pm	-	×			-	_			S	×		\vdash			-	×			J		
EFUT CHLORIDES EPARATE REPORT EPARATE REPORT This solds a Chlorides. Please show BTEX results as mg/kg. Thank you. Date Time Received by: Date Ti	Sample #5		#	14	8/23/2011	4:20pm	-	×				_			S	×					-	×			J		
E PUT CHLORIDES EPARATE REPORT TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. Sample Containers intact? Sample Containers intact? Sample Containers intact? Ostroy read of redictors as a coordiative (s) Listory seals on container(s) Custody seal							\vdash	-			-										_	_					
PEPUT CHLORIDES EPARATE REPORT TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. Date Time Received by: Date Time Received by							\vdash	-			-	-						-						_	Н		
E PUT CHLORIDES EPARATE REPORT TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? Laboratory Comments: Sample Containers Intact? Laboratory Comments: Sample Containers Intact? AND AND AND AND AND AND AND AND AND AND							1	\vdash	L		\vdash	L				-		-	<u> </u>		-	_		\vdash	<u> </u>		
EPARATE REPORT TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? Date Time Sample Hand Delivered by Course of Manufaction Results Intact. Date Time Sample Hand Delivered by Course of Manufaction Results Intact. Date Time Sample Hand Delivered by Course of Manufaction Results Intact. Date Time Received by: Date Time Received by: Date Time Received by: Date Time Received by: Date Time Sample Hand Delivered by Course of Manufaction Results Intact. Date Time Sample Hand Delivered by Course of Manufaction Results Intact. Date Time Sample Hand Delivered by Course of Manufaction Results Intact. Date Time Received by: D							十	╀	_		\vdash	├-				-		-	_		-	_			_		-
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EPARATE REPORT TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Laboratory Comments: Sample Containers Intact? Laboratory Comments: Sample Free of Headspace? Laborator								\vdash	_		\vdash	┞				-		-	_		-	_			_		
EPUT CHLORIDES EPARATE REPORT TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. Sample Containers Infact? VOCS Free of Headspace? Custody seals on container(s) Custody seals on container(1	\vdash										\vdash			\vdash			\dashv	\dashv		7
EPARATE REPORT TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. The comments: Sample Containers Intact? Sample Containers Intact. Sample Time Received by: Date Time Received by: Sample Time Received by	PLEASE PUT CHLORID	ES						-	\dashv		\dashv	\dashv	\dashv	\Box	1	\dashv	\exists	\dashv	4		\dashv	\dashv		\dashv	-		+
TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. Sample Containers hiaci? VOCS free of Headspace? Labels on container(s) Custody seals on container(s) Custo	ON SEPARATE REPOR	स						-	_		-	-				-		\dashv	4		\dashv	-	\Box	\dashv	\dashv		٦
Date Time Received by: 08/29/11 9:12 AM Date Time Received by: Date Time Received by: Date Time Received by: Date Time Sampler Hand Delivered by: Date Time Delivered by: Date Delivered by:		: 8015B, BT		21B	& Chlorides.	Please show	/BT	X	Sault	s as	mg/k		han	k yo	j			abor Samp	atori Free Free	rtain of H	omer ers In	nts: ntact?			(1999)	00	77
Date Time Received by: Date Time Received by: Date Time Sample Hand Delivered by: Date Time Sample Hand Delivered by: Date Time Received by ELOT: Date Time Sample Hand Delivered by Sample Client Rep.? Date Time Received by ELOT: Date Time Received by ELOT: Date Time Received by ELOT: Date Time Date Time Course of Sample Hand Delivered by Sample Client Rep.?	10	Date	٤	ле	Received by:					1	1			Dat	ø	J.		abels Susto	dy se	contai	ner(s	taine	(s)		33		: - ~(
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XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

	Prelog	jin / Nonc	onformance	Report	- Sample	e Log-In		
Client: 1975	Petroi	lum				•		
Date/Time: 8:3		10.00	· ·					
Lab ID#:426801/47								
Initials:	118		•					
muus			ample Receip	t Chack	liet			
			ample Receip	- Oneon				
1. Samples on ice?		J			Blue	Water	No	
2. Shipping container in	good condi	tion?			Ves	No	None	
3. Custody seals intact o	n shipping	container (co	oler) and bottles	3	(Yes)	No	N/A	
4. Chain of Custody pres	ent?				(Yes)	No		
5. Sample instructions co	omplete on	chain of cus	tody?		(Yes	No		
6. Any missing / extra sa	mples?				Yes	No		
7. Chain of custody sign	ed when rel	inquished / r	eceived?		(Yes)	No		
8. Chain of custody agre	es with san	ple label(s)?			(Yes)	No		
9. Container labels legible	e and intac	t?			(Yes)	No		
10. Sample matrix / prop	erties agree	with chain o	of custody?		(Yes)	No ·		
11. Samples in proper co	ntainer / bo	ttle?			(Yes)	No		
12. Samples properly pre	served?				Yes	No	N/A	
13. Sample container int	act?				Yes	No		
14. Sufficient sample am	ount for inc	licated test(s)?		(Yes:	No		
15. All samples received	within suffi	cient hold ti	me?		(Yès)	No		
16. Subcontract of samp	le(s)?				Yes	No	(N/A)	
17. VOC sample have ze	ro head spa	ce?			Yes	No	N/A	
18. Cooler 1 No.	Cooler 2 N	0.	Cooler 3 No.		Cooler 4 No).	Cooler 5 No.	
lbs 1.5 °c	lbs	°C	lbs	°c	lbs	°C	lbs	°c
		None	onformance	Docume	ntation			
Contact:		Contacted by	/:			Date/Time:_		
		•						
Regarding:								
Corrective Action Taken								

Received by OCD: 1/31/2022 4:07:05 PM

Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

□ Initial and Backup Temperature confirm out of temperature conditions
□ Client understands and would like to proceed with analysis

Final 1.000

Analytical Report 426802

for Yates Petroleum Corporation

Project Manager: Jeremy Haass Merle 'BOG' State #3 30-025-37545

08-SEP-11
Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





08-SEP-11

Project Manager: Jeremy Haass Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 426802

Merle 'BOG' State #3 Project Address: Lea

Jeremy Haass:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426802. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 426802 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Received by OCD: 1/31/2022 4:07:05 PM

Brent Barron II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America







Yates Petroleum Corporation, Artesia, NM

Merle 'BOG' State #3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample #1	S	08-23-11 15:35	1 - 1 ft	426802-001
Sample #1	S	08-23-11 15:44	1 - 1 ft	426802-002
Sample #3	S	08-23-11 15:55	1 - 1 ft	426802-003
Sample #4	S	08-23-11 16:10	1 - 1 ft	426802-004
Sample #5	S	08-23-11 16:20	1 - 1 ft	426802-005

Page 3 of 11

Received by OCD: 1/31/2022 4:07:05 PM

CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Merle 'BOG' State #3



Project ID:

30-025-37545

Work Order Number: 426802

Report Date: 08-SEP-11 Date Received: 08/31/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Project Id: 30-025-37545 Contact: Jeremy Haass

Project Location: Lea

Certificate of Analysis Summary 426802

Yates Petroleum Corporation, Artesia, NM

Project Name: Merle 'BOG' State #3

Date Received in Lab: Wed Aug-31-11 10:00 am

Report Date: 08-SEP-11

Project Manager: Brent Barron II

	Lab Id:	426802-001	426802-002	426802-003	426802-004	426802-005
7	Field Id:	Sample #1	Sample #2	Sample #3	Sample #4	Sample #5
Analysis Requesieu	Depth:	1-1 #	1-1 ₩	1-1 ft	1-1 ft	1-1 #
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-23-11 15:35	Aug-23-11 15:44	Aug-23-11 15:55	Aug-23-11 16:10	Aug-23-11 16:20
Anions by E300	Extracted:					
	Analyzed:	Sep-01-11 08:19	Sep-01-11 08:19	Sep-01-11 08:19	Sep-01-11 08:19	Sep-01-11 08:19
	Units/RL:	mg/kg RL				
Chloride		46.3 4.21	ND 4.22	41.8 4.22	427 8.45	3590 42.6
Percent Moisture	Extracted:					•
	Analyzed:	Aug-31-11 15:45	Aug-31-11 15:45	Aug-31-11 15:55	Aug-31-11 15:55	Aug-31-11 15:55
	Units/RL:	% RL				
Percent Moisture		ND 1.00	ND 1.00	ND 1.00	00.1 CM	1.38 1.00

Final 1.000

Odessa Laboratory Manager

Breat Barron II

Page 5 of 11

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

This analytical report, and the emire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENOC Laboratories.
XENOC Laboratories assumes no responsibility and makes no warranty to the end use of the data furely presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

POL Practical Quantitation Limit

MQL Method Quantitation Limit

LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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(281) 240-4280 (281) 240-4200 4143 Greenbriar Dr, Stafford, Tx 77477 (214) 351-9139 (214) 902 0300 (210) 509-3334 9701 Harry Hines Blvd , Dallas, TX 75220 (210) 509-3335 5332 Blackberry Drive, San Antonio TX 78238 (813) 620-2000 (813) 620-2033 2505 North Falkenburg Rd, Tampa, FL 33619 (305) 823-8500 (305) 823-8555 5757 NW 158th St, Miami Lakes, FL 33014 (432) 563-1713 (432) 563-1800 12600 West I-20 East, Odessa, TX 79765 (770) 449-8800 (770) 449-5477 6017 Financial Drive, Norcross, GA 30071 (602) 437-0330 3725 B. Atlanta Ave, Phoenix, AZ 85040

Fax





BS / BSD Recoveries

Project Name: Merle 'BOG' State #3

Work Order #: 426802

Lab Batch ID: 869030 Analyst: BRB

Sample: 869030-1-BKS

Date Prepared: 09/01/20

Batch #: 1

Project TD: 30-025-37545

Matrix: Solid

rroject ID: 50-023-5/343	Date Analyzed: 09/01/2011	
	2011	

Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	PIKE / B	LANKS	PIKE DUPL		RECOVE	RECOVERY STUDY	X	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	BIK. Spk Dup. %R	RPD %	Control Limits	Control Limits %RPD	Flag
Analytes		[B]	[0]	ΙŒ	(E)	Result [F]	[6]				
Chloride	<0.840	20.0	22.6	113	20.0	22.4	112	1	75-125	. 20	

Relative Percent Difference RPD = 200*(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Page 7 of 11

Final 1.000





Form 3 - MS Recoveries

Project Name: Merle 'BOG' State #3



Project ID: 30-025-37545

Work Order #: 426802

Lab Batch #: 869030

QC-Sample ID: 426798-001 S

Date Analyzed: 09/01/2011

Date Prepared: 09/01/2011

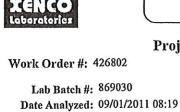
Analyst: BRB

Batch #: 1 Matrix: Soil

Reporting Units: mg/kg	MATE	UX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	382	215	647	123	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B) All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Jample Duplicate Recovery



Project Name: Merle 'BOG' State #3

Work Order #: 426802

Lab Batch #: 869030

QC- Sample ID: 426798-001 D

Project ID: 30-025-37545

Date Prepared; 09/01/2011

Analyst: BRB

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	382	387	1	20	

Lab Batch #: 868909

Date Analyzed: 08/31/2011 14:15

Date Prepared: 08/31/2011

Analyst: BRB

QC-Sample ID: 426780-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	<1.00	<1.00	0	20	

Lab Batch #: 868917

Date Analyzed: 08/31/2011 15:55

Date Prepared: 08/31/2011

Analyst: BRB

QC-Sample ID: 426801-003 D

Batch #: 1

Matrix: Soil

Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	<1.00	<1.00	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 12600 West 1-20 East Phone: 432-563-1800 Odessa, Texas 79765 Fax: 432-563-1713

Standard TAT × NPDES SUSH TAT (Pre-Schodule) 24, 48, 72 hra 5 Chlotides × × × × × Project Name: Merle 'BOG' State #3 TRRP M.O.R.M. Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered
by SamplerClient Rep. ?
by Coyrier?
UPS DHL RCI BTEX 8021B/5030 or BTEX 8260 × × × VOCs Free of Headspace? Femperature Upon Receipt Sample Containers Intact? Laboratory Comments Semiyokatiles Project #: 30-025-37545 Report Format: X Standard Metals: As Ag Ba Cd Cr Pb Hg Se PO #: 103-2636 5 SARIESPICEC Project Loc: Lea Antons (Cl. SO4, Alkalinity) Callons (Ca, Mg, Na, K) 9001 XT TX 1005 :HdJ 10.00 80168 M3108 1.814 :H9T × × × × Time ihaass@yatespetroleum.com Specify Other P=Non-Polable S S S S S 831.11 TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. Date Olher (Specify) None COSSEN HOSN 40S4H на FONH × × olal #, of Containers betall Fillered Fax No: e-mail: 4:10pm 4:20pm 3:35pm 3:55pm 3:44pm Time Sampled 8/23/2011 8/23/2011 8/23/2011 8/23/2011 8/23/2011 Received by: Received by: Dale Sampled 14 # # # 1# guqing Depth 9:12 AM Time nme Time Beginning Depth 1# # # # # Yates Petroleum Corporation 08/29/11 Date Date Date Company Address: 105 South 4th Street Artesia, NM 88210 ORDER # 426801 /426802 PLEASE PUT CHLORIDES Jeremy Haass ON SEPARATE REPORT 575-748-4311 FIELD CODE Sample #2 Sample #3 Sample #5 Sample #4 Sample #1 Sampler Signature: Project Manager: Company Name X Telephone No: City/State/Zip: special Instructions: elinquished by: (lab use only) (Vino eau dai) # 8A



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miaml, Odessa, Philadelphia Phoenix, San Antonio, Tampa

Document Title:	Sample Receipt	Checklist
-----------------	----------------	-----------

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Client:	ites Petro	leum	
Date/Time:	8:31-11	10:00	
Lab 10#:420	801/42680)Z-C1	
Initials:	CIE		

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	(es)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles	(Yes)	No	N/A	
4. Chain of Gustody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No ·		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	(Yès)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No),	Cooler 5 No.	
Ibs J.S °C Ibs °C Ibs °C	Ibs	°C	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:				
Regarding:						
Corrective Action Taken:						

Check all that apply:

Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

Initial and Backup Temperature confirm out of temperature conditions

.

Client understands and would like to proceed with analysis

Received by OCD: 1/31/2022 4:07:05 PM

District I	HOBBS _	State of New Mexico
625 N French Dr, Hobbs, NM 88240]	Energy Minerals and Natural Resources
301 W Grand Avenue, Artesia, NM 8821		Oil Conservation Division
000 Rio Brazos Road, Aztec, NM 87410		1220 South St. Francis Dr.

Form C-141 Revised October 10, 2003

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

<u>District IV</u> 1220 S. St. Franc	eis'Dr., 'Santa	Fe, NM 87505	行むへとい	PIS Sa		NM 875	05					side of form
District IV 1220 S St. Francis'Dr., Santa Fc, NM 87505 RECEIVED Santa Fc, NM 87505 Release Notification and Corrective Action												
	Name of Company OGRID Number					Contact		<u> </u>	\(\sigma\) IIIIIai	Report		T mai report
					Jeremy Haass							
Address					Telephone No.							
104 S. 4 TH S				47731		75-748-147 Facility Typ						
Facility Nar Merle State	ne Hait #2			API Number 30-025-3754:		Well	е					•
									Lease N	Io		
Surface Ow	ner			Mineral C State	wner				VA-194			
State LOCATION OF RELEASE												
							Feet from the	East/V	Vest Line	County		
Unit Letter p	Section 14	Township 10S	Range 34E	Feet from the 990	12	in bouth bine i eit			East	Lea		
Р												
				Latitude 33.4	14253	Longitud	e_103.42887	•				
		٠		NAT	TIRE	OF REL	EASE					
Type of Rele	ase			1422	CAG	Volume of Release Volume Recovered						
Crude Oil &	Produced \	Vater				45 B/O 10 B/PW 30 B/O Date and Hour of Occurrence Date and Hour of Discovery				,		
Source of Re						7/18/2011			7/18/201			
Was Immedi		Given?				If YES, To						
			Yes L	No Not R	equired		own, NMOCD					
By Whom?					Date and I 7/19/2011	-lour AM (email)						
Robert Asher, Yates Petroleum Corporation Was a Watercourse Reached?					-		olume Impacting	the Wate	ercourse			
Yes No N/A												
If a Watercourse was Impacted, Describe Fully.* N/A												
Describe Cause of Problem and Remedial Action Taken.*												
Hole in the Fire Tube in the North Heater Treater Isolated Heater Treater.												
Describe Area Affected and Cleanup Action Taken * An approximate area of 110' X 10', all on well pad. Vacuum truck called to pick up remaining oil, impacted soils to be scraped up and taken to an												
An approximate area of 110° X 10°, all on well pad. Vacuum truck cared to pick up remaining on, impacted sons of exchange a part of the NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a TPH & BTEX are under RRAL's 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 w	ull be subm	itted Depth t	to Ground Io. Distan	ce to Surface W	approxi	ly; >1000', S	Section 14-T10S ITE RANKING	IS 10.	per rem n	ZOMICO OM		
									nd that nur	suant to N	MOCD	rules and
							y knowledge and and perform corre					
Thereby certify that the information given above is true and complete to the observing to the most of indications and perform corrective actions for releases which may endanger 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						o						
should their	operations	have failed to	adequatel	y investigate and ptance of a C-14	remedia report (te containna loes not relie	ve the operator of	f respons	sibility for	compliance	with a	ny other
should their operations have failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the following failed to adequately investigate and remediate contamination that pool at the failed to adequately failed to adequately failed to adequately failed to adequately failed to adequately failed to adequate failed												
2 \					OIL CONSERVATION DIVISION							
Signature: Wiss				Approved by District Supervisor: 4/02/12 Accepted for Reco								
Printed Name Jeremy Haass							Reco	nd Only				
Frinted Ivan	ne Jeremy	114499										
Title Envir	onmental R	egulatory Age	ent			Approval D	ate:		Expiration	Date		
E-mail Add	ress ihaass	@yatespetrole	eum.com			Conditions	of Approval:			Attach	cd 🔲	
				575 740 1471		2RP-			A-0.00	IRP-	4-12	-2792
* Attach Add	y, July 29, 2 litional Sh	eets If Neces		ne: 575-748-1471		ZIVI -					ADR	-2792 0 2 2012
Attach Mil	intolial oll	JJ10 11 110000	J								ALTI	1 (12 5 2) (3.

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 District II

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Hobbs, NM 88240

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

Released to Imaging: 3/24/2022 4:37:35 PM.

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

Name of Company Yates Petroleum Corporation Address 104 S. 4 TH Street Facility Name Merle State Unit #3 Surface Owner State Unit Letter p 14 108 34E Latitude 33.44253 Longitude 103.42887 NATURE OF RELEASE Telephone No. 575-748-1471 Facility Type Mineral Owner State Lease No. VA-1944 LOCATION OF RELEASE Latitude 33.44253 Longitude 103.42887 NATURE OF RELEASE Type of Release Crude Oil & Produced Water Source of Release Heater Treater Was Immediate Notice Given? Variety Vari											
Yates Petroleum Corporation 25575 Jeremy Haass	Final Report										
Address 104 S. 4 TH Street 575-748-1471 Facility Name Merle State Unit #3 Surface Owner State	•										
Surface Owner State S75-748-1471											
Surface Owner State Unit #3 Mineral Owner State Unit Letter Section 14 108 34E 990 South Sou											
Surface Owner State Mineral Owner State State VA-1944	- HO W. A. C.										
Surface Owner State Mineral Owner State Lease No. VA-1944											
State State VA-1944											
LOCATION OF RELEASE Unit Letter Section 14 108 34E 990 South South Feet from the South 990 East Lea Latitude 33.44253 Longitude 103.42887											
Unit Letter p 14 Township 10S 34E Feet from the 990 South Feet from the 990 East/West Line Lea Latitude 33.44253 Longitude 103.42887 NATURE OF RELEASE Type of Release Crude Oil & Produced Water South Volume of Release 45 B/O 10 B/PW 30 B/O Source of Release Heater Treater Date and Hour of Occurrence 7/18/2011 AM Tif YES, To Whom? Was Immediate Notice Given? Yes No Not Required Not Required Maxey Brown, NMOCD											
Latitude 33.44253 Longitude 103.42887 NATURE OF RELEASE Type of Release Crude Oil & Produced Water Source of Release Heater Treater Was Immediate Notice Given? Yes No Not Required Nouth 990 East Lea Lea Longitude 103.42887 NATURE OF RELEASE Volume of Release 45 B/O 10 B/PW 30 B/O Date and Hour of Occurrence 7/18/2011 AM 17/18/2011 AM Maxey Brown, NMOCD											
Latitude 33.44253 Longitude 103.42887 NATURE OF RELEASE Type of Release Crude Oil & Produced Water Source of Release Heater Treater Was Immediate Notice Given? Latitude 33.44253 Longitude 103.42887 Volume of Release 45 B/O 10 B/PW 30 B/O Date and Hour of Occurrence 7/18/2011 AM 7/18/2011 AM If YES, To Whom? Maxey Brown, NMOCD											
NATURE OF RELEASE Type of Release Crude Oil & Produced Water Source of Release Heater Treater Was Immediate Notice Given? Yolume of Release 45 B/O 10 B/PW 30 B/O Date and Hour of Occurrence 7/18/2011 AM 7/18/2011 AM If YES, To Whom? Maxey Brown, NMOCD											
Type of Release Crude Oil & Produced Water Source of Release Heater Treater Was Immediate Notice Given? Yolume of Release 45 B/O 10 B/PW 30 B/O Date and Hour of Occurrence 7/18/2011 AM If YES, To Whom? Maxey Brown, NMOCD	Latitude 33.44253 Longitude 103.42887										
Crude Oil & Produced Water 45 B/O 10 B/PW 30 B/O Source of Release Heater Treater Date and Hour of Occurrence 7/18/2011 AM Date and Hour of Disc 7/18/2011 AM Was Immediate Notice Given? If YES, To Whom? Maxey Brown, NMOCD											
Source of Release Heater Treater Was Immediate Notice Given? Yes No Not Required Date and Hour of Occurrence 7/18/2011 AM 7/18/2011 AM If YES, To Whom? Maxey Brown, NMOCD											
Heater Treater 7/18/2011 AM 7/18/2011 AM Was Immediate Notice Given? If YES, To Whom? Maxey Brown, NMOCD	0310#11										
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required ☐ If YES, To Whom? Maxey Brown, NMOCD	overy										
Date and Hour											
	Date and Hour										
	7/19/2011 AM (email) 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.* Hole in the Fire Tube in the North Heater Treater. Isolated Heater Treater.											
Describe Area Affected and Cleanup Action Taken.*											
An approximate area of 110' X 10', all on well pad. Vacuum truck called to pick up remaining oil, impacted soils to be scraped up and taken to an											
NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX. If initial analytical results for TPH & BTEX are under RRAL's 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. Depth to Ground Water: 50-99' (approximately 50', Section 14-T10S-R34E, per New Mexico Chevro											
Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10.											
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMC	CD sules and										
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which n											
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the opera											
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface wat											
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance wi federal, state, or local laws and/or regulations.	th any other										
OIL CONSERVATION DIVISION											
OIL CONSERVATION DIVISION	OIL CONSERVATION DIVISION										
Signature:	_										
Approved by District Supervisor:	1										
Printed Name: Jeremy Haass											
Title: Environmental Regulatory Agent Approval Date: Expiration Date:											
E-mail Address: jhaass@yatespetroleum.com Conditions of Approval: Attached	_										
Date: Friday, July 29, 2011 Phone: 575-748-1471 2RP- Attach Additional Sheets If Necessary											





BREAKS, SPILLS AND LEAKS REPORT

erson Reporting Juan M. Sarabia	Time Reported: and pin
Person Reported to (Field Supervisor) Noel Gomez	
nvironmental Notification Coordinator Bob Asher	Time Reported: 7:00 am pm
. LOCATION: Name of well or facility: Merle BOG St. # 3 Battery Location 990'x990' Section 14 Township 10 \$	
Surface Owner:	
2. TIME OF INCIDENT: Date: Time: 5	:00 p.m. am pm
s. SOURCE AND CAUSE: hole in the Fire Tube from the North Hea	ter Treater
1. TYPE OF DISCHARGE X Crude Oil Condensate Produced Water Gas	Other
5. QUANITY: Estimated Volumes Discharged: 45 Barrels o Barrels o	of Oil 10 Barrels of Water
Estimated Volumes Recovered: 30 Barrels of B	of Oil 0 Barrels of Water
6. SITE CHARACTERISTICS:	
Weather Conditions: DRY 5-10 mph So	oil Type and Condition: Caliche Pad
Distance & Direction to fresh water wells or watercourse: 2 miles r	
• • • • • • • • • • • • • • • • • • • •	
Miscellaneous:	
7. IMMEDIATE CORRECTIVE ACTION: Action and time taken to control incident: recover 30 bbls. Of oil, p	ut back in production tank.

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Treat in place

BREAKS, SPILLS AND LEAKS REPORT

8. SITE ASSESMENT Exact Location of Spill: (sketch) Ν Wellhead Pumping Unit **Heater Treaters** Oil spill Estimated Vertical Extent: _____ feet / inches 10 Horizontal Extent: ____110___ X ____ Highly Contaminated/Saturated Packed Caliche х Degree of Contamination: Unsaturated _____ 9. REMEDIAL ACTION: Excavate, and landfarm on location x Excavate, remove and replace contaminated soil, left excavated for environmental testing

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PI/Dwights I	PLUS on CD Wel	1 Summa	ry Report	
	General Information	l	***********************	
State	: NEW MEXICO		Final Status	: GAS
County	: LEA		Drill Total Depth	: 12670
Field	: LANE SOUTHEAST		Log Total Depth	:
Operator Name	: YATES PETROLEUI		True Vertical Depth	:
Lease Name	: MERLE STATE UNI			
Well Number	: 3	-	Spud Date	: JAN 10, 2006
	: 30025375450000		Comp Date	: MAR 15, 2006
API Number	: 3002537545			
Regulatory API	: WO		Hole Direction	: VERTICAL
Init Lahee Class	: WDD		Reference Elevation	: 4190 KB
Final Lahee Class	: WDD		Ground Elevation	: 4173
Permit Number	;		KB Elevation	: 4190
Geologic Province	: PERMIAN BASIN	MISSISSIPPIA		
Formation at TD	: 352MSSPL	MISSISSIPPIA		
Oldest Age Pen	: 352			
Producing Formation	: 354ACCL	AUSTIN CYCI		: 14 SEC
Township	: 10 S		Section	: NW SE SE
Range	: 34 E		Spot	. NW SE SE
Base Meridian	: NEW MEXICO			
	Additional Location	Information		
Footage Location	: 990 FSL 990 F		S SECTION	
	: 33.4425300		Latitude (Bot)	:
Latitude	: -103.4288700		Longitude (Bot)	:
Longitude	The second secon			
Lat./Long. Source			Remark	
Location Narrative	: Type		REGULATORY	
	SCALED_FOOT		N	
	IRREG_SECT		14.5 MI NW TATU	TM NM
	DST_TOWN			NCH EAST FLD(ATOKA)
	DST_FIELD		0.9 IVII W 21-4 IQII	NOIL DE LES LES CALLES
00 00 00 pg vil.pg hi 00 00 at 00 00 at 00 00 at 01 at	Initital Potential Te	sts		<u>1979</u> 3
Top	Base Top	Base		Prod Test
Test Form	Form Depth	Depth Choke		Method Method
001 354ACCL	354ACCL 12152	12187 24/64		PERF FLOWING
•••	IP Volume	2.		
(Oil Cond		Gas	Wtr
	Unit Desc Amount Unit	Desc Amour	nt Unit Desc A	mount Unit Desc
~~~	BPD	191	4 MCFD	1 BBL
001 1 3	IP Pressure			
Test FTP	SITP FCP SICE	)		
001 550	5111			
001 550	IP Treatment			-
Test Ton Br	ase Volume Meas Amount	T/P PSI	Inj Type Nbr	Agent Add
			ACID	NEFE
001 12152 121	IP Perforation			
m , m D	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Top Form	Base Form Status	Count Density Per
			354ACCL	20
001 12152 121			354ACCL	48
001 12164 121	187 PERF	334ACCL	JJ4ACCL	
******************	Formations			
			Тор Тор	Base Base
Form Code Form	Name		Depth TVD	Depth TVD Source Lithology
454RSLR RUST			2174	LOG
453YTES YATI			2833	LOG
1001110	77/5 to			¥

Base Depth

12089

Size

27/8 IN

Mixed String

Date: 7/29/2011 Time: 2:34 PM

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# PI/Dwights PLUS on CD Well Summary Report

	453SADR	SAN ANDRES				4090	1	LOG
	453GLRT	GLORIETA				5536	]	LOG
	452TUBB	TUBB				6992		LOG
	452ABO	ABO /SH/	1			7794		LOG
	451WFMP	WOLFCAMP				9072		LOG
	404STRN	STRAWN				10882		LOG
	403ATOK	ATOKA				11489		LOG
	402MRRW	MORROW				11966		LOG
	354ACCL	AUSTIN CYCLI	E			12150		LOG
	354CRLM	CHESTER LM				12279		LOG
	352MSSPL	MISSISSIPPIAN				12350		LOG
			Log Data		_			
			weeksto		Log	Max		
	Run No	Log Type	Top	Base	MD	Temp		
	1	TLD						
	` 1	HRLA						
	1	BHCS						
	H=====================================	u===	Casing Da	ta		p=====================================		
	S	ize Base Depth	Cement	Unit				
	20							
	13 3/8	IN 376	440	SACK				
	9 5/8	IN 4110	1575	SACK				
	7	IN . 12670	2380	SACK				
Tubing Data								
			2007 N. S					

MERLE ST UT #3 Sec. 14 10S 34E 990 FSL 330 FWL

GO NORTH OF TATUM, NM TO CROSSROAD, NM. TURN WEST ON CO ROAD (CARROLL ROAD). GO APPROXIMATELY 6.4 MILES. TURN SOUTH THRU THE CATTLE GUARD AND GO APPROXIMATELY 4.2 MILES TO WHERE THE ROAD T'S. TURN EAST AND GO APPROXIMATELY 1.5 MILES. THE NEW ROAD WILL START HERE AND GO SOUGHT FOR APPROXIMATELY ½ MILE.

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# Jeremy Haass

From:

**Bob Asher** 

Sent:

Tuesday, July 19, 2011 8:36 AM

To:

' (MaxeyG.Brown@state.nm.us)'

Cc:

Jerry Fanning; Lisa Norton; Amanda Trujillo; Amber Cannon; Jeremy Haass

Subject: Release (Merle BOG State #3)

Yates Petroleum Corporation is reporting a release at the following location.

Merle BOG State #3 30-025-37545 Section 14, T10S-R34E Lea County, New Mexico

Date/Time of Release: 7/19/2011; AM

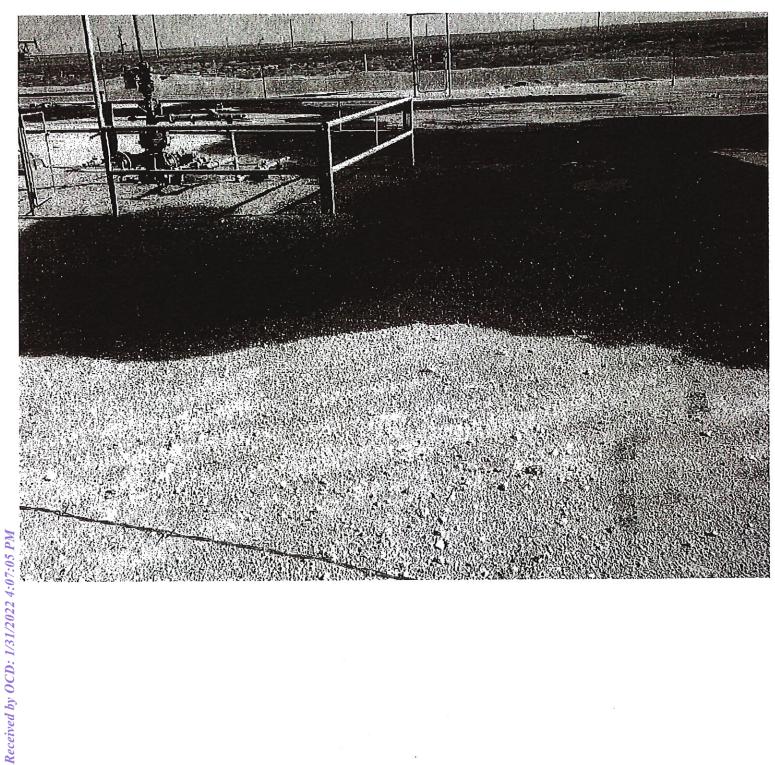
Released: Approximately 45 B/O & 15 B/PW Recovered: Approximately 30 B/O & 0 B/PW

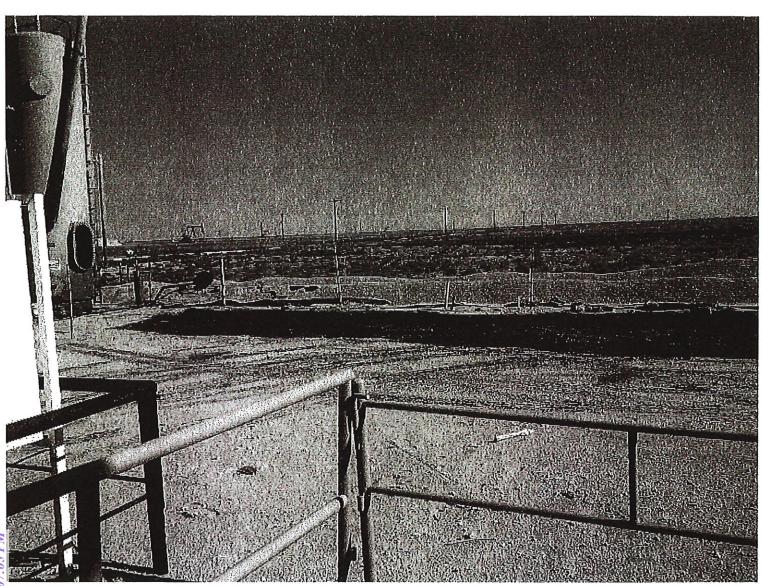
The release was caused from a hole in the fire tube of a heater treater, vacuum truck called. Crew called to begin cleanup work.

A C-141 Initial Report will be submitted with complete details.

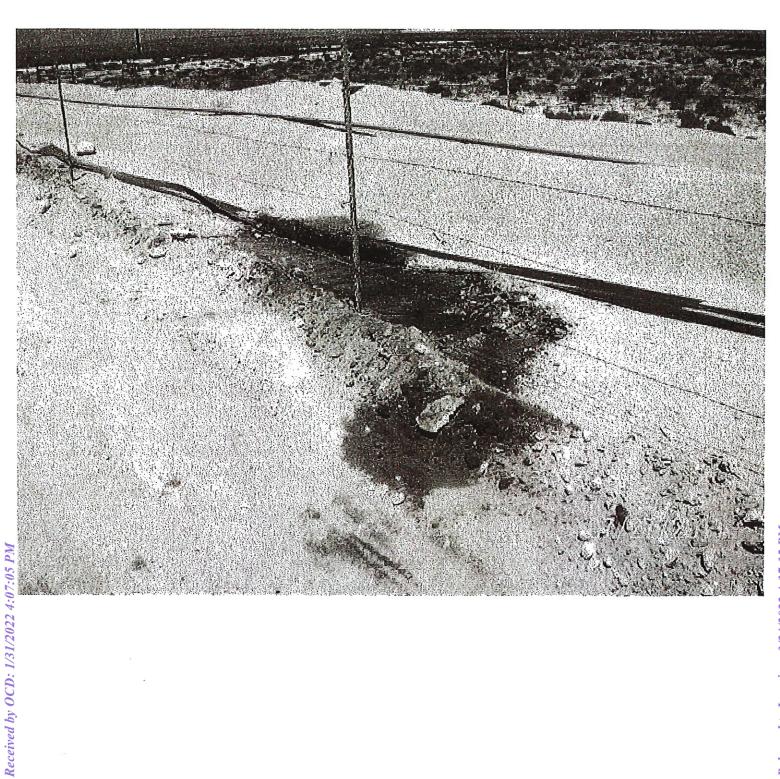
Thank you.

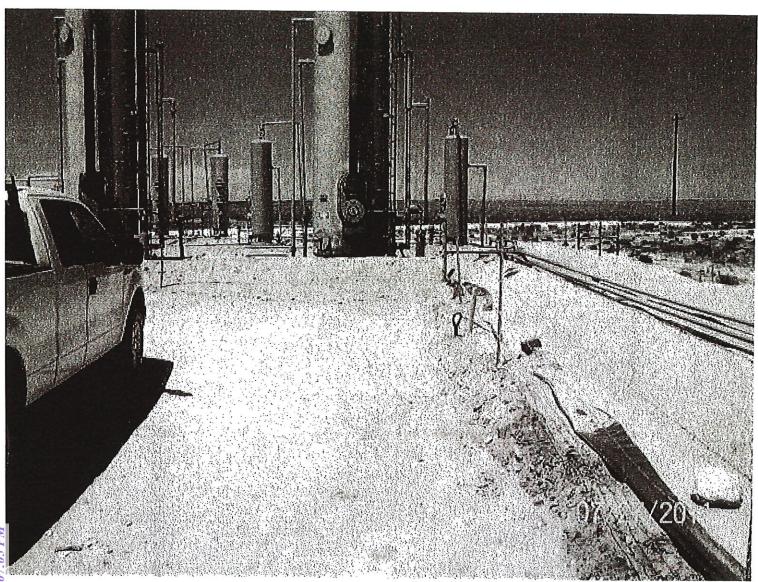
Robert Asher Senior Environmental Regulatory Agent Yates Petroleum Corporation 575-748-4217 (Direct) 575-365-4021 (Cell) boba@yatespetroleum.com

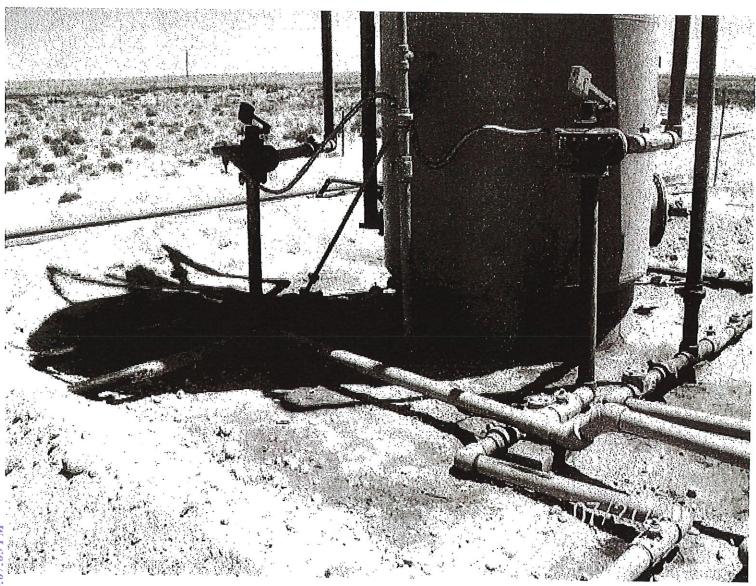






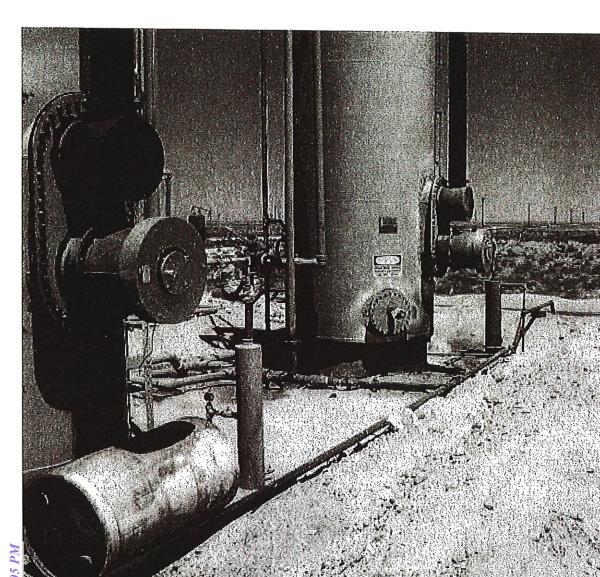


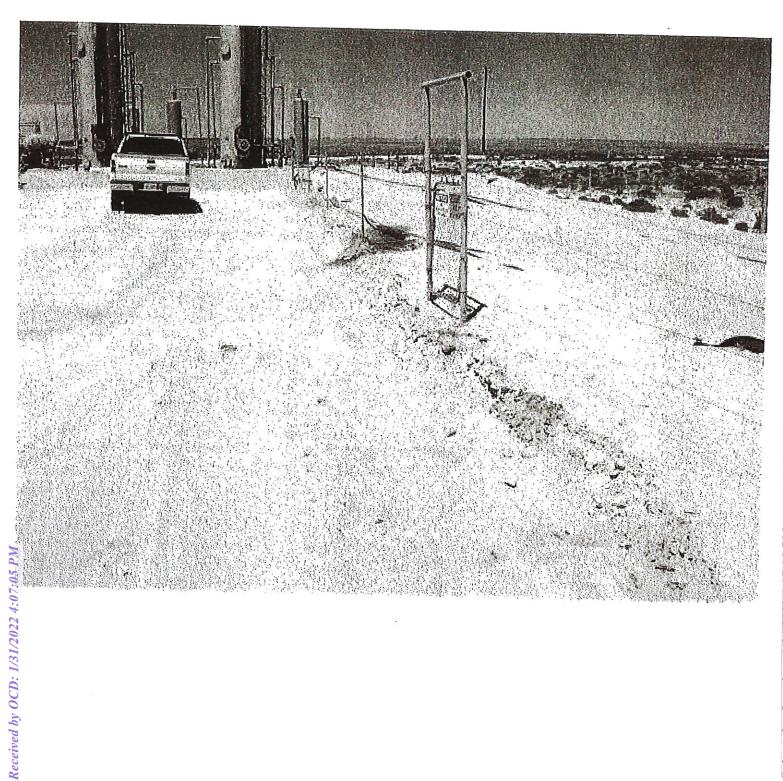






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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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

CONDITIONS

Action 77061

## **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	77061
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created	Condition	Condition
Ву		Date
jnobui	Case Closed. Case identical to nGRL1209339294 closed on 09/21/2021.	3/24/2022