<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

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Incident ID	NTO1501432357
District RP	1RP-3504
Facility ID	
Application ID	

Release Notification

Responsible Party

responsible l	Party EOG	Resources, Inc		OGRID 7	377
Contact Nam	^e Chase :	Settle		Contact T	^{Celephone} 575-748-1471
Contact email Chase_Settle@eogresources.com		Incident #	NTO1501432357		
Contact maili	ing address	104 S. 4th Str	eet, Artesia, N	M 88210	,
				of Release S	ource
atitude 32	.98501			Longitude	-103.90212
			(NAD 83 in deci	imal degrees to 5 deci	mal places)
Site Name H	illiard B F	ederal #1		Site Type	Tank Battery
Date Release				API# 30-00	
Unit Letter	Section	Township	Range	Cour	nty
L	26	15S	30E	Chaves	
urface Owner	: State	X Federal Tr	•	Volume of	Release
	Materia			calculations or specific	justification for the volumes provided below)
Crude Oil		Volume Release	d (bbls) 6		Volume Recovered (bbls) 0
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)
rroduced					\
		Is the concentrate produced water >	on of dissolved ch 10,000 mg/l?	loride in the	☐ Yes ☐ No
Condensat	te		10,000 mg/l?	lloride in the	` ′
		produced water >	10,000 mg/l? d (bbls)	loride in the	☐ Yes ☐ No
Condensat	as	volume Released	10,000 mg/l? d (bbls)		☐ Yes ☐ No Volume Recovered (bbls)
Condensat	as scribe)	volume Released	10,000 mg/l? d (bbls) d (Mcf)		☐ Yes ☐ No Volume Recovered (bbls) Volume Recovered (Mcf)

steps. EOG Resources is submitting for closure via the new form to formally close out this incident. All

sampling and correspondence is also attached.

Incident ID	NTO1501432357
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Application ID	

Was this a major	If YES, for what reason(s) does the response	nsible party consider this a major release?	
release as defined by 19.15.29.7(A) NMAC?			
19.13.29.7(A) WINC:			
Yes No			
If YES, was immediate no	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?	
	Initial R	esponse	
The responsible	party must undertake the following actions immediate	- ly unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ease has heen stonned		
	is been secured to protect human health and	the environment	
	•	dikes, absorbent pads, or other containment devices.	
•	ecoverable materials have been removed ar		
If all the actions described	d above have <u>not</u> been undertaken, explain	why:	
D. 10.15.20.0 D. (4) NBA	IA C dl		
		remediation immediately after discovery of a release. If remediation 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.			
		best of my knowledge and understand that pursuant to OCD rules and	
		ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have	
failed to adequately investigated	ate and remediate contamination that pose a thre	eat to groundwater, surface water, human health or the environment. In	
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws	
	0-44-	Dan Cafati & Francisco antal Ca	
Printed Name: Chase		Title: Rep Safety & Environmental Sr	
Signature: Than	ettle	Date: 10/18/2021	
email: Chase_Settle	@eogresources.com	Telephone: 575-748-1471	
MANAGEMENT AND			
OCD Only			
Received by:		Date:	
Teconived by.			

Incident ID	NTO1501432357
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.			
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ 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			
Data table of soil contaminant concentration data			
Depth to water determination			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs			
Photographs including date and GIS information			
Topographic/Aerial maps			

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.

Laboratory data including chain of custody

Incident ID	NTO1501432357
District RP	1RP-3504
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Incident ID	NTO1501432357
District RP	1RP-3504
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.		
☐ Detailed description of proposed remediation technique			
Scaled sitemap with GPS coordinates showing delineation points			
	☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC		
Proposed schedule for remediation (note if remediation plan times)	eline is more than 90 days OCD approval is required)		
Deferral Requests Only: Each of the following items must be con	firmed 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.		
T1. 1. 4:C 4.441 : C. 4:	to the host of the last of the		
	te to the best of my knowledge and understand that pursuant to OCD certain release notifications and perform corrective actions for releases		
which may endanger public health or the environment. The accepta	nce of a C-141 report by the OCD does not relieve the operator of		
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 l			
Printed Name:	Title:		
Signature:	Date:		
email:	Telephone:		
	-		
OCD Only			
Received by:	Date:		
☐ Approved with Attached Conditions of	Approval		
Signature:	Date:		

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

Incident ID	NTO1501432357
District RP	1RP-3504
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.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.
Printed Name: Chase Settle Title: Rep Safety and Environmental Sr
Printed Name: Chase Settle Signature: Title: Rep Safety and Environmental Sr Date: 10/18/2021
email: Chase_Settle@eogresources.com Telephone: 575-748-1471
OCD Only
Received by: Date:
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Bradford Billings Date: 11/02/2021
Closure Approved by: Bradford Billings Date: 11/02/2021 Printed Name: Envi.Spec.A

Received by OCD: 10/25/2021 12:12:53 PM

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.



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1220 S. St. Plan	cis Dr., Same	i re, ivivi 6/30.				e, NM 875							
			Rel	ease Notific	catio	n and Co	orrective A	ctior	1				
N 66						OPERA'	ror		☐ Initia	al Report	\boxtimes	Final Report	
Name of Co Yates Petrol		oration				Contact Amber Grif	fin						
Address						Telephone l	No.			1			
104 S. 4 th Se Facility Nar	W. M. S. D.					575-748-1471 Facility Type							
Hilliard B F						Tank Battery							
Surface Ow	ner			Mineral C	Owner				API No				
Federal				Federal					30-005-				
				LOCA	ATIO	N OF RE	LEASE						
Unit Letter L	Section 26	Township 15S	Range 30E	Feet from the 1980		/South Line South	Feet from the		West Line West	County Chaves			
	20		302	1200			400		W CSI	Chaves			
				Latitude 32.	98501	_Longitude	103.90212						
				NAT	URE	OF REL	EASE						
Type of Release Crude Oil					Volume of 6 B/O	Release			Recovered				
Source of Release				Date and I-	lour of Occurrence	е		Hour of Dis	scovery				
Heater Treater Was Immediate Notice Given?				1/4/2015; A			1/4/2015;	AM					
☐ Yes ☐ No ☒ Not Require				equired									
By Whom? N/A				Date and H N/A	lour								
Was a Watercourse Reached?				If YES, Vo	olume Impacting t	he Wat	ercourse.						
10 171			Yes 🗵			N/A	·						
	se of Probl	em and Reme	dial Actio	n Taken.*									
The gas line a	and BP valv	es froze on thand Cleanup	te heater t	reater and busted,	causing	the release. \	Well was shut off	and rou	stabout cre	ws were cal	led.		
An approxim	ate area of	40' X 40' was	affected.	The well was sho	ut down	, production e	quipment was po	wer was	shed and co	ntaminated	soils w	ere removed.	
Excavated so BTEX. If ini	ils will be h tial analytic	nauled to a NA cal results for	MOCD app TPH & B	proved facility. V TEX are under RI	ertical (RAL's (and horizontal site ranking is	l delineation samp : 0) a Final Report	les will , C-141	be taken ar will be sul	nd analysis : omitted to tl	ran for ' ne OCD	TPH & preducting	
closure. If th	e analytical	results are ab	ove the R	RAL's a work pla), Wellhead Prot	an will t	e submitted to	o the OCD. Dept	h to Gr	ound Wate	er: > 100' (approx	imately	
Yates Petrol	eum reque	sts closure ba	ised off at	ttached analytica	d result	S.							
regulations al	l operators	are required t	o report a	e is true and comp nd/or file certain i	release r	notifications a	nd perform correc	tive act	ions for rele	eases which	may e	ndanger	
public health	or the envi	ronment. The	acceptan	ce of a C-141 repo	ort by th	e NMOCD m	arked as "Final R	eport" o	loes not reli	eve the one	rator of	fliability	
or the environ	nment. In a	ddition, NMC	OCD accep	otance of a C-141	report o	loes not reliev	e the operator of	respons	ibility for c	ompliance v	ater, nu vith any	man neatth y other	
federal, state,	or local lav	vs and/or regi	ulations.		г		OIL CON	SERV	ATION	DIVISIO)NI		
Signature:	lank.	4 6n	ilm				OID COIN	<u>JLIC (</u>	7111011	DIVIOI	<u> </u>		
()0					Approved by	Environmental S	pecialis	t: Jami	Ellyer				
Printed Name	: Amber G	riffin											
Title: Enviro	nmental Re	presentative			Approval Date: Expiration Date: ///								
E-mail Address: agriffin@yatespetroleum.com					Conditions of Approval:								
Date: June 8, 2016 Phone: 575-748-4111 1RP-3504 * Attach Additional Sheets If Necessary													
Attach Addi	tional She	ets If Necess	sary										
opied: N	W. Ster	tile Prod	ductic	ρη									
	c. h	11/2	16										
	OK	TIW P	(0				×.						

District I
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1220 S. St. Francis Dr., Santa Fe, NM 8751 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

						7-67-54		_
Rele	ease N	otifica	ation	and	Cor	rective	Actio	on

			Kel	ease Notiii	cation			ction					
						OPERA'	ГOR		Initi	al Report	\boxtimes	Final Repo	
Name of Co						Contact	c						
Yates Petro	ieum Corp	oration				Amber Grif Telephone l							
104 S. 4 th S	treet					575-748-14°							
Facility Na			y			Facility Typ							
Hilliard B I						Tank Batter	y						
Surface Ow	ner			Mineral C	Owner	er API No.							
Federal				Federal						-20987			
LOCAT					TIO	OF RE	EASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/Wes	t Line	County			
L	26	158	30E	1980		South	460	Wes		Chaves			
					L		N :						
				Latitude 32.	<u>98501</u>	_Longitude	103.90212						
				NAT	URE	OF REL				_			
Type of Release Crude Oil					Volume of 6 B/O	Release		olume I B/O	Recovered				
Source of Re	lease						lour of Occurrence	ce D	ate and	Hour of Dis	covery		
Heater Treat		7' 0				1/4/2015; /		1/	4/2015;	; AM	-		
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Require				equired	If YES, To N/A	wnom							
By Whom?						Date and H	lour						
N/A					N/A	luma Tumastina	the Weters						
Was a Watercourse Reached? ☐ Yes ☒ No					N/A	lume Impacting (ine waterco	urse.					
If a Waterco	ırse was Im	pacted, Descr	ibe Fully.	N/A									
Describe Car	ise of Probl	em and Reme	dial Actio	n Taken.*			V-111t - CC	1		11	1 - 1		
		es froze on that and Cleanup A		eater and busted,	causing	the release. V	vell was shut off	and roustat	out cre	ws were can	ea.		
An approxim	ate area of	40' X 40' was	affected.	The well was shu	ut down,	production e	quipment was po	wer washed	and co	ntaminated	soils w	ere removed.	
				proved facility. V									
				ΓEX are under RI RAL's a work pla									
185', Section	e analytical	R30E, per Tr	end Man), Wellhead Prot	ection A	rea: No. Dis	tance to Surface	Water Bo	dv: >10	00'. SITE I	RANKI	NG IS 0.	
Yates Petrol	eum reque	sts closure ba	sed off at	tached analytica	l results								
I hereby cert	fy that the i	nformation gi	ven above	is true and comp	lete to the	ne best of my	knowledge and u	inderstand t	hat purs	suant to NM	OCD rı	iles and	
regulations a	Il operators	are required to	o report ai	nd/or file certain rece of a C-141 repo	elease n	otifications at	nd perform correc	ctive actions	tor rel	eases which	may en	danger	
should their	or the environment	ave failed to a	acceptant	investigate and r	emediate	e contaminati	on that pose a thr	eat to groun	id water	r, surface wa	ater, hu	man health	
or the enviro	nment. In a	ddition, NMC	CD accep	tance of a C-141									
federal, state	or local lav	ws and/or regu	ılations.				OII COM	OED VA	LIOYI	DIMIGIC) N I		
	7	6	11				OIL CON	SEKVA.	HOI	DIAIRIC	<u> </u>		
Signature:	loub	a Ori	KM										
Printed Name: Amber Griffin					Approved by	Environmental S	pecialist:						
Title: Environmental Representative					Annanual Dat		E	luation.	Data				
Title: Enviro	iiinentai Kej	presentative				Approval Dat	С.	ГЕХР	iration	Date:		-7	
E-mail Addre	ess: agriffin	@yatespetrole	eum.com			Conditions of	Approval:			Attached			
Date: June 8,				: 575-748-4111		1RP-3504							
Attach Addi	rodu.	tion W	laster	fio									
mailed	Λ ()Λα	mch	6/8/1	1									
Muckey	JONE	U(I)	11810	6									

MARTIN YATES, III 1912-1985 FRANK W. YATES 1936-1986 S.P YATES 1914-2008



JOHN A. YATES BR.
CHAIRMAN EMERITUB

JOHN A. YATES JR.
CHAIRMAN OF THE BOARD

DOUGLAS E. BROOKS
PRESIDENT/CEO

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

June 8, 2016

Mr. Jamie Keyes NMOCD District I 1625 N. French Dr. Hobbs, NM 88240 * emailed 6/8/16
We all analytical
Wall analytical
data attached.

RE:

Hilliard B Federal #1

30-005-20987

Section 26, T15S-R30E Chaves County, New Mexico

Mr. Keyes,

Yates Petroleum Corporation (Yates) would like to submit the attached Final C-141 and supporting documentation to you regarding the release that occurred at the above mentioned facility on January 4, 2015 (1RP-3504).

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

Thank You,

amber Griffin

Environmental Representative Yates Petroleum Corporation

Yates Petroleum Corporation
Hilliard B Federal #1
Section 26, T15S-R30E
Chaves County, New Mexico
June 8, 2016

I. Location

The well is located approximately 11 miles north of Loco Hills via Hagerman Cutoff Road and approximately 6 miles east of Hagerman Cutoff Road via lease roads.

П. **Background**

On January 4, 2015 Yates had a release of 6 barrels of crude oil, with 0 barrels of crude oil recovered. The area affected from this release was on the east side off of the production pad. An initial Form C-141 was submitted, via e-mail, to the NMOCD District I office on January 13, 2015 for this release.

On January 15, 2015 personnel returned to the release area and collected initial soil samples from the release area using a hand auger at depth of 6" and 1' below the surface level. Samples at each depth were a 5-point composite of the release area. The soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B and TPH 8015M. Yates received the analytical results on January 20, 2015 (Report H500161 attached to this letter). The analytical results showed that BTEX and TPH were at levels above NMOCD RRAL's.

On January 20, 2015 personnel had a contractor spray the release area with a 3% Micro-Blaze and water mixture.

On February 16, 2016 personnel returned to the release area and collected further soil samples from the release area using a hand auger. Soil samples were collected from the surface, 1', 2' and 3' below the surface level. At this time the release area was split into three separate sections for sampling. The soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B and TPH 8015M. Yates received the analytical results on February 25, 2015 (Report 1602849 attached to this letter). The analytical results showed that BTEX and TPH were at levels above NMOCD RRAL's only at 2' below the surface level in Section 2. All other sections and depths were below NMOCD RRAL's for this site.

On April 25, 2016 personnel had a contractor spray the release area with a 6% Micro-Blaze and water mixture.

On May 25, 2016 personnel returned to the release area and collected further soil samples from the release area using a hand auger. During this sampling event samples were collected from Section 1 at the depths of the surface and 1' below the surface level. Samples were also collected from Section 2 at the depths of the surface, 1', 2', and 3' below the surface level. The soil samples were sent to an approved NMOCD laboratory and tested for TPH 8015M. Yates received the analytical results on June 6, 2016 (Report 1605D62 attached to this letter). The analytical results showed that TPH are now at levels below NMOCD RRAL's for all samples collected.

III. **Surface and Ground Water**

Area surface geology is Cenozoic. The ChevronTexaco depth to ground water map shows the depth to groundwater to be approximately 185 feet making the site ranking for this site a Released to Imaging: 11/2/2021 1:40:47 PM

zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

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

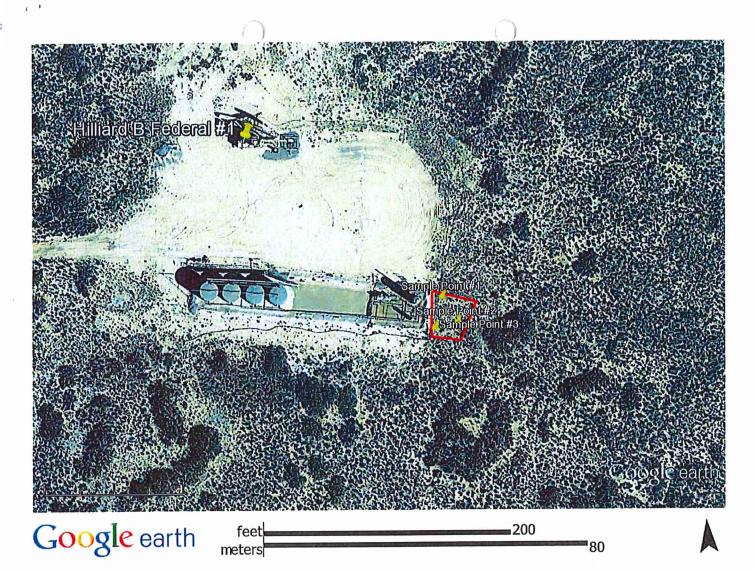
Depth to ground water >100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

IV. Soils

The area consists of soils that are sand.

V. Conclusion

Based off the analytical data which shows that Yates remediated the soils to TPH and BTEX levels below the NMOCD RRALs for a site ranking of zero (0), Yates requests closure. No further work will be conducted at this site.



2 4

Hilliard B Federal #1

1)

Site Ranking is zero (0). Depth to Ground Water >100' (approx. 185', per ChevronTexaco Trend Map). Released: 6 B/O; Recovered: 0 B/O. Release Date: 1/4/2015. 1RP-3504





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

June 06, 2016

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

FAX

RE: Hilliard B Federal 1

OrderNo.: 1605D62

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/27/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

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Analytical Report Lab Order 1605D62

Date Reported: 6/6/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1605D62-001

Client Sample ID: 1-Surface

Collection Date: 5/25/2016 7:20:00 AM Received Date: 5/27/2016 9:50:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	600	97		mg/Kg	10	6/2/2016 7:26:09 PM	25601
Surr: DNOP	0	70-130	s	%Rec	10	6/2/2016 7:26:09 PM	25601
EPA METHOD 8015D: GASOLINE F	RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/1/2016 12:45:38 PM	25568
Surr: BFB	116	80-120		%Rec	1	6/1/2016 12:45:38 PM	25568

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1605D62

Date Reported: 6/6/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1605D62-002

Client Sample ID: 1-1'

Collection Date: 5/25/2016 7:39:00 AM

Received Date: 5/27/2016 9:50:00 AM

Analyses	Result	PQL 0	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS				., 200 - 20 - 20 - 20	Analys	t: JME
Diesel Range Organics (DRO)	210	100		mg/Kg	10	6/2/2016 8:10:03 PM	25601
Surr: DNOP	0	70-130	s	%Rec	10	6/2/2016 8:10:03 PM	25601
EPA METHOD 8015D: GASOLINE R	RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/1/2016 4:16:56 PM	25568
Surr: BFB	119	80-120		%Rec	1	6/1/2016 4:16:56 PM	25568

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1605D62 Date Reported: 6/6/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1605D62-003

Client Sample ID: 2-Surface

Collection Date: 5/25/2016 7:23:00 AM

Received Date: 5/27/2016 9:50:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	•				Analys	t: JME
Diesel Range Organics (DRO)	820	100		mg/Kg	10	6/2/2016 8:53:28 PM	25601
Surr: DNOP	0	70-130	S	%Rec	10	6/2/2016 8:53:28 PM	25601
EPA METHOD 8015D: GASOLINE R	ANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/1/2016 4:40:21 PM	25568
Surr; BFB	118	80-120		%Rec	1	6/1/2016 4:40:21 PM	25568

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1605D62
Date Reported: 6/6/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1605D62-004

Client Sample ID: 2-1'

Collection Date: 5/25/2016 7:50:00 AM Received Date: 5/27/2016 9:50:00 AM

Batch PQL Qual Units **DF** Date Analyzed Result Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME 6/2/2016 9:36:48 PM 25601 1500 10 Diesel Range Organics (DRO) 96 mg/Kg 6/2/2016 9:36:48 PM 25601 70-130 S %Rec Sur: DNOP Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 6/1/2016 5:03:46 PM 25568 mg/Kg Gasoline Range Organics (GRO) 14 4.7 6/1/2016 5:03:46 PM 25568 181 80-120 S %Rec Sum: BFB

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1605D62 Date Reported: 6/6/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1605D62-005

Client Sample ID: 2-2

Collection Date: 5/25/2016 7:57:00 AM

Received Date: 5/27/2016 9:50:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS					Analys	st: JME
Diesel Range Organics (DRO)	1100	98		mg/Kg	10	6/2/2016 10:19:59 PM	25601
Surr: DNOP	0	70-130	s	%Rec	10	6/2/2016 10:19:59 PM	25601
EPA METHOD 8015D: GASOLINE R	RANGE					Analys	st: NSB
Gasoline Range Organics (GRO)	30	4.9		mg/Kg	1	6/1/2016 5:27:11 PM	25568
Surr: BFB	231	80-120	s	%Rec	1	6/1/2016 5:27:11 PM	25568

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- B Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1605D62

Date Reported: 6/6/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1605D62-006

Client Sample ID: 2-3'

Collection Date: 5/25/2016 8:05:00 AM Received Date: 5/27/2016 9:50:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS	3				Analy	st: JME
Diesel Range Organics (DRO) Surr: DNOP	ND 96.9	10 70-130		mg/Kg %Rec	1 1	6/2/2016 11:03:05 PM 6/2/2016 11:03:05 PM	
EPA METHOD 8015D: GASOLINE RANGE						Analy	st: NSB
Gasoline Range Organics (GRO) Surr: BFB	ND 121	4.6 80-120	s	mg/Kg %Rec	1 1	6/1/2016 5:50:41 PM 6/1/2016 5:50:41 PM	25568 25568

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - 7 Sample container temperature is out of limit as specified

Client:

Sun: DNOP

Sun: DNOP

Sun: DNOP

*	Value exceeds Maximum	Contaminant Level.
---	-----------------------	--------------------

D

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

WO#:

1605D62

06-Jun-16

Yates Petroleum Corporation

3.8

4.1

8.2

Hall Environmental Analysis Laboratory, Inc.

Hilliard B Federal 1 Profect:

OC SUMMARY REPORT

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID LCS-25600 SampType: LCS Batch ID: 25600 RunNo: 34632 Client ID: LCSS Analysis Date: 6/2/2016 SeqNo: 1068193 Units: %Rec 6/1/2016 Prep Date: **RPDLimit** SPK value SPK Ref Val %REC HighLimit %RPD LowLimit **PQL** Analyte Result

75.0

82.4

81.7

70

70

70

130

130

130

Sample ID LCS-25601 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 34632

5.000

5.000

10.00

Batch ID: 25601 Client ID: LCSS Analysis Date: 6/2/2016 SeqNo: 1068194 Units: mg/Kg Prep Date: 6/1/2016 %RPD **RPDLImit** Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Analyte 39 10 50.00 78.3 62.6 124 Diesel Range Organics (DRO)

Sample ID MB-25600 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MBLK Batch ID: 25600 RunNo: 34632 Client ID: PBS SeqNo: 1068196 Units: %Rec Analysis Date: 6/2/2016 Prep Date: 6/1/2016 SPK value SPK Ref Val %REC HighLimit **RPDLimit** %RPD Qual LowLimit PQL Analyte Result 130 10.00 87.5 70 8.7 Surr: DNOP

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID MB-25601 SampType: MBLK RunNo: 34632 Batch ID: 25601 Client ID: PBS Analysis Date: 6/2/2016 SeqNo: 1068197 Units: mg/Kg Prep Date: 6/1/2016 %RPD **RPDLimit** Qual SPK value SPK Ref Val %REC LowLimit HighLimit Result Analyte ND 10 Diesel Range Organics (DRO)

Received by OCD: 10/25/2021 12:12:53 PM

Sample Diluted Due to Matrix

Not Detected at the Reporting Limit

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Page 7 of 8

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Received by OCD: 10/25/2021 12:12:53 PM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605D62

06-Jun-16

Client:

Yates Petroleum Corporation

Project: Hilliard	B Federal 1						
Sample ID MB-25568	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 25568	RunNo: 34598					
Prep Date: 5/31/2016	Analysis Date: 6/1/2016	SeqNo: 1067457 Units: mg/Kg					
Analyte	Result PQL SPK val	lue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Gasoline Range Organics (GRO)	ND 5.0						
Surr: BFB	1100 10	112 80 120					
Sample ID LCS-25568 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 25568	RunNo: 34598					
Prep Date: 5/31/2016	Analysis Date: 6/1/2016	SeqNo: 1067458 Units: mg/Kg					
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLImit Qual					
Gasoline Range Organics (GRO)	23 5.0 25.						
Sun: BFB	1200 10	00 125 80 120 S					
Sample ID MB-25547	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 25547	RunNo: 34598					
Prep Date: 5/27/2016	Analysis Date: 6/1/2016	SeqNo: 1067478 Units: %Rec					
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLImit Qual					
Sun: BFB	1200 1 0	00 118 80 120					
Sample ID LCS-25547	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 25547	RunNo: 34598					
Prep Date: 5/27/2016	Analysis Date: 6/1/2016	SeqNo: 1067479 Units: %Rec					
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Sum: BFB	1300 10	00 127 80 120 S					

Qualifiers:

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

Analyte detected in the associated Method Blank

Page 8 of 8

ENVIRONMENTAL

ANALYSIS

LABORATORY

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

Sample Log-In Check List

Released to Imaging: 11/2/2021 1:40:47 PM

Client Name: Yates Petroleum Corpora	Work Order Number:	1605D62		ReptNo:	1
Received by/date: JA 05/27/	76				
Logged By: Anne Thome	5/27/2016 9:50:00 AM		aone Am	. ·	
Completed By: Anne Thorne Reviewed By:	5/31/2016		aone Am	_	
Chain of Custody	021-,1,1				
1. Custody seals intact on sample bottles?		Yes 🗹	No 🗆	Not Present 🗆	
2. Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present 🔲	
3. How was the sample delivered?		Courier			
<u>Log In</u>					•
4. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗆	na 🗆	
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	·
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated tes	it(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace?		Yes 🔲	No 🗆	No VOA Vials 🗹	
11. Were any sample containers received bro	oken?	Yes 📙	No 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)
13. Are matrices correctly identified on Chain	of Gustody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🗹	No 🔲		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔽	No 🗆	Checked by:	
Special Handling (if applicable)					
16. Was client notified of all discrepancies with	th this order?	Yes 🗆	No 🗆	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:	 eMail	Phone Fax	☐ In Person	
17. Additional remarks:					J
18. Cooler Information Cooler No Temp °C Condition	Séal Intact Seal No S	Seal Date .	Signed By		

Received by OCD: 10/25/2021 12:12:53 PM

Hilliard B Federal #1	Chain-of-Custody Record Yates Petroleum Corporation				X Standard	rırme: □ Rush				IA	ALL VAL	EN	HALL ENVIRONMENTAL	NO	MEN RA	A POP	_ ≿
Tel. 505-345-3076 Tel. 505-345-3076 Tel. 505-345-3077 Tel. 505-3020 Tel. 505-345-3077 Tel. 505-345-3407 Tel. 505		Project N	Project N	Project N	ame					. ≥	w.hall	envira	menta	Lcom	5		
Tel. 505-345-407 Tel. 505-3504 Tel. 505-3504 Tel. 505-3504 Tel. 505-3504 Tel. 505-3504 Tel. 505-3050 Tel. 505-	Wailing Address:					filliard B Fe	deral #1		1901 H	awkin	Ä.	Albuq	Jerrane,	MN.	37109		
Type Cariffin O# 205-2020 Amber Griffin O# 205-2020	105 South 4th Street Artesia, NM 88210 Project #:			Project #:					Tel. 50	5-345	3975	E	505-3	45-41	20		
Amber Griffin Amber Griffin Amber Griffin Amber Griffin Amber Griffin Amber Griffin C C C C C C C C C	575-513-8799 or 575-748-4111	575-513-8799 or 575-748-4111	-8799 or 575-748-4111			1RP-35	04				Ā	alysis	Reque	ise			
### 205-2020 #### 205-2020 ##### 205-2020 #################################	email or Fax#: agriffin@vatespetroleum.com Project Manager.			Project Mar	ğ	jer.						708					_
205-2020 Amber Criffin Color	JAVQC Package:					Amber Gr	iffin					3''C					
### Griffin ### Cariffin #### Cariffin ##### Cariffin ##### Cariffin ##### Cariffin ##################################	Standard □ Level 4 (Full Validation)	☐ Level 4 (Full Validation)	☐ Level 4 (Full Validation)			PO # 205-	2020 A					d'é					
Color Colo	Accreditation: Sampler:			Sampler: On Jean	178	Am Erves	iber Griffin 16							(A			(N Jo
Type	Samp	Samp	Samp	Sample Ter	ΙË	e Temperature 🛵							ep				<u>()</u>
702	Time Matrix Sample Request ID Container	Matrix Sample Request ID Con	Sample Request ID Type	Container Type and #	. 41	Preservativ e Type	HEAL-NG 100515-102						oliseq 1808				selddug 11A
702	5/25/2016 7:20 Soil 1 - Surface 1 - 4oz	1 - Surface		1 - 40Z.		lce	100-		×								-
704 X X X X X X X X X X X X X X X X X X X	5/25/2016 7:39 Soil 1-1'	1-1'		1 - 40z.		<u> </u>	202		×	-				_			
205 X X X X X X X X X X X X X X X X X X X	2 - Surface	2 - Surface		1 - 40z.	-	<u> </u>	EMZ		×					_			_
Date Time Remarks: TPH: 8015B.	5/25/2016 7:50 Soil 2 - 1' 1 - 4oz.	2-1'		1 - 40z.		Ice	h02-		×								_
Date Time Remarks: TPH: 8015B.	5/25/2016 7:57 Soil 2 - 2' 1 - 4oz.	2-2'		1 - 40z.		Ce	572		×					_			
Date Time Remarks: TPH: 8015B.	5/25/2016 8:05 Soil 2 - 3' 1 - 4oz.	2-3		1 - 40z.		lce .	702		×								
Date Time Remarks: TPH: 8015B. Date Time							•							_			
Date Time Remarks: TPH: 8015B. Date Time										-				-			-
Date Time Remarks: TPH: 8015B. 27 1							•										
Date Time Remarks: TPH: 8015B. Date Time												_		_			
Date Time Remarks: TPH: 8015B. 27 c 0456 Date Time												-				_	-
Date Time Remarks: TPH: 8015B.														-		_	
Date T	Time: Relinquished by:	Y: Receiv	Y: Receiv	Received by:	1 \	7 2	Date T		l		8015B	I	k you!				
	- 1	CAN (!!)	CAN (!!)		PA	0	9/1/12	জা									
	i vallidator p.).	ξ	ξ	Second by.													

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





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

February 25, 2016

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

FAX

RE: Hilliard B Federal 1

OrderNo.: 1602849

Released to Imaging: 11/2/2021 1:40:47 PM

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/19/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1602849-001

Client Sample ID: 1-Surface

Collection Date: 2/16/2016 10:49:00 AM

Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	: КЈН
Diesel Range Organics (DRO)	2200	96		mg/Kg	10	2/23/2016 5:02:28 PM	23859
Surr: DNOP	0	70-130	s	%Rec	10	2/23/2016 5:02:28 PM	23859
EPA METHOD 8015D: GASOLINE RAN	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/23/2016 7:24:36 PM	23866
Surr: BFB	91.3	66.2-112		%Rec	1	2/23/2016 7:24:36 PM	23866
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.048		mg/Kg	1	2/23/2016 7:24:36 PM	23866
Toluene	ND	0.048		mg/Kg	1	2/23/2016 7:24:36 PM	23866
Ethylbenzene	ND	0.048		mg/Kg	1	2/23/2016 7:24:36 PM	23866
Xylenes, Total	ND	0.095		mg/Kg	1	2/23/2016 7:24:36 PM	23866
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/23/2016 7:24:36 PM	23866

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID:

1602849-002

Client Sample ID: 1-1'

Collection Date: 2/16/2016 10:58:00 AM

Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANIC	S			,	Analyst	: КЈН
Diesel Range Organics (DRO)	2000	100		mg/Kg	10	2/24/2016 9:46:47 AM	23859
Surr: DNOP	0	70-130	s	%Rec	10	2/24/2016 9:46:47 AM	23859
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	500	49		mg/Kg	10	2/24/2016 2:29:45 PM	23866
Surr: BFB	434	66.2-112	s	%Rec	10	2/24/2016 2:29:45 PM	23866
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.049		mg/Kg	1	2/23/2016 7:48:02 PM	23866
Toluene	0.090	0.049		mg/Kg	1	2/23/2016 7:48:02 PM	23866
Ethylbenzene	ND	0.049		mg/Kg	1	2/23/2016 7:48:02 PM	23866
Xylenes, Total	2.0	0.098		mg/Kg	1	2/23/2016 7:48:02 PM	23866
Surr: 4-Bromofluorobenzene	547	80-120	s	%Rec	1	2/23/2016 7:48:02 PM	23866

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 16
- Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Analytical Report Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1602849-003

Client Sample ID: 1-2'

Collection Date: 2/16/2016 11:05:00 AM Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL (Qual U	nits	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	: KJH
Diesel Range Organics (DRO)	45	10	m	ng/Kg	1	2/23/2016 6:27:06 PM	23859
Surr: DNOP	85.2	70-130	%	6Rec	1	2/23/2016 6:27:06 PM	23859
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	m	ng/Kg	1	2/23/2016 8:11:28 PM	23866
Surr: BFB	112	66.2-112	s %	6Rec	1	2/23/2016 8:11:28 PM	23866
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.049	m	ng/Kg	1	2/23/2016 8:11:28 PM	23866
Toluene	ND	0.049	m	ng/Kg	1	2/23/2016 8:11:28 PM	23866
Ethylbenzene	ND	0.049	m	ng/Kg	1	2/23/2016 8:11:28 PM	23866
Xylenes, Total	ND	0.099	m	ng/Kg	1	2/23/2016 8:11:28 PM	23866
Surr: 4-Bromofluorobenzene	111	80-120	%	6Rec	1	2/23/2016 8:11:28 PM	23866

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 1-3'

CLIENT: Yates Petroleum Corporation
Project: Hilliard B Federal 1

Lab ID: 1602849-004 Matrix: SOIL

Collection Date: 2/16/2016 11:15:00 AM Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	: КЈН
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/23/2016 6:48:13 PM	23859
Surr: DNOP	86.7	70-130	%Rec	1	2/23/2016 6:48:13 PM	23859
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/23/2016 8:34:54 PM	23866
Surr: BFB	98.1	66.2-112	%Rec	1	2/23/2016 8:34:54 PM	23866
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	2/23/2016 8:34:54 PM	23866
Toluene	ND	0.048	mg/Kg	1	2/23/2016 8:34:54 PM	23866
Ethylbenzene	ND	0.048	mg/Kg	1	2/23/2016 8:34:54 PM	23866
Xylenes, Total	ND	0.096	mg/Kg	1	2/23/2016 8:34:54 PM	23866
Surr: 4-Bromofluorobenzene	114	80-120	%Rec	1	2/23/2016 8:34:54 PM	23866

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

- Value exceeds Maximum Contaminant Level,
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - V Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1602849-005

Client Sample ID: 2-Surface

Collection Date: 2/16/2016 10:50:00 AM

Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANIC	S				Analysi	: КЈН
Diesel Range Organics (DRO)	2200	97		mg/Kg	10	2/23/2016 7:09:08 PM	23859
Surr: DNOP	0	70-130	s	%Rec	10	2/23/2016 7:09:08 PM	23859
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4,9		mg/Kg	1	2/23/2016 8:58:28 PM	23866
Surr: BFB	98.5	66.2-112		%Rec	1	2/23/2016 8:58:28 PM	23866
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.049		mg/Kg	1	2/23/2016 8:58:28 PM	23866
Toluene	ND	0.049		mg/Kg	1	2/23/2016 8:58:28 PM	23866
Ethylbenzene	ND	0.049		mg/Kg	1	2/23/2016 8:58:28 PM	23866
Xylenes, Total	ND	0.098		mg/Kg	1	2/23/2016 8:58:28 PM	23866
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	1	2/23/2016 8:58:28 PM	23866

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

Lab ID:

1602849-006

Analytical Report Lab Order 1602849

Received Date: 2/19/2016 9:00:00 AM

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation Client Sample ID: 2-1'

Collection Date: 2/16/2016 11:27:00 AM Project: Hilliard B Federal 1

Matrix: SOIL

Result **PQL** Qual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: KJH 2/23/2016 7:51:10 PM 23859 Diesel Range Organics (DRO) 3000 mg/Kg 10 98 2/23/2016 7:51:10 PM 23859 Surr: DNOP 0 70-130 S %Rec 10 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 450 2/24/2016 2:53:20 PM 23866 Gasoline Range Organics (GRO) 48 mg/Kg Surr: BFB 379 2/24/2016 2:53:20 PM 23866 66.2-112 S %Rec **EPA METHOD 8021B: VOLATILES** Analyst: NSB 2/23/2016 9:22:00 PM 23866 Benzene ND 0.048 mg/Kg ND 0.048 2/23/2016 9:22:00 PM 23866 Toluene mg/Kg ND 0.048 mg/Kg 2/23/2016 9:22:00 PM 23866 Ethylbenzene 2/23/2016 9:22:00 PM 23866 Xylenes, Total 2.6 0.096 mg/Kg 2/23/2016 9:22:00 PM 23866 Surr: 4-Bromofluorobenzene 482 80-120 %Rec

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 16 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1602849
Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1602849-007

Client Sample ID: 2-2'

Collection Date: 2/16/2016 11:32:00 AM

Matrix: SOIL Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analys	: KJH
Diesel Range Organics (DRO)	4700	100		mg/Kg	10	2/23/2016 8:33:01 PM	23859
Surr: DNOP	0	70-130	S	%Rec	10	2/23/2016 8:33:01 PM	23859
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	: NSB
Gasoline Range Organics (GRO)	680	99		mg/Kg	20	2/24/2016 3:16:57 PM	23866
Surr: BFB	330	66.2-112	S	%Rec	20	2/24/2016 3:16:57 PM	23866
EPA METHOD 8021B: VOLATILES						Analys	: NSB
Benzene	ND	0.049		mg/Kg	1	2/23/2016 9:45:28 PM	23866
Toluene	ND	0.049		mg/Kg	1	2/23/2016 9:45:28 PM	23866
Ethylbenzene	ND	0.049		mg/Kg	1	2/23/2016 9:45:28 PM	23866
Xylenes, Total	3.5	0.099		mg/Kg	1	2/23/2016 9:45:28 PM	23866
Surr: 4-Bromofluorobenzene	704	80-120	S	%Rec	1	2/23/2016 9:45:28 PM	23866

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - V Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Hilliard B Federal 1 Project:

Lab ID: 1602849-008 Client Sample ID: 2-3'

Collection Date: 2/16/2016 11:37:00 AM

Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	: КЈН
Diesel Range Organics (DRO)	4000	96		mg/Kg	10	2/23/2016 9:14:54 PM	23859
Surr: DNOP	0	70-130	s	%Rec	10	2/23/2016 9:14:54 PM	23859
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	: NSB
Gasoline Range Organics (GRO)	450	48		mg/Kg	10	2/24/2016 3:40:33 PM	23866
Surr: BFB	371	66.2-112	s	%Rec	10	2/24/2016 3:40:33 PM	23866
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.048		mg/Kg	1	2/23/2016 10:09:01 PM	23866
Toluene	ND	0.048		mg/Kg	1	2/23/2016 10:09:01 PM	23866
Ethylbenzene	ND	0.048		mg/Kg	1	2/23/2016 10:09:01 PM	23866
Xylenes, Total	4.8	0.096		mg/Kg	1	2/23/2016 10:09:01 PM	23866
Surr: 4-Bromofluorobenzene	500	80-120	s	%Rec	1	2/23/2016 10:09:01 PM	23866

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 16
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1602849-009

Client Sample ID: 3-Surface

Collection Date: 2/16/2016 10:51:00 AM

Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analysi	: KJH
Diesel Range Organics (DRO)	240	9.8	mg/Kg	1	2/23/2016 9:56:52 PM	23859
Surr: DNOP	85.6	70-130	%Rec	1	2/23/2016 9:56:52 PM	23859
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/23/2016 10:32:29 PM	23866
Surr: BFB	105	66.2-112	%Rec	1	2/23/2016 10:32:29 PM	23866
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	2/23/2016 10:32:29 PM	23866
Toluene	ND	0.047	mg/Kg	1	2/23/2016 10:32:29 PM	23866
Ethylbenzene	ND	0.047	mg/Kg	1	2/23/2016 10:32:29 PM	23866
Xylenes, Total	ND	0.095	mg/Kg	1	2/23/2016 10:32:29 PM	23866
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	2/23/2016 10:32:29 PM	23866

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1602849-010

Client Sample ID: 3-1'

Collection Date: 2/16/2016 12:00:00 PM

Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/23/2016 10:38:47 PM	1 23859
Surr: DNOP	85.0	70-130		%Rec	1	2/23/2016 10:38:47 PM	A 23859
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/23/2016 10:55:52 PM	1 23866
Surr: BFB	97.5	66.2-112		%Rec	1	2/23/2016 10:55:52 PM	1 23866
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.047		mg/Kg	1	2/23/2016 10:55:52 PM	1 23866
Toluene	ND	0.047		mg/Kg	1	2/23/2016 10:55:52 PM	1 23866
Ethylbenzene	ND	0.047		mg/Kg	1	2/23/2016 10:55:52 PM	1 23866
Xylenes, Total	ND	0.095		mg/Kg	1	2/23/2016 10:55:52 PM	1 23866
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	2/23/2016 10:55:52 PM	1 23866

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Hilliard B Federal 1

Lab ID: 1602849-011

Client Sample ID: 3-2'

Collection Date: 2/16/2016 12:10:00 PM Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/23/2016 10:59:39 PM	A 23859
Surr: DNOP	94.1	70-130		%Rec	1	2/23/2016 10:59:39 PI	A 23859
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/24/2016 12:29:54 Al	A 23866
Surr: BFB	97.6	66.2-112		%Rec	1	2/24/2016 12:29:54 AM	A 23866
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.050		mg/Kg	1	2/24/2016 12:29:54 AM	A 23866
Toluene	ND	0.050		mg/Kg	1	2/24/2016 12:29:54 A	A 23866
Ethylbenzene	ND	0.050		mg/Kg	1	2/24/2016 12:29:54 AM	A 23866
Xylenes, Total	ND	0.099		mg/Kg	1	2/24/2016 12:29:54 AM	A 23866
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	1	2/24/2016 12:29:54 AM	A 23866

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limit Page 11 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1602849

Date Reported: 2/25/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 3-3'

Project: Hilliard B Federal 1

CLIENT: Yates Petroleum Corporation

Collection Date: 2/16/2016 12:20:00 PM

Lab ID: 1602849-012

Matrix: SOIL

Received Date: 2/19/2016 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analys	st: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/23/2016 11:20:38 P	M 23859
Surr: DNOP	96.8	70-130		%Rec	1	2/23/2016 11:20:38 P	M 23859
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2016 12:53:19 A	M 23866
Surr: BFB	94.4	66.2-112		%Rec	1	2/24/2016 12:53:19 A	M 23866
EPA METHOD 8021B: VOLATILES						Analys	st: NSB
Benzene	ND	0.049		mg/Kg	1	2/24/2016 12:53:19 A	M 23866
Toluene	ND	0.049		mg/Kg	1	2/24/2016 12:53:19 A	M 23866
Ethylbenzene	ND	0.049		mg/Kg	1	2/24/2016 12:53:19 A	M 23866
Xylenes, Total	ND	0.099		mg/Kg	1	2/24/2016 12:53:19 A	M 23866
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	2/24/2016 12:53:19 A	M 23866

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Received by OCD: 10/25/2021 12:12:53 PM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602849

25-Feb-16

Client:		etroleum Corp	orati	on							
Project:	Hilliard	l B Federal 1									
Sample ID	LCS-23882	SampTyp	e: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch II	D: 23	882	F	RunNo: 3	2326				
Prep Date:	2/23/2016	Analysis Dat	e: 2 /	23/2016	8	SeqNo: 9	88158	Units: %Re	C		
Analyte Surr: DNOP		Result 5.3	PQL	SPK value 5.000	SPK Ref Val	%REC 106	LowLimit 70	HighLlmit 130	%RPD	RPDLImit	Qual
Ouit. DNOF		0.0		0.000		100	70	100			
Sample ID	MB-23882	SampTyp	e: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch II	D: 23	882	F	RunNo: 3	2326				
Prep Date:	2/23/2016	Analysis Dat	e: 2/	23/2016	٤	SeqNo: 9	88160	Units: %Re	C		
Analyte			PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.4		10.00		94.0	70	130			
Sample ID	LCS-23859	SampTyp	e: LC	s	Tes	tCode: E	PA Method	8015M/D: DI	esel Rang	e Organics	
Client ID:	LCSS	Batch II	D: 23	859	F	RunNo: 3	2327				
Prep Date:	2/22/2016	Analysis Date	e: 2/	23/2016	5	SeqNo: 9	88166	Units: mg/K	(g		
Analyte		Result i	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
Diesel Range C	rganics (DRO)	43	10	50.00	0	86.5	65.8	136			
Surr: DNOP		4.8		5.000		95,8	70	130		· .	
Sample ID	MB-23859	SampTyp	e: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch II	D: 23	859	F	RunNo: 3	2327				
Prep Date:	2/22/2016	Analysis Date	e: 2/	23/2016	8	SeqNo: 9	88168	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	rganics (DRO)	ND	10								
Surr: DNOP		8.7		10.00		87.0	70	130			
Sample ID	LCS-23901	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch II): 23	901	F	RunNo: 3	2363				
Prep Date:	2/23/2016	Analysis Date	e: 2/	24/2016	8	SeqNo: 9	89602	Units: %Red	C		
Analyte			PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sun: DNOP		5.0		5.000		99.6	70	130			
Sample ID	MB-23901	SampTyp	e: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	PBS	Batch II): 23 !	901	F	RunNo: 3	2363				
Prep Date:	2/23/2016	Analysis Date	e: 2/	24/2016	s	SeqNo: 9	89603	Units: %Red	3		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded

9.7

10.00

- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В

70

130

Page 13 of 16

Value above quantitation range E

97.0

- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Received by OCD: 10/25/2021 12:12:53 PM

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602849

25-Feb-16

Client:

Yates Petroleum Corporation

Project:

Hilliard B Federal 1

Sample	ID	MB-2386
--------	----	---------

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 23867

RunNo: 32332

Prep Date: 2/22/2016

Analysis Date: 2/23/2016

Units: %Rec

SeqNo: 988918

Analyte

Result

1000

%REC LowLimit HighLimit

920

SPK value SPK Ref Val

112

RPDLimit Qual

Surr: BFB

Sample ID LCS-23867

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Prep Date: 2/22/2016 Batch ID: 23867

RunNo: 32332

91.8

Units: %Rec

112

Analyte

Result

Analysis Date: 2/23/2016

SeqNo: 988919

HighLimit

RPDLImit

Qual

Surr: BFB

Client ID:

990

PQL

SPK value SPK Ref Val %REC 99.2

LowLimit 66.2

66.2

%RPD

%RPD

Sample ID MB-23866

SampType: MBLK PBS

Batch ID: 23866

1000

RunNo: 32332

Prep Date: 2/22/2016

Analysis Date: 2/23/2016

SegNo: 988952

Units: mg/Kg

RPDLimit Qual

Gasoline Range Organics (GRO)

PQL Result

SampType: LCS

Batch ID: 23866

Analysis Date: 2/23/2016

PQL

5.0

SPK value SPK Ref Val %REC

LowLimit HighLimit

66.2

66.2

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Sun: BFB

ND 950 5.0 1000

95.4

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 32332 SeqNo: 988963

Units: mg/Kg

112

Analyte Gasoline Range Organics (GRO) Surr: BFB

29 1100

Result

SPK value SPK Ref Val 25.00 1000

SPK value SPK Ref Val %REC

%REC LowLimit 79.6 114

HighLimit 122

112

RPDLImit

%RPD Qual S

Sample ID MB-23887

Prep Date: 2/23/2016

Client ID: PBS

Client ID: LCSS

Sample ID LCS-23866

Prep Date: 2/22/2016

Client ID: LCSS

SampType: MBLK

Batch ID: 23887

Analysis Date: 2/24/2016

PQL

TestCode: EPA Method 8015D: Gasoline Range

SeqNo: 989970

94.1

113

RunNo: 32377

Units: %Rec HighLimit

112

%RPD **RPDLImit** Qual

Analyte Surr: BFB

Sample ID LCS-23887

SampType: LCS

Batch ID: 23887

1000

1000

TestCode: EPA Method 8015D: Gasoline Range RunNo: 32377

LowLimit

66.2

66.2

Qual

Prep Date: Analyte Surr: BFB

Result 1000

Result

940

Analysis Date: 2/24/2016

SPK value SPK Ref Val %REC

SeqNo: 989971

102

LowLimit

Units: %Rec

%RPD **RPDLimit** HighLimit 112

Qualifiers: Value exceeds Maximum Contaminant Level.

Not Detected at the Reporting Limit

Sample Diluted Due to Matrix D

2/23/2016

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Analyte detected below quantitation limits J
- р Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified

Page 14 of 16

Received by OCD: 10/25/2021 12:12:53 PM

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602849

25-Feb-16

Qual

Qual

Qual

Client:

Yates Petroleum Corporation

Project:

Hilliard B Federal 1

Sample	ID	MB-2386
--------	----	---------

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS

Batch ID: 23867

RunNo: 32332

Prep Date: 2/22/2016

Analysis Date: 2/23/2016

SeqNo: 989011

Units: %Rec

Analyte

Result

SPK Ref Val

SPK value %REC PQL 110 Surr: 4-Bromofluorobenzene 1.1 1.000

HighLImit LowLimit 80 120

Sample ID LCS-23867

SampType: LCS

TestCode: EPA Method 8021B: Volatiles RunNo: 32332

Prep Date: 2/22/2016

Batch ID: 23867

SeqNo: 989012

Units: %Rec

RPDLimit

%RPD

Analysis Date: 2/23/2016 Result PQL

%REC SPK value SPK Ref Val

LowLlmit HighLimit

RPDLimit %RPD

Surr: 4-Bromofluorobenzene

1.2

1.000 120

SPK value SPK Ref Val

80 120 Qual S

Client ID: LCSS

Sample ID MB-23866 SampType: MBLK Batch ID: 23866

TestCode: EPA Method 8021B: Volatiles RunNo: 32332

Client ID: Prep Date: 2/22/2016

PBS

Surr: 4-Bromofluorobenzene

Analysis Date: 2/23/2016

SeqNo: 989021

Units: mg/Kg HighLimit

%RPD **RPDLimit**

RPDLimit

Analyte Benzene

PQL Result ND 0.050

ND 0.050 Toluene ND 0.050 Ethylbenzene ND Xylenes, Total 0.10

1.000

113

%REC LowLimit

120

Sample ID LCS-23866 Client ID: LCSS

SampType: LCS Batch ID: 23866 TestCode: EPA Method 8021B: Volatiles

RunNo: 32332

Prep Date: 2/22/2016 Analyte Benzene Toluene

Analysis Date: 2/23/2016 **PQL** Result

1.1

SeqNo: 989022 %REC

Units: mg/Kg %RPD

SPK value SPK Ref Val LowLimit **HighLimit** 1.000 120 0.050 105 80 1.1 0 80 120 1.0 0.050 1.000 0 105 0.050 0 106 80 120 Ethylbenzene 1.1 1.000 120 Xylenes, Total 3.2 0.10 3.000 0 108 80 80 120 1.000 115 Surr: 4-Bromofluorobenzene 1.1

Sample ID MB-23887

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Prep Date: 2/23/2016 Batch ID: 23887

RunNo: 32377

Units: %Rec

Analyte

Result

Analysis Date: 2/24/2016

SeqNo: 990007

80

1.1

1.000

%REC SPK value SPK Ref Val 111

LowLimit

HighLimit

120

RPDLimit %RPD Qual

Surr: 4-Bromofluorobenzene

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Value above quantitation range
- J
- P Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified

Analyte detected below quantitation limits Page 15 of 16

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602849 25-Feb-16

Client:

Yates Petroleum Corporation

Project:

Hilliard B Federal 1

Sample ID LCS-23887

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS

Batch ID: 23887

RunNo: 32377

Prep Date: 2/23/2016

Analysis Date: 2/24/2016

SeqNo: 990008

Units: %Rec

Analyte

Result **PQL**

SPK value SPK Ref Val

HighLimit 120

Qual

Surr: 4-Bromofluorobenzene

1.000

%REC

80

%RPD

1.2

RPDLimit

Received by OCD: 10/25/2021 12:12:53 PM

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Value above quantitation range Е

Analyte detected below quantitation limits

Page 16 of 16

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Qualifiers:

RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Cilent Name: Yates Petroleum Corpora Work Order Number:	1602849		ReptNo: 1	
Received by/datex A 03 19 10				
Logged By: Ashley Gallegos 2/19/2016 9:00:00 AM		A		
Completed By: Ashley Gallegos 2/19/2016 3:28:04 PM		A		
Reviewed By: A 02/22/16		V		
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present 🗹	
2. is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of >0° C to 5.0°C	Yes 🗹	No 🗆	NA □	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes 🗆	No 🗹	na 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes 🗆	No 🗹	# of preserved	
	Yes 🗹	No 🗆	bottles checked for pH:	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	165 1	(NO L		>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	•
14. Is it clear what analyses were requested?	Yes 🗹	No 🔲		
15. Were all holding times able to be met?	Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)			4	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗆	No 🗆	NA 🗹	1
Person Notified: Date				
By Whom: Via:	eMall] Phone [Fax	☐ In Person	
Regarding:				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	l	
1 4.1 Good Yes			1	•

Received by OCD: 10/25/2021 12:12:53 PM

Chain-of-Custody Recognition	Tum-Around Time:	m Corporation X Standard		Hilliard B Federal #1 4901 Hawk	Project #:	48-4111 1RP-3504 Analy	Project Manager.	Amber Griffin	9) l	Sampler: Amber Griffin Ho F F B C F F B C F F F B C F F F F F F F	A		Sample Request ID	1-Surface 1-4oz ice - OO x x	1-1' 1-40Z, 108 - 00\textsquare x x x x	. 1-2' 1-40Z 10e -0.003 X X X	Ice	2-Surface 1-4oz lice -005 X X	2-1' 1-40z ice	2-2' 1-40z Ice	2-3' 1-4oz lœ ~006 x x	3-Surface 1-4oz Ice -000 x x	3-1' 1-40z ice X X X	3-2' 1-40z Ice OI X X	Shed by: Received by: Receiv	Received by: Date
Address: Address: Address: Address: Address: Address: Address: Address: AP D (Type) D (T	Chain-of-Custody Record Tun	Yates Petroleum Corporation	Proj			575-513-8799 or 575-748-4111			☐ Level 4 (Full Validation)			San	Sample Request ID		-1:	-, 1-2	1-3'	4							60.100	
	Chain-of-Cu			y Address:	outh 4th Street Ari				ndard			C (Type)	Ттте			11:05 Soil-									 	11me:

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



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

January 20, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: HILLARD B FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 01/16/15 12:05.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keene

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

Sincerely,

Celey D. Keene

Received by OCD: 10/25/2021 12:12:53 PM

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:

01/16/2015

Sampling Date:

01/15/2015

Reported:

01/20/2015

Sampling Type:

Soil

Project Name:

HILLARD B FEDERAL #1

Sampling Condition:

Cool & Intact

Project Number:

1RP-3504 (1/14/15 RELEASE)

Sample Received By:

Jodi Henson

Project Location:

CHAVES COUNTY

Sample ID: COMP 6" (H500161-01)

Sample ID: COME O (11200101									
BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.91	1.00	01/20/2015	ND	1.69	84.6	2.00	4.80	
Toluene*	33.1	1.00	01/20/2015	ND	1.71	85.5	2.00	4.41	
Ethylbenzene*	15.5	1.00	01/20/2015	ND	1.68	83.8	2.00	4.10	
Total Xylenes*	38.6	3.00	01/20/2015	ND	5.00	83.3	6.00	5.01	
Total BTEX	93.2	6.00	01/20/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	103 %	61-154							
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1540	50.0	01/17/2015	ND	195	97.5	200	0.878	
DRO >C10-C28	3260 (%DD	50.0	01/17/2015	ND	207	103	200	3.71	
Surrogate: 1-Chlorooctane	164 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	153 %	6 52.1-17	5						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene ..



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

Analytical Results For:

YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

01/16/2015

Sampling Date:

01/15/2015

Reported:

01/20/2015

Sampling Type:

Soil

Project Name:

HILLARD B FEDERAL #1

Sampling Condition:

Cool & Intact

Project Number:

1RP-3504 (1/14/15 RELEASE)

Sample Received By:

Project Location:

CHAVES COUNTY

Jodi Henson

Sample ID: COMP 1' (H500161-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	22.7	2.00	01/20/2015	ND	1.69	84.6	2.00	4.80	
Toluene*	123	2.00	01/20/2015	ND	1.71	85.5	2.00	4.41	
Ethylbenzene*	54.9	2.00	01/20/2015	ND	1.68	83.8	2.00	4.10	
Total Xylenes*	131	6.00	01/20/2015	ND	5.00	83.3	6.00	5.01	
Total BTEX	332	12.0	01/20/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	106 %	6 61-154	E.						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2890	50.0	01/17/2015	ND	195	97.5	200	0.878	
DRO >C10-C28	5270 8160	50.0	01/17/2015	ND	207	103	200	3.71	
Surrogate: 1-Chlorooctane	202 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	168 9	6 52.1-17	6						

Cardinal Laboratories

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*=Accredited Analyte

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Celeg Ditreene

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

Received by OCD: 10/25/2021 12:12:53 PM

*=Accredited Analyte

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Celeg D. Keena

Celey D. Keene, Lab Director/Quality Manager

Relinquished by:

Date

Received by ELOT:

Date

Time

Temperature Upon Receipt:

K	6
A	
A. Als	

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Project Manager:

Amber Cannon

Company Name

Yates Petroleum Corporation

Telephone No: City/State/Zip:

575-748-4111 or 575-513-8799

Sampler Signature:

Company Address: 105 South 4th Street

Artesia, NM 88210

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

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70,3	0 ‡	Project Loc:	Project #:	Project Name:
203-2020	205-2020	Chaves County	1RP-3504 (1/4/15 Release)	Hilliard B Federal #1

Page 5 of 5

					nha Cannon
					e-mail:
dolid	Preservation & # of Containers Matrix				acannon@yatespetroleum.con
80 1006 Ny)	151. Se	TOTAL:	TCLP:	Analyze For:	B
le) 24,	48,	72 h	18	_	

Report Format:

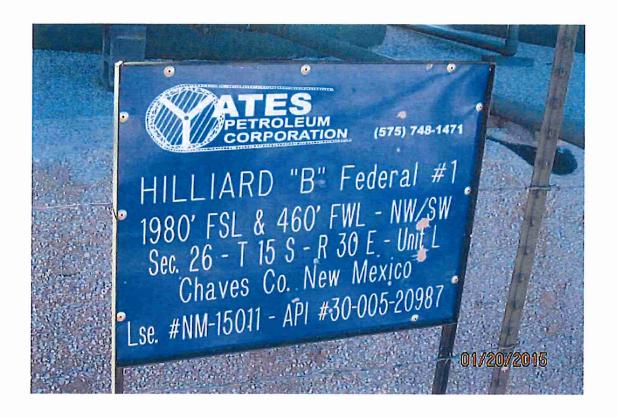
× Standard

TRRP

NPDES

Standard TAT

ORDER #: (lab use only) Special Instructions: Relinquished by: Relinquished by: AB # (lab use only) mount FIELD CODE Comp 1' TPH: 8015B, BTEX: 8021B. Date Beginning Depth **Ending Dopth** 1/15/2015 1/15/2015 Please show BTEX results as mg/kg. **Date Sampled** 1:15 PM 1:00 PM Time Sampled ield Fillered Total #, of Containers lce HNO₃ HCI i hank you. H₂SO₄ NaOH Na₂S₂O₃ None Other (Specify) 6 DW=Drinking Water SL=Slu ഗ × TPH: 418.1 8015M TX 1005 VOCs Free of Headspace?
Labels on container(s)
Custody seals on cooler(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep. ?
by Courier? UPS DHL Cations (Ca, Mg, Na, K) Laboratory Comments: Sample Containers Infact? Anions (CI, SO4, Alkalini SAR/ESP/CEC Metals: As Ag Ba Cd Cr Volatiles Semiyolatiles BTEX 802105030 or BT RCI N.O.R.M. Chlorides SAR RUSH TAT (Pre-Schedu







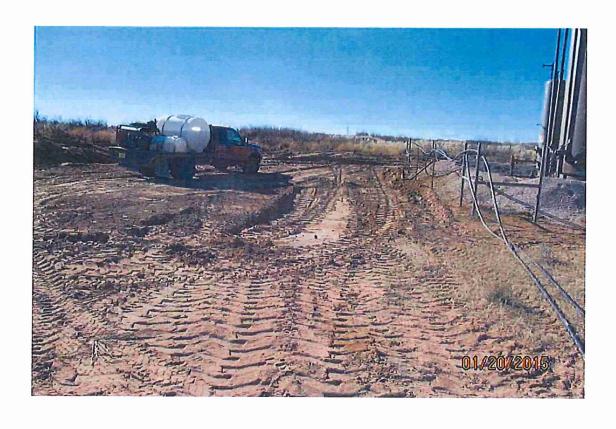














District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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 57681

CONDITIONS

Operator:	OGRID:	
EOG RESOURCES INC	7377	
P.O. Box 2267	Action Number:	
Midland, TX 79702	57681	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

CONDITIONS

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