<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 811 S. First St., Artesia, NM 88210 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	NJMW1315048005
District RP	2RP-1667
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party EOG Resources, Inc.		OGRID 7	377			
Contact Name Chase Settle			Contact T	elephone 575-7	748-1471	
Contact ema	<sup>il</sup> Chase_	Settle@eogre	sources.com	Incident #	NJMW131504800	95
Contact mail	ing address	104 S. 4th Str	eet, Artesia, NM	88210		
			Location of		ource	
Latitude 32	.72988		 (NAD 83 in decimal	Longitude degrees to 5 deci	104.39539 mal places)	
Site Name Pe	enasco W	ater Line (near	Kent BSK #1H)	Site Type	Water Line	
		05/15/2013		API# 30-0	15-40161	
Unit Letter	Section	Township	Range	Cour	ntv	
Р	20	18S	26E	Eddy		
☐ Crude Oil		l(s) Released (Select al Volume Release Volume Release			justification for the	vered (bbls) 8
Is the concentration of dissolved chlorid produced water >10,000 mg/l?		de in the	X Yes No			
Condensa		Volume Release			Volume Recov	vered (bbls)
☐ Natural G	Natural Gas Volume Released (Mcf)			Volume Recov	vered (Mcf)	
Other (describe) Volume/Weight Released (provide units)		ts)	Volume/Weigl	ht Recovered (provide units)		
step	ase refer to s. EOG R	esources is sul	_	via the nev		of release and immediate action ally close out this incident. All



	The state of the s
Incident ID	NJMW1315048005
District RP	2RP-1667
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respo	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate no	lotice given to the OCD? By whom? To wl	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	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 been stopped.	
	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
•	ecoverable materials have been removed an	
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Chase	Settle	Title: Rep Safety & Environmental Sr
Signature: Chan	Pettlo	Date: 10/11/2021
email: Chase_Settle	@eogresources.com	Telephone: 575-748-1471
OCD Only		
Received by:		Date:

Received by OCD: 10/13/2021 4:13:52 PM



Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

Laboratory data including chain of custody

# State of New Mexico Oil Conservation Division

Incident ID	NJMW1315048005
	-
District RP	2RP-1667
Facility ID	
Application ID	

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ☐ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No	
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
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 courses and significant watercourses within 1/2 mile of the lateral extents of the release		

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation Dlan. 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 39.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



Incident ID	NJMW1315048005
District RP	2RP-1667
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 noti public health or the environment. The acceptance of a C-141 report by the Called to adequately investigate and remediate contamination that pose a three addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:



Incident ID	NJMW1315048005
District RP	2RP-1667
Facility ID	
Application ID	

Released to Imaging: 10/20/2021 2:50:13 PM

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	included in the plan.		
Detailed description of proposed remediation technique  Scaled sitemap with GPS coordinates showing delineation points  Estimated volume of material to be remediated  Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC  Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)			
Deferral Requests Only: Each of the following items must be conjugated	firmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health,	the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:	Title:		
Signature:	Date:		
email:	Telephone:		
OCD Only			
<u>ocb only</u>			
Received by:	Date:		
Approved	Approval		
Signature: I	Date:		



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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Incident ID	NJMW1315048005
District RP	2RP-1667
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC D	vistrict 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 and regulations all operators are required to report and/or file certain remay endanger public health or the environment. The acceptance of a C should their operations have failed to adequately investigate and remechuman health or the environment. In addition, OCD acceptance of a C compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conditaccordance with 19.15.29.13 NMAC including notification to the OCI.	C-141 report by the OCD does not relieve the operator of liability liate contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for ns. The responsible party acknowledges they must substantially tions that existed prior to the release or their final land use in
Printed Name: Chase Settle	Title: Rep Safety and Environmental Sr
Signature: The South D	ate: 10/11/2021
email: Chase_Settle@eogresources.com To	elephone: <u>575-748-1471</u>
OCD Only	
Received by:	Date:
Printed Name: Bradford Billings	Title: Envi.Spec.A
NOTE: Proceed with vent removal and agreed to 4 foot exc	avation, and submit report thereof.



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

EOG Y Resources, Inc.

Closure Report

Penasco Water Line (near Kent BSK #1H)

30-015-40161

Section 20, T18S-R26E

**Eddy County, New Mexico** 

**December 16, 2019** 

2RP-1667



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#### I. Background

On May 15, 2013, EOG Resources, Inc. (then Yates Petroleum Corporation) submitted to the NMOCD District II office a Form C-141 for the release of 15 B/PW with 8 B/PW recovered. The affected area is approximately 8' X 15'. The release was caused by wear and age of a pvc waterline. A vacuum truck was dispatched to recover the remaining produced water. The line was repaired and contaminated soils were scraped up and disposed at an approved facility.

The YPC Environmental representative at that time met with Mike Bratcher/NMOCD who requested delineation of the area (8/13/2013) a track-hoe which could only reach a depth of 15 feet and could not sample deeper because of a hardpan caliche layer. An onsite meeting on September 25, 2013 between YPC and NMOCD to discuss safety concerns with delineation sampling/excavation work with the electrical power lines directly over the site. NMOCD recommended to proceed with work as safely as practicable.

M. Bratcher requested core rig sampling. On January 17, 2014, a Talon coring unit was on site, cored S-1 to 52', encountered water at 50'. Installed pvc casing, measured static water levels between 49.1' to 49'8' (during pumping and recharge phase). S-2 was cored to 40', no water encountered. It was believed water to be from release perched on top of clay layer. Meeting with YPC & M. Bratcher (1/27/2014) regarding water pocket, M. Bratcher requested another bore hole 100 yards upgradiant to rule out a water table. It was agreed by both parties to install vent pipes to reduce the BTEX concentrations and excavate contaminated soils to 4' below surface. It was agreed by both parties that YPC would bore upgradiant before moving on to venting and YPC would not excavated contaminated soils until vent tubes were removed. Talon bored exploratory hole (2/6/2014), to determine if ground water existed at 50'. Soil was dry for entire length of bore. M. Bratcher was contacted to confirm no water was present, verbal permission was given to plug and backfill exploratory well bore. YPC met with SESI, discussed installation of passive well system.

On November 20, 2014, SESI used Geoprobe to core two vent wells (3 cores per well), installed 15' of vent pipe per the 3 cores each.

Began monitoring vent wells monthly.

#### II. Description of all remedial actions and closure

On January 2015, Yates Petroleum Corporation began sampling vent wells with a handheld PID meter. Vent wells were capped 24 hours prior to sampling, results are included in Figure 4. On October 12, 2018, now as EOG Resources Inc., EOG began treating the vent wells with Liquid Remediact.

Liquid Remediact™ is an active mixture of hydrocarbon-oxidizing, naturally occurring, single-celled micro-organisms with a "bio-surface cleaning agent" and water. It is specially formulated to be safe, environmentally enhancing and effective. Liquid Remediact™ is highly concentrated. This product must be mixed in a ratio of 10 parts water to 1-part Liquid Remediact™.

EOG began to see significate reduction in volatiles when measured with the PID meter (Figure 5) until July 2019. On July 25, 2019, EOG modified the Remediact treatments with the addition of an additive named HC100 (This is our general use product for the bioremediation of soil and ground water hydrocarbon contamination. This formula was developed to solve situations that demand minimal disruption to surrounding environments while maintaining economic feasibility).



Steps involved in the sampling and bioremediation are as follows (Figure 7):

Cap vent wells (24 hours before PID sampling).

Purge well for ten (10) minutes.

Sample well for 10 minutes.

Begin treatment process by gravity feeding approximately 10 - 15 gallons of Remediact solution into each core (3) of the two (2) vent wells.

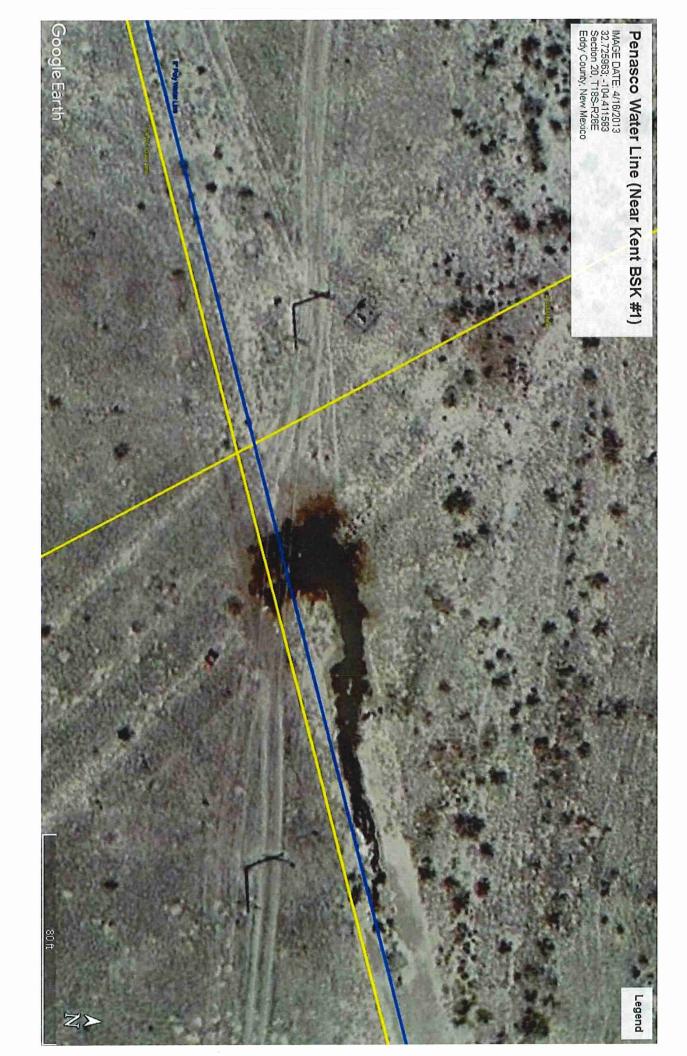
Process repeats when next PID sampling occurs.

EOG Resources, Inc. will be requesting closure the Penasco Water Line (near Kent BSK #1H), 2RP-1667, once closure is approved, EOG will as it was agreed by both parties (YPC & NMOCD) to excavate contaminated soils to 4' below surface. It was agreed by both parties that EOG (formerly YPC) would not excavated contaminated soils until vent tubes were removed.



# Figure 1

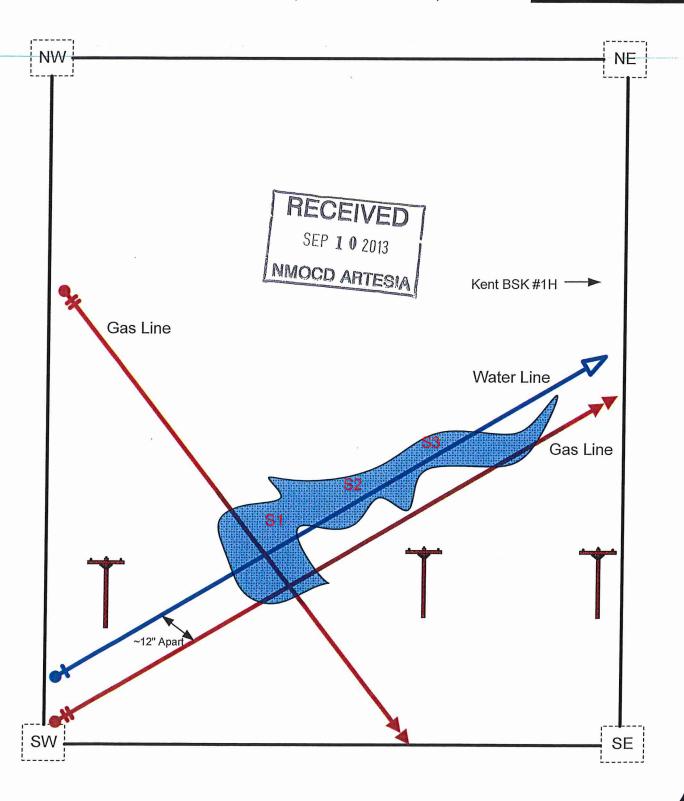
**Scaled Site Map and Sampling Diagram** 

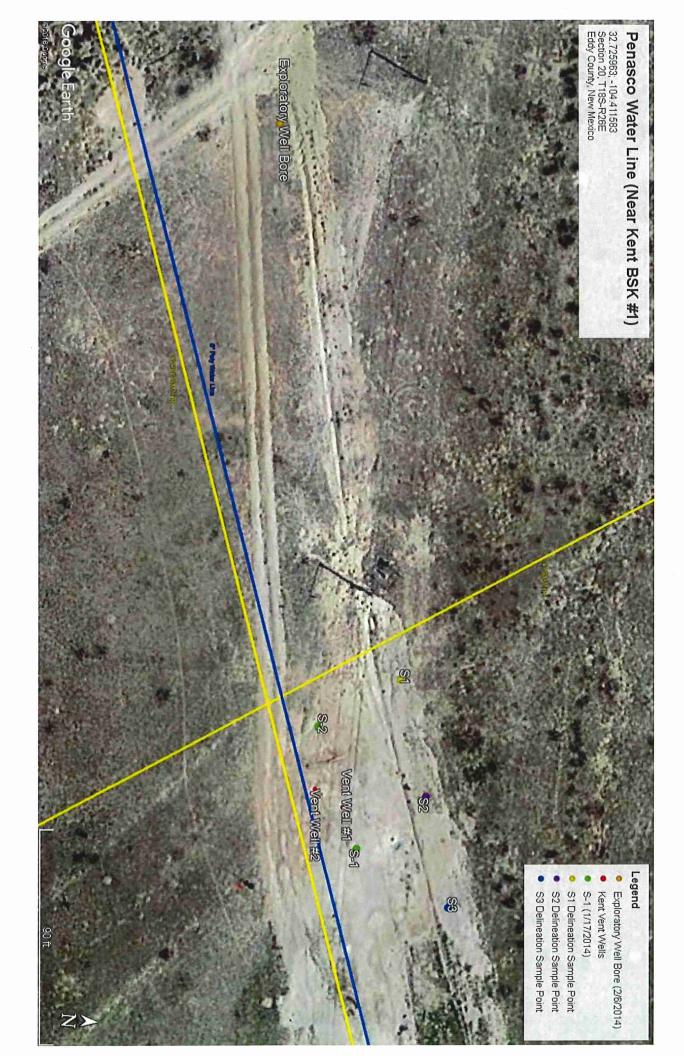


# YATES PETROLEUM CORPORATION

Tuesday, June 25, 2013

Penasco Water Line (near Kent BSK #1H)







# Figure 2 Photographs of the site



















# Figure 3

Laboratory analysis of initial/track-hoe and core rig sampling

# Penasco Water Line (nearest location: Kent BSK #1H)

Analytical Report- H301320	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S1	5/31/2013	1'	783	7630	500		7730
S1	5/31/2013	. 3'	823	12000	813		9330
S1	5/31/2013	5'	539	6530	549		7460
S2	5/31/2013	1'	1080	10800	674		5330
S2	5/31/2013	3'	877	9330	664		8660
S2	5/31/2013	5'	668	8800	722		8660
S3	5/31/2013	1'	14.9	ND	ND		10500
S3	5/31/2013	3'	0.592	ND	ND		8930
S3	5/31/2013	5'	ND	ND	ND		12300

Site Ranking isn (0). Depth to Ground Water >100' (125', per Sec. 12, T18S-R26E, per NMOSE ).

All results are ppm.Chlorides for documentation.

Released: 15 B/PW; Recovered: 8 B/PW. Release Date: 5/15/2013





June 12, 2013

**LUPE CARRASCO** YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: PENASCO WATER LINE (NEAR KENT BSK #1H)

Enclosed are the results of analyses for samples received by the laboratory on 06/07/13 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keens

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received:

06/07/2013

Sampling Date:

05/31/2013

Reported:

06/12/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1 - 1 (H301320-01)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	44.9	1.00	06/12/2013	ND	1.83	91.5	2.00	7.16	
Toluene*	327	1.00	06/12/2013	ND	1.93	96.4	2.00	7.07	
Ethylbenzene*	81.1	1.00	06/12/2013	ND	2.04	102	2.00	7.83	
Total Xylenes*	330	3.00	06/12/2013	ND	6.17	103	6.00	7.59	
Total BTEX	783	6.00	06/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	06/11/2013	ND	400	100	400	3.92	
TPH 8015M	mg/l	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	7630	50.0	06/07/2013	ND	199	99.6	200	2.79	
DRO >C10-C28	500	50.0	06/07/2013	ND	209	104	200	5.01	
Surrogate: 1-Chlorooctane	180 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	117 %	63.6-15	4						

#### Cardinal Laboratories

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\*=Accredited Analyte

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

Celey D. Keene





#### Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635

Fax To:

Received:

06/07/2013

Sampling Date:

05/31/2013

Reported:

06/12/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1 - 3 (H301320-02)

BTEX 8021B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	83.1	1.00	06/12/2013	ND	1.83	91.5	2.00	7.16	
Toluene*	374	1.00	06/12/2013	ND	1.93	96.4	2.00	7.07	
Ethylbenzene*	73.5	1.00	06/12/2013	ND	2.04	102	2.00	7.83	
Total Xylenes*	292	3.00	06/12/2013	ND	6.17	103	6.00	7.59	
Total BTEX	823	6.00	06/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	06/11/2013	ND	400	100	400	3.92	
TPH 8015M	mg/l	кg	Analyze	d By: MS	1				S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12000	50.0	06/07/2013	ND	199	99.6	200	2.79	
DRO >C10-C28	813	50.0	06/07/2013	ND	209	104	200	5.01	
Surrogate: 1-Chlorooctane	147 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	123 %	63.6-15-	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celen Keine



#### Analytical Results For:

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

Received:

06/07/2013

Sampling Date:

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Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Number:
Project Location:

NOT GIVEN

Sample ID: S1 - 5 (H301320-03)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	29.8	1.00	06/12/2013	ND	1.83	91.5	2.00	7.16	
Toluene*	248	1.00	06/12/2013	ND	1.93	96.4	2.00	7.07	
Ethylbenzene*	52.6	1.00	06/12/2013	ND	2.04	102	2.00	7.83	
Total Xylenes*	209	3.00	06/12/2013	ND	6.17	103	6.00	7.59	
Total BTEX	539	6.00	06/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	06/11/2013	ND	400	100	400	3.92	
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	6530	50.0	06/07/2013	ND	199	99.6	200	2.79	
DRO >C10-C28	549	50.0	06/07/2013	ND	209	104	200	5.01	
Surrogate: 1-Chlorooctane	168 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	119 9	63.6-15	4						

Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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Celego Keine





#### Analytical Results For:

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

Received:

06/07/2013

Sampling Date:

05/31/2013

Reported:

06/12/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Project Number:

103-163

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2 - 1 (H301320-04)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	77.3	1.00	06/12/2013	ND	1.83	91.5	2.00	7.16	
Toluene*	472	1.00	06/12/2013	ND	1.93	96.4	2.00	7.07	
Ethylbenzene*	110	1.00	06/12/2013	ND	2.04	102	2.00	7.83	
Total Xylenes*	422	3.00	06/12/2013	ND	6.17	103	6.00	7.59	
Total BTEX	1080	6.00	06/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 89.4-12	6						
Chloride, SM4500CI-B	oride, SM4500Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	06/11/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS				3.	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10800	50.0	06/07/2013	ND	199	99.6	200	2.79	
DRO >C10-C28	674	50.0	06/07/2013	ND	209	104	200	5.01	
Surrogate: 1-Chlorooctane	134 %	65.2-14	0	-					
Surrogate: 1-Chlorooctadecane	116%	63.6-15	4						

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#### Analytical Results For:

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

06/07/2013

Sampling Date: 05/31/2013 Sampling Type: Soil

Reported: 06/12/2013
Project Name: PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

Received:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2 - 3 (H301320-05)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	46.4	1.00	06/12/2013	ND	1.83	91.5	2.00	7.16	
Toluene*	384	1.00	06/12/2013	ND	1.93	96.4	2.00	7.07	
Ethylbenzene*	91.4	1.00	06/12/2013	ND	2.04	102	2.00	7.83	
Total Xylenes*	355	3.00	06/12/2013	ND	6.17	103	6.00	7.59	
Total BTEX	877	6.00	06/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	06/11/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	9330	50.0	06/07/2013	ND	199	99.6	200	2.79	
DRO >C10-C28	664	50.0	06/07/2013	ND	209	104	200	5.01	
Surrogate: 1-Chlorooctane	134 %	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 %	63.6-15	4						

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#### Analytical Results For:

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

Received:

06/07/2013

Sampling Date:

05/31/2013

Reported:

06/12/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2 - 5 (H301320-06)

BTEX 8021B	mg/	'kg	Analyze	ed By: AP					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	62.7	1.00	06/12/2013	ND	1.83	91.5	2.00	7.16	
Toluene*	295	1.00	06/12/2013	ND	1.93	96.4	2.00	7.07	
Ethylbenzene*	63.0	1.00	06/12/2013	ND	2.04	102	2.00	7.83	
Total Xylenes*	247	3.00	06/12/2013	ND	6.17	103	6.00	7.59	
Total BTEX	668	6.00	06/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B mg/kg		kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	06/11/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8800	50.0	06/07/2013	ND	199	99.6	200	2.79	
DRO >C10-C28	722	50.0	06/07/2013	ND	209	104	200	5.01	
Surrogate: 1-Chlorooctane	182 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	119 %	63.6-15	4						

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#### Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635

Fax To:

Sampling Date:

05/31/2013

Received: Reported: 06/07/2013 06/12/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

103-163

NOT GIVEN Project Location:

Sample ID: S3 - 1 (H301320-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.083	0.050	06/11/2013	ND	1.83	91.5	2.00	7.16	
Toluene*	1.69	0.050	06/11/2013	ND	1.93	96.4	2.00	7.07	
Ethylbenzene*	1.92	0.050	06/11/2013	ND	2.04	102	2.00	7.83	
Total Xylenes*	11.2	0.150	06/11/2013	ND	6.17	103	6.00	7.59	
Total BTEX	14.9	0.300	06/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	134 9	6 89.4-12	6						
Chloride, SM4500Cl-B mg/kg		kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	06/11/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2013	ND	216	108	200	3.26	
DRO >C10-C28	<50.0	50.0	06/11/2013	ND	218	109	200	0.608	
Surrogate: 1-Chlorooctane	93.7 5	65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.75	63.6-15	4						

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#### Analytical Results For:

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

Received:

06/07/2013

Sampling Date:

05/31/2013

Reported:

06/12/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Number:
Project Location:

NOT GIVEN

Sample ID: S3 - 3 (H301320-08)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2013	ND	1.83	91.5	2.00	7.16	
Toluene*	0.097	0.050	06/11/2013	ND	1.93	96.4	2.00	7.07	
Ethylbenzene*	0.053	0.050	06/11/2013	ND	2.04	102	2.00	7.83	
Total Xylenes*	0.442	0.150	06/11/2013	ND	6.17	103	6.00	7.59	
Total BTEX	0.592	0.300	06/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	6 89.4-12	6						
Chloride, SM4500Cl-B		kg	Analyze	d By: AP		V-1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	06/11/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2013	ND	216	108	200	3.26	
DRO >C10-C28	<50.0	50.0	06/11/2013	ND	218	109	200	0.608	
Surrogate: 1-Chlorooctane	105 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 %	63.6-15	4			<i>9</i> .			

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#### Analytical Results For:

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

Received:

06/07/2013

Sampling Date:

05/31/2013

Reported:

06/12/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S3 - 5 (H301320-09)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2013	ND	1.83	91.5	2.00	7.16	
Toluene*	0.055	0.050	06/11/2013	ND	1.93	96.4	2.00	7.07	
Ethylbenzene*	<0.050	0.050	06/11/2013	ND	2.04	102	2.00	7.83	
Total Xylenes*	<0.150	0.150	06/11/2013	ND	6.17	103	6.00	7.59	
Total BTEX	<0.300	0.300	06/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	6 89.4-12	6						
Chloride, SM4500Cl-B mg/kg		kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	06/11/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/11/2013	ND	216	108	200	3.26	
DRO >C10-C28	<50.0	50.0	06/11/2013	ND	218	109	200	0.608	
Surrogate: 1-Chlorooctane	105 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.4 9	63.6-15	4						

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#### **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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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Celeg & Keene

Relinquished by:

Date

lime

Received by ELOT

Time

Relinquished by:



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

Project Manager:

Lupe Carrasco

Comp: (505) 393-2326 Yates Petroleum Corporation

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

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		Pa	ge 12 of	12

LAB # (låb use only)	OKUEK#	環境は	ab use o					
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RUSH TAT (Pre-Sci Standard TAT

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Special Instructions:

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S2-5

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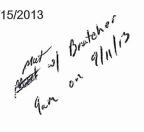
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# Penasco Water Line (nearest location: Kent BSK #1H)

Analytical Report- H301320	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S1	5/31/2013 <sup>-</sup>	1'	783	7630	500	8130	7730
S1	5/31/2013	3'	823	12000	813	12813	9330
S1	5/31/2013	5'	539	6530	549	7079	7460
S1	6/26/2013	7'	677	8210	705	8915	16400
S1	6/26/2013	9'	643	7030	615	7645	12400
S1	8/12/2013	11'	294	3430	313	3743	10400
S1	8/12/2013	12'	182	927	144	1071	6400
S1	8/12/2013	13'	53	658	117	775	7440
S1	8/13/2013	15'	235	1300	165	1465	6000
S1	8/13/2013	16'	156	1170	173	1343	5520
S2	5/31/2013	1'	1080	10800	674	11474	5330
S2	5/31/2013	3'	877	9330	664	9994	8660
S2	5/31/2013	5'	668	8800	722	9522	8660
S2	6/26/2013	7'	705	16500	965	17465	20400
S2	6/26/2013	9'	461	6330	380	6710	9800
S2	6/26/2013	10'	226	1820	212	2032	8200
S2	8/13/2013	11'	544	3840	133	3973	8560
S2	8/13/2013	13'	417	2660	88.7	2748.7	8240
S2	8/13/2013	15'	157	568	45.9	613.9	6160
S3	5/31/2013	1'	14.9	ND	ND	0	10500
\$3	5/31/2013	3'	0.592	ND	ND	0	8930
S3	5/31/2013	5'	ND	ND	ND	0	12300
S3	6/26/2013	7'				0	8480
S3	6/26/2013	9'				0	4640
S3	8/13/2013	11'				0	4320
\$3	8/13/2013	13'				0	3760

Site Ranking isn (0). Depth to Ground Water >100' (125', per Sec. 12, T18S-R26E, per NMOSE ). All results are ppm.Chlorides for documentation.

Released: 15 B/PW; Recovered: 8 B/PW. Release Date: 5/15/2013





July 02, 2013

**LUPE CARRASCO** 

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: PENASCO WATER LINE (NEAR KENT BSK #1H)

Enclosed are the results of analyses for samples received by the laboratory on 06/26/13 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.tceg.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey 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

Lab Director/Quality Manager



#### Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

: (505) 748-4635

Received:

06/26/2013

Sampling Date:

06/25/2013

Reported:

07/02/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: KENT S1-7' (H301488-01)

BTEX 8021B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	35.3	0.500	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	311	0.500	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	64.6	0.500	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	265	1.50	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	677	3.00	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	120 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	06/28/2013	ND	448	112	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8210	50.0	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	705	50.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	164 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.3 9	63.6-15	4						

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\*=Accredited Analyte

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Celeg & Keene



## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

06/26/2013

Sampling Date:

06/25/2013

Reported:

07/02/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

103-163

Project Location: NOT GIVEN

Sample ID: KENT S1-9' (H301488-02)

Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           Benzene*         46.9         0.500         06/28/2013         ND         1.80         89.8         2.00         15.2           Toluene*         290         0.500         06/28/2013         ND         1.94         97.1         2.00         15.4           Ethylbenzene*         61.5         0.500         06/28/2013         ND         2.05         102         2.00         16.5           Total Xylenes*         244         1.50         06/28/2013         ND         6.22         104         6.00         17.8           Total BTEX         643         3.00         06/28/2013         ND         6.22         104         6.00         17.8           Surrogate: 4-Bromofluorobenzene (PIE         106 %         89.4-126	BTEX 8021B	mg/	kg	Analyze	ed By: AP					
Toluene*	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* 61.5 0.500 06/28/2013 ND 2.05 102 2.00 16.5  Total Xylenes* 244 1.50 06/28/2013 ND 6.22 104 6.00 17.8  Total BTEX 643 3.00 06/28/2013 ND  Surrogate: 4-Bromofluorobenzene (PIL 106 % 89.4-126  Chloride, SM4500Cl-B mg/kg Analyzed By: DW  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 12400 16.0 06/28/2013 ND 448 112 400 3.64  TPH 8015M mg/kg Analyzed By: MS S-  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10 7030 50.0 06/26/2013 ND 208 104 200 0.798  GRO C6-C10-C28 615 50.0 06/26/2013 ND 220 110 200 0.475  Surrogate: 1-Chlorooctane 154 % 65.2-140	Benzene*	46.9	0.500	06/28/2013	ND	1.80	89.8	2.00	15.2	
Total Xylenes* 244 1.50 06/28/2013 ND 6.22 104 6.00 17.8  Total BTEX 643 3.00 06/28/2013 ND  Surrogate: 4-Bromofluorobenzene (PIE 106% 89.4-126  Chloride, SM4500CI-B mg/kg Analyzed By: DW  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 12400 16.0 06/28/2013 ND 448 112 400 3.64  TPH 8015M mg/kg Analyzed By: MS S-  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10 7030 50.0 06/26/2013 ND 208 104 200 0.798  DRO >C10-C28 615 50.0 06/26/2013 ND 220 110 200 0.475  Surrogate: 1-Chlorooctane 154% 65.2-140	Toluene*	290	0.500	06/28/2013	ND	1.94	97.1	2.00	15.4	
Total BTEX         643         3.00         06/28/2013         ND           Surrogate: 4-Bromofluorobenzene (PID Chloride, SM4500Cl-B         106 %         89.4-126           Chloride, SM4500Cl-B         mg/kg         Analyzed By: DW           Analyte         Result Reporting Limit         Analyzed Method Blank BS (Recovery True Value QC RPD Analyzed By: MS)         Secovery True Value QC RPD Analyte           Analyte         Result Reporting Limit Reporting Limit Analyzed Method Blank BS (Recovery True Value QC RPD Analyte)         Recovery True Value QC RPD Analyte Analyte Analyte Analyte (Reporting Limit Analyte Analyt	Ethylbenzene*	61.5	0.500	06/28/2013	ND	2.05	102	2.00	16.5	
Surrogate: 4-Bromofluorobenzene (PIE         106 % 89.4-126           Chloride, SM4500Cl-B         mg/kg         Analyzed By: DW           Analyte         Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD           Chloride         12400         16.0         06/28/2013 ND 448 112 400 3.64           TPH 8015M         mg/kg Analyzed By: MS         Standard Blank BS Recovery True Value QC RPD           Analyte         Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD           GRO C6-C10         7030         50.0         06/26/2013 ND 208 104 200 0.798           DRO >C10-C28         615         50.0         06/26/2013 ND 220 110 200 0.475           Surrogate: 1-Chlorooctane         154 % 65.2-140	Total Xylenes*	244	1.50	06/28/2013	ND	6.22	104	6.00	17.8	
Chloride, SM4500Cl-B         mg/kg         Analyzed By: DW           Analyte         Result Reporting Limit         Analyzed Method Blank BS Recovery         True Value QC RPD           Chloride         12400         16.0         06/28/2013         ND 448         112         400         3.64           TPH 8015M         mg/kg         Analyzed By: MS         S-           Analyte         Result Reporting Limit Analyzed Method Blank BS Recovery         True Value QC RPD           GRO C6-C10         7030         50.0         06/26/2013         ND 208         104         200         0.798           DRO >C10-C28         615         50.0         06/26/2013         ND 220         110         200         0.475   Surrogate: 1-Chlorooctane	Total BTEX	643	3.00	06/28/2013	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 12400 16.0 06/28/2013 ND 448 112 400 3.64  TPH 8015M mg/ky Analyzed By: MS S-  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10 7030 50.0 06/26/2013 ND 208 104 200 0.798  DRO >C10-C28 615 50.0 06/26/2013 ND 220 110 200 0.475  Surrogate: 1-Chlorooctane 154% 65.2-140	Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 89.4-12	6						
Chloride         12400         16.0         06/28/2013         ND         448         112         400         3.64           TPH 8015M         mg/kg         Analyzed By: MS         Second S	Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
TPH 8015M         mg/kg         Analyzed By: MS         Security         Analyzed Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10         7030         50.0         06/26/2013         ND         208         104         200         0.798           DRO >C10-C28         615         50.0         06/26/2013         ND         220         110         200         0.475           Surrogate: 1-Chlorooctane         154 %         65.2-140         65.2-140         65.2-140         65.2-140         65.2-140	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10 7030 50.0 06/26/2013 ND 208 104 200 0.798  DRO >C10-C28 615 50.0 06/26/2013 ND 220 110 200 0.475  Surrogate: 1-Chlorooctane 154% 65.2-140	Chloride	12400	16.0	06/28/2013	ND	448	112	400	3.64	
GRO C6-C10         7030         50.0         06/26/2013         ND         208         104         200         0.798           DRO >C10-C28         615         50.0         06/26/2013         ND         220         110         200         0.475           Surrogate: 1-Chlorooctane         154 %         65.2-140	TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
DRO >C10-C28         615         50.0         06/26/2013         ND         220         110         200         0.475           Surrogate: 1-Chlorooctane         154 %         65.2-140	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane 154% 65.2-140	GRO C6-C10	7030	50.0	06/26/2013	ND	208	104	200	0.798	
	DRO >C10-C28	615	50.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctadecane 93.9 % 63.6-154	Surrogate: 1-Chlorooctane	154 %	6 65.2-14	0						
	Surrogate: 1-Chlorooctadecane	93.9 9	63.6-15	4						

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# Analytical Results For:

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

Received:

06/26/2013

Sampling Date:

06/25/2013

Reported:

07/02/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

103-163

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: KENT S2-7' (H301488-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	79.2	0.500	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	335	0.500	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	64.0	0.500	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	227	1.50	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	705	3.00	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	67.1	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	06/28/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16500	50.0	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	965	50.0	06/26/2013	ND	220	110	200	0.475	_ ===
Surrogate: 1-Chlorooctane	117 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.4	63.6-15	4						

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\*=Accredited Analyte

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Celey & Keene



## Analytical Results For:

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

Received:

06/26/2013

Sampling Date:

06/25/2013

Reported:

07/02/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

5-04

Project Location:

NOT GIVEN

Sample ID: KENT S2-9' (H301488-04)

		/kg	Anaiyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	42.8	0.500	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	208	0.500	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	43.0	0.500	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	168	1.50	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	461	3.00	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	83.1	% 89.4-12	6						
Chloride, SM4500CI-B mg/kg		'kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	06/28/2013	ND	448	112	400	3.64	
Chloride TPH 8015M	9800 mg/			ND d By: MS	448	112	400	3.64	S-06
	-				448 BS	112 % Recovery	400 True Value QC	3.64 RPD	S-06  Qualifier
TPH 8015M	mg,	'kg	Analyze	d By: MS	54 9 GE				
TPH 8015M  Analyte	mg, Result	Reporting Limit	Analyze Analyzed	d By: MS  Method Blank	BS	% Recovery	True Value QC	RPD	
Analyte GRO C6-C10	Result	Reporting Limit 50.0 50.0	Analyzed Analyzed 06/26/2013 06/26/2013	Method Blank	BS 208	% Recovery	True Value QC 200	RPD 0.798	

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# Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Analyzed Ryy AD

Received:

06/26/2013

Sampling Date:

06/25/2013

Reported:

07/02/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

Jodi Henson

103-163

Sample Received By:

Project Location:

NOT GIVEN

Sample ID: KENT S2-10' (H301488-05)

BTEX 8021B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.74	0.500	06/28/2013	ND	1.80	89.8	2.00	15.2	
Toluene*	92.8	0.500	06/28/2013	ND	1.94	97.1	2.00	15.4	
Ethylbenzene*	23.6	0.500	06/28/2013	ND	2.05	102	2.00	16.5	
Total Xylenes*	99.7	1.50	06/28/2013	ND	6.22	104	6.00	17.8	
Total BTEX	226	3.00	06/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	119 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8200	16.0	06/28/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1820	50.0	06/26/2013	ND	208	104	200	0.798	
DRO >C10-C28	212	50.0	06/26/2013	ND	220	110	200	0.475	
Surrogate: 1-Chlorooctane	117 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.8 9	63.6-15							

### Sample ID: KENT S3-7' (H301488-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	06/28/2013	ND	448	112	400	3.64	

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

06/26/2013

Sampling Date:

06/25/2013

Reported:

07/02/2013

Sampling Type:

Soil

Project Name:

PENASCO WATER LINE (NEAR KENT BSK

Sampling Condition:

Cool & Intact

Project Number:

103-163

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: KENT S3-9' (H301488-07)

Chloride, SM4500Cl-B

Analyzed By: DW

Analyte

Analyte

Result Reporting Limit

Analyzed

Method Blank

BS % Recovery True Value QC

RPD

Qualifier

Chloride

8480

16.0

06/28/2013

ND

448

400

3.64

Sample ID: KENT S3-10' (H301488-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyzed

06/28/2013

Method Blank ND

BS

% Recovery

112

True Value QC

Qualifier

Chloride

Result 4640

16.0

Reporting Limit

432

108

400

RPD 3.77

Cardinal Laboratories

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



#### **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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
_	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Relinquished by:

Date

Time

Received by ELO

Date

Date



# ARDINAL LABORATOR 101 East Marland, Hobbs

ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240	(505) 393-2326 FAX (505) 393-2476	CHAIN OF COSTODY RECORD AND ANALYSIS REQUEST
Project Manager: Lupe Carrasco		
Compt (505) 393-232£ Yates Petroleum Corporation	Ţij~·	Project #-
Company Address: 105 South 4th Street		Project Loc:
		Figer Loc:

Page 9 of 9

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	Beginning Depth			,				
	Ending Depth	1						
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St	andard TAT						0,	

(lab use only)

Sampler Signature:

City/State/Zip:

Artesia, NM 88210

PO #: 103-163

Telephone No:

575-748-4350

RDER #:

H301488

LAB # (lab use only)

Time

Special Instructions:

Relinquished by:

Relinquished by:

1 Kent S3-9'

Kent S3-7' Kent S2-10'

Kent

S2-9'

6/25/2013

 $\times$ 

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6/25/2013 6/25/2013

6/25/2013 6/25/2013

6/25/2013 6/25/2013 Kent \$1-10 Kent S1-9'

Kent S1-7'

FIELD CODE

6/25/2013

6/25/2013

Kent S2-7'

8 Kent S3-10

00.8

Received by OCD: 10/13/2021 4:13:52 PM



August 20, 2013

LUPE CARRASCO
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: KENT BSK #1 (PENASCO WATER LINE)

Enclosed are the results of analyses for samples received by the laboratory on 08/14/13 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

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Lab Director/Quality Manager

# Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/14/2013

Sampling Date:

08/12/2013

Reported:

08/20/2013

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S1-11' (H301927-01)

mg,	/kg	Δnalva	red Rv: DW					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC		
<4.00	4.00	08/19/2013	ND				RPD	Qualifie
115	4.00	22 T. B.					0.780	
34.7						2.00	0.502	
		00/19/2013	ND	2.21	111	2.00	1.68	
144	12.0	08/19/2013	ND	6.58	110	6.00	1.89	
294	24.0	08/19/2013	ND				1105	
102 %	6 89.4-12	6						
mg/kg			d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Peroyona	Truce Mala and G		
10400	16.0	09/15/2012			•	True value QC	RPD	Qualifier
				400	100	400	0.00	
mg/k	g	Analyze	d By: DW					S-04
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	DDD	
3430	10.0	08/15/2013	ND			<b>V</b> .	RPD	Qualifier
313				1/0	84.9	200	7.43	
J13	10.0	08/15/2013	ND	173	86.4	200	12.5	
165 %	65.2-140							
	Result <4.00 115 34.7 144 294  102 % mg/k Result 10400 mg/k Result 3430 313	<4.00	Result       Reporting Limit       Analyzed         <4.00	Result         Reporting Limit         Analyzed         Method Blank           4.00         08/19/2013         ND           34.7         4.00         08/19/2013         ND           144         12.0         08/19/2013         ND           294         24.0         08/19/2013         ND           Analyzed By: AP           Result         Reporting Limit         Analyzed         Method Blank           10400         16.0         08/15/2013         ND           Analyzed By: DW           Result         Reporting Limit         Analyzed         Method Blank           3430         10.0         08/15/2013         ND           313         10.0         08/15/2013         ND	Result         Reporting Limit         Analyzed         Method Blank         BS           <4.00	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           4.00         4.00         08/19/2013         ND         2.11         105           115         4.00         08/19/2013         ND         2.26         103           34.7         4.00         08/19/2013         ND         6.58         110           144         12.0         08/19/2013         ND         6.58         110           294         24.0         08/19/2013         ND         ***         ***           Result mg/kg         89.4-126         ***         ***         ***         ***         ***           Result ng/kg         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           10400         16.0         08/15/2013         ND         400         100           mg/kg         Analyzed         Method Blank         BS         % Recovery           Result Reporting Limit         Analyzed         Method Blank         BS         % Recovery           3430         10.0         08/15/2013         ND         170         84.9           3430         10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <4.00	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           4.00         4.00         08/19/2013         ND         2.11         105         2.00         0.780           115         4.00         08/19/2013         ND         2.21         111         2.00         1.68           144         12.0         08/19/2013         ND         6.58         110         6.00         1.89           294         24.0         08/19/2013         ND         -

Cardinal Laboratories

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## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/14/2013

Sampling Date:

08/12/2013

Reported: Project Name: 08/20/2013

Sampling Type:

Soil

Project Number:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Location:

NONE GIVEN NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S1-12' (H301927-02)

BTEX 8021B	mg/	'kg	Analyz	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/19/2013	ND	2.11	105	2.00	0.780	
Toluene*	44.6	1.00	08/19/2013	ND	2.06	103	2.00	0.502	
Ethylbenzene*	24.2	1.00	08/19/2013	ND	2.21	111	2.00	1.68	
Total Xylenes*	114	3.00	08/19/2013	ND	6.58	110	6.00	1.89	
Total BTEX	182	6.00	08/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	08/15/2013	ND	400	100	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: DW					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	927	10.0	08/15/2013	ND	170	84.9	200	7.43	
DRO >C10-C28	144	10.0	08/15/2013	ND	173	86.4	200	12.5	
Surrogate: 1-Chlorooctane	167 %	65.2-140	ľ						
Surrogate: 1-Chlorooctadecane	190 %	63.6-154							

Cardinal Laboratories

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# Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/14/2013

Sampling Date:

08/12/2013

Reported:

RTFY ROOTR

08/20/2013

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

NONE GIVEN

Project Location:

NOT GIVEN

Sample ID: S1-13' (H301927-03)

Analyte   Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC   RPD	BTEX 8021B	mg/	kg	Analyz	ed By: DW					
Toluene* 7.21 0.500 08/19/2013 ND 2.06 103 2.00 0.502  Ethylbenzene* 7.15 0.500 08/19/2013 ND 2.21 111 2.00 1.68  Total Xylenes* 38.9 1.50 08/19/2013 ND 6.58 110 6.00 1.89  Total BTEX 53.3 3.00 08/19/2013 ND  Surrogate: 4-Bromofluorobenzene (PIL 113 % 89.4-126  Chloride, SM4500Cl-B mg/kg Analyzed By: AP  Chloride 7440 16.0 08/15/2013 ND 400 100 400 0.00  TPH 8015M mg/kg Analyzed By: DW  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Analyte Result Reporting Limit Analyzed By: DW  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10 658 10.0 08/15/2013 ND 170 84.9 200 7.43  DRO >C10-C28 117 10.0 08/15/2013 ND 173 86.4 200 12.5	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* 7.15 0.500 08/19/2013 ND 2.21 111 2.00 1.68  Total Xylenes* 38.9 1.50 08/19/2013 ND 6.58 110 6.00 1.89  Total BTEX 53.3 3.00 08/19/2013 ND  Surrogate: 4-Bromofluorobenzene (PIE 113 % 89.4-126  Chloride, SM4500Cl-B mg/kg Analyzed By: AP  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 7440 16.0 08/15/2013 ND 400 100 400 0.00  TPH 8015M mg/kg Analyzed By: DW  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10 658 10.0 08/15/2013 ND 170 84.9 200 7.43  DRO >C10-C28 117 10.0 08/15/2013 ND 173 86.4 200 12.5  Surrogate: 1-Chlorooctane 102 % 65.2-140	Benzene*	<0.500	0.500	08/19/2013	ND	2.11	105	2.00	0.780	
Total Xylenes*         38.9         1.50         08/19/2013         ND         6.58         110         6.00         1.89           Total BTEX         53.3         3.00         08/19/2013         ND         6.58         110         6.00         1.89           Surrogate: 4-Bromofluorobenzene (PID         113 %         89.4-126         Analyzed By: AP           Chloride, SM4500Cl-B         mg/kg         Analyzed By: AP         Method Blank         BS         % Recovery         True Value QC         RPD           Chloride         7440         16.0         08/15/2013         ND         400         100         400         0.00           TPH 8015M         mg/kg         Analyzed By: DW         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10         658         10.0         08/15/2013         ND         170         84.9         200         7.43           DRO >C10-C28         117         10.0         08/15/2013         ND         173         86.4         200         12.5   Surrogate: 1-Chlorooctane	Toluene*	7.21	0.500	08/19/2013	ND	2.06	103	2.00	0.502	
Total BTEX         53.3         3.00         08/19/2013         ND           Surrogate: 4-Bromofluorobenzene (PID         113 %         89.4-126           Chloride, SM4500Cl-B         mg/kg         Analyzed By: AP           Analyte         Result Reporting Limit Analyzed By: DW         Method Blank BS % Recovery True Value QC RPD Analyzed By: DW           Chloride         7440         16.0         08/15/2013 ND 400 100 400 0.00           TPH 8015M         mg/kg Analyzed By: DW           Analyte         Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10 658 10.0 08/15/2013 ND 170 84.9 200 7.43           DRO >C10-C28         117 10.0 08/15/2013 ND 173 86.4 200 12.5           Surrogate: 1-Chlorooctane         102 % 65.2-140	Ethylbenzene*	7.15	0.500	08/19/2013	ND	2.21	111	2.00	1.68	
Surrogate: 4-Bromofluorobenzene (PIE Chloride, SM4500Cl-B         113 % 89.4-126           Chloride, SM4500Cl-B         mg/kg         Analyzed By: AP           Analyte         Result Reporting Limit Analyzed Nethod Blank BS % Recovery True Value QC RPD           Chloride         7440 16.0 08/15/2013 ND 400 100 400 0.00           TPH 8015M         mg/kg         Analyzed By: DW           Analyte         Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD           GRO C6-C10         658 10.0 08/15/2013 ND 170 84.9 200 7.43           DRO >C10-C28         117 10.0 08/15/2013 ND 173 86.4 200 12.5           Surrogate: 1-Chlorooctane         102 % 65.2-140	Total Xylenes*	38.9	1.50	08/19/2013	ND	6.58	110	6.00	1.89	
Chloride, SM4500Cl-B         mg/kg         Analyzed Method Blank         BS         % Recovery         True Value QC         RPD           Chloride         7440         16.0         08/15/2013         ND         400         100         400         0.00           TPH 8015M         mg/kg         Analyzed By: DW           Analyte         Result         Reporting Limit         Analyzed Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10         658         10.0         08/15/2013         ND         170         84.9         200         7.43           DRO >C10-C28         117         10.0         08/15/2013         ND         173         86.4         200         12.5   Surrogate: 1-Chlorocctane	Total BTEX	53.3	3.00	08/19/2013	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 7440 16.0 08/15/2013 ND 400 100 400 0.00  TPH 8015M mg/ky Analyzed By: DW  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10 658 10.0 08/15/2013 ND 170 84.9 200 7.43  DRO >C10-C28 117 10.0 08/15/2013 ND 173 86.4 200 12.5  Surrogate: 1-Chlorooctane 102 % 65.2-140	Surrogate: 4-Bromofluorobenzene (PIL	113 %	6 89.4-12	6						
Chloride         7440         16.0         08/15/2013         ND         400         100         400         0.00           TPH 8015M         mg/kg         Analyzed By: DW         Analyzed By: DW         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10         658         10.0         08/15/2013         ND         170         84.9         200         7.43           DRO >C10-C28         117         10.0         08/15/2013         ND         173         86.4         200         12.5           Surrogate: 1-Chlorocctane         102 %         65.2-140         65.2-140         65.2-140         65.2-140	Chloride, SM4500CI-B	hloride, SM4500Cl-B mg/kg		Analyzed By: AP						
TPH 8015M         mg/kg         Analyzed By: DW           Analyte         Result Reporting Limit Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD RRO C6-C10         658 10.0 08/15/2013 ND 170 84.9 200 7.43           DRO >C10-C28         117 10.0 08/15/2013 ND 173 86.4 200 12.5           Surrogate: 1-Chlorooctane         102 % 65.2-140	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10 658 10.0 08/15/2013 ND 170 84.9 200 7.43  DRO >C10-C28 117 10.0 08/15/2013 ND 173 86.4 200 12.5  Surrogate: 1-Chlorooctane 102 % 65.2-140	Chloride	7440	16.0	08/15/2013	ND	400	100	400	0.00	
GRO C6-C10         658         10.0         08/15/2013         ND         170         84.9         200         7.43           DRO >C10-C28         117         10.0         08/15/2013         ND         173         86.4         200         12.5           Surrogate: 1-Chlorooctane         102 %         65.2-140	TPH 8015M	mg/l	сg	Analyze	d By: DW				1	
DRO >C10-C28 117 10.0 08/15/2013 ND 173 86.4 200 12.5  Surrogate: 1-Chlorooctane 102 % 65.2-140	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane 102 % 65.2-140	GRO C6-C10	658	10.0	08/15/2013	ND	170	84.9	200	7.43	
	DRO >C10-C28	117	10.0	08/15/2013	ND	173	86.4	200	12.5	
Surrogate: 1-Chlorooctadecane 107 % 63.6-154	Surrogate: 1-Chlorooctane	102 %	65.2-140	)						
	Surrogate: 1-Chlorooctadecane	107 %	63.6-154	1						

#### Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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Celey D. Kein



## Analytical Results For:

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

Received:

08/14/2013

Sampling Date:

08/13/2013

Reported:

08/20/2013

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Number:
Project Location:

NOT GIVEN

Sample ID: S1-15' (H301927-04)

BTEX 8021B	mg,	/kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.58	1.00	08/19/2013	ND	2.11	105	2.00	0.780	
Toluene*	82.9	1.00	08/19/2013	ND	2.06	103	2.00	0.502	
Ethylbenzene*	28.1	1.00	08/19/2013	ND	2.21	111	2.00	1.68	
Total Xylenes*	121	3.00	08/19/2013	ND	6.58	110	6.00	1.89	
Total BTEX	235	6.00	08/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/15/2013	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1300	10.0	08/15/2013	ND	170	84.9	200	7.43	
DRO >C10-C28	165	10.0	08/15/2013	ND	173	86.4	200	12.5	
Surrogate: 1-Chlorooctane	103 %	65.2-140	0						
Surrogate: 1-Chlorooctadecane	105 %	63.6-15-	4						

Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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Celey D. Keena



# Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/14/2013

Sampling Date:

08/13/2013

Reported:

08/20/2013

Sampling Type:

Soil

Project Name: Project Number:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Location:

NONE GIVEN NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S1-16' (H301927-05)

BTEX 8021B	mg	/kg	Analyz	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	0 115
Benzene*	<1.00	1.00	08/19/2013	ND	2.11	105			Qualifier
Toluene*	40.8	1.00	08/19/2013	ND	2.06	103	2.00	0.780	
Ethylbenzene*	20.4	1.00	08/19/2013	ND	2.21		2.00	0.502	
Total Xylenes*	94.9	3.00	08/19/2013	ND		111	2.00	1.68	
Total BTEX	156	<b>156</b> 6.00		ND	6.58	110	6.00	1.89	
Surrogate: 4-Bromofluorobenzene (PIL	112 %	112 % 89.4-126 mg/kg							
Chloride, SM4500CI-B	mg/l	(g	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	0/ D			
Chloride	5520	16.0	08/15/2013	ND		% Recovery	True Value QC	RPD	Qualifier
ГРН 8015M	mg/k				400	100	400	0.00	
Analyte			Analyzed						
GRO C6-C10		Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
PRO >C10-C28	1170	10.0	08/15/2013	ND	170	84.9	200	7.43	
	173	10.0	08/15/2013	ND	173	86.4	200	12.5	
urrogate: 1-Chlorooctane	106 %	65.2-140							
urrogate: 1-Chlorooctadecane	110 %	63.6-154							

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#### Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635

Fax To:

Received:

08/14/2013

Sampling Date:

08/13/2013

Reported:

08/20/2013

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2-11' (H301927-06)

BTEX 8021B	mg/	kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	27.8	4.00	08/19/2013	ND	2.11	105	2.00	0.780	
Toluene*	254	4.00	08/19/2013	ND	2.06	103	2.00	0.502	
Ethylbenzene*	54.4	4.00	08/19/2013	ND	2.21	111	2.00	1.68	
Total Xylenes*	208	12.0	08/19/2013	ND	6.58	110	6.00	1.89	
Total BTEX	544	24.0	08/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP			v.		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>8560</b> 16.0		08/15/2013	ND	400	100	400	0.00	
TPH 8015M	mg/l	cg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3840	10.0	08/15/2013	ND	170	84.9	200	7.43	
DRO >C10-C28	133 10.0		08/15/2013	ND	173	86.4	200	12.5	
Surrogate: 1-Chlorooctane	111 %	65.2-140	)						
Surrogate: 1-Chlorooctadecane	104 %	63.6-15-	<i>‡</i>						

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\*=Accredited Analyte

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## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/14/2013

Sampling Date:

08/13/2013

Reported:

08/20/2013

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2-13' (H301927-07)

BTEX 8021B	mg/	kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	20.9	2.00	08/19/2013	ND	2.11	105	2.00	0.780	
Toluene*	190	2.00	08/19/2013	ND	2.06	103	2.00	0.502	
Ethylbenzene*	41.6	2.00	08/19/2013	ND	2.21	111	2.00	1.68	
Total Xylenes*	165	6.00	08/19/2013	ND	6.58	110	6.00	1.89	
Total BTEX	417	12.0	08/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>8240</b> 16.0		08/15/2013	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2660	10.0	08/15/2013	ND	170	84.9	200	7.43	
DRO >C10-C28	88.7	10.0	08/15/2013	ND	173	86.4	200	12.5	
Surrogate: 1-Chlorooctane	107 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 %	63.6-15	4						

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## Analytical Results For:

YATES PETROLEUM CORPORATION **LUPE CARRASCO** 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/14/2013

Sampling Date:

08/13/2013

Reported:

08/20/2013

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location: NOT GIVEN

Sample ID: S2-15' (H301927-08)

BTEX 8021B	mg,	kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.500	0.500	08/19/2013	ND	2.11	105	2.00	0.780	
Toluene*	41.8	0.500	08/19/2013	ND	2.06	103	2.00	0.502	
Ethylbenzene*	20.9	0.500	08/19/2013	ND	2.21	111	2.00	1.68	
Total Xylenes*	94.6	1.50	08/19/2013	ND	6.58	110	6.00	1.89	
Total BTEX	157	3.00	08/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	08/15/2013	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	568	10.0	08/16/2013	ND	171	85.5	200	0.974	
DRO >C10-C28	45.9	10.0	08/16/2013	ND	179	89.5	200	1.31	
Surrogate: 1-Chlorooctane	97.1 9	65.2-140	)						
Surrogate: 1-Chlorooctadecane	105 %	63.6-15-	1						

### Sample ID: S3-11' (H301927-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	08/15/2013	ND	400	100	400	0.00	

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## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

To:

(505) 748-4635

Received:

08/14/2013

Sampling Date:

08/13/2013

Reported:

08/20/2013

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### Sample ID: S3-13' (H301927-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	08/15/2013	ND	400	100	400	0.00	

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#### **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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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Standard TAT

Analytical Report- H301320	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S1	5/31/2013	1'	783	7630	500	8130	7730
S1	5/31/2013	3'	823	12000	813	12813	9330
S1	5/31/2013	5'	539	6530	549	7079	7460
S1	6/26/2013	7'	677	8210	705	8915	16400
S1	6/26/2013	9'	643	7030	615	7645	12400
S1	8/12/2013	11'	294	3430	313	3743	10400
S1	8/12/2013	12'	182	927	144	1071	6400
S1	8/12/2013	13'	53	658	117	775	7440
S1	8/13/2013	15'	235	1300	165	1465	6000
S1	8/13/2013	16'	156	1170	173	1343	5520
S2	5/31/2013	1'	1080	10800	674	11474	5330
S2	5/31/2013	3'	877	9330	664	9994	8660
S2	5/31/2013	5'	668	8800	722	9522	8660
S2	6/26/2013	7'	705	16500	965	17465	20400
S2	6/26/2013	9'	461	6330	380	6710	9800
S2	6/26/2013	10'	226	1820	212	2032	8200
S2	8/13/2013	11'	544	3840	133	3973	8560
S2	8/13/2013	13'	417	2660	88.7	2748.7	8240
S2	8/13/2013	15'	157	568	45.9	613.9	6160
S3	5/31/2013	1'	14.9	ND	ND	0	10500
S3	5/31/2013	3'	0.592	ND	ND	0	8930
S3	5/31/2013	5'	ND	ND	ND	0	12300
S3	6/26/2013	7'				0	8480
S3	6/26/2013	9'				0	4640
S3	8/13/2013	11'				0	4320
S3	8/13/2013	13'				0	3760

Site Ranking isn (0). Depth to Ground Water >100' (125', per Sec. 12, T18S-R26E, per NMOSE). All results are ppm.Chlorides for documentation.

Released: 15 B/PW; Recovered: 8 B/PW. Release Date: 5/15/2013

15/2013

Mut of Broteker (1)

Released to Imaging: 10/20/2021 2:50:13 PM



January 17, 2014

**LUPE CARRASCO** YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: KENT BSK #1 (PENASCO WATER LINE)

Enclosed are the results of analyses for samples received by the laboratory on 01/16/14 11:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keens

Celey D. Keene

Lab Director/Quality Manager

Released to Imaging: 10/20/2021 2:50:13 PM



# Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/17/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

Project Location:

103-163

**NOT GIVEN** 

Sample Received By:

Jodi Henson

Sample ID: S1 - 50' (H400145-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.119	0.050	01/17/2014	ND	2.47	124	2.00	0.657	
Toluene*	0.117	0.050	01/17/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/17/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/17/2014	ND	7.31	122	6.00	1.64	
Total BTEX	<0.300	0.300	01/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b> 16.0		01/17/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/16/2014	ND	203	102	200	14.3	
Surrogate: 1-Chlorooctane	76.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	76.8	% 63.6-15	4						

Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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Celey & Keen

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	ed by:	id by:	d by:		Special Instructions:	,								S1- 50'				Sampler Signature	Telephone No:	City/State/Zip:	Company Address:	Comp: (505) ဒႏ	Project Manager:	ARDIN 101 Eas
					24 Hours										FIELD CODE	HICOIHS		ature XX	575-748-4350	Artesia, NM 88210	iress: 105 South 4th Street	Comp <sub>t</sub> (505) 393-232 <del>t Yates Petroleum Corporation</del>	ger: Lupe Carrasco	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
<u>;                                    </u>	Date	Date:	Date .		<b>7</b>						ļ									8210	Street	n Corporat		88240
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Received by OCD: 10/13/2021 4:13:52 PM



January 17, 2014

LUPE CARRASCO YATES PETROLEUM CORPORATION 105 S 4th Street Artesia, NM 88210

RE: KENT BSK #1 (PENASCO WATER LINE)

Enclosed are the results of analyses for samples received by the laboratory on 01/16/14 11:15.

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

Cardinal Laboratories is 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.

Celey D. Keine

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: 10/13/2021 4:13:52 PM

Lab Director/Quality Manager



# Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/17/2014

Sampling Type:

Water

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

NOT GIVEN Project Location:

Sample ID: KENT BSK #1 (H400146-01)

BTEX 8021B	mg,	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	81.4	0.500	01/17/2014	ND	0.020	100	0.0200	3.14	
Toluene*	56.5	0.500	01/17/2014	ND	0.020	102	0.0200	3.61	
Ethylbenzene*	1.86	0.500	01/17/2014	ND	0.021	106	0.0200	3.73	
Total Xylenes*	6.87	1.50	01/17/2014	ND	0.063	106	0.0600	3.05	
Total BTEX	147	3.00	01/17/2014 ND						
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 89.5-12	6						
Chloride, SM4500CI-B	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	13200	4.00	01/17/2014	ND	100	100	100	0.00	
TPH 8015M	mg	/L	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	205	1.00	01/16/2014	ND	41.5	83.0	50.0	15.5	
DRO >C10-C28	1.39	1.00	01/16/2014	ND	40.4	80.9	50.0	16.6	
EXT DRO >C28-C35	<1.00	1.00	01/16/2014	ND	0.597		0.00		
Surrogate: 1-Chlorooctane	83.8	% 48.7-16	4						
Surrogate: 1-Chlorooctadecane	82.7	% 54.8-16	5						. *

Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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Celey D. Keen



#### **Notes and Definitions**

Analyte NOT DETECTED at or above the reporting limit ND

Relative Percent Difference RPD

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

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keine

Released to Imaging: 10/20/2021 2:50:13 PM

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Page 63 of	Relinquished by:	Relinquished by:	Relinquished by:	Special Instructions:					IES Test Tube 4	15-4 Test Tube 3	Test Tube 2	16 🎢 Test Tube 1	Kent BSK #1 (Amber Bottle)	LAB # (lab use only)	TO ISSE ONLY   ORDER #: H 4 CO14	Sampler Signature:	Telephone No: 575-	City/State/Zip: Artes	Company Address: 105 s	Compt (505) 393-2326 Yates Petroleum Corporation	Project Manager: Lupe	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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Rea																						



## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635

Fax To:

01/16/2014

Project Name:

Project Number:

Project Location:

Received:

Reported:

01/23/2014

KENT BSK #1 (PENASCO WATER LINE)

NOT GIVEN

NONE GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

01/15/2014

Soil

Cool & Intact Jodi Henson

Sample ID: S1 - 20' (H400144-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.082	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	0.956	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	0.424	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	2.15	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	3.61	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	12.6	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	83.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.2	% 63.6-15	4						

Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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# Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample ID: S1 - 25' (H400144-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.29	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	7.49	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	1.61	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	6.49	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	16.9	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIC	125	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	28.3	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	10.8	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	79.4	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	81.2	% 63.6-1.	54						

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\*=Accredited Analyte

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# Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1 - 30' (H400144-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.710	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	3.99	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	1.08	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	4.57	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	10.3	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	125 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.3	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	<10.0	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	81.9	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	80.1	% 63.6-15	54						

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\*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S1 - 40' (H400144-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.126	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	0.191	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	0.051	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	0.492	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	<10.0	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	85.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.8	% 63.6-15	4						

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Celeg D Keene



# Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: S2 - 25' (H400144-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.893	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	5.34	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	1.15	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	4.27	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	11.7	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.6	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	<10.0	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	82.5	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	85.8	% 63.6-15	54						

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## Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

Sampling Type:

Soil

01/23/2014 KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2 - 30' (H400144-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	3.29	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	14.5	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	2.87	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	10.6	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	31.3	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	138 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	4800	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualific
GRO C6-C10	32.1	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	<10.0	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	85.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.0	% 63.6-15	4						

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## Analytical Results For:

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

01/16/2014 Received: 01/23/2014 Reported:

KENT BSK #1 (PENASCO WATER LINE)

Project Name: NONE GIVEN Project Number:

NOT GIVEN Project Location:

Sampling Date:

01/15/2014 Soil

Sampling Type:

Cool & Intact Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: S2 - 40' (H400144-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.04	0.050	01/22/2014	ND	2.05	102	2.00	0.955	
Toluene*	4.74	0.050	01/22/2014	ND	2.00	99.9	2.00	0.315	
Ethylbenzene*	1.06	0.050	01/22/2014	ND	2.01	101	2.00	1.95	
Total Xylenes*	4.09	0.150	01/22/2014	ND	5.85	97.5	6.00	2.62	
Total BTEX	10.9	0.300	01/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	124 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	800	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	91.9	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	<10.0	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	86.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.4	% 63.6-15	4						

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Celey & Kee.

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

#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Apply   Appl	Received by OCD: 10/13/2021 4:13::    15:14	4:13:52 PM													Pag	Page 72
ARDINAL LABORATORIES   101 East Mariand, Hobbs, NM 88240   (505) 393-2226 FAX (505) 393-2476   (505) 393-2226 FAX (505) 393-2476   (505) 393-2226 FAX (505) 393-2476   (505) 393-2226 FAX (505) 393-2476   (505) 393-2226 FAX (505) 393-2476   (505) 393-2226 FAX (505) 393-2476   (505) 393-2226 FAX (505) 393-2476   (505) 393-2476		Temperal	Time	Date				71310		Received:by ELOT			Date		nquished by:	Relinc
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ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240  ject Manager: Lupe Carrasco  mps (505) 393-2226 Years Petroleum Corporation.  mps (505) 393-2226 Years Petroleum Corporation.  mps (505) 393-2226 Years Petroleum Corporation.  mps (505) 393-2226 Years Petroleum Corporation.  Fas No:  phonone No: 575-748-4350  Fas No: Fax No:  pepthone No: 575-748-4350  Fas No:  pepthone No: 105 South 4th Street  phonone No: 575-748-4350  Fas No:  pepthone No: 175-748-4350  Fas No:  pepthone No: 175-748-4350  Fas No:  pepthone No: 175-748-4350  Fas No:  permail: loarrasco@v/atesp.  Preservation & # of Corporation & # of Corpo	160 X 16	Custody	1::	1110114		(	12	0	Den				Date 		nquished by:	Relinc
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ARDINAL LABORATORIES  101 East Manager: Lupe Carrasco  mpt (505) 393-2326 Yates Petroleum Corporation  mpany Address: 105 South 4th Street  mpany Address: 105 South 4th Street  proper Signature: 575-748-4350  H 400 J 41  FIELD CODE  Beginning Depth  Ending Depth  Date Sampled  Field Filtered	+		×				F			11/15/2014						~
ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240  ject Manager: Lupe Carrasco  mpx (505) 393-2326 Yates Petroleum Corporation  mpx (505) 393-2326 Yates Petroleum Corporation  mpainy Address: 105 South 4th Street  y/State/Zip: Artesia, NM 88210  lephone No: 575-748-4350  Fax No: Fax No: Fax No: Fax No: Fax No: Icarrasco@yatesp  mpler Signature: Field Filtered  Total # of Containers  loe HNO3  HCI  H <sub>2</sub> SO4  Na0H  Na <sub>3</sub> P,O3  NaOH  Na <sub>3</sub> P,O3  Na <sub>3</sub> P,O3  Na <sub>3</sub> P,O3  Time			×				F			11/15/2014			.=		S1- 20'	
ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240  ject Manager: Lupe Carrasco  mpx (505) 393-2326 FAX (505) 393-2476  mparty Address: 105 South 4th Street  mpany Address: 105 South 4th Street  y/State/Zip: Artesia, NM 88210  lephone No: 575-748-4350  mpler Signature: 575-748-4350  mpler Signature: 6-mail: Carrasco@yatespi	Metals: As Ag Ba Cd Cr Pb I	Anions (CI, SO4, Alkalinity)	TPH: 418.1 8015M	Other ( Specify)  DW=Drinking Water SL=Sludge  GW = Groundwater S=Soli/Solid	NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	HCI	<u> </u>		,	Date Sampled	Ending Depth	Beginning Depth		FIELD CODE		LAB#(lab use only)
Artesia, NM 88240  575-748-4350  (505) 393-2326 FAX (505) 393-2476  Fax No:  6-mail:  carrasco@yatesp		TOTAL:	80151	H	# of Con	ervation &	Pres							100,144 		RD us
nd, Hobbs, NM 88240  Lupe Carrasco  Yates Petroleum Corporation  105 South 4th Street  Artesia, NM 88210  Fax No:  Fax No:  6-mail:  carrasco@yatespu	1. I								,			4				
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nd, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476  Lupe Carrasco  Yates Petroleum Corporation  105 South 4th Street  Artesia, NM 88210	Þ		ort Format	Repo				1	Fax No:						Telephon	
nd, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476  Lupe Carrasco  Yates Petroleum Corporation  105 South 4th Street	ıω·	)#: <u>103-16</u>	75										8210	,	City/State	
(505) 393-2326 FAX (505) 393-2476	105666 (58%)	oc:	Project L										Street	Address: 105 South 4th S	Company	•
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			.•			·:	• •	76	(505) 393-24	05) 393-2326 FAX	(5)		88240	DINAL LABORATORIES East Marland, Hobbs, NM 8	7 A	KA



January 17, 2014

LUPE CARRASCO
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: KENT BSK #1 (PENASCO WATER LINE)

Enclosed are the results of analyses for samples received by the laboratory on 01/16/14 11:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635

Fax To:

Received: Reported: 01/16/2014

01/17/2014 KENT BSK #1 (PENASCO WATER LINE)

Project Name: Project Number:

Project Location:

103-163 NOT GIVEN Sampling Date:

Sampling Type:

Sampling Condition:

Soil

Sample Received By:

01/15/2014

Cool & Intact

Jodi Henson

Sample ID: S1 - 50' (H400145-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.119	0.050	01/17/2014	ND	2.47	124	2.00	0.657	
Toluene*	0.117	0.050	01/17/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/17/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/17/2014	ND	7.31	122	6.00	1.64	
Total BTEX	<0.300	0.300	01/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/16/2014	ND	203	102	200	14.3	
Surrogate: 1-Chlorooctane	76.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	76.8	% 63.6-15							

## Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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P.	by:	ş	by:		ructions:									S1- 50'		) H\QQ\	Sampler Signature	Telephone No:	City/State/Zip:	Company Address:	Comp: (505) 393-232: Yates Petroleum Corporation	Project Manager:	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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4			11						1						GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix	일	Report Format:	•			ֿס	. ₹
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	<b>8</b> 8	o m													Anions (CI, SO4, Alkalinity)			×	<u></u>				중
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January 23, 2014

**LUPE CARRASCO** 

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: KENT BSK #1 (PENASCO WATER LINE)

Enclosed are the results of analyses for samples received by the laboratory on 01/16/14 11:15.

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

Cardinal Laboratories is 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.

Celey D. Keens

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: 10/13/2021 4:13:52 PM

Lab Director/Quality Manager



January 23, 2014

LUPE CARRASCO
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: KENT BSK #1 (PENASCO WATER LINE)

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Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1 - 20' (H400144-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.082	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	0.956	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	0.424	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	2.15	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	3.61	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	12.6	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	83.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.2	% 63.6-15	4						

## Cardinal Laboratories

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\*=Accredited Analyte

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Celeg D. Keene



## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1 - 25' (H400144-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.29	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	7.49	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	1.61	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	6.49	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	16.9	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	125 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	28.3	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	10.8	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	79.4 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.2 9	63.6-15	4						

### Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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Celeg D. Keene

## Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S1 - 40' (H400144-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.126	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	0.191	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	0.051	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	0.492	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	<10.0	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	85.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.8	% 63.6-15	4						

## Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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Celego Keens



## Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: S2 - 20' (H400144-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	0.310	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	0.162	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	0.637	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	1.11	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	<10.0	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	82.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.2	% 63.6-15	4						

Cardinal Laboratories

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\*=Accredited Analyte

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Celego Keine



## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210 (505) 748-4635

Fax To:

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2 - 25' (H400144-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.893	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	5.34	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	1.15	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	4.27	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	11.7	0.300	01/21/2014	ND					=
Surrogate: 4-Bromofluorobenzene (PIL	114 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.6	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	<10.0	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	82.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	85.8 9	63.6-15	4						

Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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Celeg & Kee



## Analytical Results For:

YATES PETROLEUM CORPORATION LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2 - 30' (H400144-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.29	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	14.5	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	2.87	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	10.6	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	31.3	0.300	01/21/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	138 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	01/21/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	32.1	10.0	01/20/2014	ND	185	92.3	200	6.86	
DRO >C10-C28	<10.0	10.0	01/20/2014	ND	183	91.3	200	6.89	
Surrogate: 1-Chlorooctane	85.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.0	% 63.6-15-	4						

Cardinal Laboratories

Received by OCD: 10/13/2021 4:13:52 PM

\*=Accredited Analyte

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Celeg D. Keene



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celay D. Keene

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January 17, 2014

LUPE CARRASCO

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: KENT BSK #1 (PENASCO WATER LINE)

Enclosed are the results of analyses for samples received by the laboratory on 01/16/14 11:15.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keens

Celey D. Keene

Received by OCD: 10/13/2021 4:13:52 PM

Lab Director/Quality Manager



## Analytical Results For:

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

Received:

01/16/2014

Sampling Date:

01/15/2014

Reported:

01/17/2014

Sampling Type:

Water

Project Name:

KENT BSK #1 (PENASCO WATER LINE)

Sampling Condition:

Cool & Intact

Project Number:

103-163

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

## Sample ID: KENT BSK #1 (H400146-01)

BTEX 8021B	mg/	L	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	81.4	0.500	01/17/2014	ND	0.020	100	0.0200	3.14	
Toluene*	56.5	0.500	01/17/2014	ND	0.020	102	0.0200	3.61	
Ethylbenzene*	1.86	0.500	01/17/2014	ND	0.021	106	0.0200	3.73	
Total Xylenes*	6.87	1.50	01/17/2014	ND	0.063	106	0.0600	3.05	
Total BTEX	147	3.00	01/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.69	% 89.5-12	6						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	13200	4.00	01/17/2014	ND	100	100	100	0.00	
TPH 8015M	mg/	L.	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	205	1.00	01/16/2014	ND	41.5	83.0	50.0	15.5	
DRO >C10-C28	1.39	1.00	01/16/2014	ND	40.4	80.9	50.0	16.6	
EXT DRO >C28-C35	<1.00	1.00	01/16/2014	ND	0.597		0.00		
Surrogate: 1-Chlorooctane	83.8 %	6 48.7-16	4						
Surrogate: 1-Chlorooctadecane	82.7 %	6 54.8-16.	5						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

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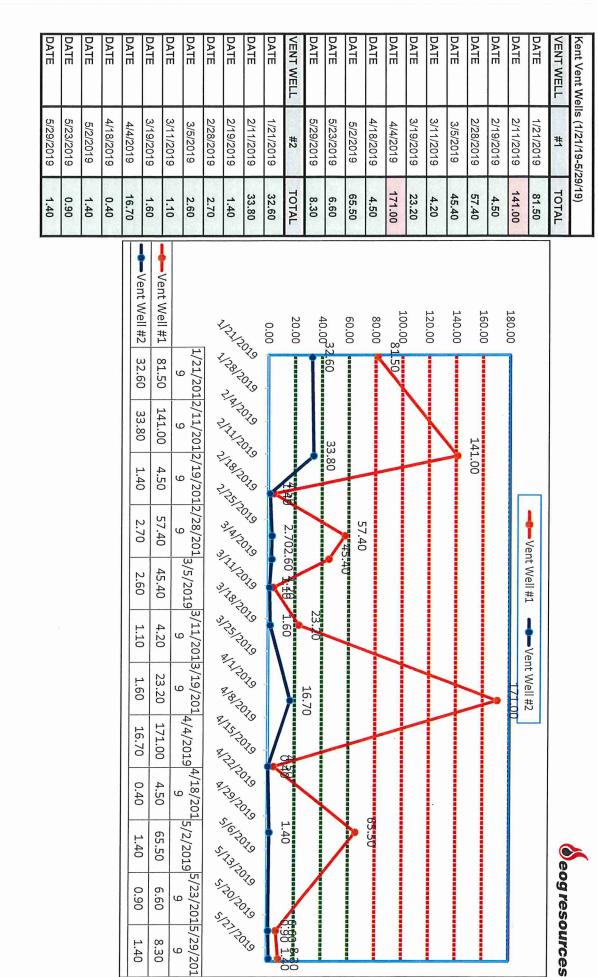


## Figure 4

Field analysis of Vent Well Sampling

# Kent Vent Well Sampling - PID Meter Totals

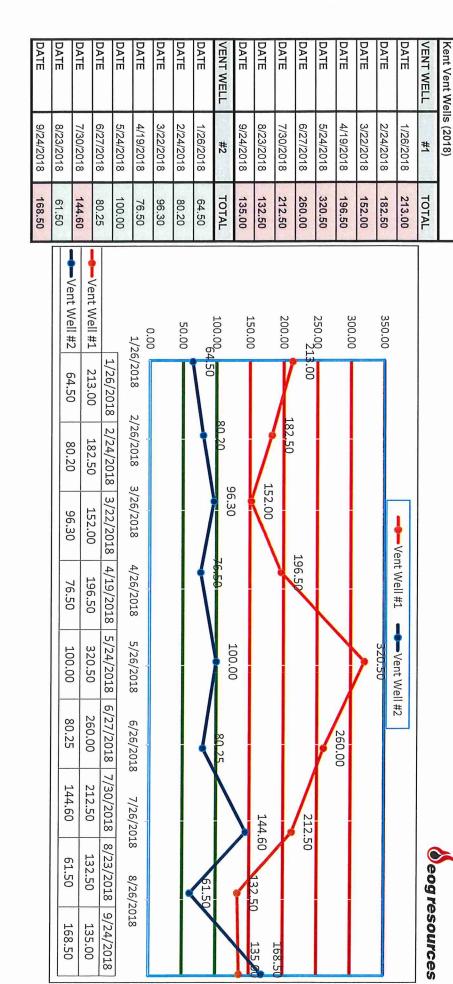
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DATE	DATE		DATE	DATE	DATE	DATE	DATE	VENT WELL	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	VENT WELL	Kent Vent Wells (2018 Remediact)
0107/17/11	11/20/2010	11/10/2010	11/12/2018	11/1/2018	10/29/2018	10/22/2018	10/12/2018	#2	12/17/2018	11/27/2018	11/26/2018	11/15/2018	11/12/2018	11/1/2018	10/29/2018	10/22/2018	10/12/2018	#1	s (2018 Remed
0.20	0.70	5 70	6.30	18.90	25.30	28.00	154.00	TOTAL	0.90	4.20	1.90	12.90	20.20	16.50	16.50	52.00	121.00	TOTAL	diact)
	<b>■●</b> Vent Well #2 154.00 28.00 25.30 18.90 1.90 6.30 5.70 0.20 1.90	<b>- • - • • • • • • • • • • • • • • • • •</b>	10/12/2018 10/22/2018 10/29/2018 11/1/2018 11/12/2018 11/15/2018 11/26/2018 11/27/2018 12/17/2018	10/1 10/1 10/2 10/2 10/2 10/2 10/3 11/, 11/, 11/, 11/, 11/, 11/, 11/, 11	9/20 3/20 5/20 7/20 9/20 1/20 3/20 5/20	018		16.5d8.90 20.20,290	40 00 3E 30	60.00	80.00	100.00	120.00	140.00127.07	160.00		Vent Well #1 Vent Well #2	<b>Veogresources</b>	

# Kent Vent Well Sampling

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Kent Vent Wells (2017)	#1 1/6/2017	TOTAL 96.70
	1/6/2017 2/24/2017	96.70 173.40
	3/10/2017	188.20
DATE	4/14/2017	215.60
DATE	5/19/2017	161.40
DATE	6/23/2017	132.00
DATE	7/14/2017	167.50
DATE	8/11/2017	154.90
DATE	9/15/2017	115.20
DATE	10/18/2017	149.50
DATE	11/16/2017	188.00
DATE	12/19/2017	102.50
VENT WELL	#2	TOTAL
DATE	1/6/2017	76.10
DATE	2/24/2017	86.40
DATE	3/10/2017	68.90
DATE	4/14/2017	128.10
DATE	5/19/2017	80.40
DATE	6/23/2017	73.20
BTAD	7/14/2017	61.90
DATE	8/11/2017	143.00
DATE	9/15/2017	81 50
DATE	10/18/2017	104.60
1	10/10/2017	104.00
DATE	11/16/2017	84.00
DATE	12/19/2017	110.50

# Kent Vent Well Sampling - PID Meter Totals

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Kent Vent Wells (2016)	lls (2016)		
VENT WELL	#1	TOTAL	@eog resources
DATE	1/21/2016	90.60	Vent Well #1
DATE	2/8/2016	112.80	180.00
DATE	3/8/2016	106.70	
DATE	4/15/2016	136.50	160.00 149.50 144.60
DATE	5/13/2016	120.50	140.00 136.50 132.50
DATE	6/17/2016	160.00	120.50
DATE	7/29/2016	112.50	120.0009.46 12.80 106.70 110.00
DATE	8/25/2016	132.50	100.000 5869.00
DATE	9/21/2016	88.20	84.00
DATE	10/28/2016	149.50	80.00
DATE	11/17/2016	120.68	60.00
DATE	12/20/2016	102.00	
VENT WELL	#2	TOTAL	40.00
DATE	1/21/2016	109.40	20.00
DATE	2/8/2016	89.00	
DATE	3/8/2016	84.00	
DATE	4/15/2016	110.00	1/21/2016 2/21/20163/21/2016 4/21/2016 5/21/2
DATE	5/13/2016	74.05	201 <sub>2/8/2016</sub> 3/8/ <sub>2016</sub> 4/15/2015/13/2016/17/2017/29/2018/25/2019/21/201 <u>10/28/2011</u>
DATE	6/17/2016	80.20	00 60 113 00 106 70 136 60 130 60 6 6 16 16
DATE	7/29/2016	96.30	90.80
DATE	8/25/2016	76.50	Vent Well #2 109.40   89.00   84.00   110.00   74.05   80.20   96.30   76.50   101.00   80.25   144.60   61.15
DATE	9/21/2016	101.00	
DATE	10/28/2016	80.25	
DATE	11/17/2016	144.60	
DATE	12/20/2016	61 15	

# Kent Vent Well Sampling - PID Meter Totals

DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	VENT WELL	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	VENT WELL	Kent Vent Wells (2015)	
12/16/2015	11/11/2015	10/14/2015	9/21/2015	8/23/2015	7/29/2015	6/23/2015	5/24/2015	4/19/2015	3/22/2015	2/25/2015	1/28/2015	#2	12/16/2015	11/11/2015	10/14/2015	9/21/2015	8/23/2015	7/29/2015	6/23/2015	5/24/2015	4/19/2015	3/22/2015	2/25/2015	1/28/2015	生	ells (2015)	
80.80	82.90	92.60	82.70	61.15	144.60	80.25	100.00	76.50	96.30	80.20	64.05	TOTAL	79.70	51.30	105.80	88.20	132.50	212.50	260.00	320.50	196.50	152.00	182.50	213.00	TOTAL		
				08.08   20.20   20.20   20.30   100.00   20.20   144.80   21.15   82.70   92.80   80.80	64 0E 00 30 06 30 76 E0 100 00 00 00 11 114 60 61 15 00 20 00 00 00 00 00 00 00 00 00 00 00	260 00 212 E0 122 E0 88 20 10E 80 E1 20 E1 20	/2017/29/2018/23/2019/21/20110/14/2011/11/2012/	1/28/2013 2/28/2013 3/31/2013 4/30/2013 5/31/2013 6/30/2015 //31/2015 8/31/2015 9/30/2015 10/31/201511/30/2015	- 11		50.00	04100	76.50 80.25 80.4H	96.30 100.00		152.00	200.00 182.50	213.00	250.00	260.00	300.00	320.50		Vent Well #1 Went Well #2	<b>©</b> eog resources		

## Figure 5

Field analysis of Vent Well Sampling (using Remediact treatments)

# Kent Vent Well Sampling - PID Meter Totals

# Released to Imaging: 10/20/2021 2:50:13 PM

CATE   9/12/2019   9.90   20.80   25.00   20.80   20	Kent Vent Wells (9/6/19-12/19/19)	ls (9/6/19-12/1	9/19)	
9/8/2019 0.00  9/17/2019 20.80  10/4/2019 6.40  10/10/2019 1.90  11/114/2019 5.30  11/12/1/2019 2.30  11/12/1/2019 0.00  9/6/2019 0.00  9/12/2019 0.00  9/12/2019 0.00  9/12/2019 0.00  10/4/2019 2.20  10/4/2019 2.00  10/4/2019 2.00  10/4/2019 2.40	VENT WELL	#	TOTAL	(Ø)eog resou
9/12/2019 20.80  9/27/2019 5.90  10/1/2019 6.40  10/10/2019 1.90  11/14/2019 5.30  11/14/2019 2.30  11/14/2019 16.80  9/27/2019 16.80  9/27/2019 2.20  9/27/2019 2.20  10/4/2019 2.20  10/4/2019 2.00  10/10/2019 1.70  10/10/2019 2.40  11/14/2019 8.80  11/174/2019 8.80	DATE	9/6/2019	0.00	.
9/27/2019 9.90  10/4/2019 6.40  10/10/2019 3.10  10/10/2019 1.90  11/14/2019 5.30  11/21/2019 2.30  11/21/2019 0.00  9/12/2019 0.00  9/12/2019 2.20  10/4/2019 2.20  10/4/2019 2.20  10/10/2019 1.70  10/25/2019 2.40  10/10/2019 2.40  Vent Well #1 0.00 20.80  11/14/2019 2.90  11/21/2019 8.80  Vent Well #2 0.00 8.40  20.80  20.80  20.80  20.80  9/27/2019 9/27/2019 10/4/  9/6/2019 9/12/2019 9/27/2019 10/4/  11/21/2019 2.90	DATE	9/12/2019	20.80	
10/4/2019   6.40   20.00   3.10   10/10/2019   3.10   15.00   8.40   9.90	DATE	9/27/2019	9.90	20.80
10/10/2019   3.10   15.00   15.00   9.90   9.90   11/14/2019   5.30   10.00   8.40   9.90   6.40   11/21/2019   16.80   5.00   9/6/2019   0.00   9/12/2019   8.40   9/12/2019   2.20   9/27/2019   2.20   10/40/2019   2.20   10/10/2019   2.40   10/10/2019   2.40   10/125/2019   2.40   -Vent Well #1   0.00   20.80   9.90   6.40   11/21/2019   2.90   -Vent Well #2   0.00   8.40   2.20   2.10   2.10   2.10   2.20   2.10   2.20	DATE	10/4/2019	6.40	20.00
10/25/2019   1.90   1.5.00   1.5.00   1.70   1.70   1.000   1.7	DATE	10/10/2019	3.10	
1/1/4/2019   5.30   10.00   8.40   9.90   6.40	DATE	10/25/2019	1.90	15.00
11/21/2019   2.30   10.00   8.40   2.20   2.00   3.40	DATE	11/14/2019	5.30	9.90
WELL       #2       TOTAL       5.00       2.20       2.00       3.10         9/6/2019       0.00	DATE	11/21/2019	2.30	8.40
WELL         #2         TOTAL         5.00         2.20         2.00         2.10	DATE	12/19/2019	16.80	5.30
9/6/2019 0.00 9/12/2019 8.40 9/27/2019 2.20 10/4/2019 2.00 10/10/2019 1.70 10/25/2019 2.40 11/14/2019 8.80 11/21/2019 4.30 12/19/2019 2.90	VENT WELL	#2	TOTAL	2.20 2.00 3.40 4:98
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9/27/2019 2.20  10/4/2019 2.00  10/10/2019 1.70  10/25/2019 2.40  11/14/2019 8.80  11/21/2019 4.30  12/19/2019 2.90	DATE	9/12/2019	8.40	
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12/19/2019	DATE	11/21/2019	4.30	0.00 0.40 2.20 2.00 1.70 2.40 0.60 4.30
	DATE	12/19/2019	2.90	

Kent Vent Wells (6/13/19-8/28/19)



## Figure 6

**NMOCD Sampling & Final Sampling Notifications** 

## **Bob Asher**

From:

**Bob Asher** 

Sent:

Wednesday, October 23, 2019 5:16 AM

To:

robert.hamlet@state.nm.us

Cc:

Katie Jamison (Katie\_Jamison@eogresources.com); Chase Settle

Subject:

Sample Notification (Kent Vent Wells)

Tracking:

Recipient

Read

robert.hamlet@state.nm.us

Katie Jamison (Katie\_Jamison@eogresources.com)

Chase Settle

Read: 10/23/2019 8:55 AM

Released to Imaging: 10/20/2021 2:50:13 PM

Rob,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location on October 25, 2019 at 7:00 AM. If you have any questions please contact me.

Kent Vent Wells UL D, Section 29, T18S-R26E Eddy County, NM

Thank you,

Robert Asher, Environmental Supervisor, S & E Department, EOG Resources, Inc. Artesia Division 104 South Fourth Street, Artesia, NM 88210, 575-748-4217 (Office), 575-365-4021 (Cell) EOG Safety Begins with YOUR Safety

&eogresources

From: Sent:

**Bob Asher** Tuesday, November 19, 2019 6:31 AM

To: Cc:

**Bob Asher** 

robert.hamlet@state.nm.us

Subject:

Katie Jamison (Katie\_Jamison@eogresources.com); Chase Settle

RE: Sample Notification (Kent Vent Wells)

Tracking:

Recipient

Read

robert.hamlet@state.nm.us

Katie Jamison (Katie\_Jamison@eogresources.com)

Read: 11/19/2019 9:05 AM

Released to Imaging: 10/20/2021 2:50:13 PM

Chase Settle

Rob,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location on November 21, 2019 at 7:00 AM. If you have any questions please contact me.

Kent Vent Wells UL D, Section 29, T18S-R26E Eddy County, NM

Thank you,

Robert Asher, Environmental Supervisor, S & E Department, EOG Resources, Inc. Artesia Division 104 South Fourth Street, Artesia, NM 88210, 575-748-4217 (Office), 575-365-4021 (Cell) EOG Safety Begins with YOUR Safety

*<b>@eogresources* 

## **Bob Asher**

From:

**Bob Asher** 

Sent:

Tuesday, December 17, 2019 11:43 AM

To:

robert.hamlet@state.nm.us

Cc:

Katie Jamison (Katie\_Jamison@eogresources.com); Chase Settle

Subject:

Sampling Notification (Kent Vent Wells)

EOG Resources, Inc. respectfully submits notification of sampling activities to be conducted at the below location. Sampling will begin at 12:00 p.m. on Thursday, December 19, 2019. This sampling event is expected to be the final confirmation sampling event before site closure is requested.

Kent Vent Wells Section 29, T18S-R26E Eddy County, New Mexico

Thank you,

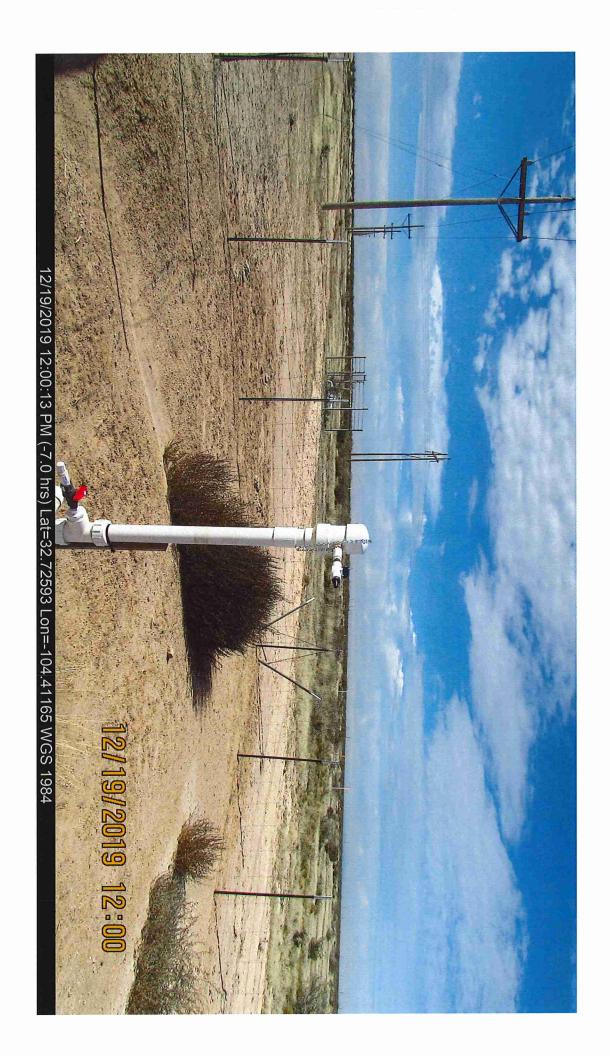
Robert Asher, Environmental Supervisor, S & E Department, EOG Resources, Inc. Artesia Division 104 South Fourth Street, Artesia, NM 88210, 575-748-4217 (Office), 575-365-4021 (Cell) EOG Safety Begins with YOUR Safety

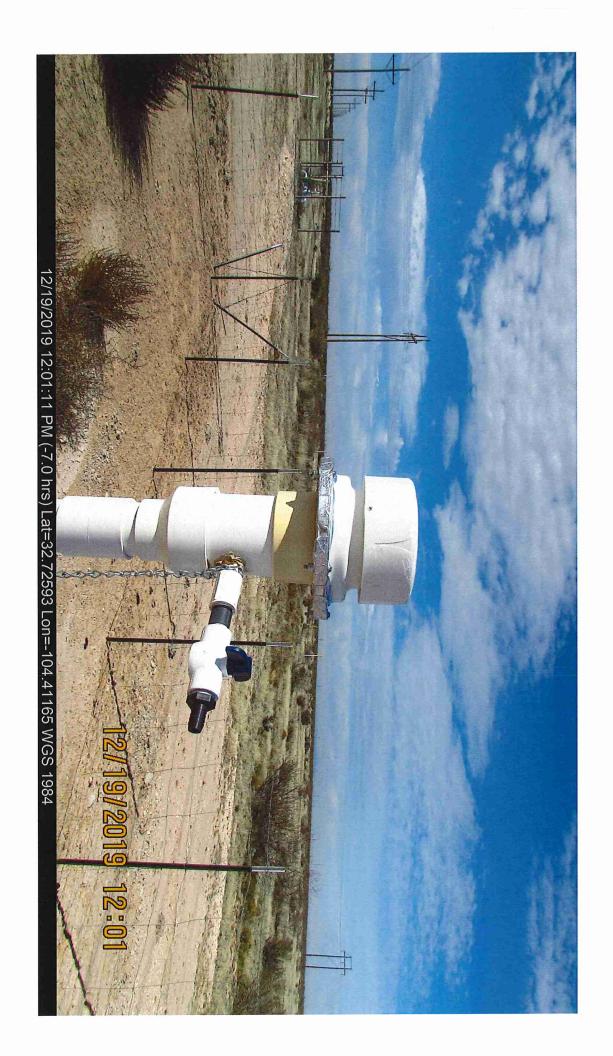
**O**eogresources



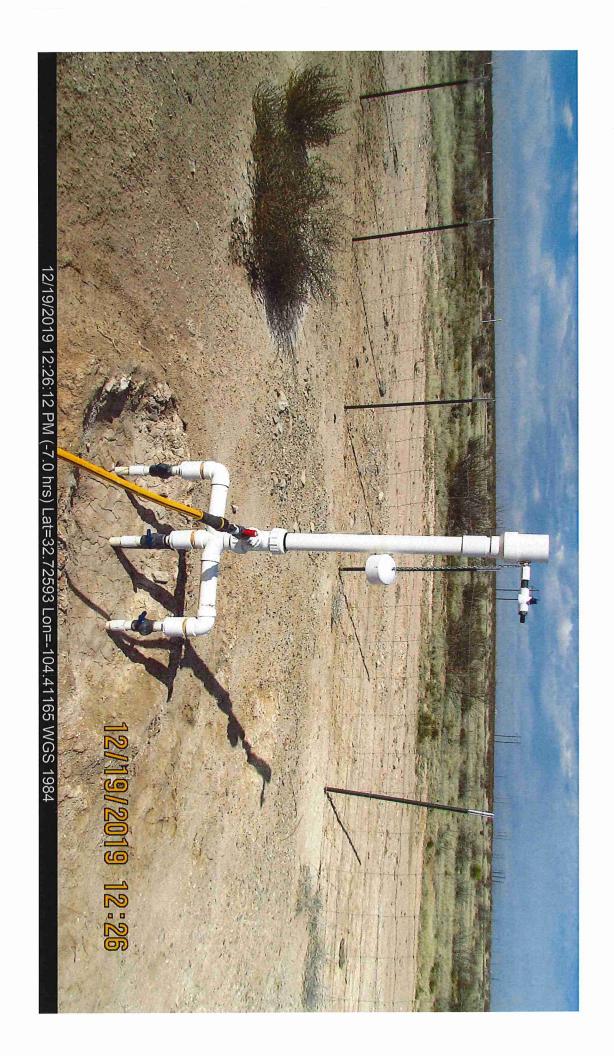
## Figure 7

Sampling/bioremediation photographs

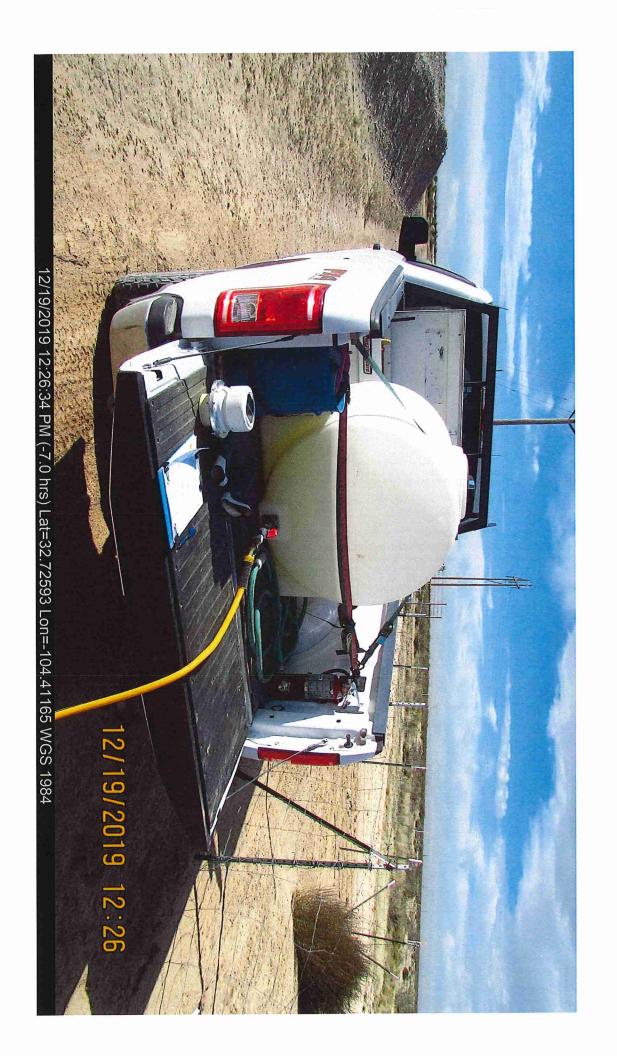












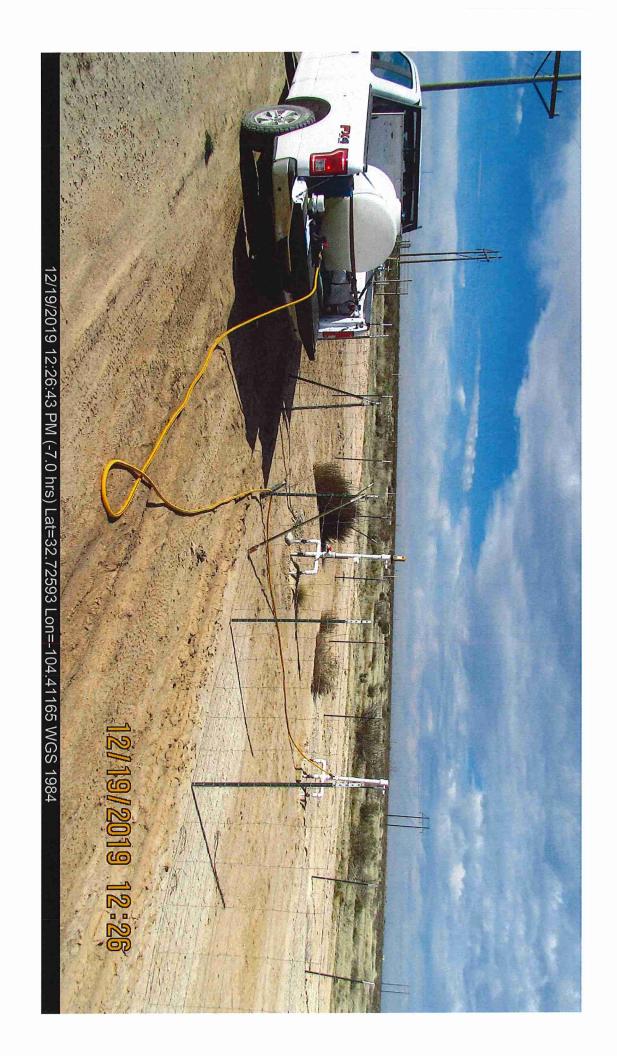


Figure 8
Initial C-141

**O**eog resources

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 882102 3 2013 Engistrict III 1000 Rio Brazos Road, Aztes, NM 80210 ARTESIA 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: 10/20/2021 2:50:13 PM

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

- 1	Release Notification and Corrective Action											
MMCa	3150	4800	う	OF	ER	ATOR			Initia	al Report		Final Report
Name of Co				OGRID Num	ber	Contact	· · · · · · · · · · · · · · · · · · ·					
Yates Petro	leum Corp	oration		25575		Lupe Carra						
Address 104 S. 4 <sup>TH</sup>	Street					Telephone 1 575-748-14						
Facility Na		<del></del>		API Number		Facility Typ						
		iear Kent BS	K #1H)	30-015-4016	51	Water Line						
Surface Ow	mer			Mineral O	wner							
Fee	1101			Fee	W1101				N/A			
				LOCA	TIO	N OF RE	TRASE					
Unit Letter	Section	Township	Range	Feet from the		1/South Line	Feet from the	East/\	West Line	County		
P	20	18S	26E	400		South	330	1	East	Eddy		
	<u> </u>	<u> </u>	<u> </u>					<u> </u>				
				Latitude 32.7	2988	Longitud	e 104.39539					
						OF REL		-				
Type of Rele	ase			NAI	UKE	Volume of			Volume I	Recovered		
Produced Wa						15 B/PW			8 B/PW			
Source of Re					,		Iour of Occurrent	ce		Hour of Di	scovery	1
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By Whom?						Date and H	Iour					
Was a Water	course Read	shed?				If VES Vo	lume Impacting	the Wate	rrourse			WHITE
			Yes 🛭			N/A	manie impacting	uic wax				
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	<b>* •</b>								
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		ck dispatened and Cleanup A		r fluid. Crew calle en.*	a to re	pair line and s	cape impacted ar	ea.	······	***************************************		
An approxim	ate area of	3' X 50' was i	mpacted.	Impacted soil to be	scrap	ed and dispose	ed at an NMOCD	approv	ed facility.	Vertical an	ıd horiz	zontal
				n for TPH & BTE will be submitted								
plan will be s	ubmitted. I	Depth to Gro	und Wate	r: >100' (approxi	matel							
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				is true and comple d/or file certain re								
public health	or the envir	onment. The	acceptanc	e of a C-141 repor	t by th	e NMOCD ma	arked as "Final R	eport" d	oes not reli	ieve the ope	rator of	f liability
				investigate and reat tance of a C-141 re								
federal, state,					oport c	ioos not renevi	the operator or	Сороно		omphanee v	· · · · · · · · · · · · · · · · · · ·	y other
							OIL CON	<u>SERV</u>	<u>ATION</u>	DIVISIO	<u> NC</u>	
Signature	<b>X</b>	Caus			l					11		
				Approved by	District Supervise	or;	10. W	1/4 B	coored.			
Printed Name	: Lupe Carr	asco				Signe	I Dy_/	77 7 74.				
Title: Enviror	mental Reg	ulatory Agen	t			Approval Date	Y 3 0 2013	E	Expiration l	Date:		
E!! A J J	1					O 4:4: 6	A1-					
E-mail Addre	ss: <u>icarrasce</u>	occuyatespetro	cum.com			Conditions of Approval:  Remodiation, per OCD Rule 8.  Attached						
Date: Tuesday				575-748-1471	G	Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION						
Attach Addit	ional Shee	ts If Necessa	ту		J	PROPOSAL NO LATER THAN: 2RP-1667						
					-	Tune 3		)			. •	
				•_		<del></del>		_				



Figure 9

Final C-141

scrap impacted area..

State of New Mexico Energy Minerals and Natural Resources Department

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

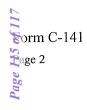
Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

				rty					
Responsible Party			OGRID						
EOG Resources, Inc.			7377						
Contact Name			Contact Te						
Robert Asher	JUNE DANIEL AND THE PROPERTY OF THE PROPERTY O		575-748-4						
Contact email			Incident #	‡ (assigned by OCD)					
bob_asher@eogresources	.com				$\dashv$				
Contact mailing address 104 S. 4 <sup>th</sup> Street, Artesia,	NM 88210								
		Location o	of Release S	Source					
Latitude 32.72988		Longitude	<u>-104.3953</u>						
<del>, , , , , , , , , , , , , , , , , , , </del>		(NAD 83 in decin	nal degrees to 5 dec	ecimal places)					
Site Name: Penasco Wat	er Line (near Kent	BSK #1H	Site Type	e: Water Line ROW					
Date Release: 5/15/2013	And the second	040000000000000000000000000000000000000	API# 30-	-015-40161					
Unit Letter Section	Township	Range	Coun	nty					
I 20	18S	26E	Edd	dy					
Surface Owner: State	Surface Owner: State Federal Tribal Private (Name: Bucciero, Betty & Nancy Arnquist ETAL)								
		Nature and							
		Nature and	Volume of	f Release  ific justification for the volumes provided below)					
Materi	al(s) Released (Select al Volume Released	Nature and	Volume of	f Release					
		Nature and	Volume of	f Release  ific justification for the volumes provided below)					
Crude Oil	Volume Released Volume Released	Nature and  I that apply and attach ca (bbls) (bbls) 96 on of dissolved chlor	Volume of	f Release  ific justification for the volumes provided below)  Volume Recovered (bbls)  Volume Recovered (bbls) 0  Yes \( \sum \) No					
Crude Oil	Volume Released Volume Released Is the concentration	Nature and  I that apply and attach ca (bbls) (bbls) 96 on of dissolved chlor 10,000 mg/l?	Volume of	f Release  ific justification for the volumes provided below)  Volume Recovered (bbls)  Volume Recovered (bbls) 0					
☐ Crude Oil ☐ Produced Water	Volume Released  Volume Released  Is the concentration produced water >	Nature and  I that apply and attach ca (bbls) (bbls) 96 on of dissolved chlor 10,000 mg/l? (bbls)	Volume of	f Release  ific justification for the volumes provided below)  Volume Recovered (bbls)  Volume Recovered (bbls) 0  Yes \( \sum \) No					

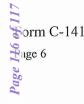
Cause of Release: Water line break due to normal wear and age of line, in addition to expansion and contraction of the line due to cool nights and warm days. Line isolated and shut in. Vacuum truck dispatched to recover fluid. Crew called to repair line and



## State of New Mexico Oil Conservation Division

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District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?	
release as defined by 19.15.29.7(A) NMAC?	,	
19.13.29.7(A) INIVIAC:		
☐ Yes ⊠ No		
If YES, was immediate n	notice given to the OCD? By whom? To whom? When and by what means (phone, ema	il, etc)?
	Initial Response	
The responsibl	rible party must undertake the following actions immediately unless they could create a safety hazard that would	result in injury
The source of the rele	elease has been stopped.	
The impacted area ha	has been secured to protect human health and the environment.	
Released materials ha	have been contained via the use of berms or dikes, absorbent pads, or other containment d	evices.
All free liquids and re	recoverable materials have been removed and managed appropriately.	
If all the actions describe	bed above have not been undertaken, explain why:	
Per 19.15.29.8 B. (4) NM	MAC the responsible party may commence remediation immediately after discovery of a	release. If remediation
has begun, please attach	ch a narrative of actions to date. If remedial efforts have been successfully completed or nent area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure.	if the release occurred
I hereby certify that the info	nformation given above is true and complete to the best of my knowledge and understand that pursua are required to report and/or file certain release notifications and perform corrective actions for release	nt to OCD rules and ses which may endanger
public health or the environ	onment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability show	ald their operations have
failed to adequately investig addition. OCD acceptance o	tigate and remediate contamination that pose a threat to groundwater, surface water, human health or e of a C-141 report does not relieve the operator of responsibility for compliance with any other fede	ral, state, or local laws
and/or regulations.		
 	Title:	
Signature:	Date:	
email:	Telephone:	
och o l		
OCD Only		
Received by:	Date:	



## State of New Mexico Oil Conservation Division

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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					
and regulations all operators are required to report and/or file certal may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in				
Printed Name: Robert Asher	Title: Environmental Supervisor				
Signature:	Date: <u>12/19/2019</u>				
email: bob_asher@eogresources.com	Telephone: <u>575-748-4217</u>				
OCD Only					
Received by:	Date:				
	rty of liability should their operations have failed to adequately investigate surface water, human health, or the environment nor does not relieve the cal laws and/or regulations.				
osure Approved by:	Date:				
inted Name:					
à					

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 55836

## **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	55836
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By	Condition	Condition Date
bbillings	Proceed with vent closures and 4 foot soil excavation and then submit report on these activities.	10/20/2021