

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

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

Release Notification

Responsible Party

| | |
|--|--------------------------------|
| Responsible Party EOG Resources, Inc. | OGRID 7377 |
| Contact Name Chase Settle | Contact Telephone 575-748-1471 |
| Contact email Chase_Settle@eogresources.com | Incident # NJMW1315048005 |
| Contact mailing address 104 S. 4th Street, Artesia, NM 88210 | |

Location of Release Source

Latitude 32.72988 Longitude -104.39539
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|--|----------------------|
| Site Name Penasco Water Line (near Kent BSK #1H) | Site Type Water Line |
| Date Release Discovered 05/15/2013 | API# 30-015-40161 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| P | 20 | 18S | 26E | Eddy |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|--|--|---|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) 15 | Volume Recovered (bbls) 8 |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

Please refer to the attached original C-141 form for 2RP-1667 for cause of release and immediate action steps. EOG Resources is submitting for closure via the new form to formally close out this incident. All sampling and correspondence is also attached.

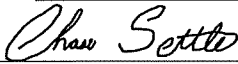
State of New Mexico
Oil Conservation Division

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|----------------|----------------|
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| | |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

Initial Response

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

| | |
|--|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name: <u>Chase Settle</u> Signature: <u></u> email: <u>Chase_Settle@eogresources.com</u> | Title: <u>Rep Safety & Environmental Sr</u> Date: <u>10/11/2021</u> Telephone: <u>575-748-1471</u> |
| <u>OCD Only</u> Received by: _____ Date: _____ | |

State of New Mexico
Oil Conservation Division

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Site Assessment/Characterization

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

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

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

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

| | |
|----------------|----------------|
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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

| | |
|----------------|----------------|
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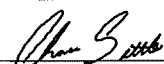
Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chase Settle Title: Rep Safety and Environmental Sr
 Signature:  Date: 10/11/2021
 email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 10/20/2021
 Printed Name: Bradford Billings Title: Envi.Spec.A

NOTE: Proceed with vent removal and agreed to 4 foot excavation, and submit report thereof.



EOG Resources, Inc.
Artesia Division Office
104 S. 4th 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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Figure 2: Photographs of the site

Figure 3: Laboratory analysis of initial/track-hoe and core rig sampling

Figure 4: Field analysis of Vent Well Sampling

Figure 5: Field analysis of Vent Well Sampling (using Remediate treatments)

Figure 6: NMOCD Sampling & Final Sampling Notifications

Figure 7: Sampling/bioremediation photographs

Figure 8: Initial C-141

Figure 9: Final C-141

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 upgradient 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 upgradient 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 Remediate.

Liquid Remediate™ 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 Remediate™ is highly concentrated. This product must be mixed in a ratio of 10 parts water to 1-part Liquid Remediate™.

EOG began to see significant reduction in volatiles when measured with the PID meter (Figure 5) until July 2019. On July 25, 2019, EOG modified the Remediate 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.

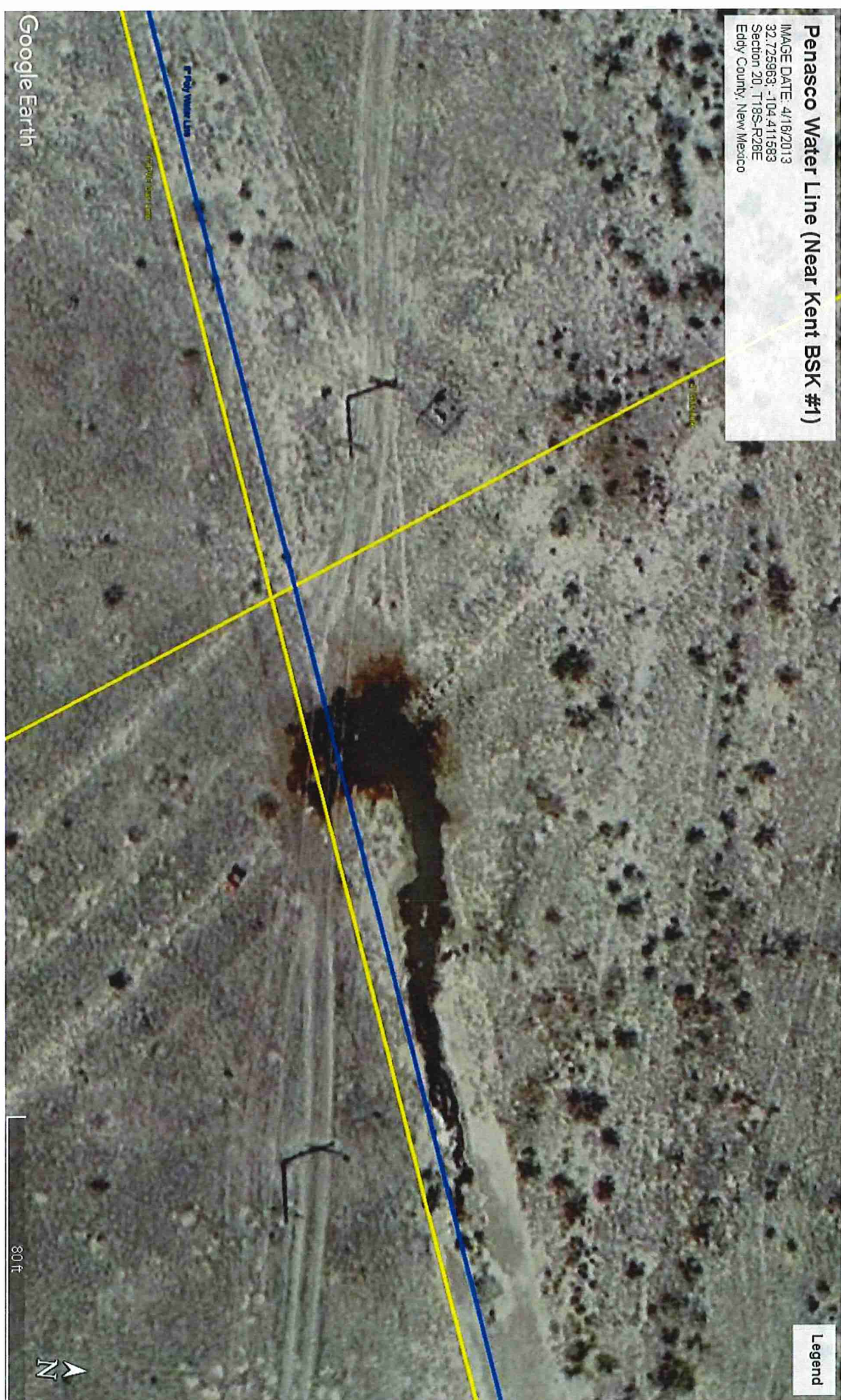
Begin treatment process by gravity feeding approximately 10 – 15 gallons of Remediate solution into each core (3) of the two (2) vent wells.

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

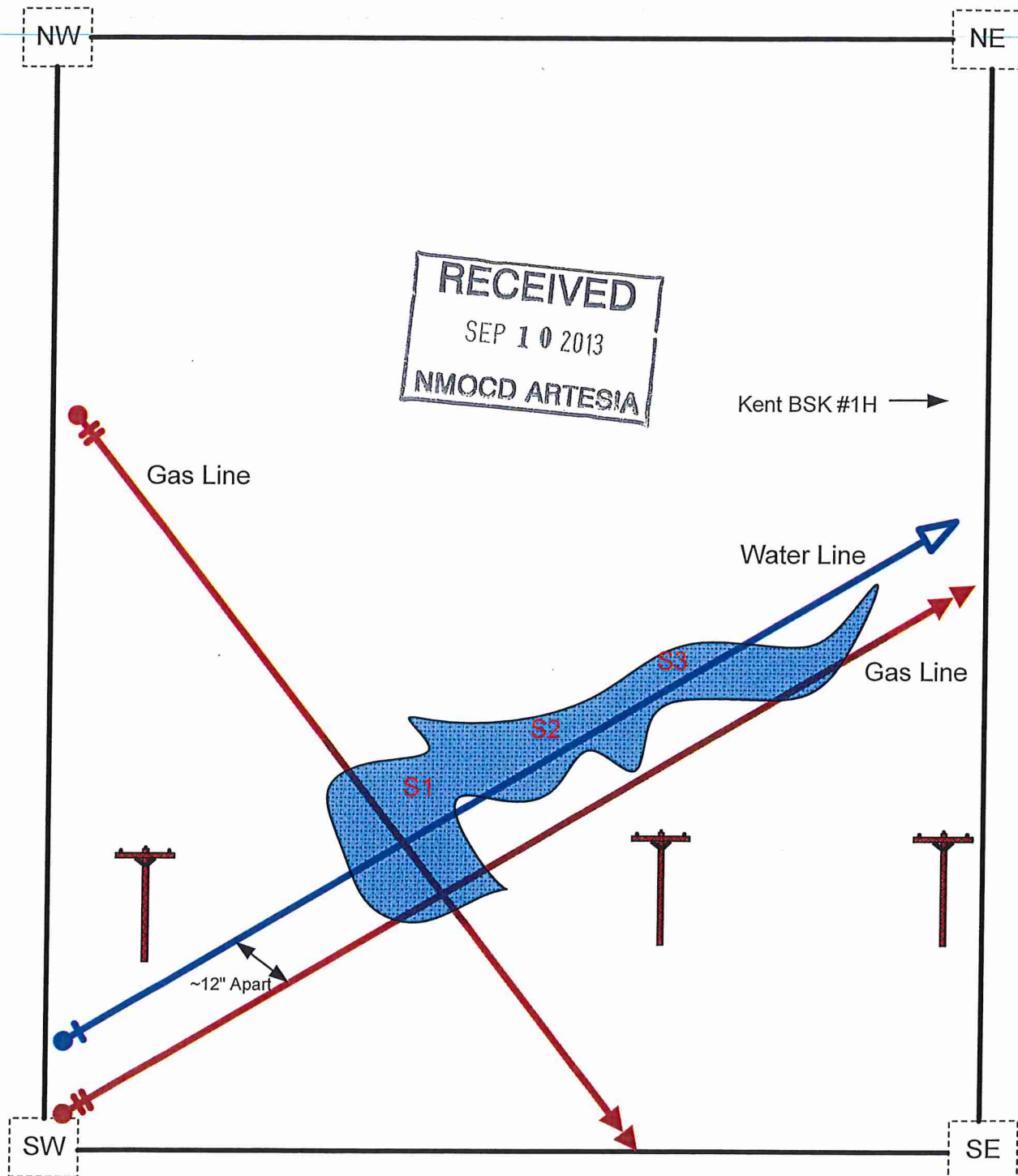
Scaled Site Map and Sampling Diagram



YATES PETROLEUM CORPORATION

Tuesday, June 25, 2013

Penasco Water Line (near Kent BSK #1H)



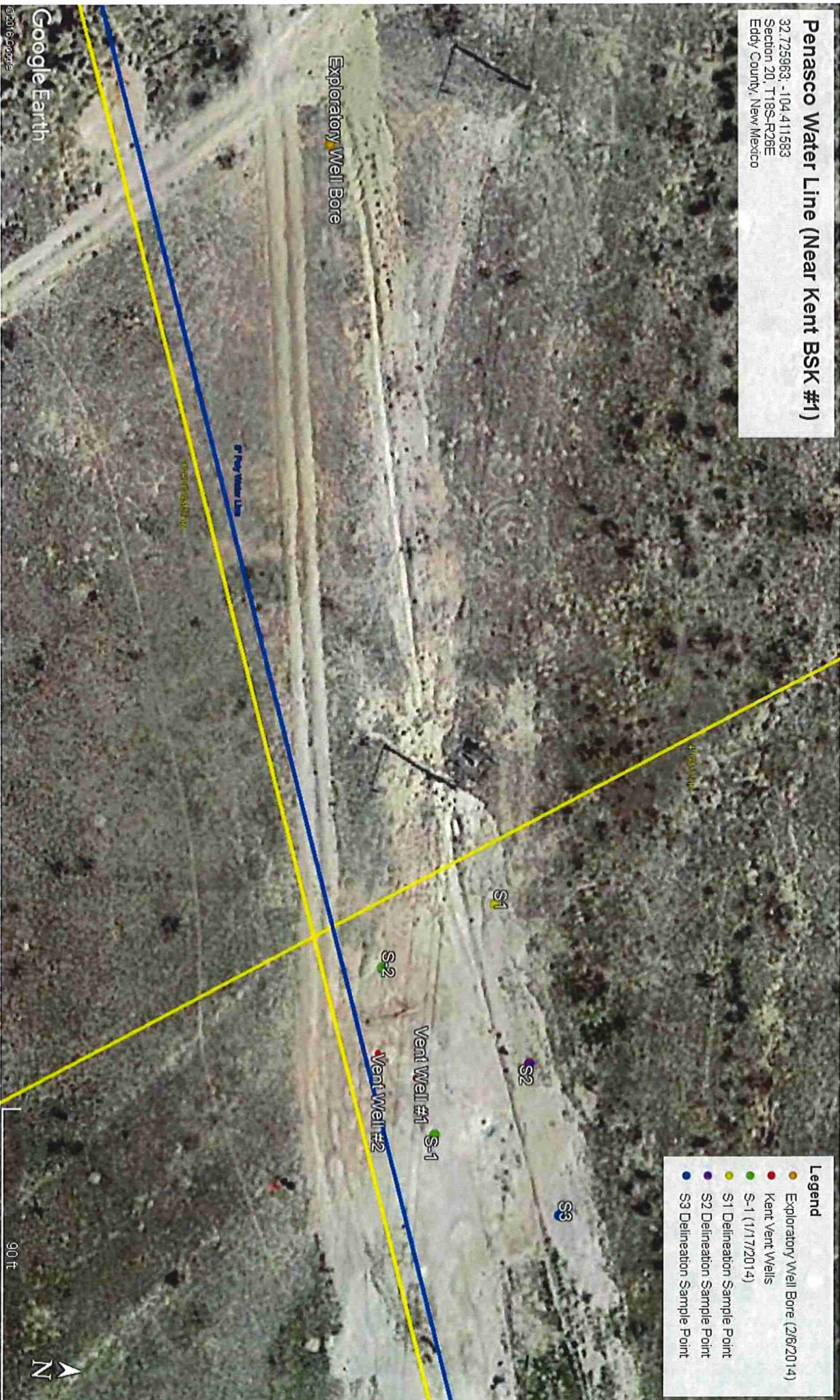
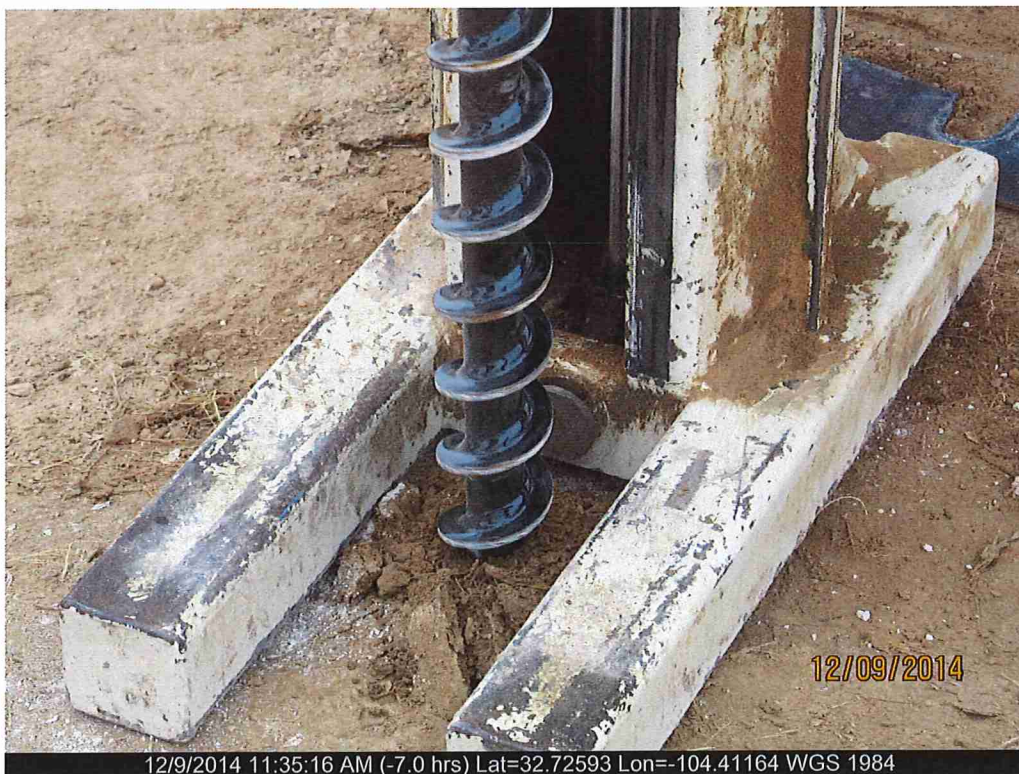


Figure 2

Photographs of the site







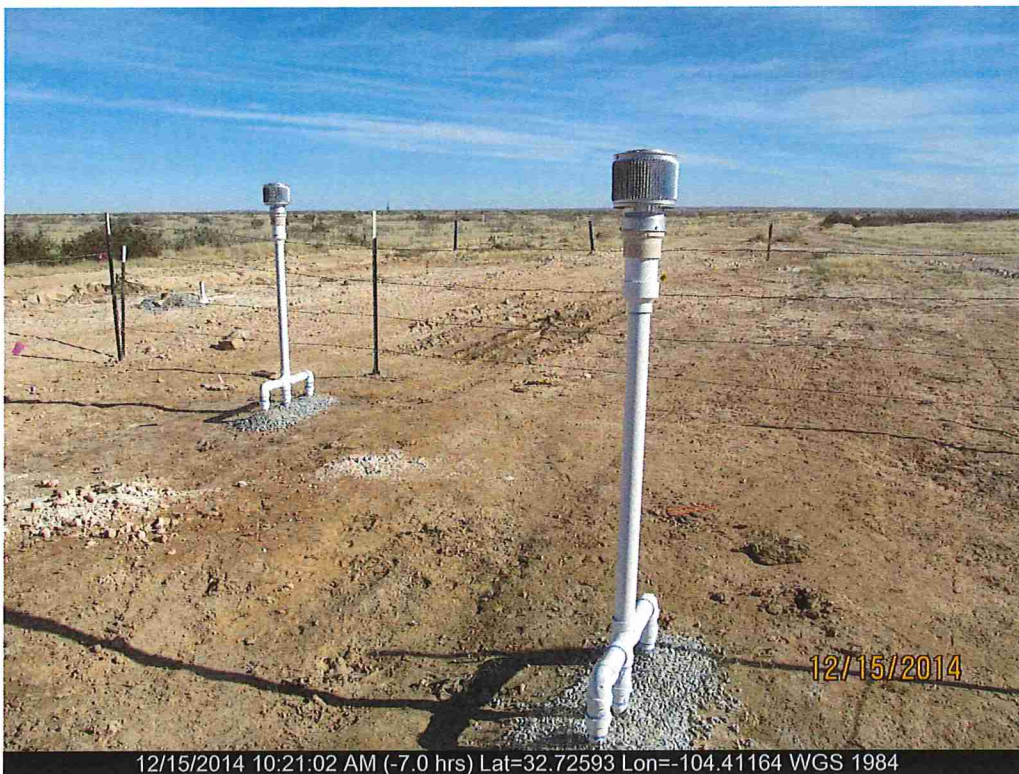


Figure 3

**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





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

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

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 (PIE) 114 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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/kg | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

YATES PETROLEUM CORPORATION
 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 - 3 (H301320-02)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 104 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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/kg | | Analyzed By: MS | | | | | | 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 % 63.6-154

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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: 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 (PIC) 106 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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Analytical Results For:

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 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 - 1 (H301320-04)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 109 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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 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 - 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 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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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 | Analyzed 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 (PIE) 104 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | Analyzed 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 | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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| | | | |
|-------------------|------------------------------------|---------------------|---------------|
| 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 - 1 (H301320-07)

| BTEX 8021B | | mg/kg | | Analyzed 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 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 63.6-154

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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 - 3 (H301320-08)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 109 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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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 | | Analyzed 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 (PIE) 108 % 89.4-126

| Chloride, SM4500Cl-B | | | mg/kg | | | | | | | Analyzed 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 | | | | | | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.4 % 63.6-154

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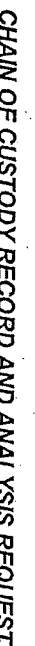
Notes and Definitions

- 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 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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Page 12 of 12

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 | 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

*Met w/ Bratcher
Jan on 9/11/13*



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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.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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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: | 06/26/2013 | 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)

| BTX 8021B | | mg/kg | | Analyzed 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 BTX | 677 | 3.00 | 06/28/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

| Chloride, SM4500Cl-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 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.3 % 63.6-154

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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 S1-9' (H301488-02)

| BTEX 8021B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 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 | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 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 | Qualifier |
| Chloride | 12400 | 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 | 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: 1-Chlorooctadecane 93.9 % 63.6-154

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 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 S2-7' (H301488-03)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 67.1 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.4 % 63.6-154

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 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 S2-9' (H301488-04)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 83.1 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | S-06 | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| 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 | |

| 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 | 6330 | 50.0 | 06/26/2013 | ND | 208 | 104 | 200 | 0.798 | |
| DRO >C10-C28 | 380 | 50.0 | 06/26/2013 | ND | 220 | 110 | 200 | 0.475 | |

Surrogate: 1-Chlorooctane 145 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.9 % 63.6-154

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 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 S2-10' (H301488-05)

| BTX 8021B | | mg/kg | | Analyzed 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 BTX | 226 | 3.00 | 06/28/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

| Chloride, SM4500Cl-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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.8 % 63.6-154

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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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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 S3-9' (H301488-07)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8480 | 16.0 | 06/28/2013 | ND | 448 | 112 | 400 | 3.64 | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4640 | 16.0 | 06/28/2013 | ND | 432 | 108 | 400 | 3.77 | |

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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 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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Celest D. Keene, Lab Director/Quality Manager



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

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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive.

Celey D. Keene

Lab Director/Quality Manager



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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
 Reported: 08/20/2013
 Project Name: KENT BSK #1 (PENASCO WATER LINE)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

| BTEX 8021B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <4.00 | 4.00 | 08/19/2013 | ND | 2.11 | 105 | 2.00 | 0.780 | |
| Toluene* | 115 | 4.00 | 08/19/2013 | ND | 2.06 | 103 | 2.00 | 0.502 | |
| Ethylbenzene* | 34.7 | 4.00 | 08/19/2013 | ND | 2.21 | 111 | 2.00 | 1.68 | |
| Total Xylenes* | 144 | 12.0 | 08/19/2013 | ND | 6.58 | 110 | 6.00 | 1.89 | |
| Total BTEX | 294 | 24.0 | 08/19/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10400 | 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 | Qualifier |
| GRO C6-C10 | 3430 | 10.0 | 08/15/2013 | ND | 170 | 84.9 | 200 | 7.43 | |
| DRO >C10-C28 | 313 | 10.0 | 08/15/2013 | ND | 173 | 86.4 | 200 | 12.5 | |

Surrogate: 1-Chlorooctane 165 % 65.2-140

Surrogate: 1-Chlorooctadecane 160 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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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: | 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: S1-12' (H301927-02)

| BTX 8021B | | mg/kg | | Analyzed 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 BTX | 182 | 6.00 | 08/19/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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/kg | | Analyzed By: DW | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| 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

Surrogate: 1-Chlorooctadecane 190 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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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: | 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: S1-13' (H301927-03)

| BTX 8021B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.500 | 0.500 | 08/19/2013 | ND | 2.11 | 105 | 2.00 | 0.780 | |
| 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 BTX | 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 | Qualifier |
| 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 | Qualifier |
| 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: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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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: S1-15' (H301927-04)

| BTEX 8021B | | mg/kg | | Analyzed 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 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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
 Reported: 08/20/2013
 Project Name: KENT BSK #1 (PENASCO WATER LINE)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTEX 8021B

mg/kg

Analyzed 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* | 40.8 | 1.00 | 08/19/2013 | ND | 2.06 | 103 | 2.00 | 0.502 | |
| Ethylbenzene* | 20.4 | 1.00 | 08/19/2013 | ND | 2.21 | 111 | 2.00 | 1.68 | |
| Total Xylenes* | 94.9 | 3.00 | 08/19/2013 | ND | 6.58 | 110 | 6.00 | 1.89 | |
| Total BTEX | 156 | 6.00 | 08/19/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 5520 | 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 | Qualifier |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| GRO C6-C10 | 1170 | 10.0 | 08/15/2013 | ND | 170 | 84.9 | 200 | 7.43 | |
| DRO >C10-C28 | 173 | 10.0 | 08/15/2013 | ND | 173 | 86.4 | 200 | 12.5 | |

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 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: S2-11' (H301927-06)

| BTX 8021B | | mg/kg | | Analyzed 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 BTX | 544 | 24.0 | 08/19/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 99.7 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8560 | 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 | 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 % 63.6-154

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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)

| BTX 8021B | | mg/kg | | Analyzed 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 BTX | 417 | 12.0 | 08/19/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8240 | 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 | 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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



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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 | Analyzed By: DW | | | | | | |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 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 (PIB) 115 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | Analyzed 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 | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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

| Chloride, SM4500Cl-B | | mg/kg | Analyzed 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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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: S3-13' (H301927-10)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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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 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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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 | 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 is n (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

*Met w/ Bratcher
Jan on 9/11/13*



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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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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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: | 01/17/2014 | Sampling Type: | Soil |
| 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: S1 - 50' (H400145-01)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 106 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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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: | 01/17/2014 | 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)

| BTX 8021B | | mg/L | | Analyzed 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 BTX | 147 | 3.00 | 01/17/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 99.6 % 89.5-126

| Chloride, SM4500Cl-B | | mg/L | | Analyzed 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 | | Analyzed 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 % 48.7-164

Surrogate: 1-Chlorooctadecane 82.7 % 54.8-165

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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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
 Reported: 01/23/2014
 Project Name: KENT BSK #1 (PENASCO WATER LINE)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

| BTEX 8021B | | mg/kg | | Analyzed 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 % 89.4-126

| Chloride, SM4500CI-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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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
Reported: 01/23/2014
Project Name: KENT BSK #1 (PENASCO WATER LINE)
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/15/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 125 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/16/2014
 Reported: 01/23/2014
 Project Name: KENT BSK #1 (PENASCO WATER LINE)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

| BTEX 8021B | | mg/kg | Analyzed 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 (PIE) 125 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 01/21/2014 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.1 % 63.6-154

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

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



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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 - 40' (H400144-04)

| BTEX 8021B | | mg/kg | | Analyzed 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 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 01/21/2014 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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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
Reported: 01/23/2014
Project Name: KENT BSK #1 (PENASCO WATER LINE)
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/15/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 114 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.8 % 63.6-154

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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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
Reported: 01/23/2014
Project Name: KENT BSK #1 (PENASCO WATER LINE)
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/15/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

| BTEX 8021B | | mg/kg | Analyzed 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 (PIE) 138 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4800 | 16.0 | 01/21/2014 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.0 % 63.6-154

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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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: S2 - 40' (H400144-08)

| BTEX 8021B | | mg/kg | | Analyzed 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 (PIE) 124 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 800 | 16.0 | 01/21/2014 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.4 % 63.6-154

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Lupe Carrasco

Company (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4350

Sample Signature: *Lupe Carrasco*

e-mail:

lcarrasco@yatespetroleum.com

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

PO #: 103-163

Project Name:

Kent BSK #1

Project #:

Project Loc:

Page 11 of 11

b use only)

ORDER #: H400144

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total #. of Containers | Ice | HNO ₃ | HCl | H ₂ SO ₄ | NaOH | Na ₂ S ₂ O ₃ | None | Other (Specify) | DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other | TPH: 418.1 8015M 8015 | TPH: TX 1005 TX 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO ₄ , Alkalinity) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | Chlorides | SAR | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | Standard TAT |
|----------------------|------------|-----------------|--------------|--------------|--------------|----------------|------------------------|-----|------------------|-----|--------------------------------|------|---|------|-----------------|--|-----------------------|----------------------|-------------------------|---|-----------------|---------------------------------|-----------|---------------|------------------------------|-----|----------|-----------|-----|--|--------------|
| 1 | S1-20' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 2 | S1-25' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 3 | S1-30' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 4 | S1-40' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 5 | S2-20' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 6 | S2-25' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 7 | S2-30' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 8 | S2-40' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |

| Special Instructions: | Date | Time | Received by: | Date | Time | Received by: | Date | Time | Received by: |
|-----------------------|------|------|--------------|------|------|--------------|------|------|--------------|
| Relinquished by: | | | | | | | | | |
| Relinquished by: | | | | | | | | | |
| Relinquished by: | | | | | | | | | |

| Laboratory Comments: | Sample Containers Inside | VOCs Free of HeadSpace? | Labels on Containers? | Custody seals on container(s)? | Custody seals on bottle(s)? | Sample Hand Delivered by Sample/Client Rep.? | by Courier? | UPS | DHL | FedEx | Lone Star | Temperature Upon Receipt |
|----------------------|--------------------------|-------------------------|-----------------------|--------------------------------|-----------------------------|--|-------------|-----|-----|-------|-----------|--------------------------|
| | | | | | | | | | | | | 3.6 |



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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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/16/2014
 Reported: 01/17/2014
 Project Name: KENT BSK #1 (PENASCO WATER LINE)
 Project Number: 103-163
 Project Location: NOT GIVEN

Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

| BTEX 8021B | | mg/kg | | Analyzed 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 % 89.4-126

| Chloride, SM4500Cl-B | | | mg/kg | | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|--|
| | | | Analyzed 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 | | | | | | | |
|--------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|--|
| | | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.8 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN OF CUSTODY RECORD AND ANALYSIS BENEFITS

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

Project Manager: Lupe Carrasco

Compco (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4350

Sampler Signature:

Fax No:

e-mail:

lcarrasco@yatespetroleum.com

Report Format: ☒ Standard

PO #: 103-163

Project Name:

Kendrick BSK #1

Project #:

Project Loc:

Page 4 of 4

| | | | | | |
|--|--|------------|--|--|--|
| (If "see only") | | | | | |
| ORDER # H400145 | | | | | |
| LAB # (lab use only) | | | | | |
| FIELD CODE | | | | | |
| Beginning Depth | | | | | |
| Ending Depth | | | | | |
| Date Sampled | | 11/15/2014 | | | |
| Time Sampled | | | | | |
| Field Filtered | | | | | |
| Total #. of Containers | | | | | |
| Ice | | | | | |
| HNO ₃ | | | | | |
| HCl | | | | | |
| H ₂ SO ₄ | | | | | |
| NaOH | | | | | |
| Na ₂ S ₂ O ₃ | | | | | |
| None | | | | | |
| Other (Specify) | | | | | |
| DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other | | | | | |
| TPH: 418.1 8015M 8015 | | | | | |
| TPH: TX 1005 TX 1006 | | | | | |
| Cations (Ca, Mg, Na, K) | | | | | |
| Anions (Cl, SO ₄ , Alkalinity) | | | | | |
| SAR / ESP / CEC | | | | | |
| Metals: As Ag Ba Cd Cr Pb Hg Se | | | | | |
| Volatiles | | | | | |
| Semivolatiles | | | | | |
| BTX 8021B/5030 or BTX 8260 | | | | | |
| RCI | | | | | |
| N.O.R.M. | | | | | |
| Chlorides | | | | | |
| SAR | | | | | |
| RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | | | | | |
| Standard TAT | | | | | |
| Special Instructions: | | | | | |
| Reinquired by: | | | | | |
| Reinquired by: | | | | | |
| Reinquired by: | | | | | |
| Received by: [Signature] | | | | | |
| Date: 11/16/14 Time: 11:15 | | | | | |
| Received by: ELOI | | | | | |
| Date: Time: | | | | | |
| Laboratory Comments: | | | | | |
| Sample Container Label: | | | | | |
| Labels on container(s): | | | | | |
| Custody seals on container(s): | | | | | |
| Custody seals on cooler(s): | | | | | |
| Sample Hand Delivered: | | | | | |
| by Carrier? UPS DHL FedEx Lone Star | | | | | |
| Temperature Upon Receipt: 3.6 °C | | | | | |



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

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive.

Celey D. Keene

Lab Director/Quality Manager



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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 - 20' (H400144-01)

| BTEX 8021B | | mg/kg | Analyzed 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 (PIE) 119 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | Analyzed 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 | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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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
 Reported: 01/23/2014
 Project Name: KENT BSK #1 (PENASCO WATER LINE)
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

| BTX 8021B | | mg/kg | | Analyzed 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 BTX | 16.9 | 0.300 | 01/21/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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 - 40' (H400144-04)

| BTEX 8021B | | | mg/kg | | Analyzed 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 (PIC) 108 % 89.4-126

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 01/21/2014 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | | mg/kg | | Analyzed By: ms | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Page 81 of 117
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Released to Imaging: 10/20/2021 2:50:13 PM



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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: S2 - 20' (H400144-05)

| BTEX 8021B | | mg/kg | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 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 (PIE) 112 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | Analyzed 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 | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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: S2 - 25' (H400144-06)

| BTX 8021B | | mg/kg | | Analyzed 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 BTX | 11.7 | 0.300 | 01/21/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 114 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed 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 | | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.8 % 63.6-154

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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: S2 - 30' (H400144-07)

| BTEX 8021B | | mg/kg | Analyzed 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 (PIE) 138 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4800 | 16.0 | 01/21/2014 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Lupe Carrasco

Company (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4350

Fax No:

Sample Signature: *Lupe Carrasco* e-mail: lcarrasco@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 103-163

Project Name:

Kent BSK #1

Project #:

Project Loc:

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total #. of Containers | Ice | HNO ₃ | HCl | H ₂ SO ₄ | NaOH | Na ₂ S ₂ O ₃ | None | Other (Specify) | DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other | TPH: 418.1 8015M 8015 | TPH: TX 1005 TX 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO ₄ , Alkalinity) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | Chlorides | SAR | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | Standard TAT |
|----------------------|------------|-----------------|--------------|--------------|--------------|----------------|------------------------|-----|------------------|-----|--------------------------------|------|---|------|-----------------|--|-----------------------|----------------------|-------------------------|---|-----------------|---------------------------------|-----------|---------------|------------------------------|-----|----------|-----------|-----|--|--------------|
| 1 | S1-20' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 2 | S1-25' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 3 | S1-30' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 4 | S1-40' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 5 | S2-20' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 6 | S2-25' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 7 | S2-30' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| 8 | S2-40' | | | 11/15/2014 | | | | | | | | | | | | | X | | | | | | | | | | | | | | |

| Relinquished by: | Date | Time | Received by: | Date | Time | Received by: | Date | Time | Received by: | Date | Time |
|------------------|------|------|---------------|----------|-------|--------------|------|------|--------------|------|------|
| Relinquished by: | | | Lupe Carrasco | 11/16/14 | 11:15 | | | | | | |
| Relinquished by: | | | | | | | | | | | |
| Relinquished by: | | | | | | | | | | | |

| Special Instructions: |
|-----------------------|
| |

| Laboratory Comments: |
|-------------------------------------|
| Sample Containers: Inlet 2 |
| VOCs: Free of HeadSpace? |
| custody seals on container(s) |
| custody seals on cooler(s) |
| Sample Hand Delivered |
| by Sampler/Client Rep. |
| by Courier? UPS DHL FedEx Lone Star |
| Temperature Upon Receipt 3.6 °C |



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

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/16/2014
 Reported: 01/17/2014
 Project Name: KENT BSK #1 (PENASCO WATER LINE)
 Project Number: 103-163
 Project Location: NOT GIVEN

Sampling Date: 01/15/2014
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

| BTEX 8021B | | mg/L | | Analyzed 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 (PID) 99.6 % 89.5-126

| Chloride, SM4500Cl-B | | mg/L | | Analyzed 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 | | Analyzed 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 % 48.7-164

Surrogate: 1-Chlorooctadecane 82.7 % 54.8-165

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Lupe Carrasco

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4360

Sampler Signature: [Signature]

e-mail: lcarrasco@yatespetroleum.com

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 103-163

Project Name:

Kent BSK #1

Project #:

Project Loc:

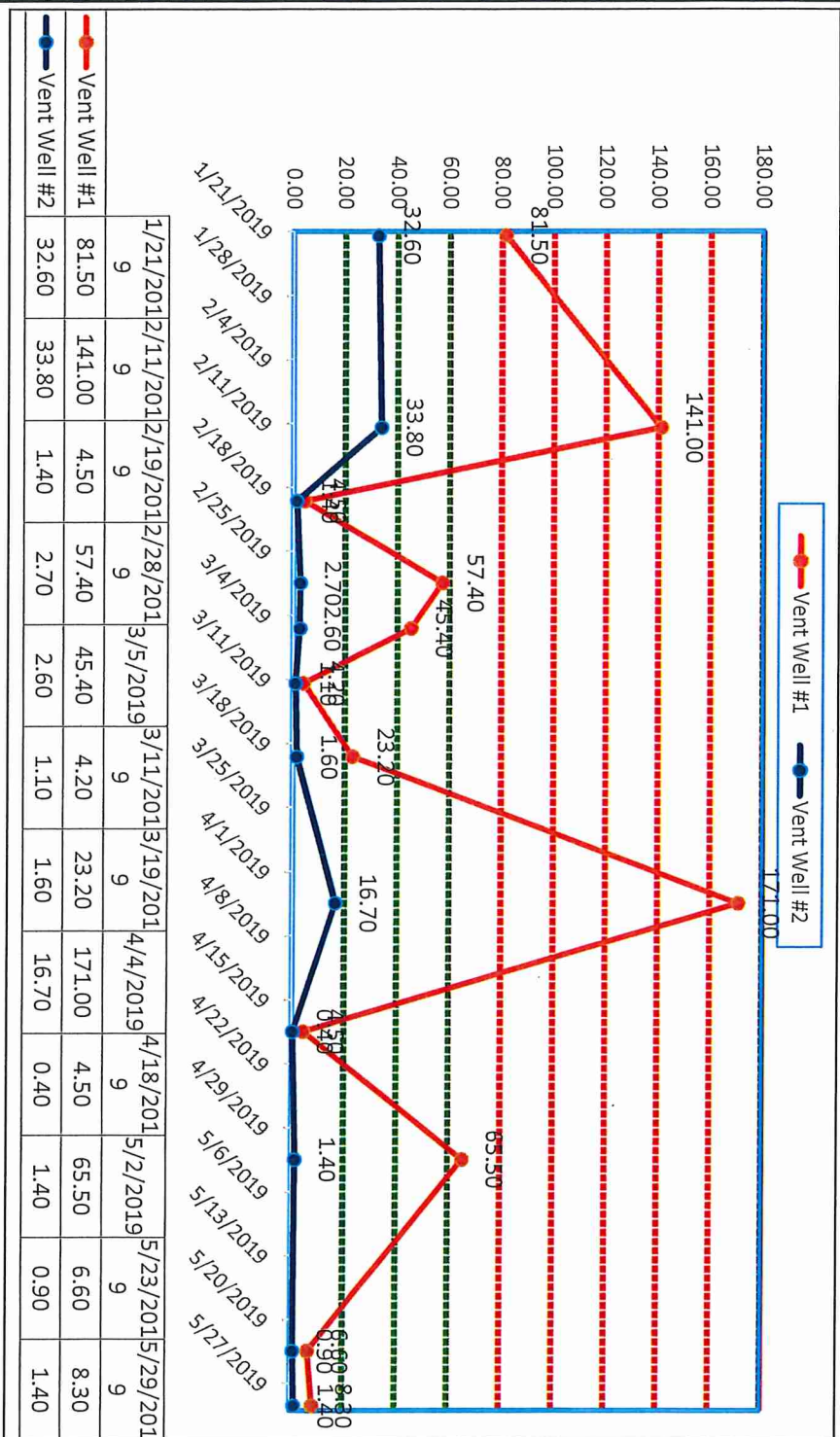
| LAB # (lab use only) | | FIELD CODE | | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total #. of Containers | Preservation & # of Containers | | Matrix | Analyze For: | |
|---|----------------------------|------------|------|-----------------|--------------|--------------------|--------------|----------------|------------------------|--------------------------------------|--|--------|--------------|--|
| 1A | Kent BSK #1 (Amber Bottle) | | | | | 11/15/2014 | | | | | | | | |
| 1B | Test Tube 1 | | | | | 11/15/2014 | | | | | | | | |
| 1C | Test Tube 2 | | | | | 11/15/2014 | | | | | | | | |
| 1D | Test Tube 3 | | | | | 11/15/2014 | | | | | | | | |
| 1E | Test Tube 4 | | | | | 11/15/2014 | | | | | | | | |
| Special Instructions: <u>Would like to rush samples. 24 hours</u> | | | | | | | | | | | | | | |
| Relinquished by: | | Date | Time | Received by: | | <u>[Signature]</u> | | Date | Time | Laboratory Comments: | | | | |
| Relinquished by: | | Date | Time | Received by: | | <u>[Signature]</u> | | 11/16/14 | 11:15 | Sample Containers: <u>3.6</u> | | | | |
| Relinquished by: | | Date | Time | Received by: | | <u>[Signature]</u> | | | | Temperature Upon Receipt: <u>3.6</u> | | | | |

Figure 4

Field analysis of Vent Well Sampling

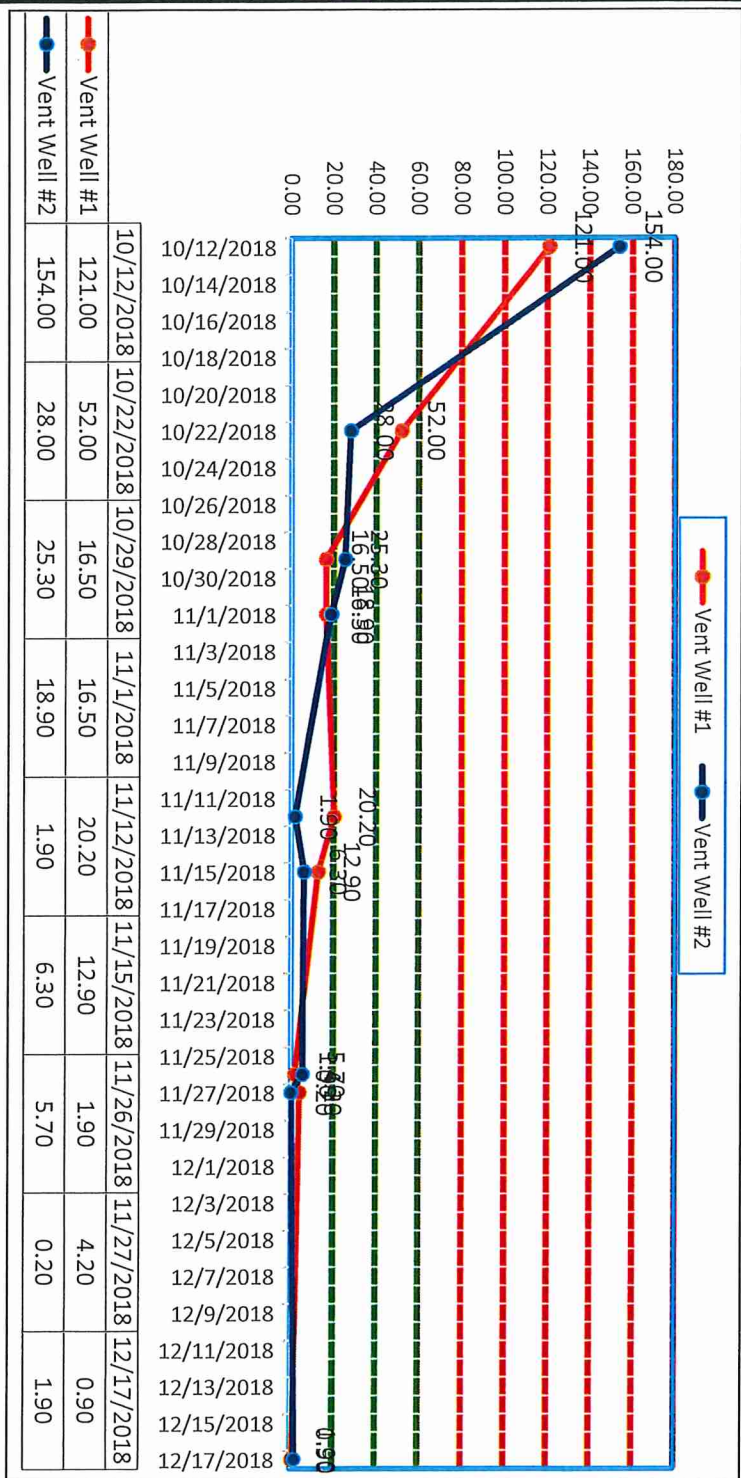


| Kent Vent Wells (1/21/19-5/29/19) | | |
|-----------------------------------|-----------|--------|
| VENT WELL | #1 | TOTAL |
| DATE | 1/21/2019 | 81.50 |
| DATE | 2/11/2019 | 141.00 |
| DATE | 2/19/2019 | 4.50 |
| DATE | 2/28/2019 | 57.40 |
| DATE | 3/5/2019 | 45.40 |
| DATE | 3/11/2019 | 4.20 |
| DATE | 3/19/2019 | 23.20 |
| DATE | 4/4/2019 | 171.00 |
| DATE | 4/18/2019 | 4.50 |
| DATE | 5/2/2019 | 65.50 |
| DATE | 5/23/2019 | 6.60 |
| DATE | 5/29/2019 | 8.30 |
| VENT WELL | #2 | TOTAL |
| DATE | 1/21/2019 | 32.60 |
| DATE | 2/11/2019 | 33.80 |
| DATE | 2/19/2019 | 1.40 |
| DATE | 2/28/2019 | 2.70 |
| DATE | 3/5/2019 | 2.60 |
| DATE | 3/11/2019 | 1.10 |
| DATE | 3/19/2019 | 1.60 |
| DATE | 4/4/2019 | 16.70 |
| DATE | 4/18/2019 | 0.40 |
| DATE | 5/2/2019 | 1.40 |
| DATE | 5/23/2019 | 0.90 |
| DATE | 5/29/2019 | 1.40 |



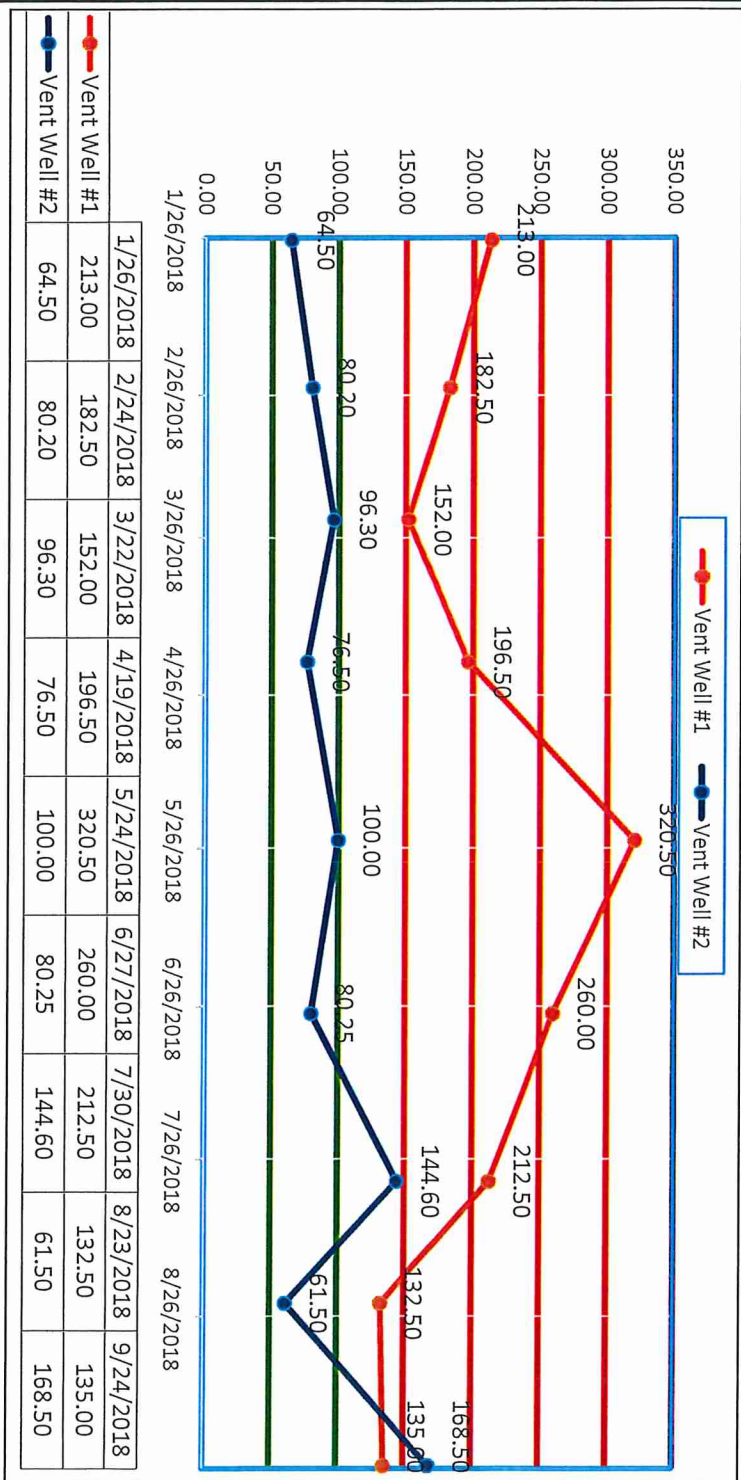


| Kent Vent Wells (2018 Remediat) | | |
|---------------------------------|------------|--------|
| VENT WELL | #1 | TOTAL |
| DATE | 10/12/2018 | 121.00 |
| DATE | 10/22/2018 | 52.00 |
| DATE | 10/29/2018 | 16.50 |
| DATE | 11/1/2018 | 16.50 |
| DATE | 11/12/2018 | 20.20 |
| DATE | 11/15/2018 | 12.90 |
| DATE | 11/26/2018 | 1.90 |
| DATE | 11/27/2018 | 4.20 |
| DATE | 12/17/2018 | 0.90 |
| VENT WELL | #2 | TOTAL |
| DATE | 10/12/2018 | 154.00 |
| DATE | 10/22/2018 | 28.00 |
| DATE | 10/29/2018 | 25.30 |
| DATE | 11/1/2018 | 18.90 |
| DATE | 11/12/2018 | 1.90 |
| DATE | 11/15/2018 | 6.30 |
| DATE | 11/26/2018 | 5.70 |
| DATE | 11/27/2018 | 0.20 |
| DATE | 12/17/2018 | 1.90 |



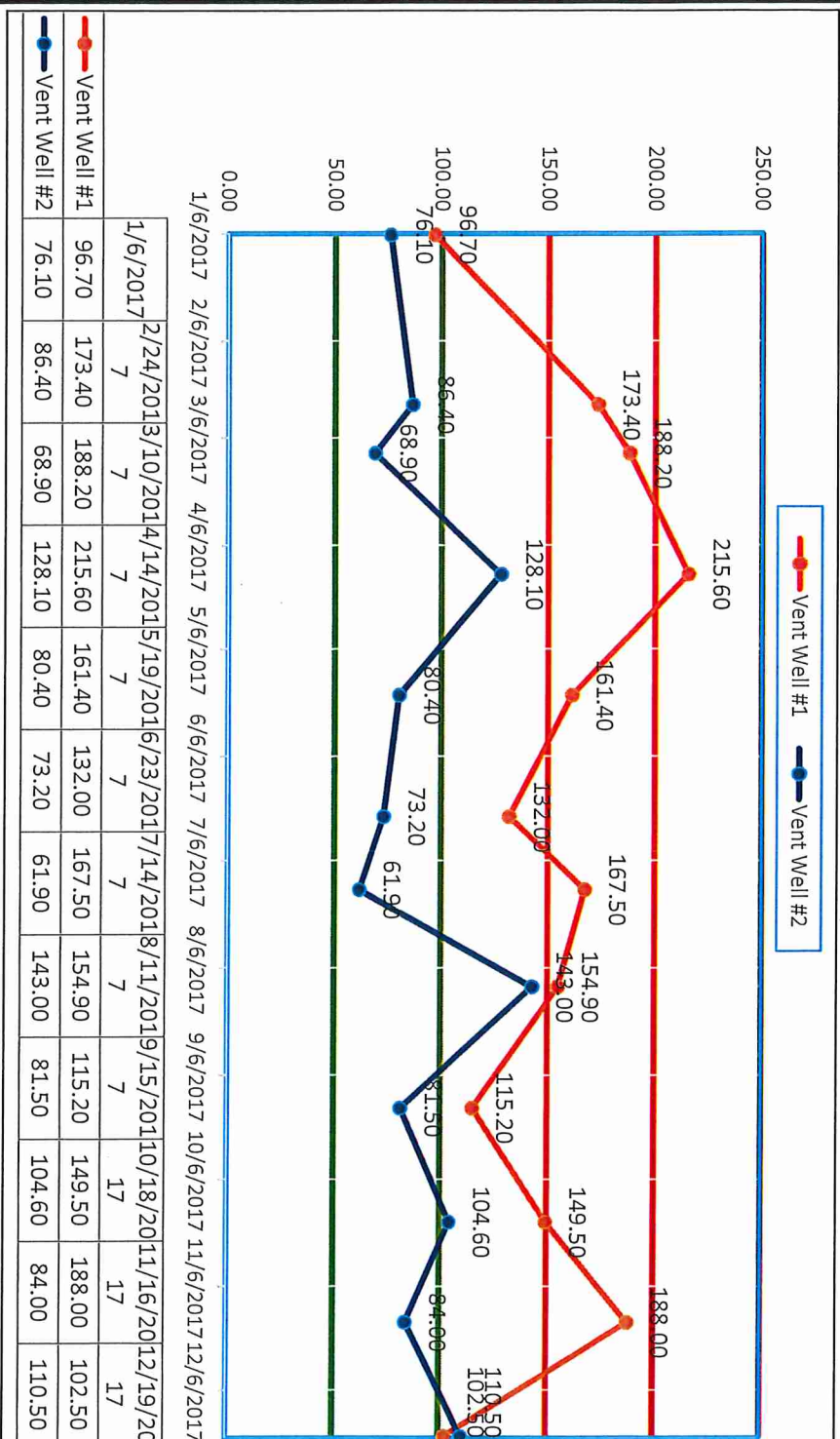


| Kent Vent Wells (2018) | | |
|------------------------|-----------|--------|
| VENT WELL | #1 | TOTAL |
| DATE | 1/26/2018 | 213.00 |
| DATE | 2/24/2018 | 182.50 |
| DATE | 3/22/2018 | 152.00 |
| DATE | 4/19/2018 | 196.50 |
| DATE | 5/24/2018 | 320.50 |
| DATE | 6/27/2018 | 260.00 |
| DATE | 7/30/2018 | 212.50 |
| DATE | 8/23/2018 | 132.50 |
| DATE | 9/24/2018 | 135.00 |
| VENT WELL | #2 | TOTAL |
| DATE | 1/26/2018 | 64.50 |
| DATE | 2/24/2018 | 80.20 |
| DATE | 3/22/2018 | 96.30 |
| DATE | 4/19/2018 | 76.50 |
| DATE | 5/24/2018 | 100.00 |
| DATE | 6/27/2018 | 80.25 |
| DATE | 7/30/2018 | 144.60 |
| DATE | 8/23/2018 | 61.50 |
| DATE | 9/24/2018 | 168.50 |



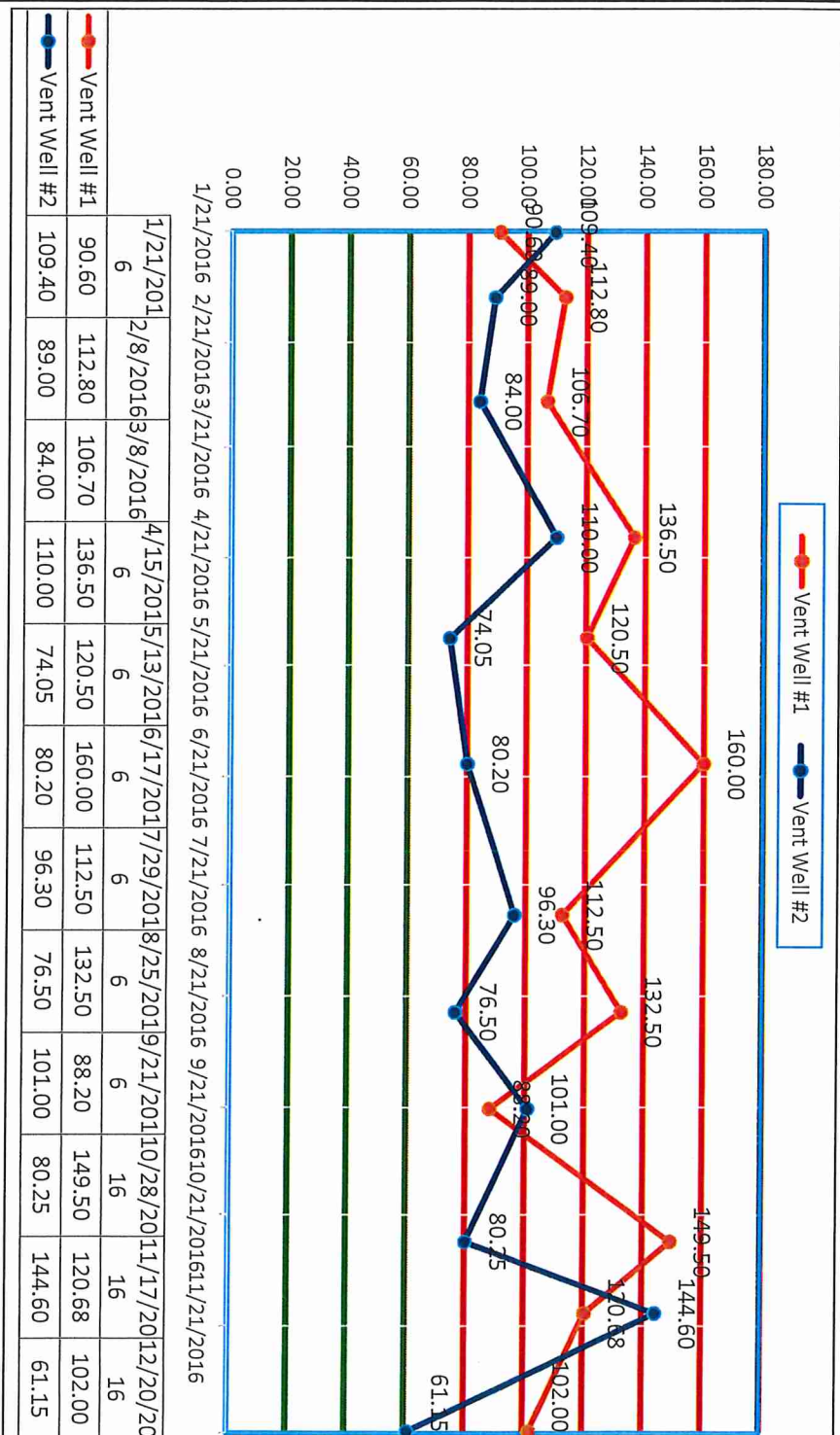


| Kent Vent Wells (2017) | | |
|------------------------|------------|--------|
| VENT WELL | #1 | TOTAL |
| DATE | 1/6/2017 | 96.70 |
| DATE | 2/24/2017 | 173.40 |
| DATE | 3/10/2017 | 188.20 |
| DATE | 4/14/2017 | 215.60 |
| DATE | 5/19/2017 | 161.40 |
| DATE | 6/23/2017 | 132.00 |
| DATE | 7/14/2017 | 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 | 110.50 |
| 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 |
| DATE | 7/14/2017 | 61.90 |
| DATE | 8/11/2017 | 143.00 |
| DATE | 9/15/2017 | 81.50 |
| DATE | 10/18/2017 | 104.60 |
| DATE | 11/16/2017 | 84.00 |
| DATE | 12/19/2017 | 110.50 |





| Kent Vent Wells (2016) | | |
|------------------------|------------|--------|
| VENT WELL | #1 | TOTAL |
| DATE | 1/21/2016 | 90.60 |
| DATE | 2/8/2016 | 112.80 |
| DATE | 3/8/2016 | 106.70 |
| DATE | 4/15/2016 | 136.50 |
| DATE | 5/13/2016 | 120.50 |
| DATE | 6/17/2016 | 160.00 |
| DATE | 7/29/2016 | 112.50 |
| DATE | 8/25/2016 | 132.50 |
| DATE | 9/21/2016 | 88.20 |
| DATE | 10/28/2016 | 149.50 |
| DATE | 11/17/2016 | 120.68 |
| DATE | 12/20/2016 | 102.00 |
| VENT WELL | #2 | TOTAL |
| DATE | 1/21/2016 | 109.40 |
| DATE | 2/8/2016 | 89.00 |
| DATE | 3/8/2016 | 84.00 |
| DATE | 4/15/2016 | 110.00 |
| DATE | 5/13/2016 | 74.05 |
| DATE | 6/17/2016 | 80.20 |
| DATE | 7/29/2016 | 96.30 |
| DATE | 8/25/2016 | 76.50 |
| 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



| Kent Vent Wells (2015) | | |
|------------------------|------------|--------|
| VENT WELL | #1 | TOTAL |
| DATE | 1/28/2015 | 213.00 |
| DATE | 2/25/2015 | 182.50 |
| DATE | 3/22/2015 | 152.00 |
| DATE | 4/19/2015 | 196.50 |
| DATE | 5/24/2015 | 320.50 |
| DATE | 6/23/2015 | 260.00 |
| DATE | 7/29/2015 | 212.50 |
| DATE | 8/23/2015 | 132.50 |
| DATE | 9/21/2015 | 88.20 |
| DATE | 10/14/2015 | 105.80 |
| DATE | 11/11/2015 | 51.30 |
| DATE | 12/16/2015 | 79.70 |
| VENT WELL | #2 | TOTAL |
| DATE | 1/28/2015 | 64.05 |
| DATE | 2/25/2015 | 80.20 |
| DATE | 3/22/2015 | 96.30 |
| DATE | 4/19/2015 | 76.50 |
| DATE | 5/24/2015 | 100.00 |
| DATE | 6/23/2015 | 80.25 |
| DATE | 7/29/2015 | 144.60 |
| DATE | 8/23/2015 | 61.15 |
| DATE | 9/21/2015 | 82.70 |
| DATE | 10/14/2015 | 92.60 |
| DATE | 11/11/2015 | 82.90 |
| DATE | 12/16/2015 | 80.80 |

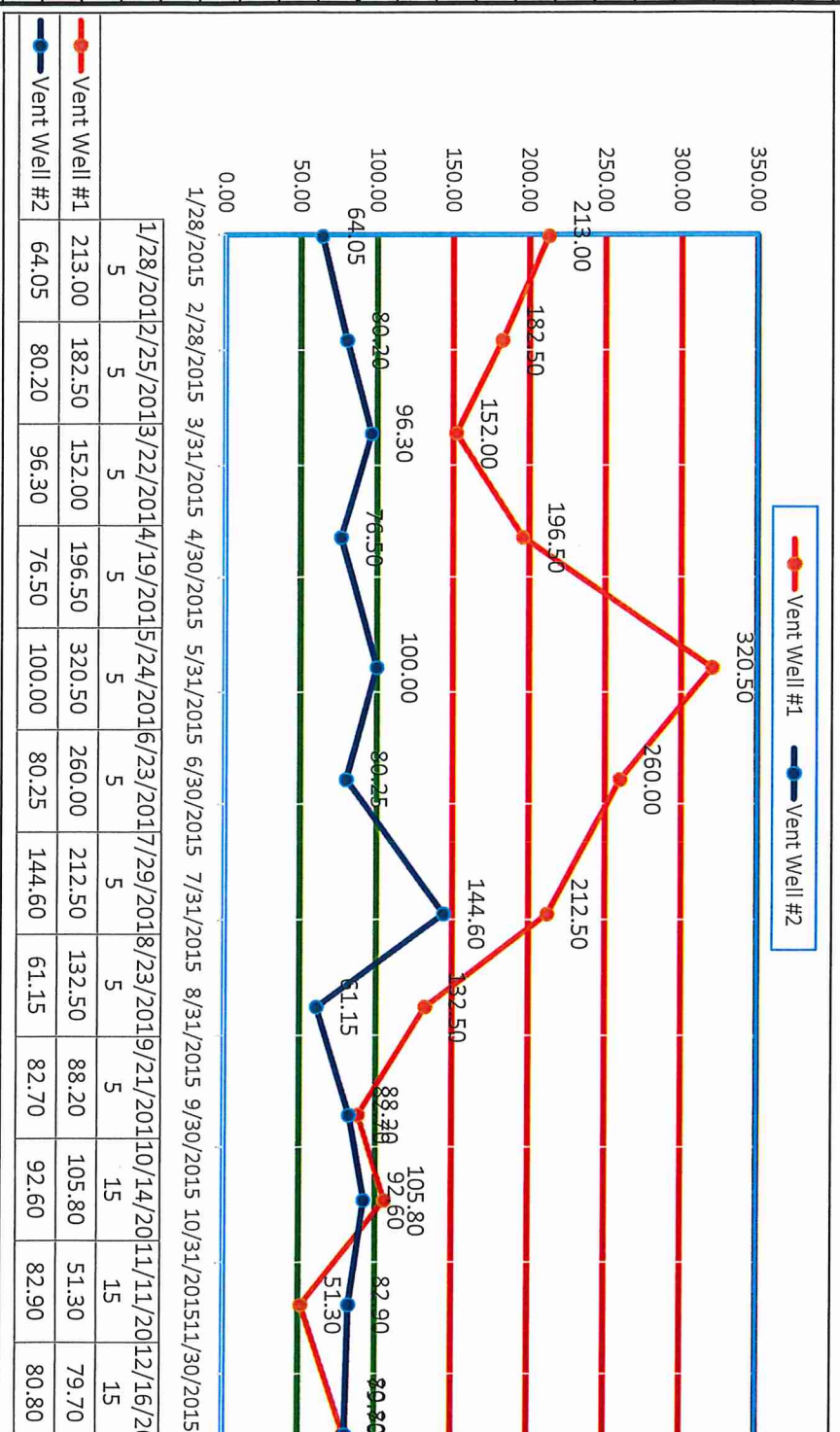


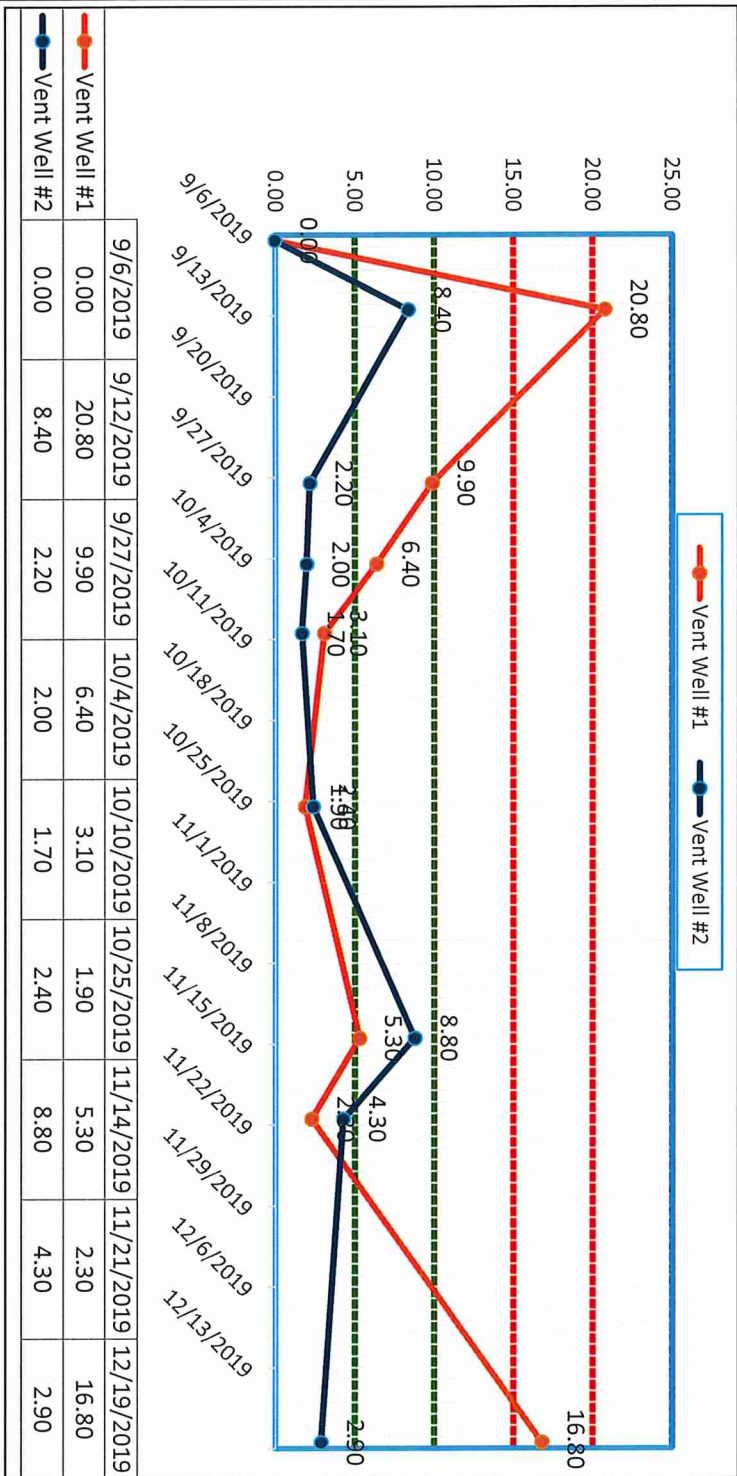
Figure 5

**Field analysis of Vent Well Sampling
(using Remediate treatments)**



| Kent Vent Wells (9/6/19-12/19/19) | | |
|-----------------------------------|------------|-------|
| VENT WELL | #1 | TOTAL |
| DATE | 9/6/2019 | 0.00 |
| DATE | 9/12/2019 | 20.80 |
| DATE | 9/27/2019 | 9.90 |
| DATE | 10/4/2019 | 6.40 |
| DATE | 10/10/2019 | 3.10 |
| DATE | 10/25/2019 | 1.90 |
| DATE | 11/14/2019 | 5.30 |
| DATE | 11/21/2019 | 2.30 |
| DATE | 12/19/2019 | 16.80 |
| VENT WELL | #2 | TOTAL |
| DATE | 9/6/2019 | 0.00 |
| DATE | 9/12/2019 | 8.40 |
| DATE | 9/27/2019 | 2.20 |
| DATE | 10/4/2019 | 2.00 |
| DATE | 10/10/2019 | 1.70 |
| DATE | 10/25/2019 | 2.40 |
| DATE | 11/14/2019 | 8.80 |
| DATE | 11/21/2019 | 4.30 |
| DATE | 12/19/2019 | 2.90 |

Sample Notifications to the NMOC





| Kent Vent Wells (6/13/19-8/28/19) | | |
|-----------------------------------|-----------|-------|
| VENT WELL | #1 | TOTAL |
| DATE | 6/13/2019 | 6.9 |
| DATE | 6/21/2019 | 7.6 |
| DATE | 7/1/2019 | 119.0 |
| DATE | 7/12/2019 | 28.8 |
| DATE | 7/19/2019 | 133.0 |
| DATE | 7/25/2019 | 0.1 |
| DATE | 8/1/2019 | 84.9 |
| DATE | 8/8/2019 | 89.5 |
| DATE | 8/14/2019 | 10.6 |
| DATE | 8/28/2019 | 23.0 |
| VENT WELL | #2 | TOTAL |
| DATE | 6/13/2019 | 1.20 |
| DATE | 6/21/2019 | 0.60 |
| DATE | 7/1/2019 | 0.00 |
| DATE | 7/12/2019 | 0.00 |
| DATE | 7/19/2019 | 25.70 |
| DATE | 7/25/2019 | 39.00 |
| DATE | 8/1/2019 | 1.40 |
| DATE | 8/8/2019 | 25.20 |
| DATE | 8/14/2019 | 0.00 |
| DATE | 8/28/2019 | 0.00 |

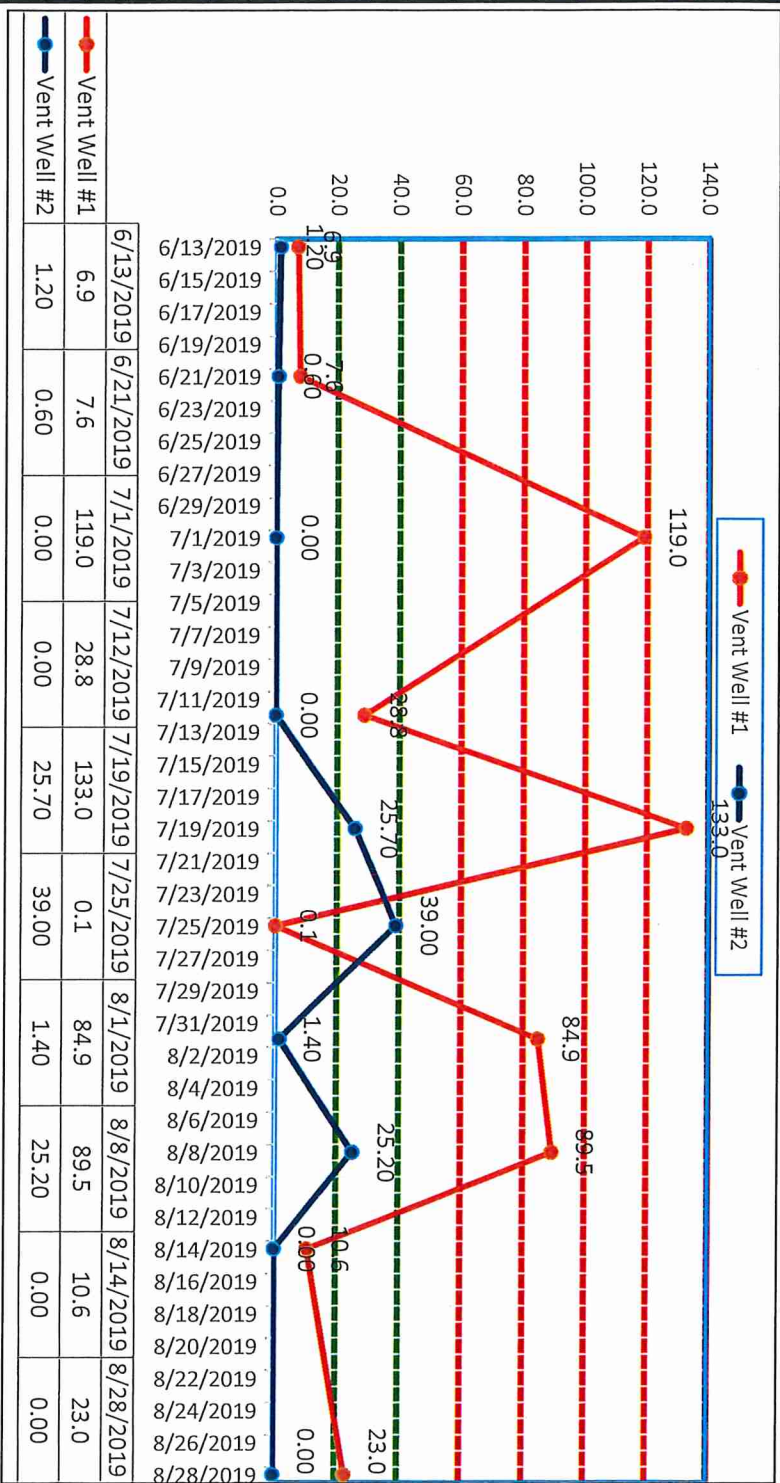


Figure 6

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 |

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


Bob Asher

From: Bob Asher
Sent: Tuesday, November 19, 2019 6:31 AM
To: robert.hamlet@state.nm.us
Cc: Katie Jamison (Katie_Jamison@eogresources.com); Chase Settle
Subject: 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 |
| | 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


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



Figure 7

Sampling/bioremediation photographs



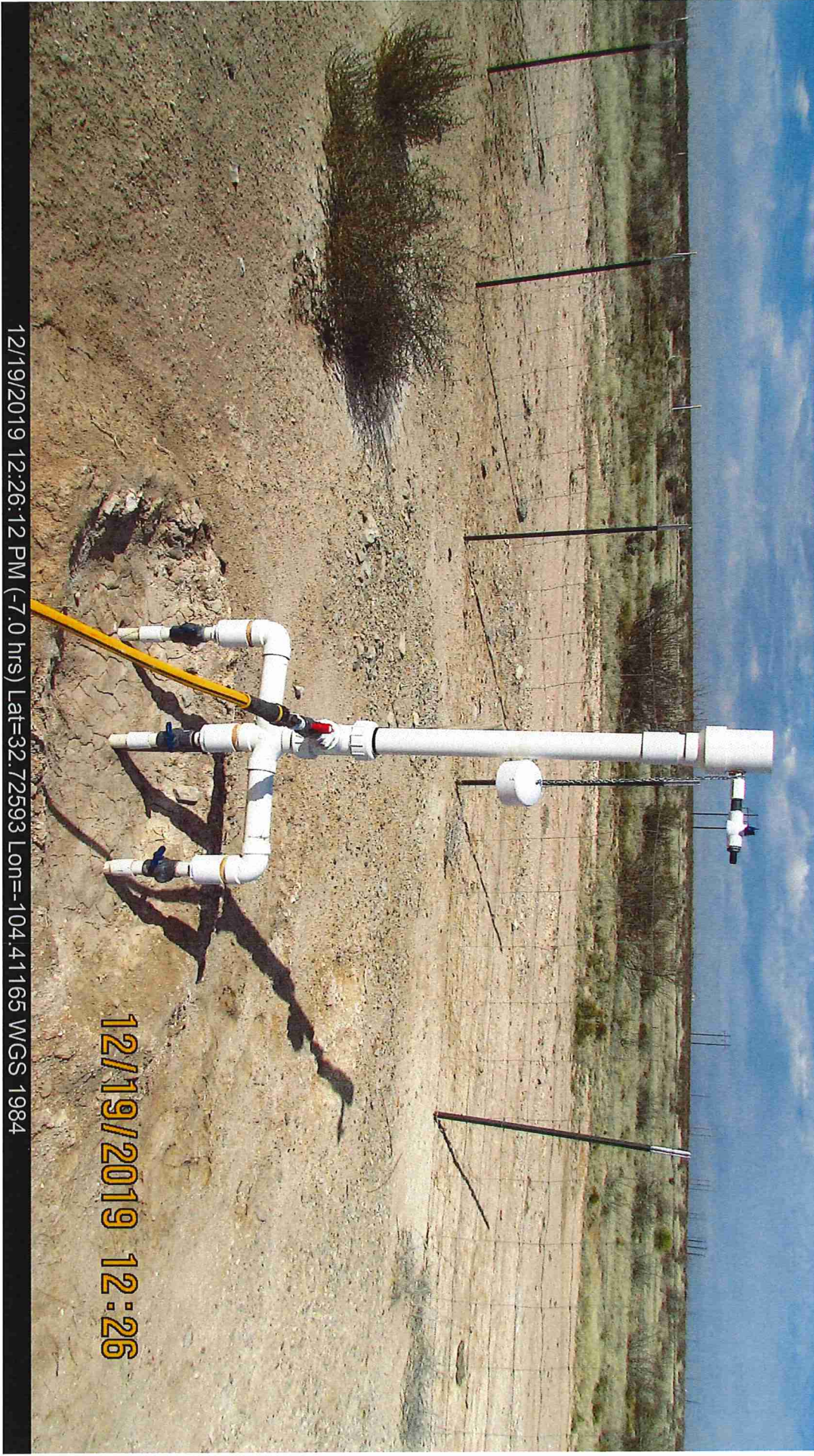
12/19/2019 12:00:13 PM (-7.0 hrs) Lat=32.72593 Lon=-104.41165 WGS 1984

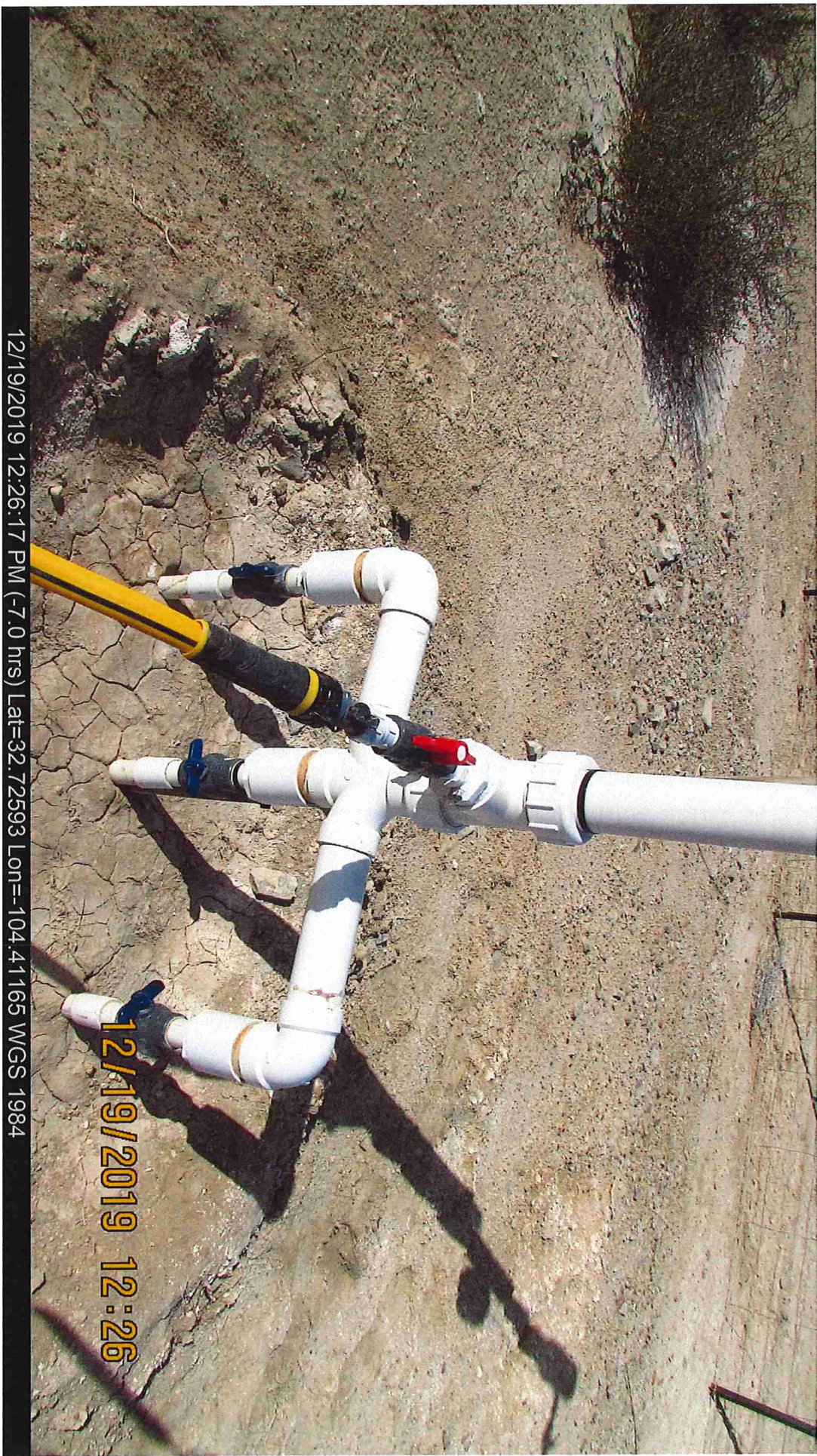
12/19/2019 12:00



12/19/2019 12:01:11 PM (-7.0 hrs) Lat=32.72593 Lon=-104.41165 WGS 1984









12/19/2019 12:26:34 PM (-7.0 hrs) Lat=32.72593 Lon=-104.41165 WGS 1984



12/19/2019 12:26:43 PM (-7.0 hrs) Lat=32.72593 Lon=-104.41165 WGS 1984

12/19/2019 12:26

Figure 8

Initial C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87418
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

MAY 23 2013

NMOCD ARTESIA

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

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

Release Notification and Corrective Action**OPERATOR**☒ Initial Report ☐ Final Report


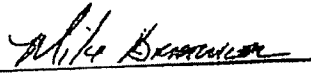
| | | |
|--|-------------------------------|-----------------------------|
| Name of Company Yates Petroleum Corporation | OGRID Number 25575 | Contact Lupe Carrasco |
| Address 104 S. 4 TH Street | Telephone No. 575-748-1471 | |
| Facility Name Penasco Water Line(near Kent BSK #1H) | API Number 30-015-40161 | Facility Type Water Line |
| Surface Owner Fee | Mineral Owner Fee | Lease No. N/A |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| P | 20 | 18S | 26E | 400 | South | 330 | East | Eddy |

Latitude 32.72988 Longitude 104.39539**NATURE OF RELEASE**

| | | |
|--|--|--|
| Type of Release Produced Water | Volume of Release 15 B/PW | Volume Recovered 8 B/PW |
| Source of Release Break in water line | Date and Hour of Occurrence 5/15/2013 PM | Date and Hour of Discovery 5/15/2013 PM |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. N/A | |
| If a Watercourse was Impacted, Describe Fully.* N/A | | |
| Describe Cause of Problem and Remedial Action Taken.* 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 scape impacted area. | | |
| Describe Area Affected and Cleanup Action Taken.* An approximate area of 8' X 50' was impacted. Impacted soil to be scraped and disposed at an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX, Chlorides will be run for documentation. If initial analytical results for TPH & BTEX are under RRAL's, a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's, a work plan will be submitted. Depth to Ground Water: >100' (approximately 125', Section 20-T18S-R26E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | |

| | | |
|--|--|-----------------------------------|
| Signature:  | OIL CONSERVATION DIVISION | |
| Printed Name: Lupe Carrasco | Approved by District Supervisor: Signed By  | |
| Title: Environmental Regulatory Agent | Approval Date: MAY 30 2013 | Expiration Date: |
| E-mail Address: <u>lcarrasco@yatespetroleum.com</u> | Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: | Attached <input type="checkbox"/> |
| Date: Tuesday, May 21, 2013 Phone: 575-748-1471 | 2RP-1667 | |

* Attach Additional Sheets If Necessary

June 30, 2013

Figure 9

Final C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|---|-----------------------------------|
| Responsible Party EOG Resources, Inc. | OGRID 7377 |
| Contact Name Robert Asher | Contact Telephone 575-748-4217 |
| Contact email bob_asher@eogresources.com | Incident # (assigned by OCD) |
| Contact mailing address 104 S. 4 th Street, Artesia, NM 88210 | |

Location of Release Source

Latitude 32.72988

Longitude -104.39539

(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---|---------------------------|
| Site Name: Penasco Water Line (near Kent BSK #1H) | Site Type: Water Line ROW |
| Date Release: 5/15/2013 | API# 30-015-40161 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| I | 20 | 18S | 26E | Eddy |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Bucciero, Betty & Nancy Arnquist ETAL)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|--|--|---|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 96 | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release: 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 scrap impacted area..

State of New Mexico
Oil Conservation Division

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

Initial Response

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

| | |
|--|------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name: _____ | Title: _____ |
| Signature: _____ | Date: _____ |
| email: _____ | Telephone: _____ |
| <u>OCD Only</u> Received by: _____ Date: _____ | |

State of New Mexico
Oil Conservation Division

| | |
|----------------|--|
| 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.

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Robert Asher

Title: Environmental Supervisor

Signature: 

Date: 12/19/2019

email: bob_asher@eogresources.com

Telephone: 575-748-4217

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 55836

CONDITIONS

| | |
|--|---|
| Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702 | OGRID: 7377 |
| | Action Number: 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 |