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REMEDIATION SUMMARY AND RISK-BASED SITE CLOSURE REQUEST

**BOPCO, LP
JAMES RANCH UNIT #55 WELL PAD
Eddy County, New Mexico
Unit Letter "F" (SE/NW), Section 17, Township 23 South, Range 31 East
Latitude 32.306285° North, Longitude 103.801920° West
NMOCD References #2RP-548 & 1177**

Prepared For:

BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, New Mexico 88220

Prepared By:

Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

June 2014

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 01 2014

RECEIVED

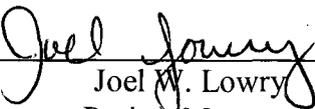

Joel W. Lowry
Project Manager

TABLE OF CONTENTS

| | |
|---|---|
| 1.0 INTRODUCTION & BACKGROUND INFORMATION..... | 1 |
| 2.0 NMOCD SITE CLASSIFICATION..... | 1 |
| 3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES..... | 2 |
| 4.0 QA/QC PROCEDURES..... | 4 |
| 4.1 Soil Sampling..... | 4 |
| 4.2 Decontamination of Equipment..... | 4 |
| 4.3 Laboratory Protocol..... | 4 |
| 5.0 SITE CLOSURE REQUEST..... | 4 |
| 6.0 LIMITATIONS..... | 5 |
| 7.0 DISTRIBUTION..... | 6 |

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site and Sample Location Map

TABLES

Table 1 – Concentrations of Benzene, BTEX, TPH & Chloride in Soil

APPENDICES

Appendix A – Release Notification and Corrective Action (Form C-141), March 9, 2010 Release

Appendix B – Release Notification and Corrective Action (Form C-141), May 18, 2012 Release

Appendix C – Photographs

Appendix D – Laboratory Analytical Reports

1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Risk-Based Site Closure Request* for the release site known as James Ranch Unit #55 Well Pad (JRU #55). The legal description of the release site is Unit Letter "F" (SE/NW), Section 17, Township 23 South, Range 31 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.306285° North latitude and 103.801920° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). A "Site Location Map" is provided as Figure 1.

There have been two reportable releases on the JRU #55 Well Pad. The first reportable release occurred on March 9, 2010. The release was attributed to the failure of a temporary hose being used while circulating the well. The "Release Notification and Corrective Action" (Form C-141) indicated a release of approximately ten barrels (10 bbls) of produced water and ten barrels (10 bbls) of crude oil affected approximately two thousand, five hundred square feet (2,500 ft²) of caliche well pad, one thousand, six hundred and twenty square feet (1,620 ft²) of caliche road and five hundred and twenty-five square feet (525 ft²) of adjacent pasture land. During initial response activities approximately five barrels (5 bbls) of produced water and three barrels (3 bbls) of crude oil were recovered using a vacuum truck. Heavily saturated soil was excavated from the well pad and pasture and transported to an NMOCD-approved disposal facility. Between March 25 and 31, 2010, remediation activities were conducted by an alternative environmental contractor. Final closure was never sought as a non-reportable release occurred atop the previously remediated area. The Form C-141 for the March 9, 2010, release is provided as Appendix A.

The second reportable release occurred on May 18, 2012. The release was attributed to the failure of the packing in the stuffing box. The initial Form C-141 indicated a release of approximately five barrels (5 bbls) of produced water and three barrels (3 bbls) of crude oil affected approximately four hundred and ten square feet (410 ft²) of the caliche well pad. During initial response activities, approximately three barrels (3 bbls) of free-standing fluid were recovered using a vacuum truck. The Form C-141 for the May 18, 2012, release is provided as Appendix B. General photographs of the release site are provided as Appendix C.

As per the NMOCD, the releases were remediated simultaneously.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 17, Township 23 South, Range 31 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately ninety feet (90') below ground surface (bgs). Based on the NMOCD ranking system, ten (10) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the JRU #55 Well Pad release site has an initial ranking score of ten (10) points. The soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene – 10 ppm
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) –ppm
- Total Petroleum Hydrocarbons (TPH) – 1,000 ppm

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On May 19, 2014, Basin began excavating impacted soil at the release site. The excavation floor and sidewalls were advanced until field tests suggested concentrations of BTEX, TPH and chloride were below NMOCD regulatory standards. Excavated soil was stockpiled on-site, pending final disposition.

On May 20, 2014, six (6) soil samples (NSW, SSW, ESW #1, WSW #1, WSW #2 and Floor #1 @ 2') were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory method detection limit (MDL) for soil sample WSW #1 to 256 ppm for soil sample NSW. Soil sample Floor #1 @ 2' was also analyzed for concentrations of TPH, which were determined to be less than the appropriate laboratory MDL. A summary of "Concentrations of Benzene, BTEX, TPH & Chloride in Soil" is provided in Table 1. A "Site and Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix D.

On May 21, 2014, a delineation trench (DT 1) was advanced south of the well head in area exhibiting elevated chloride concentrations at four feet (4') bgs. During the advancement of the delineation trench, four (4) soil samples (DT 1 @ 6', DT 1 @ 9', DT 1 @ 17' and DT 1 @ 18.5') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 2,600 ppm for soil sampled 1 @ 9' to 352 ppm for soil sample DT 1 @ 18.5'.

In addition, two (2) soil samples (ESW #2 and ESW #3) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the concentration of chloride was 304 ppm for both samples.

On May 22, 2014, three (3) soil samples (NSW #2, NSW #3, and SSW #2) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 144 ppm for soil sample NSW #2 to 320 ppm for soil sample NSW #3.

On May 27, 2014, one (1) soil sample (NESW) was collected from the northeast edge of the environmental excavation and submitted to the laboratory for analysis of chloride, BTEX and TPH concentrations. Laboratory analytical results indicate soil sample NESW exhibited a chloride concentration of 32.0 ppm. BTEX and TPH concentrations were less than the appropriate laboratory MDL.

In addition, two (2) soil samples (Road #1, Road #2) were collected from the caliche road adjacent to the well pad affected by the May 9, 2010, release in an effort to determine if previous remediation activities were sufficient. Laboratory analytical results indicated soil sample Road #1 exhibited a chloride concentration of 288 ppm, soil sample Road #2 exhibited a chloride concentration of 272 ppm. Soil sample Road #2 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. Laboratory analytical results suggest previous remediation activities on the affected caliche road met the requirements of the NMOCD.

An initial investigation was conducted in an area of pasture adjacent to the PLU #55 Well Pad that was inferred to have been affected by the March 9, 2010, release. During the initial investigation, four (4) hand-augered soil bores (SP #1 through SP #4) were advanced in the disturbed area north of the well pad. Soil samples were collected from SP #1 at the surface, two feet (2') and four feet (4') bgs and field screened for concentrations of chloride. During the advancement of SP #1, a twenty-millimeter (20-mil) polyurethane liner was encountered at approximately four feet (4') bgs. Chloride field test results ranged from less than 120 ppm for the soil sample collected at the surface to 1,280 ppm for the soil sample collected at four feet (4') bgs. The remaining hand-augered soil bores (SP #2 through SP #4) were only advanced to two feet (2') bgs in an effort to maintain the integrity of the polyurethane liner. Soil samples collected from the surface and two feet (2') bgs from SP #2 through SP #4 were field screened for concentrations of chloride. Chloride field test results indicated chloride concentrations were less than 120 ppm in each of the field samples. Based on field test results it was determined that the soil column above the 20-mil polyurethane liner was not impacted above NMOCD regulatory standards. The liner was left undisturbed as per the NMOCD.

On May 28, 2014, upon receiving NMOCD approval, a 20-mil polyurethane liner was installed in the floor of the excavation atop areas exhibiting chloride concentrations above NMOCD regulatory standards. This engineering control was designed to inhibit the vertical migration of contaminants left in-situ and help mitigate any future releases on the well pad. Upon installing the approved liner, the remaining portion of the excavation was backfilled with non-impacted caliche.

Between May 22 and 28, 2014, approximately seven hundred and forty cubic yards (740 yd³) of impacted material was transported to Lea Land, LLC (NMOCD Permit #WM-01-035), for disposal. Prior to backfilling, the final dimensions of the excavation were approximately twelve (12) to thirty feet (30') in width, one hundred and thirty feet (130') in length and two (2) to four feet (4') in depth.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories, Inc., in Hobbs, New Mexico, for BTEX, TPH and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 4500 Cl-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Remediation activities at the JRU #55 Well Pad were conducted in accordance with an NMOCD-approved work plan. Confirmation soil samples collected from the excavation sidewalls were submitted to an NMOCD approved laboratory, which determined concentrations of BTEX, TPH and chloride were below NMOCD regulatory standards. A 20-mil polyurethane liner was installed in the floor of the excavation at approximately four feet (4') bgs. Based on laboratory analytical results and the installation of an approved engineering control, Basin recommends BOPCO provide the NMOCD-Artesia District Office and the BLM a copy of this *Remediation Summary and Risk-Based Site Closure Request* and request the NMOCD grant site closure to the JRU #55 Well Pad release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

7.0 DISTRIBUTION:

Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 2)
1301 E. Grand Avenue
Artesia, NM 88210

Copy 2: James Amos
Bureau of Land Management
602 E. Greene Street
Carlsbad, New Mexico 88220

Copy 3: Tony Savoie
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220

Copy 4: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, NM 88260

FIGURES

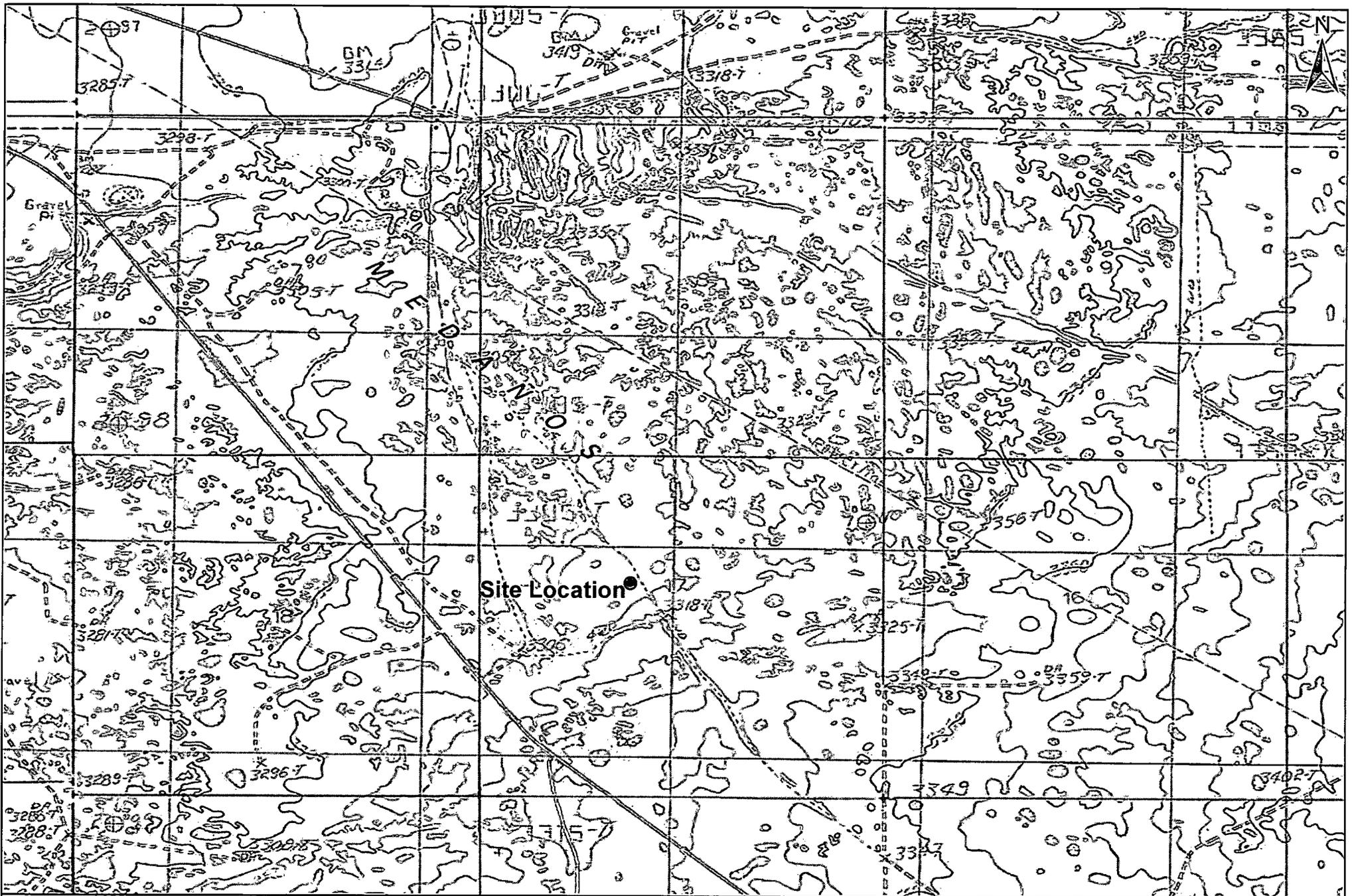
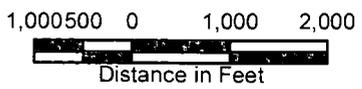


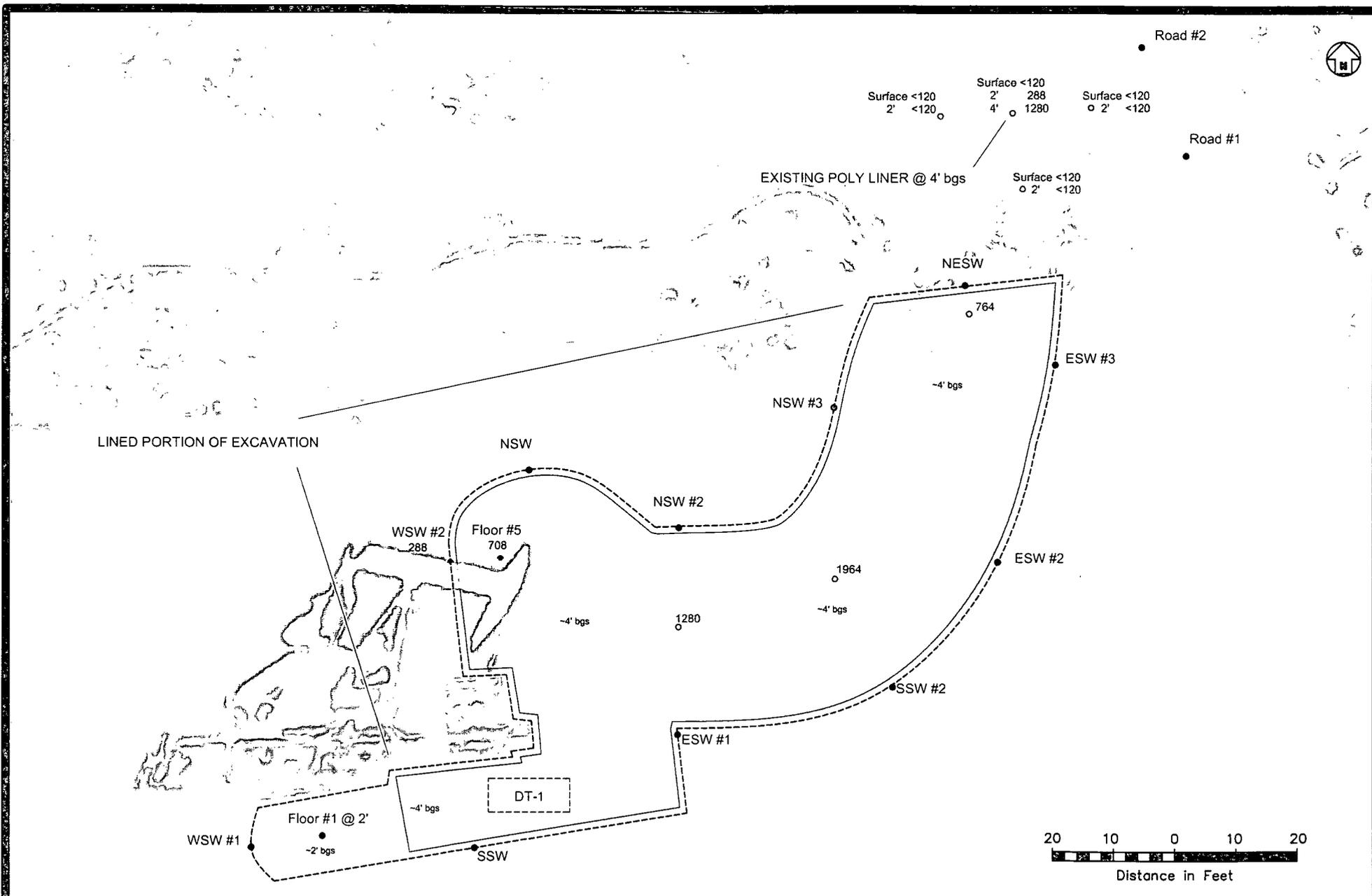
Figure 1
Site Location Map
BOPCO, LP
JRU #55 Well Pad
Eddy County, New Mexico
NMOCD Reference #'s: 2RP-548 & 2RP-1177



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

| | |
|---------------|-------------------|
| Drawn By: BJA | Checked By: BRB |
| May 29, 2014 | Scale: 1" = 2000' |





Legend:

- Excavation Extent
- Confirmation Sample Location
- 2' bgs
- 400 ppm Chloride Field Result
- ▭ Test Trench
- ▭ Liner Extent

Figure 2
 Site and Sample Location Map
 BOPCO, L.P.
 JRU #55 Well Pad
 Eddy County, New Mexico
 NMOCD Ref#s 2RP-548 & 1177

Basin Environmental Services

| | |
|--------------|-----------------|
| Prep By: JWJ | Checked By: BJA |
| May 22, 2014 | Scale 1"=20' |

TABLES

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP
 JAMES RANCH UNIT #55 WELL PAD
 EDDY COUNTY, NEW MEXICO

| SAMPLE LOCATION | SAMPLE DEPTH (BGS) | SAMPLE DATE | SOIL STATUS | METHOD: EPA SW 846-8021B, 5030 | | | | | METHOD: 8015M | | | TOTAL TPH C ₆ -C ₃₅ (mg/Kg) | 4500 Cl-B CHLORIDE (mg/Kg) | |
|-----------------------|--------------------|-------------|-------------|--------------------------------|-----------------|-----------------------|-----------------------|--------------------|---|--|--|---|----------------------------|------------|
| | | | | BENZENE (mg/Kg) | TOLUENE (mg/Kg) | ETHYL-BENZENE (mg/Kg) | TOTAL XYLENES (mg/Kg) | TOTAL BTEX (mg/Kg) | GRO C ₆ -C ₁₂ (mg/Kg) | DRO C ₁₂ -C ₂₈ (mg/Kg) | ORO C ₂₈ -C ₃₅ (mg/Kg) | | | |
| NSW | 2' | 5/20/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 256 |
| SSW | 2' | 5/20/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 96.0 |
| ESW #1 | 2' | 5/20/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 64.0 |
| WSW #1 | 1.5' | 5/20/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | <16.0 |
| WSW #2 | 2' | 5/20/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 176 |
| Floor #1 @ 2' | 2' | 5/20/2014 | In-Situ | - | - | - | - | - | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 112 |
| DT 1 @ 6' | 6' | 5/21/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 1,100 |
| DT 1 @ 9' | 9' | 5/21/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 2,600 |
| DT 1 @ 17' | 17' | 5/21/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 480 |
| DT 1 @ 18.5' | 18.5' | 5/21/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 352 |
| ESW #2 | 2' | 5/21/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 304 |
| ESW #3 | 2' | 5/21/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 304 |
| NSW #2 | 2' | 5/22/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 144 |
| NSW #3 | 2' | 5/22/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 320 |
| SSW #2 | 2' | 5/22/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 160 |
| Road #1 | 3' | 5/27/2014 | In-Situ | - | - | - | - | - | - | - | - | - | - | 288 |
| Road #2 | 3' | 5/27/2014 | In-Situ | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 272 |
| NESW | 2' | 5/27/2014 | In-Situ | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| NMOCD Criteria | | | | 10 | | | | 50 | | | | | 1,000 | 500 |

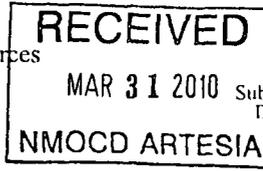
- = Not analyzed.

APPENDICES

Appendix A
Release Notification and Corrective Action
(Form C-141) - March 9, 2010

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

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



Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-27587
nkmw 1101253579

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|---|----------------------------|
| Name of Company BOPCO, L.P. | Contact Tony Savoie |
| Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 432-556-8730 |
| Facility Name James Ranch Unit #55 | Facility Type E&P |

| | | |
|-----------------------|-----------------------|-----------|
| Surface Owner Federal | Mineral Owner Federal | Lease No. |
|-----------------------|-----------------------|-----------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| F | 17 | 23S | 31E | | | | | Eddy |

Latitude N 32.306285 Longitude W 103.801920

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release: Produced water and crude oil | Volume of Release: 10 Bbls of Produced water and 10 Bbls of crude oil | Volume Recovered: 5 bbls water and 3 bbls crude oil |
| Source of Release: Faulty circulating hose on the wellhead | Date and Hour of Occurrence: 3/9/10 Approximately 2:00 p.m. | Date and Hour of Discovery: 3/24/10 8:00 a.m. |
| 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. | |
| If a Watercourse was impacted, Describe Fully.* | | |
| Describe Cause of Problem and Remedial Action Taken.* A temporary hose failed while circulating the well, the hose was removed and the well put back on production. | | |
| Describe Area Affected and Cleanup Action Taken.* Approximately 2500 sq.ft. of caliche well pad, 1620 sq. ft. of caliche road, and 525 sq.ft. of pasture land were affected by the release. All of the free product was removed with a vacuum truck and the heavily saturated soil was excavated from the well pad and pasture, then transported to CRI. Soil samples were collected after the initial response and field tested for the presence of chlorides. Remediation activities will resume following the results of the soil sample results. | | |
| 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: <u>Tony Savoie</u> | OIL CONSERVATION DIVISION | |
| Printed Name: Tony Savoie | Approved by District Supervisor Signed By <u>Mike Brannon</u> | |
| Title: Waste Mgmt. & Remediation Specialist | Approval Date: <u>3/3/11</u> | Expiration Date: |
| E-mail Address: TAsavoie@BassPet.com | Conditions of Approval: Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: | |
| Date: 3/29/10 Phone: 432-556-8730 | Attached <input type="checkbox"/> | |

* Attach Additional Sheets If Necessary

4/3/11

2RP-548

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|----------------------------|
| Name of Company: BOPCO, L.P. | Contact: Tony Savoie |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329 |
| Facility Name: James Ranch Unit #55 (2RP-548) | Facility Type: E & P |
| Surface Owner: Federal | Mineral Owner: Federal |
| API No. 30-015-27589 | |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County: |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|---------|
| F | 17 | 23S | 31E | | | | | Eddy |

Latitude N 32.306285 Longitude W 103.801920

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release: Produced water and crude oil | Volume of Release: 10 bbls of produced water and 10 bbls of crude oil | Volume Recovered: 5 bbls water and 3 bbls crude oil |
| Source of Release: Faulty circulating hose on the wellhead | Date and Hour of Occurrence: 3/9/10 approximately 2:00 p.m. | Date and Hour of Discovery: 3/24/10 8:00 a.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? NM OIL CONSERVATION | |
| By Whom? Tony Savoie | Date and Hour | ARTESIA DISTRICT |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. JUL 01 2014 | |

RECEIVED

Describe Cause of Problem and Remedial Action Taken.* A temporary hose failed while circulating the well, the hose was removed and the well put back on production.

Describe Area Affected and Cleanup Action Taken.* Approximately 2500 sq. ft. of caliche well pad, 1620 sq. ft. of caliche road, and 525 sq. ft. of pasture land were affected by the release. All of the free product was removed with a vacuum truck and the heavily saturated soil was excavated from the well pad and pasture, then transported to CRI. Soil samples were collected after the initial response and field tested for the presence of chlorides. Remediation activities will resume following the results of the soil sample.

Approximately 740 cu. yds of impacted soil was excavated from an area measuring approximately 12' to 30' in width, 130' in length, and 2' to 4' in depth. Impacted soil was hauled to an NMOCD-approved disposal facility. **Please reference the attached Remediation Summary and Risk-Based Site Closure Request for detail 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 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: Tony Savoie | Approved by Environmental Specialist: | |
| Title: Waste Management and Remediation Specialist | Approval Date: | Expiration Date: |
| E-mail Address: tasavoie@basspet.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 4/9/14 7/1/14 | Phone: 432-556-8730 | |

* Attach Additional Sheets If Necessary

Appendix B

**Release Notification and Corrective Action
(Form C-141) – May 18, 2012**

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

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

AJW 1217242281 OPERATOR Initial Report Final Report

| | |
|---|----------------------------|
| Name of Company BOPCO, L.P. <i>260737</i> | Contact Tony Savoie |
| Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 432-556-8730 |
| Facility Name James Ranch Unit #55 | Facility Type E&P |

| | | |
|-----------------------|-----------------------|-----------------------------------|
| Surface Owner Federal | Mineral Owner Federal | Lease No. <i>API 30-015-27589</i> |
|-----------------------|-----------------------|-----------------------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| F | 17 | 23S | 31E | | | | | Eddy |

Latitude N 32.306285 Longitude W 103.801920

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release: Produced water and crude oil | Volume of Release: 5 Bbbls of Produced water and 3 Bbbls of crude oil | Volume Recovered: 3 Bbbls total fluid |
| Source of Release: Stuffing box on the wellhead | Date and Hour of Occurrence: 5/18/12 Time unknown | Date and Hour of Discovery: 5/18/12 8:00 a.m. |
| 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. | |
| If a Watercourse was Impacted, Describe Fully.* | | |

Describe Cause of Problem and Remedial Action Taken.* The packing in the stuffing box failed. The packing was replaced.
Describe Area Affected and Cleanup Action Taken.* Approximately 410 sq.ft. of caliche well pad. All of the free product was removed with a vacuum truck, the stained soil was left in place pending remediation activities that will follow the NMOCD and BLM guidelines for leaks and spills.
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: <i>Tony Savoie</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Tony Savoie | Approved by District Supervisor: | Signed By <i>Mike Beaman</i> |
| Title: Waste Mgmt. & Remediation Specialist | Approval Date: JUN 20 2012 | Expiration Date: |
| E-mail Address: TAsavoie@BassPet.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 6/2/12 Phone: 432-556-8730 | | |

* Attach Additional Sheets If Necessary

RECEIVED
JUN 12 2012
NMOCD ARTESIA

2RP 1177
Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:**
7/20/12

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|----------------------------|
| Name of Company: BOPCO, L.P. | Contact: Tony Savoie |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329 |
| Facility Name: James Ranch Unit #55 (2RP-1177) | Facility Type: E & P |

| | | |
|------------------------|------------------------|----------------------|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-015-27589 |
|------------------------|------------------------|----------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|---------------|------------------|---------------|----------------|-----------------|
| Unit Letter F | Section 17 | Township 23S | Range 31E | Feet from the | North/South Line | Feet from the | East/West Line | County: Eddy |
|------------------|---------------|-----------------|--------------|---------------|------------------|---------------|----------------|-----------------|

Latitude N 32.306285 Longitude W 103.801920

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release: Produced water and crude oil | Volume of Release: 5 bbls of produced water and 3 bbls of crude oil | Volume Recovered: 3 bbls total fluid |
| Source of Release: Stuffing box on wellhead | Date and Hour of Occurrence: 5/18/12 Time unknown | Date and Hour of Discovery: 5/18/12 8:00 a.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? Tony Savoie | Date and Hour | NM OIL CONSERVATION |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse ARTESIA DISTRICT | |

JUL 01 2014

RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The packing in the stuffing box failed. The packing was replaced.

Describe Area Affected and Cleanup Action Taken.* Approximately 410 sq. ft. of caliche well pad. All of the free product was removed with a vacuum truck, the stained soil was left in place pending remediation activities that will follow the NMOCD and BLM guidelines for leak and spills.

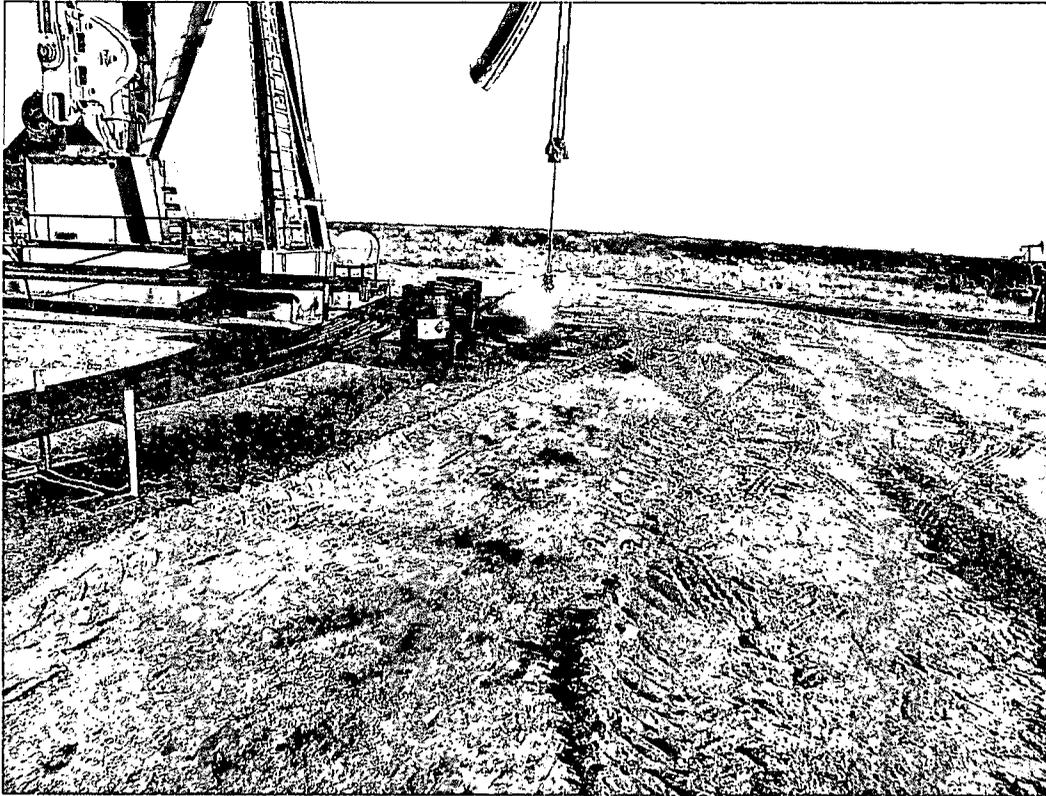
Approximately 740 cu. yds of impacted soil was excavated from an area measuring approximately 12' to 30' in width, 130' in length, and 2' to 4' in depth. Impacted soil was hauled to an NMOCD-approved disposal facility. **Please reference the attached Remediation Summary and Risk-Based Site Closure Request for detail 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 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: <i>Tony Savoie</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Tony Savoie | Approved by Environmental Specialist: | |
| Title: Waste Management and Remediation Specialist | Approval Date: | Expiration Date: |
| E-mail Address: tasavoie@basspet.com | Conditions of Approval: | |
| Date: 4/9/14 4/9/14 7/1/14 | Phone: 432-556-8730 | Attached <input type="checkbox"/> |

* Attach Additional Sheets If Necessary

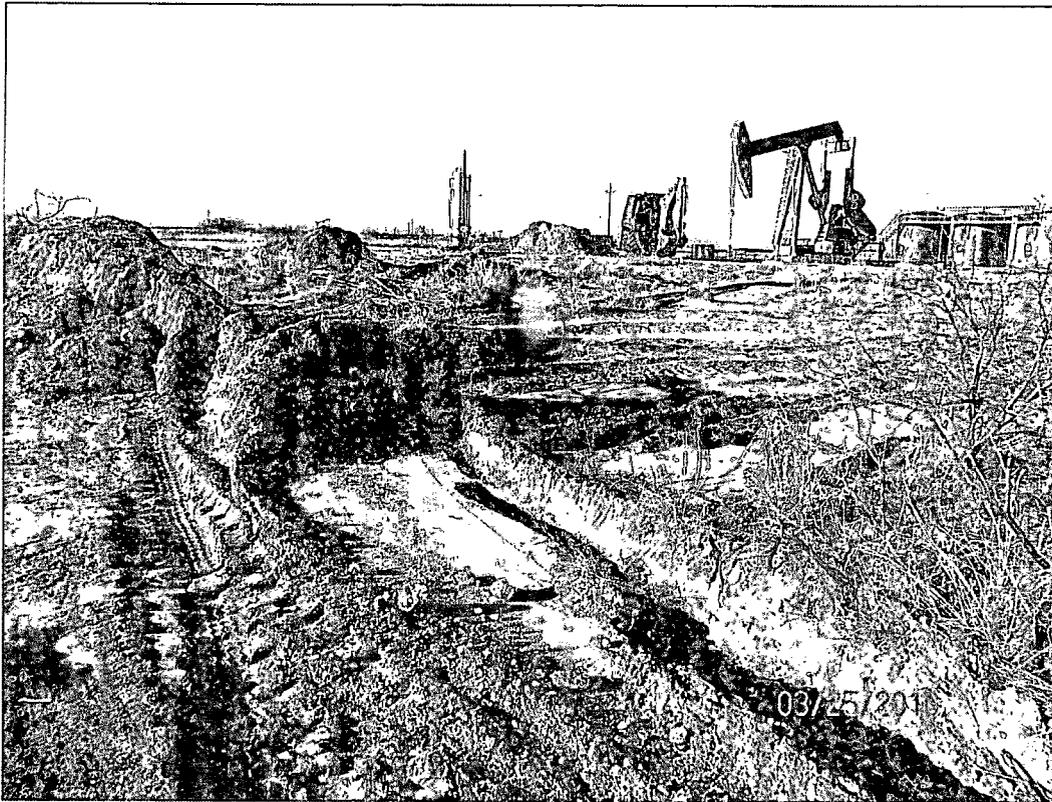
Appendix C
Photographs



Photograph of surface staining from the March 9, 2013, release at the JRU #55 Well Pad.



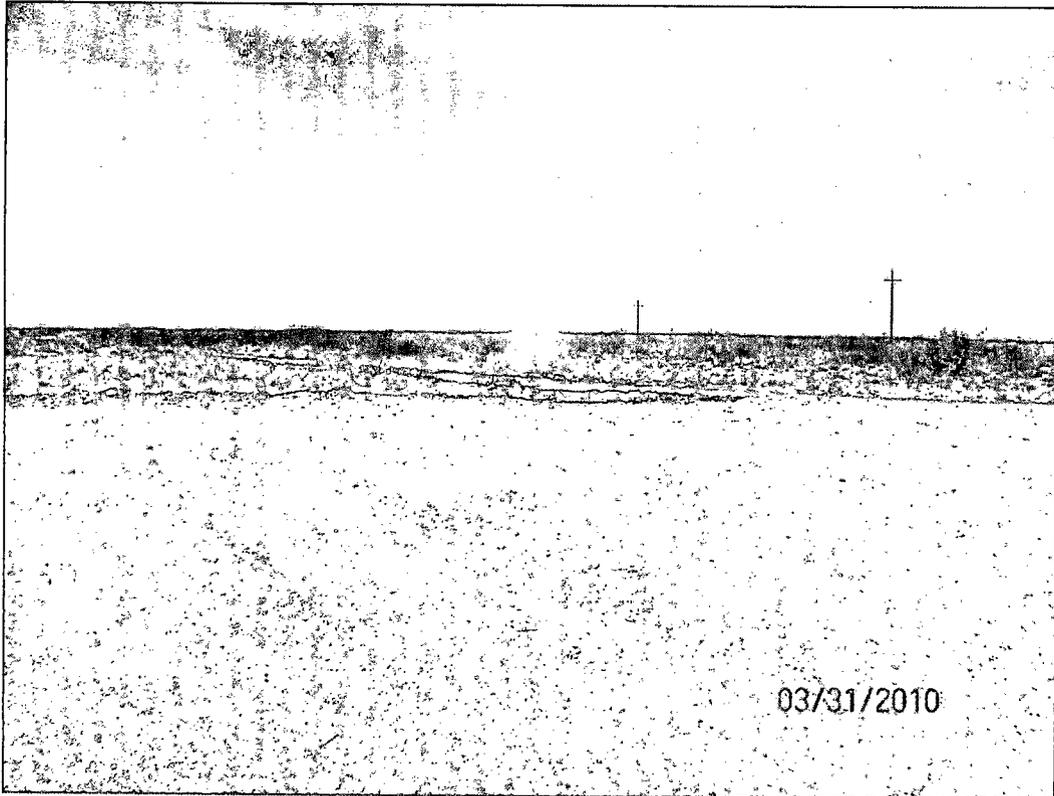
Photograph of remediation activities associated with the March 9, 2013, release at the JRU #55 Well Pad.



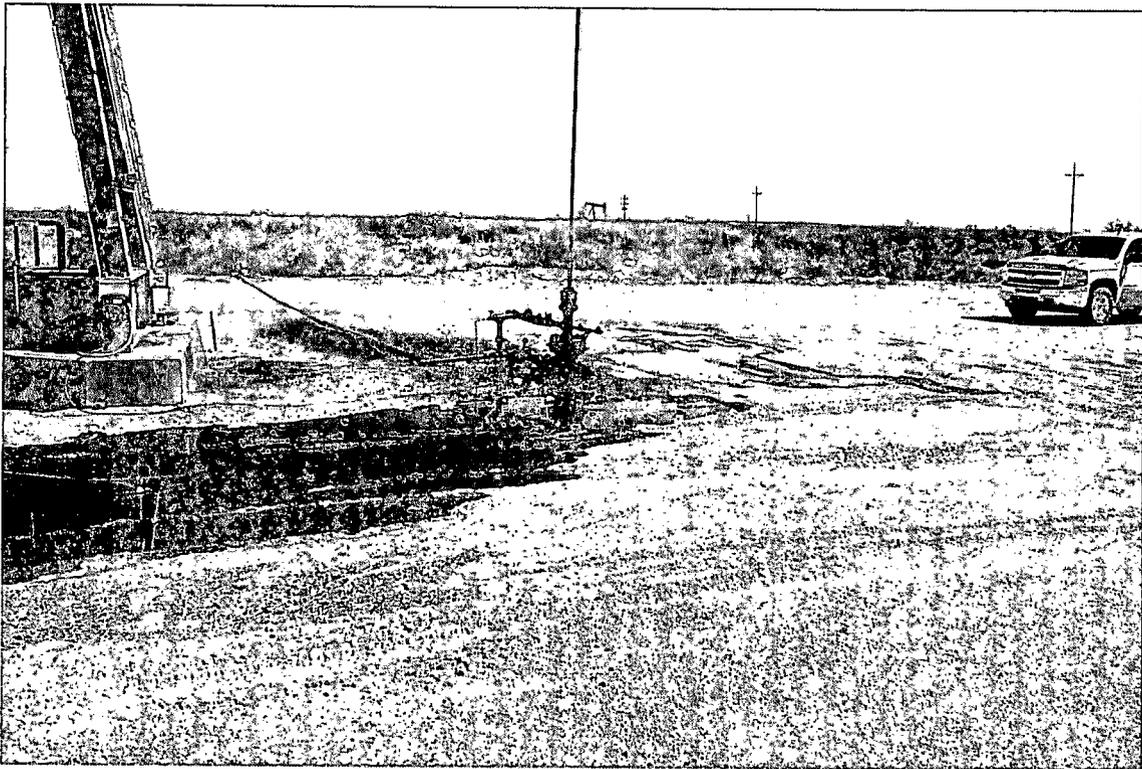
Photograph of remediation activities associated with the March 9, 2013, release at the JRU #55 Well Pad.



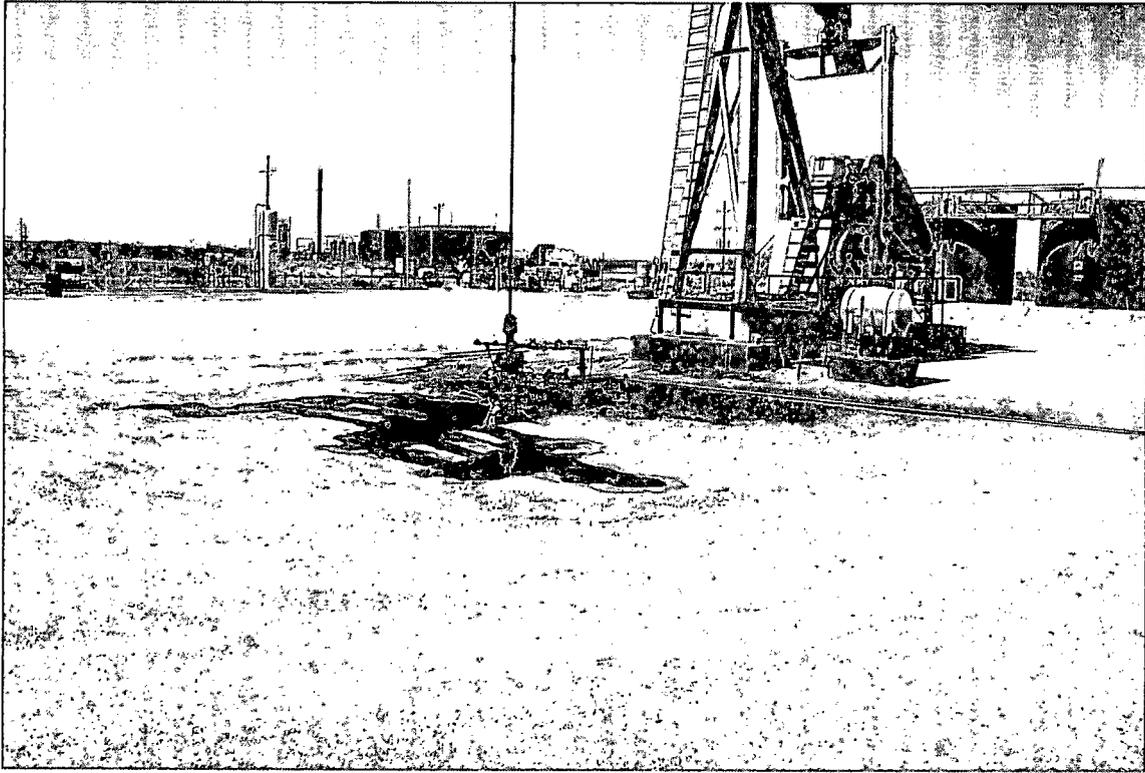
Photograph of JRU #55 Well Pad after remediation activities associated with the March 9, 2010, release.



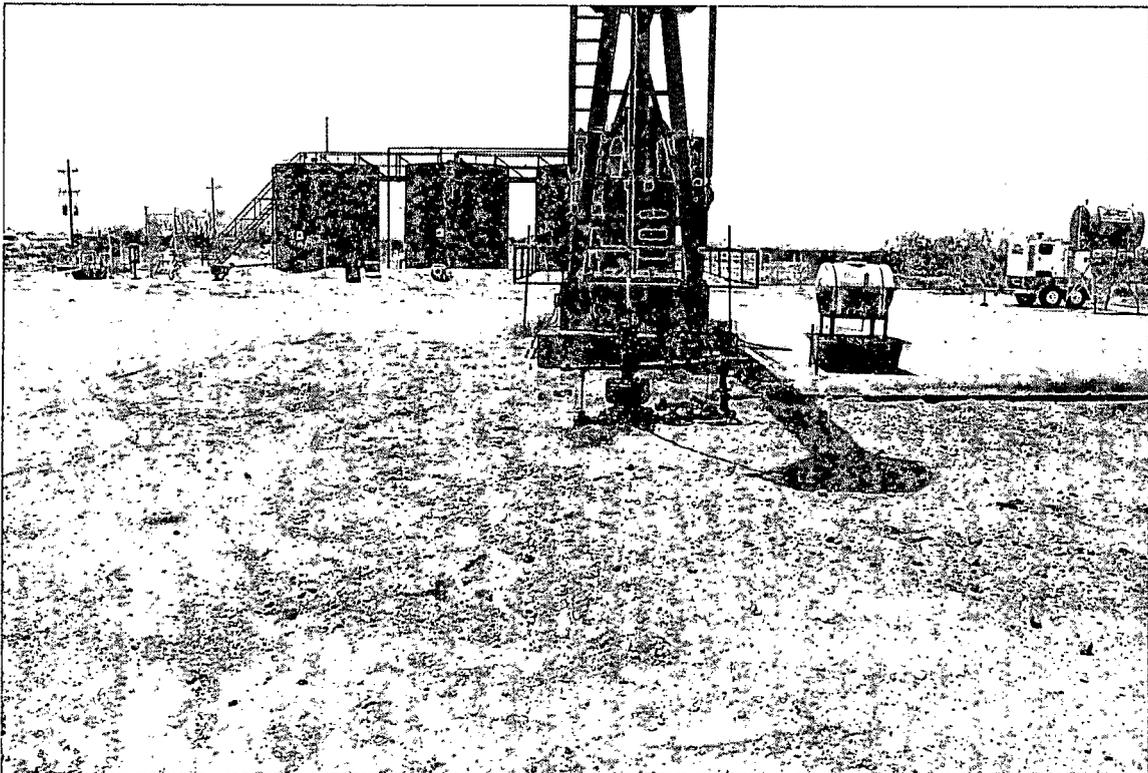
Photograph of JRU #55 Well Pad after remediation activities associated with the March 9, 2010, release.



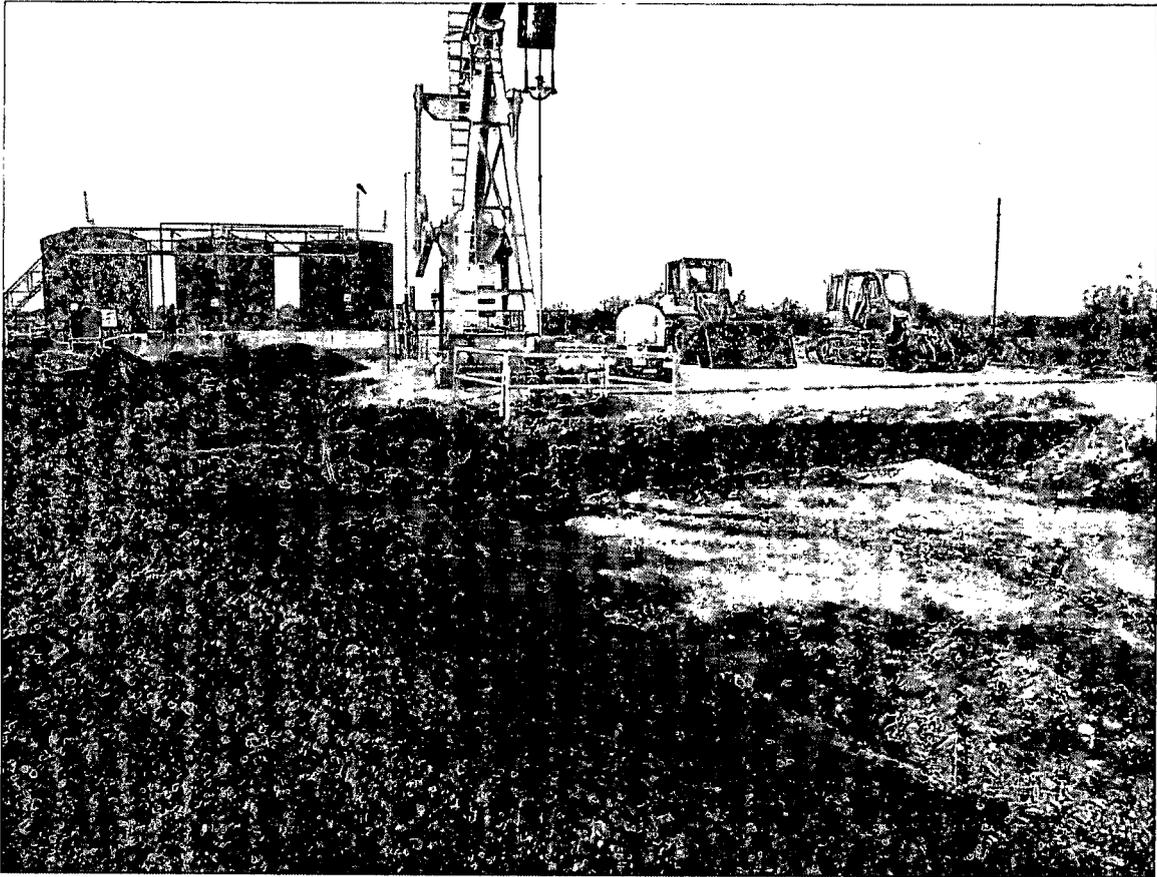
Photograph of the May 18, 2012, release at the JRU #55 Well Pad.



Photograph of the May 18, 2012, release at the JRU #55 Well Pad.



Photograph of surface staining after removing free-standing fluid at the JRU #55 Well Pad release site.



Photograph of recent excavation activities at the JRU #55 Well Pad.



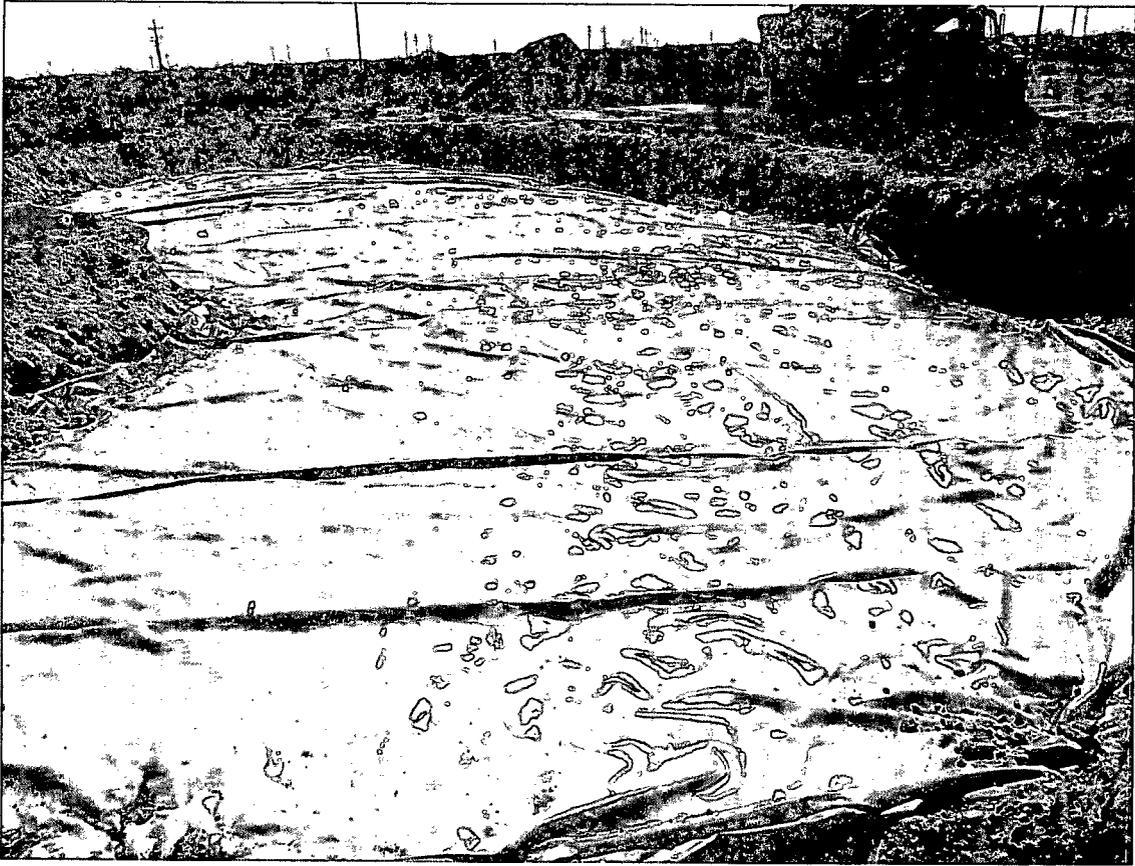
Photograph of the delineation trench at the JRU #55 Well Pad environmental remediation site.



Photograph of recent excavation activities at the JRU #55 Well Pad.



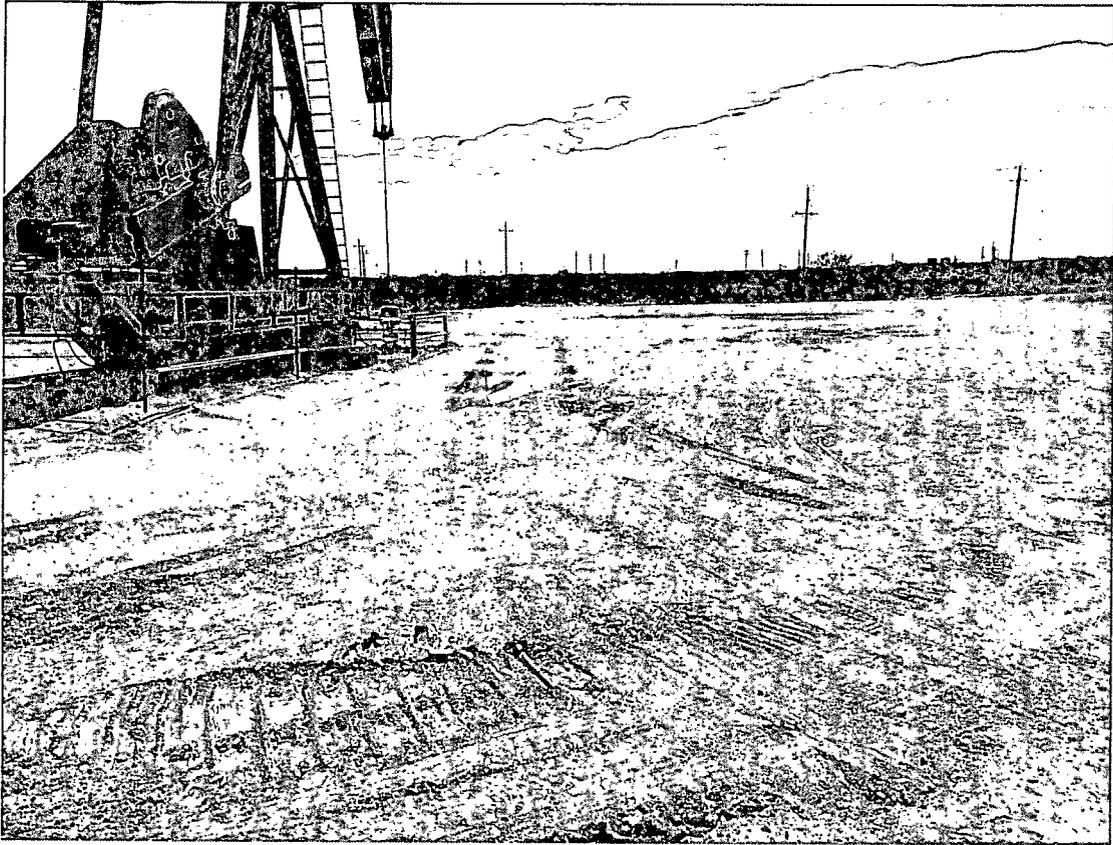
Photograph of the excavated area at the JRU #55 Well Pad.



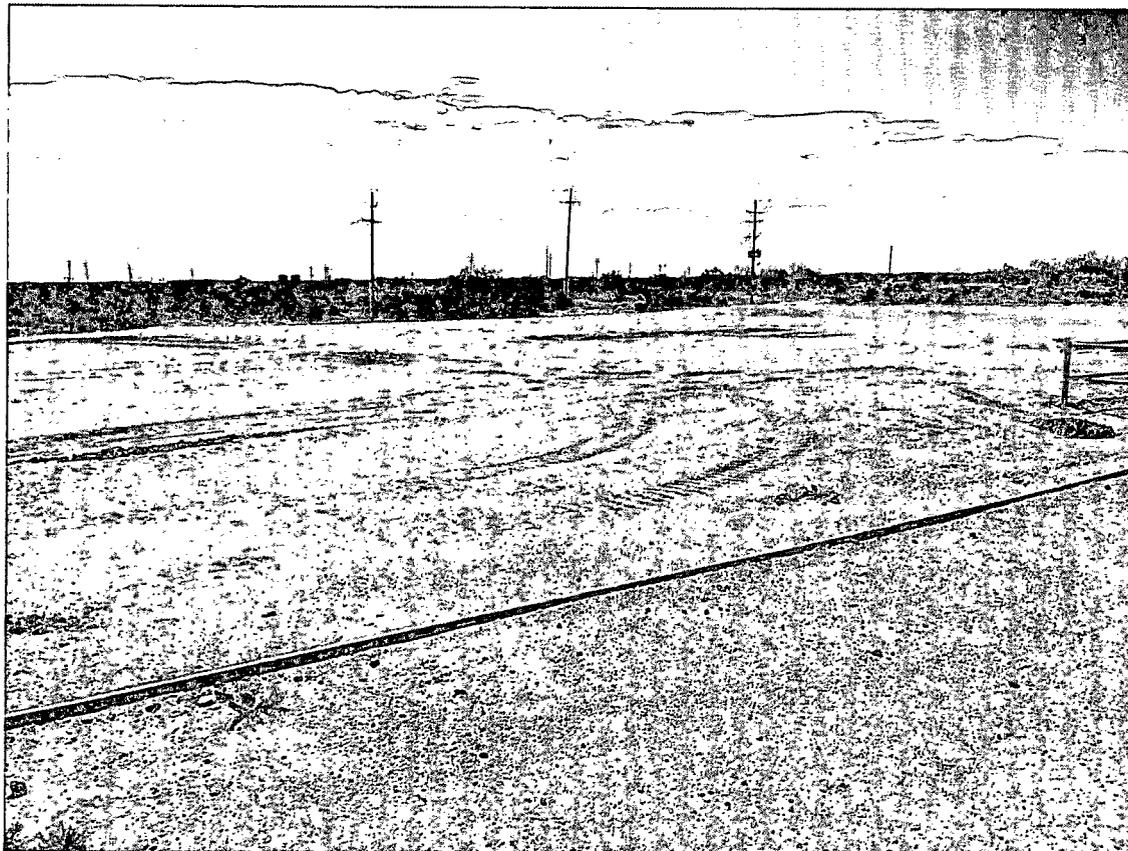
Photograph of the installation of the poly liner at the JRU #55 Well Pad.



Photograph of backfilling activities at the JRU #55 Well Pad.



Photograph of the JRU #55 Well Pad after remediation activities.



Photograph of the JRU #55 Well Pad after remediation activities.

Appendix D
Laboratory Analytical Reports

May 28, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JRU #55 WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 05/22/14 11:30.

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

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 05/22/2014
 Reported: 05/28/2014
 Project Name: JRU #55 WELL PAD
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/21/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: DT 1 @ 6' (H401571-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1100 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: DT 1 @ 9' (H401571-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 2600 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: DT 1 @ 17' (H401571-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 480 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

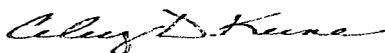
Sample ID: DT 1 @ 18.5' (H401571-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 352 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 05/22/2014
 Reported: 05/28/2014
 Project Name: JRU #55 WELL PAD
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/21/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ESW #2 (H401571-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 304 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: ESW #3 (H401571-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 304 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: NSW (H401571-07)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 256 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SSW (H401571-08)

| 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 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: ESW #1 (H401571-09)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 64.0 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

| | | | |
|-------------------|------------------|---------------------|---------------|
| Received: | 05/22/2014 | Sampling Date: | 05/20/2014 |
| Reported: | 05/28/2014 | Sampling Type: | Soil |
| Project Name: | JRU #55 WELL PAD | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | EDDY COUNTY, NM | | |

Sample ID: WSW #1 (H401571-10)

| Chloride, SM4500CI-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 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: WSW #2 (H401571-11)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 176 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: FLOOR #1 @ 2' (H401571-12)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 112 | 16.0 | 05/28/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| 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 | 05/27/2014 | ND | 199 | 99.5 | 200 | 1.11 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/27/2014 | ND | 213 | 107 | 200 | 0.0136 | | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 05/27/2014 | ND | | | | | | |

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | |
|--|--|--|--|--|--|
| Company Name: Basin Environmental Service Technologies, LLC Project Manager: Joel Lowry Address: P.O. Box 301 City: Lovington State: NM Zip: 88260 Phone #: (575)396-2378 Fax #: (575)396-1429 Project #: Project Owner: Project Name: JRU 55 Well Pad Project Location: Eddy Co., NM Sampler Name: <i>Joel Lowry</i> | | BILL TO P.O. #: Company: BOPCO, LP Attn: Tony Savoie Address: 522 W. Marland City: Carlsbad State: NM Zip: 88220 Phone #: (432)556-8730 Fax #: | | ANALYSIS REQUEST Chloride TPH (8015M) BTEX (8021B) HOLD FOR TPH | |
| FOR LAB USE ONLY Lab I.D. Sample I.D. H4D1571 7 8 9 + 10 11 12 | | MATRIX # CONTAINERS (G)RAB OR (C)OMP. GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: | | PRESERV ACID/BASE ICE / COOL OTHER: | |
| DATE 5/20/14 5/20/14 5/20/14 5/20/14 5/20/14 5/20/14 5/20/14 | | TIME 1215 1220 1225 1230 1235 1240 1245 | | <input checked="" type="checkbox"/> TPH (8015M) <input checked="" type="checkbox"/> BTEX (8021B) <input type="checkbox"/> HOLD FOR TPH | |

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|---|---|--|--|
| Reinquired By: <i>Joel Lowry</i> | Received By: <i>Bob Blackwell</i> | Date: 5/31/14 Time: 7:30 | Sample Condition Cool - Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Reinquired By: <i>Bob Blackwell</i> | Received By: <i>Dale Benson</i> | Date: 5-22-14 Time: 11:00 | CHECKED BY: <i>Dale Benson</i> |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | -4.602 | -4.602 | #54 |

Phone Result: Yes No **Add'l Phone #:**
Fax Result: Yes No **Add'l Fax #:**
REMARKS:
 HOLD FOR TPH
 Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

May 29, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JRU #55 WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 05/23/14 12:55.

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/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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 05/23/2014
 Reported: 05/29/2014
 Project Name: JRU #55 WELL PAD
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/22/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NSW #2 (H401586-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 144 | 16.0 | 05/29/2014 | ND | 432 | 108 | 400 | 3.77 | | |

Sample ID: NSW #3 (H401586-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 320 | 16.0 | 05/29/2014 | ND | 432 | 108 | 400 | 3.77 | | |

Sample ID: SSW #2 (H401586-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 160 | 16.0 | 05/29/2014 | ND | 432 | 108 | 400 | 3.77 | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

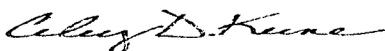
Notes and Definitions

- 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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

June 10, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JRU #55 WELL PAD

Enclosed are the results of analyses for samples received by the laboratory on 05/29/14 11:25.

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

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

| | | | |
|-------------------|------------------|---------------------|---------------|
| Received: | 05/29/2014 | Sampling Date: | 05/27/2014 |
| Reported: | 06/10/2014 | Sampling Type: | Soil |
| Project Name: | JRU #55 WELL PAD | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | EDDY COUNTY, NM | | |

Sample ID: ROAD #1 (H401646-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 288 | 16.0 | 06/04/2014 | ND | 400 | 100 | 400 | 3.92 | | |

Sample ID: ROAD #2 (H401646-02)

| BTEX 8260B | | mg/kg | | Analyzed By: ms | | | | | | |
|----------------|--------|-----------------|------------|-----------------|-------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/10/2014 | ND | 0.461 | 115 | 0.400 | 5.25 | | |
| Toluene* | <0.050 | 0.050 | 06/10/2014 | ND | 0.392 | 97.9 | 0.400 | 3.62 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/10/2014 | ND | 0.418 | 104 | 0.400 | 3.26 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/10/2014 | ND | 1.22 | 101 | 1.20 | 2.16 | | |
| Total BTEX | <0.300 | 0.300 | 06/10/2014 | ND | | | | | | |

Surrogate: Dibromofluoromethane 97.2 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 96.9 % 65.7-141

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 272 | 16.0 | 06/04/2014 | 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 | <10.0 | 10.0 | 06/03/2014 | ND | 214 | 107 | 200 | 5.51 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/03/2014 | ND | 226 | 113 | 200 | 7.38 | | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 06/03/2014 | ND | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 05/29/2014
 Reported: 06/10/2014
 Project Name: JRU #55 WELL PAD
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

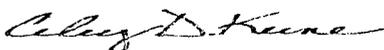
Sample ID: ROAD #2 (H401646-02)

| TPH 8015M | mg/kg | Analyzed By: MS | | | | | | | |
|-------------------------------|--------|-----------------|----------|--------------|----|------------|---------------|-----|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Surrogate: 1-Chlorooctane | 103 % | 65.2-140 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 % | 63.6-154 | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 05/29/2014
 Reported: 06/10/2014
 Project Name: JRU #55 WELL PAD
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NESW (H401646-03)

| BTEX 8260B | | mg/kg | | Analyzed By: ms | | | | | | |
|----------------|--------|-----------------|------------|-----------------|-------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/10/2014 | ND | 0.461 | 115 | 0.400 | 5.25 | | |
| Toluene* | <0.050 | 0.050 | 06/10/2014 | ND | 0.392 | 97.9 | 0.400 | 3.62 | | |
| Ethylbenzene* | <0.050 | 0.050 | 06/10/2014 | ND | 0.418 | 104 | 0.400 | 3.26 | | |
| Total Xylenes* | <0.150 | 0.150 | 06/10/2014 | ND | 1.22 | 101 | 1.20 | 2.16 | | |
| Total BTEX | <0.300 | 0.300 | 06/10/2014 | ND | | | | | | |

Surrogate: Dibromofluoromethane 99.3 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 98.5 % 65.7-141

| 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 | 06/04/2014 | 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 | <10.0 | 10.0 | 06/10/2014 | ND | 204 | 102 | 200 | 5.28 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/10/2014 | ND | 215 | 107 | 200 | 7.85 | | |
| EXT DRO >C28-C35 | <10.0 | 10.0 | 06/10/2014 | ND | | | | | | |

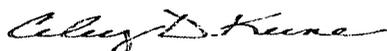
Surrogate: 1-Chlorooctane 94.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

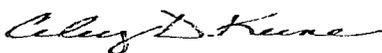
Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|-----------------------------|-----------------|--------------------------------|-------------|--------------------------|------|---|-------------------|----------|--------|------------|------------|---------|------|------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: Basin Environmental Service Technologies, LLC | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: Joel Lowry | | | | P.O. #: | | | | Chloride TPH (8015M) <i>Added 5/16</i> BTEX (8021B) HOLD FOR TPH | | | | | | | | | | | | | | | | | | | | | | |
| Address: P.O. Box 301 | | | | Company: BOPCO, LP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: Lovington | | State: NM | | Zip: 88260 | | Attn: Tony Savoie | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: (575)396-2378 | | Fax #: (575)396-1429 | | Address: 522 W. Marland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | | Project Owner: | | City: Carlsbad | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: JRU #55 Well Pad | | | | State: NM | | | | | Zip: 88220 | | | | | | | | | | | | | | | | | | | | | |
| Project Location: Eddy Co., NM | | | | Phone #: (432)556-8730 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: <i>SOEL Lowry</i> | | | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | Lab I.D. | Sample I.D. | (GRAB OR C)OMP. | # CONTAINERS | MATRIX | | | | | PRESERV. | | SAMPLING | | | | | | | | | | | | | | | | | | |
| | | | | | GROUNDWATER | WASTEWATER | SOIL | | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | | | | | | | | | | | | | | |
| | H401646 | | g | 1 | | | x | | | | x | | | 5/27/14 | 900 | x | | | | | | | | | | | | | | |
| | 1 | Road #1 | g | 1 | | | x | | | | x | | | 5/27/14 | 910 | x | x | | | | | | | | | | | | | |
| | 2 | Road #2 | g | 1 | | | x | | | | x | | | 5/27/14 | 920 | x | X | X | | | | | | | | | | | | |
| | 3 | NESW | g | 1 | | | x | | | | x | | | | | | | | | | | | | | | | | | | |

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| | | | | | | | | | |
|---|--|--|--|--|--|---|--|-----------------------|--|
| Relinquished By: <i>Joel Lowry</i> | | Date: 5/29/14 Time: 8:00 | | Received By: <i>BL Blackwood</i> | | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Add'l Phone #: | |
| Relinquished By: <i>BL Blackwood</i> | | Date: 5-28-14 Time: 11:25 | | Received By: <i>Jodi Henson</i> | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Add'l Fax #: | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | | Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No -4.8°C | | CHECKED BY: <i>JH</i> (Initials) | | REMARKS: Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com | | | |

54