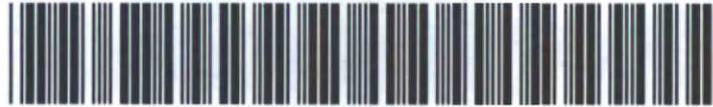




# AE Order Number Banner

## Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



**App Number: pGRL1136352182**

**1RP - 2766**

**SOUTHERN UNION GAS SERVICES, LTD**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1300 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

HOBBS OCD

Form C-141  
Revised October 10, 2003

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

AUG 15 2012

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

RECEIVED

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Southern Union Gas Services	Contact	Rose Slade
Address	801 S. Loop 464, Monahans, TX 79756	Telephone No.	432-940-5147
Facility Name	Trunk MA-4 #105	Facility Type	Natural Gas Pipeline
Surface Owner	Grobe (Corrected)	Lease No.	30-025-38822

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	9	24S	37E					Lea

**Latitude** 32 degrees 13.691' North **Longitude** 103 degrees 10.564 West

**NATURE OF RELEASE**

Type of Release	Natural Gas, Crude Oil and Produced Water	Volume of Release	35 bbls 18 MCF	Volume Recovered	None
Source of Release	10 - inch Natural Gas Pipeline	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	November 16, 2011 - 1430 hours
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking - NMOCD Hobbs District Office		
By Whom?	Rose Slade (SUGS)	Date and Hour	November 17, 2011 - 1545 hours		
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.\*

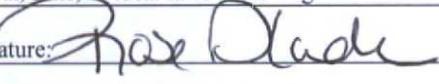
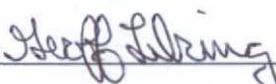
Describe Cause of Problem and Remedial Action Taken.\*

A ten (10)-inch low pressure natural gas pipeline developed a leak due to internal corrosion of the pipeline, resulting in a release of natural gas, crude oil and produced water. During initial response activities the pipeline was shut in. Heavily saturated soil was scraped and placed on plastic adjacent to the release point. Following initial response activities, the affected pipeline segment was slip lined with poly pipe.

Describe Area Affected and Cleanup Action Taken.\*

The release affected an area measuring approximately 4,000 square feet and was largely limited to a caliche road. Impacted soil was excavated and disposed of at an NMOCD approved facility. Confirmation soil samples collected from the floor and sidewalls of the Trunk MA-4 #105 excavations were analyzed by an NMOCD-approved laboratory, which determined concentrations of benzene, BTEX, TPH and chloride were less than the regulatory remediation action levels established for the site. Please see the attached Remediation Summary and Site Closure Request for details 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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Rose Slade	Approved by Environmental Specialist: 		
Title: Environmental Specialist	Approval Date: 8/15/12	Expiration Date: -	
E-mail Address: rose.slade@sug.com	Conditions of Approval: -		Attached <input type="checkbox"/> IRP#12-11-2766
Date: August 15, 2012	Phone: 432-940-5147		

\* Attach Additional Sheets If Necessary

# *Basin Environmental Service Technologies, LLC*

3100 Plains Highway  
P. O. Box 301  
Lovington, New Mexico 88260

[jwlowry@basinenv.com](mailto:jwlowry@basinenv.com)

Office: (575) 396-2378 Fax: (575) 396-1429



## **REMEDIATION SUMMARY & SITE CLOSURE REQUEST**

**SOUTHERN UNION GAS SERVICES  
TRUNK MA-4 #105  
Lea County, New Mexico**

**Unit Letter "L" (NW/SW), Section 9, Township 24 South, Range 37 East  
Latitude 32° 13.691' North, Longitude 103° 10.564' West  
NMOCD Reference # 1RP 12-11-2766**

Prepared For:

Southern Union Gas Services  
801 S. Loop 464  
Monahans, TX 79756

Prepared By:

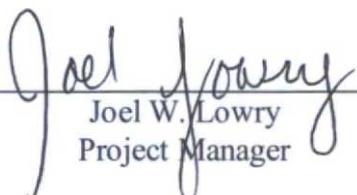
Basin Environmental Service Technologies, LLC  
3100 Plains Highway  
Lovington, New Mexico 88260

August 2012

**HOBBS OCD**

**AUG 15 2012**

**RECEIVED**

  
Joel W. Lowry  
Project Manager

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### APPENDICES

Appendix A – Photographs

Appendix B – Soil Boring Log

Appendix C – Laboratory Analytical Reports

Appendix D – Disposal Manifest

Appendix E – Release Notification and Corrective Action (Form C-141)

## 1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Southern Union Gas Services (Southern Union), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Trunk MA-4 #105. The legal description of the release site is Unit Letter "L" (NW/SW), Section 9, Township 24 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 13.691' North latitude and 103° 10.564' West longitude. The property affected by the release is owned by Mr. Bill Grobe; the initial "Release Notification and Corrective Action" (Form C-141) incorrectly identified Mr. Jimmy Doom as the landowner. Please reference Figure 1 for a "Site Location Map".

On November 16, 2011, Southern Union discovered a release had occurred on the Trunk MA-4 pipeline. The Form C-141 indicated failure of a section of ten-inch (10") low-pressure pipeline resulted in the release of approximately thirty-five barrels (35 bbls) of a mixture of crude oil, produced water and natural gas. During initial response activities the pipeline was shut in; heavily saturated soil was scraped up and placed on an impermeable liner, pending final disposition. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on November 17, 2011. The release was largely limited to a single-track road, affecting an area measuring approximately four thousand square feet (4,000 ft<sup>2</sup>). General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix E.

## 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 9, Township 24 South, Range 37 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately eighty-five feet (85') 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 Trunk MA-4 #105 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 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 1,000 mg/Kg (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 November 28, 2011, one (1) soil boring (SB-1) was advanced at the release site to delineate the vertical extent of soil impact. Soil boring "SB-1" was located near the release point, directly west of the MA-4 line. The soil boring was advanced to a total depth of approximately twenty feet (20') bgs. Soil samples were collected at five-foot (5') drilling intervals and field screened using a Photo-Ionization Detector (PID) and/or chloride test kit. A soil boring log is provided as Appendix B.

Soil samples collected from soil boring "SB-1" at drilling depths of five feet (5'), ten feet (10'), fifteen feet (15') and twenty feet (20') bgs were submitted to Xenco Laboratories Inc., of Odessa, Texas for analysis of total petroleum hydrocarbons (TPH) and chloride concentrations in accordance with EPA Methods SW 846-8015M and 300.1, respectively. Laboratory analytical results indicated TPH concentrations were less than the laboratory method detection limit (MDL) for each of the soil samples submitted. Analytical results indicated chloride concentrations ranged from 23.0 mg/Kg for soil sample SB-1 @ 20' to 346 mg/Kg in soil sample SB-1 @ 5'. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical reports are provided as Appendix C.

On July 3, 2012, Basin began excavation activities at the release site. The excavation floor and sidewalls were advanced until chloride field tests and photo-ionization detector (PID) readings indicated concentrations of chloride and TPH were less than NMOCD regulatory remediation action levels established for the site. The release flowpath, which traveled south along an oilfield access road approximately three hundred fifty feet (350'), was excavated to approximately twelve inches (12") bgs. Confirmation soil samples were collected from the floor of the flowpath at seventy-five foot (75') intervals. A small pooling area at the southern terminus of the flowpath, was excavated to approximately eighteen inches (18") bgs and sampled accordingly.

On July 5, 2012, five (5) soil samples (#1 West Wall, #2 Floor, #3 East Wall, #4 Flow Path and #5 Flow Path) were collected from the excavation and submitted to the laboratory for analysis of benzene, toluene, ethylbenzene and xylene (BTEX), TPH and chloride concentrations. BTEX concentrations were determined by EPA Method SW-846 8021b. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. Chloride concentrations ranged from 1.32 mg/Kg for soil sample #2 Floor to 24.4 mg/Kg for soil sample #4 Flowpath. Benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory remediation action levels for each of the submitted soil samples.

On July 6, 2012, seven (7) soil samples (#6 Flow Path, #7 Flow Path, South Wall, East Wall R.P., West Wall R.P., West Floor R.P. and East Floor R.P.) were collected from the excavation and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than

the appropriate laboratory MDL for each of the submitted soil samples. Chloride concentrations ranged from 1.63 mg/Kg for soil sample South Wall to 263 mg/Kg for soil sample West Floor R.P. Benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory remediation action levels for each of the submitted soil samples.

On July 16, 2012, one (1) soil sample (North Wall) was collected from the excavation and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL. Analytical results indicated the TPH concentration was 39.1 mg/Kg. The chloride concentration was 120 mg/Kg. Benzene, BTEX, TPH and chloride concentrations were less than NMOCD regulatory remediation action levels.

On July 23, 2012, on receiving approval from an NMOCD representative, the excavation was backfilled with locally purchased, non-impacted material. Excavation backfill was compacted in twelve-inch (12") lifts and contoured to fit the surrounding topography. Prior to backfilling the excavation, the final dimensions of the primary excavation were approximately forty feet (40') in length, thirty-five feet (35') in width, and approximately five feet (5') in depth. The final dimensions of the flowpath area were approximately three hundred fifty feet (350') in length, ten feet (10') in width, and ranged in depth from twelve inches (12") to eighteen inches (18") bgs.

Between July 5 and 16, 2012, approximately six hundred twenty-four cubic yards (624 yd<sup>3</sup>) of impacted material was transported to Sundance Services, Inc. (NMOCD Permit # 01-0003) for disposal. Copies of disposal manifests are provided as Appendix D.

#### **4.0 QA/QC PROCEDURES**

##### **4.1 Soil Sampling**

Soil samples were delivered to Xenco Laboratories, Inc., of Odessa, Texas, 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 modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 300.1

##### **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

Confirmation soil samples collected from the floor and sidewalls of the Trunk MA-4 #105 excavation were analyzed by an NMOCD-approved laboratory, which determined concentrations of benzene, BTEX, TPH and chloride were less than the regulatory remediation action levels established for the site. Based on these laboratory analytical results, Basin recommends Southern Union provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Trunk MA-4 #105 release site.

## 6.0 LIMITATIONS

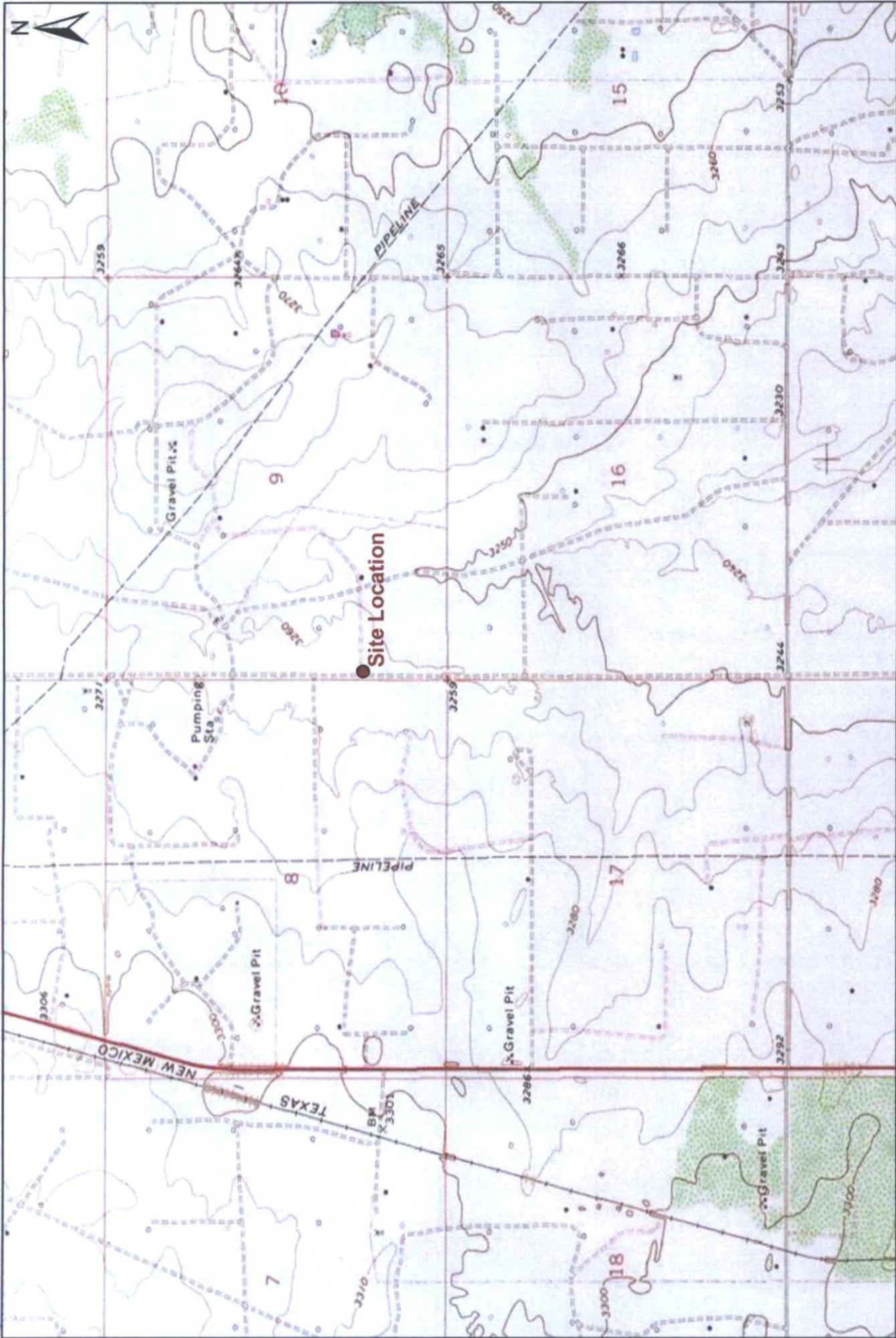
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by 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 Southern Union Gas Services. 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 Southern Union Gas Services.

## 7.0 DISTRIBUTION:

- Copy 1: Geoffrey Leking  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division (District 1)  
1625 French Drive  
Hobbs, NM 88240  
GeoffreyR.Leking@state.nm.us
- Copy 2: Rose Slade & Curt Stanley  
Southern Union Gas Services  
801 S. Loop 464  
Monahans, Texas 79756  
rose.slade@sug.com  
curt.stanley@sug.com
- Copy 3: Basin Environmental Service Technologies, LLC  
P.O. Box 301  
Lovington, New Mexico 88260

## FIGURES



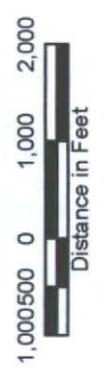
Basin Environmental Service Technologies, LLC  
 3100 Plains Hwy.  
 Lovington, NM 88260

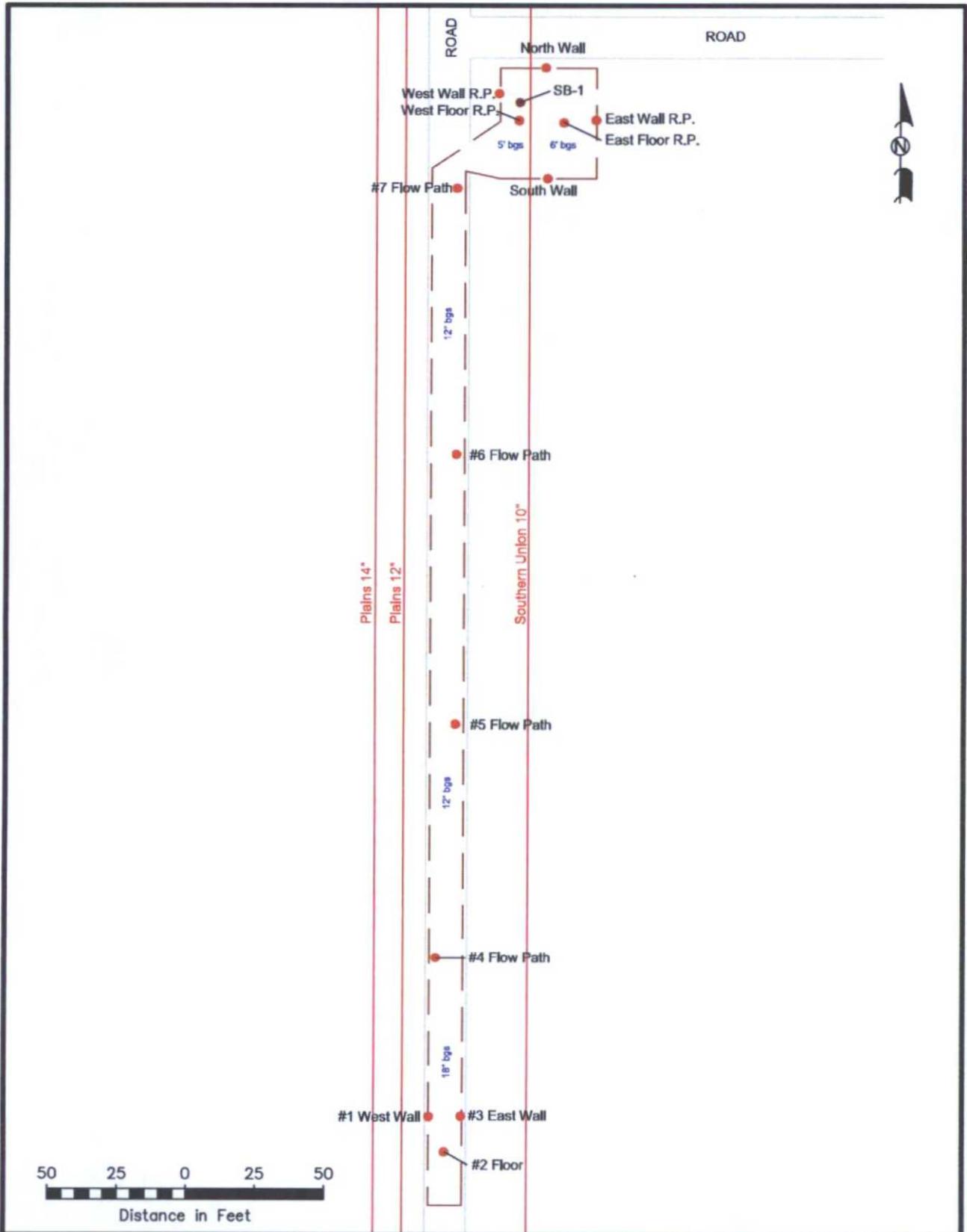
Drawn By: BJA  
 August 2, 2012

Checked By: JWJ  
 Scale: 1" = 2000'



**Figure 1**  
 Site Location Map  
 Southern Union Gas Services  
 Trunk MA-4 #105  
 Lea County, New Mexico





**LEGEND:**

Excavation Extent	Road
Pipeline	
Soil Boring	
Sample Location	

**Figure 1**  
**Site & Sample Location Map**  
**Southern Union Gas Services**  
**MA-4**  
**Lea County, NM**

**Basin Environmental Service Technologies, LLC**

Scale: 1" = 50'	Prep By: JWL	Checked By: BJA
July 18, 2012		

## **TABLES**

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES  
 TRUNK MA-4 #105  
 LEA COUNTY, NEW MEXICO  
 NMOCD REF# 1RP 12-11-2766

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030										METHOD: 8015M				TOTAL TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	EPA 300 CHLORIDE (mg/Kg)		
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TOTAL BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)			DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)
SB-1 @ 5'	5'	11/28/2011	In-Situ	-	-	-	-	-	-	-	-	-	-	-	<16.0	<16.0	<16.0	<16.0	<16.0	346	
SB-1 @ 10'	10'	11/28/2011	In-Situ	-	-	-	-	-	-	-	-	-	-	-	<15.9	<15.9	<15.9	<15.9	<15.9	365	
SB-1 @ 15'	15'	11/28/2011	In-Situ	-	-	-	-	-	-	-	-	-	-	-	<16.0	<16.0	<16.0	<16.0	<16.0	28.6	
SB-1 @ 20'	20'	11/28/2011	In-Situ	-	-	-	-	-	-	-	-	-	-	-	<15.8	<15.8	<15.8	<15.8	<15.8	23.0	
#1 West Wall	3'	7/5/2012	In-Situ	<0.00116	<0.00116	<0.00116	<0.00232	<0.00232	<0.00232	<0.00116	<0.00116	<0.00116	<0.00232	<0.00232	<18.2	<18.2	<18.2	<18.2	<18.2	1.38	
#2 Floor	3'	7/5/2012	In-Situ	<0.00120	<0.00120	<0.00120	<0.00240	<0.00240	<0.00240	<0.00120	<0.00120	<0.00120	<0.00240	<0.00240	<18.6	<18.6	<18.6	<18.6	<18.6	1.32	
#3 East Wall	3'	7/5/2012	In-Situ	<0.00115	<0.00115	<0.00115	<0.00230	<0.00230	<0.00230	<0.00115	<0.00115	<0.00115	<0.00230	<0.00230	<17.3	<17.3	<17.3	<17.3	<17.3	12.6	
#4 Flowpath	1'	7/5/2012	In-Situ	<0.00122	<0.00122	<0.00122	<0.00244	<0.00244	<0.00244	<0.00122	<0.00122	<0.00122	<0.00244	<0.00244	<18.4	<18.4	<18.4	<18.4	<18.4	24.4	
#5 Flowpath	1'	7/5/2012	In-Situ	<0.00118	<0.00118	<0.00118	<0.00236	<0.00236	<0.00236	<0.00118	<0.00118	<0.00118	<0.00236	<0.00236	<18.3	<18.3	<18.3	<18.3	<18.3	5.75	
#6 Flow Path	1'	7/6/2012	In-Situ	<0.00100	<0.00201	<0.00100	<0.00201	<0.00201	<0.00201	<0.00100	<0.00100	<0.00100	<0.00201	<0.00201	<15.1	<15.1	<15.1	<15.1	<15.1	2.86	
#7 Flow Path	1'	7/6/2012	In-Situ	<0.00104	<0.00207	<0.00104	<0.00207	<0.00207	<0.00207	<0.00104	<0.00104	<0.00104	<0.00207	<0.00207	<15.5	<15.5	<15.5	<15.5	<15.5	5.20	
South Wall	5'	7/6/2012	In-Situ	<0.00105	<0.00209	<0.00105	<0.00209	<0.00209	<0.00209	<0.00105	<0.00105	<0.00105	<0.00209	<0.00209	<15.7	<15.7	<15.7	<15.7	<15.7	1.63	
East Wall R.P.	6'	7/6/2012	In-Situ	<0.00104	<0.00208	<0.00104	<0.00208	<0.00208	<0.00208	<0.00104	<0.00104	<0.00104	<0.00208	<0.00208	<15.5	<15.5	<15.5	<15.5	<15.5	6.65	
West Wall R.P.	5'	7/6/2012	In-Situ	<0.00105	<0.00211	<0.00105	<0.00211	<0.00211	<0.00211	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	<15.9	<15.9	<15.9	<15.9	<15.9	85.2	
West Floor R.P.	5'	7/6/2012	In-Situ	<0.00112	<0.00224	<0.00112	<0.00224	<0.00224	<0.00224	<0.00112	<0.00112	<0.00112	<0.00224	<0.00224	<16.7	<16.7	<16.7	<16.7	<16.7	263	
East Floor R.P.	6'	7/6/2012	In-Situ	<0.00111	<0.00221	<0.00111	<0.00221	<0.00221	<0.00221	<0.00111	<0.00111	<0.00111	<0.00221	<0.00221	<16.5	<16.5	<16.5	<16.5	<16.5	67.1	
North Wall	5'	7/16/2012	In-Situ	<0.00107	<0.00214	<0.00107	<0.00214	<0.00214	<0.00214	<0.00107	<0.00107	<0.00107	<0.00214	<0.00214	<16.1	<16.1	<16.1	<16.1	<16.1	120	
<b>NMOCD Standard</b>				<b>10</b>			<b>50</b>													<b>1,000</b>	<b>500</b>

- = Not analyzed.

## **APPENDICES**

**APPENDIX A**

**Photographs**



Photograph of initial release at the Trunk MA-4 #105 Release Site. (Looking South)



Photograph of initial release and flowpath at the Trunk MA-4 #105 Release Site. (Looking South)



Photograph of pooling area at the southern terminus of flowpath at the Trunk MA-4 #105 Release Site. (Looking North)



Photograph of road after having been excavated at the Trunk MA-4 #105 Release Site. (Looking South)



Photograph of advancement of soil boring SB-1 at the Trunk MA-4 #105 Release Site. (Looking Northeast)



Photograph of the installation of bentonite plug in SB-1 at the Trunk MA-4 #105 Release Site.



Photograph of the excavation at the Trunk MA-4 #105 Release Site. (Looking South)



Photograph of the Trunk MA-4 #105 Release Site after having been backfilled. (Looking South)



Photograph of oil field access road after having been backfilled. (Looking South)



Photograph of the Trunk MA-4 #105 Release Site after remediation activities. (Looking South)

**APPENDIX B**

**Soil Boring Log**

# Soil Boring SB-1

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description	Boring SB-1
0		(196)		None	None	0' - 4' - Red fine sand	Date Drilled <u>November 28, 2011</u>
5		(300)		None	None	4' - 9' - Caliche; tan fine sand; sandstone	Thickness of Bentonite Seal <u>20 Ft</u>
10		(<120)		None	None	9' - 20' - Tan fine sand; sandstone (soft)	Depth of Exploratory Boring <u>20 Ft bgs</u>
15		(<120)		None	None		Depth to Groundwater _____
20							Ground Water Elevation _____

 Indicates the PSH level measured on \_\_\_\_\_  
 Indicates the groundwater level measured on \_\_\_\_\_  
 Indicates samples selected for Laboratory Analysis.  
 PID Head-space reading in ppm obtained with a photo-ionization detector.

### Completion Notes

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

**Soil Boring SB-1**

**Southern Union Gas Services**  
 Trunk MA-4 #105  
 Lea County, New Mexico

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

Prep By: BJA	Checked By: BRB
July 2, 2012	

## **APPENDIX C**

### **Laboratory Analytical Reports**

**Analytical Report 432427**  
**for**  
**Southern Union Gas Services- Monahans**

**Project Manager: Rose Slade**  
**MA-4 (11/9/11) - Jimmy Doom**

**08-DEC-11**

Collected By: Client



**Celebrating 20 Years of commitment to excellence in Environmental Testing Services**



**12600 West I-20 East Odessa, Texas 79765**

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



08-DEC-11

Project Manager: **Rose Slade**  
**Southern Union Gas Services- Monahans**  
1507 W. 15th Street  
Monahans, TX 79756

Reference: XENCO Report No: **432427**  
**MA-4 (11/9/11) - Jimmy Doom**  
Project Address: Lea County, NM

**Rose Slade:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 432427. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 432427 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

---

**Brent Barron II**

Odessa Laboratory Manager

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**Sample Cross Reference 432427**



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4 (11/9/11) - Jimmy Doom

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
SB-1 @ 5'	S	11-28-11 10:00		432427-001
SB-1 @ 10'	S	11-28-11 10:05		432427-002
SB-1 @ 15'	S	11-28-11 10:10		432427-003
SB-1 @ 20'	S	11-28-11 10:15		432427-004



## CASE NARRATIVE

*Client Name: Southern Union Gas Services- Monahans*  
*Project Name: MA-4 (11/9/11) - Jimmy Doom*



*Project ID:*  
*Work Order Number: 432427*

*Report Date: 08-DEC-11*  
*Date Received: 11/30/2011*

---

**Sample receipt non conformances and comments:**

None

---

**Sample receipt non conformances and comments per sample:**

None



**Certificate of Analysis Summary 432427**  
**Southern Union Gas Services- Monahans, Monahans, TX**



**Project Id:**

**Contact:** Rose Slade

**Project Location:** Lea County, NM

**Project Name:** MA-4 (11/9/11) - Jimmy Doom

**Date Received in Lab:** Wed Nov-30-11 02:37 pm

**Report Date:** 08-DEC-11

**Project Manager:** Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	432427-001	432427-002	432427-003	432427-004		
	<i>Field Id:</i>	SB-1 @ 5'	SB-1 @ 10'	SB-1 @ 15'	SB-1 @ 20'		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Nov-28-11 10:00	Nov-28-11 10:05	Nov-28-11 10:10	Nov-28-11 10:15		
<b>Inorganic Anions by EPA 300/300.1 SUB: E871002</b>	<i>Extracted:</i>	Dec-06-11 08:46	Dec-06-11 09:00	Dec-06-11 09:14	Dec-06-11 09:29		
	<i>Analyzed:</i>	Dec-06-11 08:46	Dec-06-11 09:00	Dec-06-11 09:14	Dec-06-11 09:29		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		346 5.36	365 5.31	28.6 5.35	23.0 5.30		
<b>Percent Moisture SUB: E871002</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Dec-01-11 14:35	Dec-01-11 14:35	Dec-01-11 14:35	Dec-01-11 14:35		
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
Percent Moisture		6.72 1.00	5.75 1.00	6.61 1.00	5.70 1.00		
<b>TPH By SW8015 Mod SUB: E871002</b>	<i>Extracted:</i>	Dec-02-11 13:51	Dec-02-11 13:54	Dec-02-11 13:57	Dec-02-11 14:00		
	<i>Analyzed:</i>	Dec-03-11 17:14	Dec-03-11 17:36	Dec-03-11 17:59	Dec-03-11 18:23		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		ND 16.0	ND 15.9	451 16.0	ND 15.8		
C12-C28 Diesel Range Hydrocarbons		ND 16.0	ND 15.9	485 16.0	ND 15.8		
C28-C35 Oil Range Hydrocarbons		ND 16.0	ND 15.9	74.1 16.0	ND 15.8		
Total TPH		ND 16.0	ND 15.9	1010 16.0	ND 15.8		

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

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

Brent Barron II  
Odessa Laboratory Manager

## Flagging Criteria

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

\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

^ NELAC or State program does not offer Accreditation at this time.

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4143 Greenbriar Dr, Stafford, TX 77477  
 9701 Harry Hines Blvd, Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 2505 North Falkenburg Rd, Tampa, FL 33619  
 5757 NW 158th St, Miami Lakes, FL 33014  
 12600 West I-20 East, Odessa, TX 79765  
 6017 Financial Drive, Norcross, GA 30071  
 3725 E. Atlanta Ave, Phoenix, AZ 85040

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



# Form 2 - Surrogate Recoveries

Project Name: MA-4 (11/9/11) - Jimmy Doom

Work Orders : 432427,

Project ID:

Lab Batch #: 876221

Sample: 432427-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/03/11 17:14

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.7	99.7	98	70-135	
o-Terphenyl	46.4	49.9	93	70-135	

Lab Batch #: 876221

Sample: 432427-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/03/11 17:36

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.6	99.6	93	70-135	
o-Terphenyl	45.6	49.8	92	70-135	

Lab Batch #: 876221

Sample: 432427-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/03/11 17:59

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	99.5	91	70-135	
o-Terphenyl	39.8	49.8	80	70-135	

Lab Batch #: 876221

Sample: 432427-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/03/11 18:23

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.3	99.4	93	70-135	
o-Terphenyl	44.2	49.7	89	70-135	

Lab Batch #: 876221

Sample: 614879-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 12/03/11 13:00

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.7	100	96	70-135	
o-Terphenyl	45.8	50.0	92	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# Form 2 - Surrogate Recoveries

Project Name: MA-4 (11/9/11) - Jimmy Doom

Work Orders : 432427,

Project ID:

Lab Batch #: 876221

Sample: 614879-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 12/03/11 13:24

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	48.7	50.0	97	70-135	

Lab Batch #: 876221

Sample: 432404-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/03/11 14:10

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.3	99.5	87	70-135	
o-Terphenyl	41.3	49.8	83	70-135	

Lab Batch #: 876221

Sample: 432404-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/03/11 14:33

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.8	100	91	70-135	
o-Terphenyl	44.7	50.0	89	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# Blank Spike Recovery



Project Name: MA-4 (11/9/11) - Jimmy Doom

Work Order #: 432427

Project ID:

Lab Batch #: 876334  
Date Analyzed: 12/06/2011  
Reporting Units: mg/kg

Sample: 614998-1-BKS  
Date Prepared: 12/06/2011

Matrix: Solid  
Analyst: MAB

Batch #: 1

### BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<5.00	500	524	105	80-120	

Lab Batch #: 876221  
Date Analyzed: 12/03/2011  
Reporting Units: mg/kg

Sample: 614879-1-BKS  
Date Prepared: 12/02/2011

Matrix: Solid  
Analyst: JAH

Batch #: 1

### BLANK /BLANK SPIKE RECOVERY STUDY

TPH By SW8015 Mod	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	1050	105	70-135	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	924	92	70-135	

Blank Spike Recovery [D] = 100\*[C]/[B]  
All results are based on MDL and validated for QC purposes.  
BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries



Project Name: MA-4 (11/9/11) - Jimmy Doom

Work Order #: 432427

Project ID:

Lab Batch ID: 876334

QC- Sample ID: 432427-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 12/06/2011

Date Prepared: 12/06/2011

Analyst: MAB

Reporting Units: mg/kg

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Chloride	23.0	530	574	104	530	578	105	1	80-120	20

Lab Batch ID: 876221

QC- Sample ID: 432404-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 12/03/2011

Date Prepared: 12/02/2011

Analyst: JAH

Reporting Units: mg/kg

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	C6-C12 Gasoline Range Hydrocarbons	<15.5	1030	972	94	1040	992	95	2	70-135	35
C12-C28 Diesel Range Hydrocarbons	671	1030	1560	86	1040	1610	90	3	70-135	35	

Matrix Spike Percent Recovery  $[D] = 100 \cdot (C-A)/B$   
Relative Percent Difference  $RPD = 200 \cdot |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery  $[G] = 100 \cdot (F-A)/E$

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



# Sample Duplicate Recovery



**Project Name: MA-4 (11/9/11) - Jimmy Doom**

**Work Order #: 432427**

**Lab Batch #: 876078**

**Project ID:**

**Date Analyzed: 12/01/2011 14:35**

**Date Prepared: 12/01/2011**

**Analyst: BRB**

**QC- Sample ID: 432427-001 D**

**Batch #: 1**

**Matrix: Soil**

**Reporting Units: %**

## SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	6.72	6.10	10	20	

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

# Xenco Laboratories

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East  
Odessa, Texas 79765

Phone: 432-563-1800  
Fax: 432-563-1713

Project Manager: Ben J. Arguijo

Project Name: MA-4 (11/9/11) - Jimmy Doom

Company Name: Basin Environmental Service Technologies, LLC

Project #: \_\_\_\_\_

Company Address: P.O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: \_\_\_\_\_

Telephone No: (575)396-2378

Fax No: (575) 396-1429

Report Format:  Standard  TRRP  NPDES

Sampler Signature: 

e-mail: barguijo@basinenv.com; Rose.Stade@SUG.com

(lab use only)  
ORDER #: 432427

Analyze For:		TCLP		TOTAL		X																						
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	None	Other (Specify)	Matrix	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	CHLORIDES	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	SB-1 @ 5'			11/28/2011	1000	1	X									SOIL	X									X		X
02	SB-1 @ 10'			11/28/2011	1005	1	X									SOIL	X									X		X
03	SB-1 @ 15'			11/28/2011	1010	1	X									SOIL	X									X		X
04	SB-1 @ 20'			11/28/2011	1015	1	X									SOIL	X									X		X

Special Instructions: **\*\*Run BTEX on sample with highest GRO.\*\***

Laboratory Comments:		Y	N
Sample Containers Intact?		Y	N
VOCs Free of Headspace?		Y	N
Labels on container(s)		Y	N
Custody seals on container(s)		Y	N
Custody seals on cooler(s)		Y	N
Sample Hand Delivered by Sampler/Client Rep. ?		Y	N
by Courier? UPS DHL FedEx Lone Star		Y	N
Temperature Upon Receipt:	<u>2.0</u>	°C	

Relinquished by:	Date	Time	Received by:	Date	Time
<u></u>	<u>11/30/11</u>	<u>0800</u>	<u>Michael Ranning</u>	<u>11/30/11</u>	<u>0800</u>
<u>Michael Ranning</u>	<u>11/30/11</u>	<u>1437</u>			
			Received by ELOJ:	<u>11/30/11</u>	<u>14:57</u>



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

Document Title: Sample Receipt Checklist  
 Document No.: SYS-SRC  
 Revision/Date: No. 01, 5/27/2010  
 Effective Date: 6/1/2010 Page 1 of 1

**Prelogin / Nonconformance Report - Sample Log-In**

Client: Basin Env. / SUGS  
 Date/Time: 11.30.11 14:37  
 Lab ID #: 432427  
 Initials: TB

**Sample Receipt Checklist**

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	<u>Yes</u>	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>2.0</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

**Nonconformance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
  - Initial and Backup Temperature confirm out of temperature conditions
  - Client understands and would like to proceed with analysis

**Analytical Report 445224**  
**for**  
**Southern Union Gas Services- Monahans**

**Project Manager: Rose Slade**

**MA-4**

**18-JUL-12**

Collected By: Client



**Celebrating 20 Years of commitment to excellence in Environmental Testing Services**



**12600 West I-20 East Odessa, Texas 79765**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)  
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)  
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)  
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



18-JUL-12

Project Manager: **Rose Slade**  
**Southern Union Gas Services- Monahans**  
801 South Loop 464  
Monahans, TX 79756

Reference: XENCO Report No: **445224**  
**MA-4**  
Project Address: Lea County, NM

**Rose Slade:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 445224. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 445224 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

---

**Nicholas Straccione**

Project Manager

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# Sample Cross Reference 445224



Southern Union Gas Services- Monahans, Monahans, TX  
MA-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
#1 West Wall	S	07-05-12 12:05	3 - 3 ft	445224-001
#2 Floor	S	07-05-12 12:15	3 - 3 ft	445224-002
#3 East Wall	S	07-05-12 12:20	3 - 3 ft	445224-003
#4 Flowpath	S	07-05-12 12:35	1 - 1 ft	445224-004
#5 Flowpath	S	07-05-12 12:50	1 - 1 ft	445224-005



## CASE NARRATIVE

*Client Name: Southern Union Gas Services- Monahans*  
*Project Name: MA-4*



*Project ID:*  
*Work Order Number: 445224*

*Report Date: 18-JUL-12*  
*Date Received: 07/06/2012*

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-892439 BTEX by SW 8260B  
SW8260BTX

Batch 892439, 1,2-Dichloroethane-D4, Dibromofluoromethane recovered below QC limits .  
Matrix interferences is suspected; data confirmed by re-analysis  
Samples affected are: 445224-001.



**Hits Summary** 445224



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: #1 West Wall	Matrix: Soil	% Moisture: 17.87
Lab Sample Id: 445224-001	Date Collected: Jul-05-12 12:05	Basis: Dry Weight
Sample Depth: 3 - 3 ft	Date Received: Jul-06-12 09:35	

Analytical Method: Inorganic Anions by EPA 300/300.1	Prep Method: E300P
Seq Number: 892049	Date Prep: Jul-12-12 00:07

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1.38	mg/kg	07/12/12 00:07		1



**Hits Summary** 445224



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>#1 West Wall</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445224-001</b>	Date Collected: <b>Jul-05-12 12:05</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>3 - 3 ft</b>	Date Received: <b>Jul-06-12 09:35</b>	

**Analytical Method: Percent Moisture**  
Seq Number: 891872

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	17.9	%	07/10/12 15:40		1



**Hits Summary** 445224



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: #2 Floor	Matrix: Soil	% Moisture: 19.47
Lab Sample Id: 445224-002	Date Collected: Jul-05-12 12:15	Basis: Dry Weight
Sample Depth: 3 - 3 ft	Date Received: Jul-06-12 09:35	

Analytical Method: Inorganic Anions by EPA 300/300.1	Prep Method: E300P
Seq Number: 892049	Date Prep: Jul-12-12 00:23

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1.32	mg/kg	07/12/12 00:23		1



**Hits Summary** 445224



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: #2 Floor	Matrix: Soil	% Moisture:
Lab Sample Id: 445224-002	Date Collected: Jul-05-12 12:15	Basis: Wet Weight
Sample Depth: 3 - 3 ft	Date Received: Jul-06-12 09:35	

**Analytical Method: Percent Moisture**  
Seq Number: 891872

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	19.5	%	07/10/12 15:40		1



**Hits Summary** 445224



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: #3 East Wall	Matrix: Soil	% Moisture: 13.77
Lab Sample Id: 445224-003	Date Collected: Jul-05-12 12:20	Basis: Dry Weight
Sample Depth: 3 - 3 ft	Date Received: Jul-06-12 09:35	

Analytical Method: Inorganic Anions by EPA 300/300.1	Prep Method: E300P
Seq Number: 892049	Date Prep: Jul-12-12 00:39

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.6	mg/kg	07/12/12 00:39		1



**Hits Summary**      **445224**



**Southern Union Gas Services- Monahans, Monahans, TX**  
**MA-4**

Sample Id: <b>#3 East Wall</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445224-003</b>	Date Collected: <b>Jul-05-12 12:20</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>3 - 3 ft</b>	Date Received: <b>Jul-06-12 09:35</b>	

**Analytical Method: Percent Moisture**  
Seq Number: 891872

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	13.8	%	07/10/12 15:40		1



**Hits Summary** 445224



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>#4 Flowpath</b>	Matrix: <b>Soil</b>	% Moisture: <b>18.56</b>
Lab Sample Id: <b>445224-004</b>	Date Collected: <b>Jul-05-12 12:35</b>	Basis: <b>Dry Weight</b>
Sample Depth: <b>1 - 1 ft</b>	Date Received: <b>Jul-06-12 09:35</b>	

Analytical Method: <b>Inorganic Anions by EPA 300/300.1</b>	Prep Method: <b>E300P</b>
Seq Number: <b>892049</b>	Date Prep: <b>Jul-12-12 00:55</b>

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.4	mg/kg	07/12/12 00:55		1



**Hits Summary**      **445224**



**Southern Union Gas Services- Monahans, Monahans, TX**  
**MA-4**

Sample Id: <b>#4 Flowpath</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445224-004</b>	Date Collected: <b>Jul-05-12 12:35</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>1 - 1 ft</b>	Date Received: <b>Jul-06-12 09:35</b>	

**Analytical Method: Percent Moisture**  
Seq Number: 891872

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	18.6	%	07/10/12 15:40		1



**Hits Summary**      445224



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>#5 Flowpath</b>	Matrix: <b>Soil</b>	% Moisture: <b>18.05</b>
Lab Sample Id: <b>445224-005</b>	Date Collected: <b>Jul-05-12 12:50</b>	Basis: <b>Dry Weight</b>
Sample Depth: <b>1 - 1 ft</b>	Date Received: <b>Jul-06-12 09:35</b>	

Analytical Method: <b>Inorganic Anions by EPA 300/300.1</b>	Prep Method: <b>E300P</b>
Seq Number: <b>892049</b>	Date Prep: <b>Jul-12-12 01:11</b>

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.75	mg/kg	07/12/12 01:11		1



**Hits Summary** 445224



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>#5 Flowpath</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445224-005</b>	Date Collected: <b>Jul-05-12 12:50</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>1 - 1 ft</b>	Date Received: <b>Jul-06-12 09:35</b>	

**Analytical Method: Percent Moisture**  
Seq Number: 891872

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	18.1	%	07/10/12 15:40		1

# Certificate of Analysis Summary 445224

## Southern Union Gas Services- Monahans, Monahans, TX



**Project Id:**

**Contact:** Rose Slade

**Project Location:** Lea County, NM

**Date Received in Lab:** Fri Jul-06-12 09:35 am

**Report Date:** 18-JUL-12

**Project Manager:** Nicholas Straccione

<i>Analysis Requested</i>		<i>Lab Id:</i>	445224-001	445224-002	445224-003	445224-004	445224-005
		<i>Field Id:</i>	#1 West Wall	#2 Floor	#3 East Wall	#4 Flowpath	#5 Flowpath
		<i>Depth:</i>	3-3 ft	3-3 ft	3-3 ft	1-1 ft	1-1 ft
		<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL
		<i>Sampled:</i>	Jul-05-12 12:05	Jul-05-12 12:15	Jul-05-12 12:20	Jul-05-12 12:35	Jul-05-12 12:50
<b>BTEX by SW 8260B</b>		<i>Extracted:</i>	Jul-17-12 17:05				
<b>SUB: TX104704215</b>		<i>Analyzed:</i>	Jul-18-12 00:01	Jul-18-12 00:25	Jul-18-12 00:49	Jul-18-12 01:13	Jul-18-12 01:36
		<i>Units/RL:</i>	mg/kg RL				
Benzene			ND 0.00116	ND 0.00120	ND 0.00115	ND 0.00122	ND 0.00118
Toluene			ND 0.00116	ND 0.00120	ND 0.00115	ND 0.00122	ND 0.00118
Ethylbenzene			ND 0.00116	ND 0.00120	ND 0.00115	ND 0.00122	ND 0.00118
m,p-Xylenes			ND 0.00232	ND 0.00240	ND 0.00230	ND 0.00244	ND 0.00236
o-Xylene			ND 0.00116	ND 0.00120	ND 0.00115	ND 0.00122	ND 0.00118
Total BTEX			ND 0.00116	ND 0.00120	ND 0.00115	ND 0.00122	ND 0.00118
Total Xylenes			ND 0.00116	ND 0.00120	ND 0.00115	ND 0.00122	ND 0.00118
<b>Inorganic Anions by EPA 300/300.1</b>		<i>Extracted:</i>	Jul-12-12 00:07	Jul-12-12 00:23	Jul-12-12 00:39	Jul-12-12 00:55	Jul-12-12 01:11
<b>SUB: TX104704215</b>		<i>Analyzed:</i>	Jul-12-12 00:07	Jul-12-12 00:23	Jul-12-12 00:39	Jul-12-12 00:55	Jul-12-12 01:11
		<i>Units/RL:</i>	mg/kg RL				
Chloride			1.38 1.22	1.32 1.24	12.6 1.16	24.4 1.23	5.75 1.22
<b>Percent Moisture</b>		<i>Extracted:</i>	Jul-10-12 15:40				
<b>SUB: TX104704215</b>		<i>Analyzed:</i>	Jul-10-12 15:40				
		<i>Units/RL:</i>	% RL				
Percent Moisture			17.9 1.00	19.5 1.00	13.8 1.00	18.6 1.00	18.1 1.00
<b>TPH By SW8015 Mod</b>		<i>Extracted:</i>	Jul-13-12 10:10	Jul-13-12 10:12	Jul-13-12 10:14	Jul-13-12 10:16	Jul-13-12 10:18
<b>SUB: TX104704215</b>		<i>Analyzed:</i>	Jul-13-12 14:32	Jul-13-12 15:34	Jul-13-12 16:16	Jul-13-12 16:37	Jul-13-12 17:18
		<i>Units/RL:</i>	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons			ND 18.2	ND 18.6	ND 17.3	ND 18.4	ND 18.3
C12-C28 Diesel Range Hydrocarbons			ND 18.2	ND 18.6	ND 17.3	ND 18.4	ND 18.3
C28-C35 Oil Range Hydrocarbons			ND 18.2	ND 18.6	ND 17.3	ND 18.4	ND 18.3
Total TPH			ND 18.2	ND 18.6	ND 17.3	ND 18.4	ND 18.3

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

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Nicholas Straccione  
Project Manager

## Flagging Criteria

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

\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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6017 Financial Drive, Norcross, GA 30071  
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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445224,

Project ID:

Lab Batch #: 892167

Sample: 445224-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/13/12 14:32

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.8	106	70-135	
o-Terphenyl	64.4	49.9	129	70-135	

Lab Batch #: 892167

Sample: 445224-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/13/12 15:34

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	99.6	108	70-135	
o-Terphenyl	55.6	49.8	112	70-135	

Lab Batch #: 892167

Sample: 445224-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/13/12 16:16

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.3	99.7	88	70-135	
o-Terphenyl	53.4	49.9	107	70-135	

Lab Batch #: 892167

Sample: 445224-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/13/12 16:37

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.8	109	70-135	
o-Terphenyl	61.2	49.9	123	70-135	

Lab Batch #: 892167

Sample: 445224-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/13/12 17:18

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.9	111	70-135	
o-Terphenyl	62.0	50.0	124	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445224,

Project ID:

Lab Batch #: 892439

Sample: 445224-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/18/12 00:01

### SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0513	0.0500	103	58-152	
Dibromofluoromethane	0.0362	0.0500	72	74-126	**
1,2-Dichloroethane-D4	0.0376	0.0500	75	80-120	**
Toluene-D8	0.0556	0.0500	111	73-132	

Lab Batch #: 892439

Sample: 445224-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/18/12 00:25

### SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0518	0.0500	104	58-152	
Dibromofluoromethane	0.0425	0.0500	85	74-126	
1,2-Dichloroethane-D4	0.0439	0.0500	88	80-120	
Toluene-D8	0.0532	0.0500	106	73-132	

Lab Batch #: 892439

Sample: 445224-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/18/12 00:49

### SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0512	0.0500	102	58-152	
Dibromofluoromethane	0.0416	0.0500	83	74-126	
1,2-Dichloroethane-D4	0.0424	0.0500	85	80-120	
Toluene-D8	0.0527	0.0500	105	73-132	

Lab Batch #: 892439

Sample: 445224-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/18/12 01:13

### SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0506	0.0500	101	58-152	
Dibromofluoromethane	0.0437	0.0500	87	74-126	
1,2-Dichloroethane-D4	0.0458	0.0500	92	80-120	
Toluene-D8	0.0527	0.0500	105	73-132	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# Form 2 - Surrogate Recoveries

**Project Name: MA-4**

**Work Orders :** 445224,  
**Lab Batch #:** 892439

**Sample:** 445224-005 / SMP

**Project ID:**  
**Batch:** 1 **Matrix:** Soil

**Units:** mg/kg **Date Analyzed:** 07/18/12 01:36

SURROGATE RECOVERY STUDY					
BTEX by SW 8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0516	0.0500	103	58-152	
Dibromofluoromethane	0.0465	0.0500	93	74-126	
1,2-Dichloroethane-D4	0.0487	0.0500	97	80-120	
Toluene-D8	0.0513	0.0500	103	73-132	

**Lab Batch #:** 892167  
**Units:** mg/kg

**Sample:** 624523-1-BLK / BLK  
**Date Analyzed:** 07/13/12 10:33

**Batch:** 1 **Matrix:** Solid

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	59.1	50.0	118	70-135	

**Lab Batch #:** 892439  
**Units:** mg/kg

**Sample:** 624721-1-BLK / BLK  
**Date Analyzed:** 07/17/12 23:37

**Batch:** 1 **Matrix:** Solid

SURROGATE RECOVERY STUDY					
BTEX by SW 8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0494	0.0500	99	58-152	
Dibromofluoromethane	0.0453	0.0500	91	74-126	
1,2-Dichloroethane-D4	0.0452	0.0500	90	80-120	
Toluene-D8	0.0505	0.0500	101	73-132	

**Lab Batch #:** 892167  
**Units:** mg/kg

**Sample:** 624523-1-BKS / BKS  
**Date Analyzed:** 07/13/12 10:53

**Batch:** 1 **Matrix:** Solid

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	52.3	50.0	105	70-135	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

**Project Name: MA-4**

**Work Orders :** 445224,

**Project ID:**

**Lab Batch #:** 892439

**Sample:** 624721-1-BKS / BKS

**Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

**Date Analyzed:** 07/17/12 22:02

**SURROGATE RECOVERY STUDY**

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0490	0.0500	98	58-152	
Dibromofluoromethane	0.0421	0.0500	84	74-126	
1,2-Dichloroethane-D4	0.0449	0.0500	90	80-120	
Toluene-D8	0.0488	0.0500	98	73-132	

**Lab Batch #:** 892167

**Sample:** 624523-1-BSD / BSD

**Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

**Date Analyzed:** 07/13/12 11:14

**SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	43.9	50.0	88	70-135	

**Lab Batch #:** 892439

**Sample:** 624721-1-BSD / BSD

**Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

**Date Analyzed:** 07/17/12 22:26

**SURROGATE RECOVERY STUDY**

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0480	0.0500	96	58-152	
Dibromofluoromethane	0.0457	0.0500	91	74-126	
1,2-Dichloroethane-D4	0.0465	0.0500	93	80-120	
Toluene-D8	0.0489	0.0500	98	73-132	

**Lab Batch #:** 892167

**Sample:** 445224-001 S / MS

**Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

**Date Analyzed:** 07/13/12 14:53

**SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.9	102	70-135	
o-Terphenyl	52.9	50.0	106	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445224,

Project ID:

Lab Batch #: 892167

Sample: 445224-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/13/12 15:14

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.6	99.9	93	70-135	
o-Terphenyl	55.2	50.0	110	70-135	

Lab Batch #: 892439

Sample: 445224-001 D / MD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/18/12 02:00

### SURROGATE RECOVERY STUDY

BTEX by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0519	0.0500	104	58-152	
Dibromofluoromethane	0.0390	0.0500	78	74-126	
1,2-Dichloroethane-D4	0.0405	0.0500	81	80-120	
Toluene-D8	0.0560	0.0500	112	73-132	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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

**Project Name: MA-4**

**Work Order #: 445224**

**Analyst: BEC**

**Date Prepared: 07/17/2012**

**Project ID:**

**Date Analyzed: 07/17/2012**

**Lab Batch ID: 892439**

**Sample: 624721-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

BTEX by SW 8260B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.0842	84	0.100	0.0830	83	1	62-132	25	
Toluene	<0.00100	0.100	0.0935	94	0.100	0.0901	90	4	66-124	25	
Ethylbenzene	<0.00100	0.100	0.0984	98	0.100	0.0929	93	6	71-134	25	
m,p-Xylenes	<0.00200	0.200	0.190	95	0.200	0.180	90	5	69-128	25	
o-Xylene	<0.00100	0.100	0.0962	96	0.100	0.0921	92	4	72-131	25	

**Analyst: TTE**

**Date Prepared: 07/11/2012**

**Date Analyzed: 07/11/2012**

**Lab Batch ID: 892049**

**Sample: 624456-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<1.00	100	104	104	100	104	104	0	80-120	20	

Relative Percent Difference RPD =  $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] =  $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



# BS / BSD Recoveries



Project Name: MA-4

Work Order #: 445224

Analyst: JUJ

Date Prepared: 07/13/2012

Project ID:

Date Analyzed: 07/13/2012

Lab Batch ID: 892167

Sample: 624523-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

## BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	858	86	1000	891	89	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	909	91	1000	848	85	7	70-135	35	

Relative Percent Difference RPD =  $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] =  $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

**Form 3 - MS Recoveries**



**Project Name: MA-4**

**Work Order #:** 445224  
**Lab Batch #:** 892049  
**Date Analyzed:** 07/12/2012  
**QC- Sample ID:** 445298-002 S  
**Reporting Units:** mg/kg

**Date Prepared:** 07/12/2012  
**Batch #:** 1

**Project ID:**  
**Analyst:** TTE  
**Matrix:** Solid

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	99.2	102	186	85	80-120	

**Lab Batch #:** 892049  
**Date Analyzed:** 07/11/2012  
**QC- Sample ID:** 445299-001 S  
**Reporting Units:** mg/kg

**Date Prepared:** 07/11/2012  
**Batch #:** 1

**Analyst:** TTE  
**Matrix:** Solid

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	82.8	106	178	90	80-120	

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

BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries



Project Name: MA-4

Work Order #: 445224

Project ID:

Lab Batch ID: 892167

QC- Sample ID: 445224-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/13/2012

Date Prepared: 07/13/2012

Analyst: JUJ

Reporting Units: mg/kg

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<18.2	1220	1080	89	1220	1090	89	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<18.2	1220	1130	93	1220	1010	83	11	70-135	35	

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

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

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

# Sample Duplicate Recovery

**Project Name: MA-4**

**Work Order #: 445224**

**Lab Batch #: 892439**  
**Date Analyzed: 07/18/2012 02:00**  
**QC- Sample ID: 445224-001 D**  
**Reporting Units: mg/kg**

**Date Prepared: 07/17/2012**  
**Batch #: 1**

**Project ID:**  
**Analyst: BEC**  
**Matrix: Soil**

SAMPLE / SAMPLE DUPLICATE RECOVERY					
BTEX by SW 8260B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Benzene	<0.00118	<0.00118	0	25	U
Toluene	<0.00118	<0.00118	0	25	U
Ethylbenzene	<0.00118	<0.00118	0	25	U
m,p-Xylenes	<0.00236	<0.00236	0	25	U
o-Xylene	<0.00118	<0.00118	0	25	U

**Lab Batch #: 891872**  
**Date Analyzed: 07/10/2012 15:40**  
**QC- Sample ID: 445224-001 D**  
**Reporting Units: %**

**Date Prepared: 07/10/2012**  
**Batch #: 1**

**Analyst: RKO**  
**Matrix: Soil**

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	17.9	18.1	1	20	

**Lab Batch #: 891872**  
**Date Analyzed: 07/10/2012 15:40**  
**QC- Sample ID: 445299-002 D**  
**Reporting Units: %**

**Date Prepared: 07/10/2012**  
**Batch #: 1**

**Analyst: RKO**  
**Matrix: Solid**

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	15.9	15.6	2	20	

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



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 07/06/2012 09:35:00 AM

Temperature Measuring device used :

Work Order #: 445224

Table with 3 columns: Sample Receipt Checklist, Comments, and an unlabeled column. Rows include items like '#1 \*Temperature of cooler(s)?' with values '2.5', '#2 \*Shipping container in good condition?' with 'Yes', etc.

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst: PH Device/Lot#: (input fields)

Checklist completed by: Date: 07/06/2012
Checklist reviewed by: Date: 07/06/2012



**Analytical Report 445376**  
**for**  
**Southern Union Gas Services- Monahans**

**Project Manager: Rose Slade**

**MA-4**

**12-JUL-12**

Collected By: Client



**Celebrating 20 Years of commitment to excellence in Environmental Testing Services**



**12600 West I-20 East Odessa, Texas 79765**

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)  
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)  
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)  
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



12-JUL-12

Project Manager: **Rose Slade**  
**Southern Union Gas Services- Monahans**  
801 South Loop 464  
Monahans, TX 79756

Reference: XENCO Report No: **445376**  
**MA-4**  
Project Address: Lea County, NM

**Rose Slade:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 445376. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 445376 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

---

**Nicholas Straccione**  
Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.  
Certified and approved by numerous States and Agencies.  
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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

## Sample Cross Reference 445376



Southern Union Gas Services- Monahans, Monahans, TX

MA-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
# 6 Flow Path	S	07-06-12 11:45	- 1 ft	445376-001
# 7 Flow Path	S	07-06-12 12:05	- 1 ft	445376-002
South Wall	S	07-09-12 11:20	- 5 ft	445376-003
East Wall R.P.	S	07-09-12 11:20	- 6 ft	445376-004
West Wall R.P.	S	07-10-12 09:25	- 5 ft	445376-005
West Floor R.P.	S	07-10-12 10:10	- 5 ft	445376-006
East Floor R.P.	S	07-10-12 09:50	- 5 ft	445376-007



## CASE NARRATIVE

*Client Name: Southern Union Gas Services- Monahans*

*Project Name: MA-4*



*Project ID:*  
*Work Order Number: 445376*

*Report Date: 12-JUL-12*  
*Date Received: 07/10/2012*

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non nonformances and comments:**

Batch: LBA-892003 TPH By SW8015 Mod  
SW8015MOD\_NM

Batch 892003, C6-C12 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 445376-004, -007, -002, -001, -003, -005, -006.

The Laboratory Control Sample for C6-C12 Gasoline Range Hydrocarbons is within laboratory Control Limits

Batch: LBA-892008 BTEX by EPA 8021B  
SW8021BM

Batch 892008, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 445376-001,445376-002,445376-003,445376-007,445376-005,445376-006,445376-004.



**Hits Summary** **445376**



**Southern Union Gas Services- Monahans, Monahans, TX**  
**MA-4**

Sample Id: # 6 Flow Path	Matrix: Soil	% Moisture: .89
Lab Sample Id: 445376-001	Date Collected: Jul-06-12 11:45	Basis: Dry Weight
Sample Depth: 1 ft	Date Received: Jul-10-12 16:40	

Analytical Method: Inorganic Anions by EPA 300/300.1	Prep Method: E300P
Seq Number: 891966	Date Prep: Jul-11-12 11:26

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2.86	mg/kg	07/11/12 11:26		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: # 7 Flow Path	Matrix: Soil	% Moisture: 3.39
Lab Sample Id: 445376-002	Date Collected: Jul-06-12 12:05	Basis: Dry Weight
Sample Depth: 1 ft	Date Received: Jul-10-12 16:40	

Analytical Method: Inorganic Anions by EPA 300/300.1	Prep Method: E300P
Seq Number: 891966	Date Prep: Jul-11-12 11:59

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.20	mg/kg	07/11/12 11:59		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: # 7 Flow Path	Matrix: Soil	% Moisture:
Lab Sample Id: 445376-002	Date Collected: Jul-06-12 12:05	Basis: Wet Weight
Sample Depth: 1 ft	Date Received: Jul-10-12 16:40	

**Analytical Method: Percent Moisture**  
Seq Number: 891976

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	3.39	%	07/11/12 10:10		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>South Wall</b>	Matrix: <b>Soil</b>	% Moisture: <b>4.64</b>
Lab Sample Id: <b>445376-003</b>	Date Collected: <b>Jul-09-12 11:20</b>	Basis: <b>Dry Weight</b>
Sample Depth: <b>5 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

Analytical Method: <b>Inorganic Anions by EPA 300/300.1</b>	Prep Method: <b>E300P</b>
Seq Number: <b>891966</b>	Date Prep: <b>Jul-11-12 12:15</b>

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1.63	mg/kg	07/11/12 12:15		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>South Wall</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445376-003</b>	Date Collected: <b>Jul-09-12 11:20</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>5 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

**Analytical Method: Percent Moisture**  
Seq Number: 891976

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	4.64	%	07/11/12 10:10		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>East Wall R.P.</b>	Matrix: <b>Soil</b>	% Moisture: <b>3.84</b>
Lab Sample Id: <b>445376-004</b>	Date Collected: <b>Jul-09-12 11:20</b>	Basis: <b>Dry Weight</b>
Sample Depth: <b>6 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

<b>Analytical Method: Inorganic Anions by EPA 300/300.1</b>	Prep Method: <b>E300P</b>
Seq Number: <b>891966</b>	Date Prep: <b>Jul-11-12 12:31</b>

<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Units</b>	<b>Analysis Date</b>	<b>Flag</b>	<b>Dil</b>
Chloride	16887-00-6	6.65	mg/kg	07/11/12 12:31		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>East Wall R.P.</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445376-004</b>	Date Collected: <b>Jul-09-12 11:20</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>6 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

**Analytical Method: Percent Moisture**  
Seq Number: 891976

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	3.84	%	07/11/12 10:10		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>West Wall R.P.</b>	Matrix: <b>Soil</b>	% Moisture: <b>5.73</b>
Lab Sample Id: <b>445376-005</b>	Date Collected: <b>Jul-10-12 09:25</b>	Basis: <b>Dry Weight</b>
Sample Depth: <b>5 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

Analytical Method: <b>Inorganic Anions by EPA 300/300.1</b>	Prep Method: <b>E300P</b>
Seq Number: <b>891966</b>	Date Prep: <b>Jul-11-12 12:47</b>

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	85.2	mg/kg	07/11/12 12:47		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>West Wall R.P.</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445376-005</b>	Date Collected: <b>Jul-10-12 09:25</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>5 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

**Analytical Method: Percent Moisture**  
Seq Number: 891976

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.73	%	07/11/12 10:10		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>West Floor R.P.</b>	Matrix: <b>Soil</b>	% Moisture: <b>10.4</b>
Lab Sample Id: <b>445376-006</b>	Date Collected: <b>Jul-10-12 10:10</b>	Basis: <b>Dry Weight</b>
Sample Depth: <b>5 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

Analytical Method: <b>Inorganic Anions by EPA 300/300.1</b>	Prep Method: <b>E300P</b>
Seq Number: <b>891966</b>	Date Prep: <b>Jul-11-12 13:03</b>

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	263	mg/kg	07/11/12 13:03		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>West Floor R.P.</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445376-006</b>	Date Collected: <b>Jul-10-12 10:10</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>5 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

**Analytical Method: Percent Moisture**  
Seq Number: 891976

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	10.4	%	07/11/12 10:10		1



**Hits Summary** 445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>East Floor R.P.</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445376-007</b>	Date Collected: <b>Jul-10-12 09:50</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>5 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

**Analytical Method: Percent Moisture**  
Seq Number: 891976

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	9.31	%	07/11/12 10:10		1



**Hits Summary**      445376



**Southern Union Gas Services- Monahans, Monahans, TX**  
MA-4

Sample Id: <b>East Floor R.P.</b>	Matrix: <b>Soil</b>	% Moisture:
Lab Sample Id: <b>445376-007</b>	Date Collected: <b>Jul-10-12 09:50</b>	Basis: <b>Wet Weight</b>
Sample Depth: <b>5 ft</b>	Date Received: <b>Jul-10-12 16:40</b>	

<b>Analytical Method: Inorganic Anions by EPA 300/300.1</b>	Prep Method: <b>E300P</b>
Seq Number: <b>891966</b>	Date Prep: <b>Jul-11-12 13:51</b>

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	67.1	mg/kg	07/11/12 13:51		1



# Certificate of Analysis Summary 445376

## Southern Union Gas Services- Monahans, Monahans, TX



Project Name: MA-4

Project Id:

Contact: Rose Slade

Project Location: Lea County, NM

Date Received in Lab: Tue Jul-10-12 04:40 pm

Report Date: 12-JUL-12

Project Manager: Nicholas Straccione

Lab Id:	445376-001	445376-002	445376-003	445376-004	445376-005	445376-006
<b>Field Id:</b>	# 6 Flow Path	# 7 Flow Path	South Wall	East Wall R.P.	West Wall R.P.	West Floor R.P.
<b>Depth:</b>	1 ft	1 ft	5 ft	6 ft	5 ft	5 ft
<b>Matrix:</b>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
<b>Sampled:</b>	Jul-06-12 11:45	Jul-06-12 12:05	Jul-09-12 11:20	Jul-09-12 11:20	Jul-10-12 09:25	Jul-10-12 10:10
<b>Extracted:</b>	Jul-11-12 08:45					
<b>Analyzed:</b>	Jul-11-12 13:44	Jul-11-12 14:06	Jul-11-12 14:29	Jul-11-12 14:52	Jul-11-12 15:57	Jul-11-12 16:20
<b>Units/RL:</b>	mg/kg RL					
Benzene	ND 0.00100	ND 0.00104	ND 0.00105	ND 0.00104	ND 0.00105	ND 0.00112
Toluene	ND 0.00201	ND 0.00207	ND 0.00209	ND 0.00208	ND 0.00211	ND 0.00224
Ethylbenzene	ND 0.00100	ND 0.00104	ND 0.00105	ND 0.00104	ND 0.00105	ND 0.00112
m,p-Xylenes	ND 0.00201	ND 0.00207	ND 0.00209	ND 0.00208	ND 0.00211	ND 0.00224
o-Xylene	ND 0.00100	ND 0.00104	ND 0.00105	ND 0.00104	ND 0.00105	ND 0.00112
Total Xylenes	ND 0.00100	ND 0.00104	ND 0.00105	ND 0.00104	ND 0.00105	ND 0.00112
Total BTEX	ND 0.00100	ND 0.00104	ND 0.00105	ND 0.00104	ND 0.00105	ND 0.00112
<b>Inorganic Anions by EPA 300/300.1</b>						
<b>SUB: TX104704215</b>						
Chloride	2.86 1.01	5.20 1.04	1.63 1.05	6.65 1.04	85.2 1.06	263 1.12
<b>Percent Moisture</b>						
<b>Extracted:</b>	Jul-11-12 10:10					
<b>Analyzed:</b>	%	%	%	%	%	%
<b>Units/RL:</b>	RL 1.00					
Percent Moisture	ND	3.39	4.64	3.84	5.73	10.4
<b>TPH By SW8015 Mod</b>						
<b>Extracted:</b>	Jul-11-12 09:40					
<b>Analyzed:</b>	Jul-11-12 12:42	Jul-11-12 13:11	Jul-11-12 13:41	Jul-11-12 14:11	Jul-11-12 14:40	Jul-11-12 15:09
<b>Units/RL:</b>	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons	ND 15.1	ND 15.5	ND 15.7	ND 15.5	ND 15.9	ND 16.7
C12-C28 Diesel Range Hydrocarbons	ND 15.1	ND 15.5	ND 15.7	ND 15.5	ND 15.9	ND 16.7
C28-C35 Oil Range Hydrocarbons	ND 15.1	ND 15.5	ND 15.7	ND 15.5	ND 15.9	ND 16.7
Total TPH	ND 15.1	ND 15.5	ND 15.7	ND 15.5	ND 15.9	ND 16.7

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

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Nicholas Straccione  
Project Manager



# Certificate of Analysis Summary 445376

## Southern Union Gas Services- Monahans, Monahans, TX



**Project Name: MA-4**

**Project Id:**

**Contact:** Rose Slade

**Project Location:** Lea County, NM

**Date Received in Lab:** Tue Jul-10-12 04:40 pm

**Report Date:** 12-JUL-12

**Project Manager:** Nicholas Straccione

<b>Analysis Requested</b>	<b>Lab Id:</b> 445376-007			
	<b>Field Id:</b> East Floor R.P.			
	<b>Depth:</b> 5 ft			
	<b>Matrix:</b> SOIL			
	<b>Sampled:</b> Jul-10-12 09:50			
<b>BTEX by EPA 8021B</b>	<b>Extracted:</b> Jul-11-12 08:45			
	<b>Analyzed:</b> Jul-11-12 16:43			
	<b>Units/RL:</b> mg/kg RL			
Benzene	ND 0.00111			
Toluene	ND 0.00221			
Ethylbenzene	ND 0.00111			
m_p-Xylenes	ND 0.00221			
o-Xylene	ND 0.00111			
Total Xylenes	ND 0.00111			
Total BTEX	ND 0.00111			
<b>Inorganic Anions by EPA 300/300.1 SUB: TX104704215</b>	<b>Extracted:</b> Jul-11-12 13:51			
	<b>Analyzed:</b> Jul-11-12 13:51			
	<b>Units/RL:</b> mg/kg RL			
Chloride	67.1 1.00			
<b>Percent Moisture</b>	<b>Extracted:</b> Jul-11-12 10:10			
	<b>Analyzed:</b> %			
	<b>Units/RL:</b> RL			
Percent Moisture	9.31 1.00			
<b>TPH By SW8015 Mod</b>	<b>Extracted:</b> Jul-11-12 09:40			
	<b>Analyzed:</b> Jul-11-12 15:38			
	<b>Units/RL:</b> mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons	ND 16.5			
C12-C28 Diesel Range Hydrocarbons	ND 16.5			
C28-C35 Oil Range Hydrocarbons	ND 16.5			
Total TPH	ND 16.5			

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

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Nicholas Straccione  
Project Manager

## Flagging Criteria

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

\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(210) 509-3334	(210) 509-3335
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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445376,  
Lab Batch #: 892003

Sample: 445376-001 / SMP

Project ID:  
Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	83.2	100	83	70-135	
o-Terphenyl	45.3	50.1	90	70-135	

Lab Batch #: 892003  
Sample: 445376-002 / SMP

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	84.5	99.9	85	70-135	
o-Terphenyl	44.7	50.0	89	70-135	

Lab Batch #: 892003  
Sample: 445376-003 / SMP

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	84.9	99.9	85	70-135	
o-Terphenyl	46.6	50.0	93	70-135	

Lab Batch #: 892008  
Sample: 445376-001 / SMP

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0237	0.0300	79	80-120	*

Lab Batch #: 892008  
Sample: 445376-002 / SMP

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0231	0.0300	77	80-120	*

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445376,

Project ID:

Lab Batch #: 892003

Sample: 445376-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 14:11

**SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.8	99.5	85	70-135	
o-Terphenyl	45.9	49.8	92	70-135	

Lab Batch #: 892008

Sample: 445376-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 14:29

**SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0226	0.0300	75	80-120	*

Lab Batch #: 892003

Sample: 445376-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 14:40

**SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.9	99.7	88	70-135	
o-Terphenyl	48.1	49.9	96	70-135	

Lab Batch #: 892008

Sample: 445376-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 14:52

**SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0223	0.0300	74	80-120	*

Lab Batch #: 892003

Sample: 445376-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 15:09

**SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.3	99.8	85	70-135	
o-Terphenyl	46.8	49.9	94	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445376,

Project ID:

Lab Batch #: 892003

Sample: 445376-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 15:38

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.4	100	86	70-135	
o-Terphenyl	47.4	50.0	95	70-135	

Lab Batch #: 892008

Sample: 445376-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 15:57

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0224	0.0300	75	80-120	*

Lab Batch #: 892008

Sample: 445376-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 16:20

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0210	0.0300	70	80-120	*

Lab Batch #: 892008

Sample: 445376-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 16:43

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0206	0.0300	69	80-120	*

Lab Batch #: 892003

Sample: 624425-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/11/12 12:12

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.5	100	84	70-135	
o-Terphenyl	45.9	50.0	92	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445376,

Project ID:

Lab Batch #: 892008

Sample: 624433-1-BLK / BLK

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 07/11/12 12:13	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
<b>BTEX by EPA 8021B</b>						
<b>Analytes</b>						
1,4-Difluorobenzene		0.0281	0.0300	94	80-120	
4-Bromofluorobenzene		0.0241	0.0300	80	80-120	

Lab Batch #: 892008

Sample: 624433-1-BKS / BKS

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 07/11/12 10:42	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
<b>BTEX by EPA 8021B</b>						
<b>Analytes</b>						
1,4-Difluorobenzene		0.0300	0.0300	100	80-120	
4-Bromofluorobenzene		0.0275	0.0300	92	80-120	

Lab Batch #: 892003

Sample: 624425-1-BKS / BKS

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 07/11/12 11:14	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
<b>TPH By SW8015 Mod</b>						
<b>Analytes</b>						
1-Chlorooctane		98.4	100	98	70-135	
o-Terphenyl		49.4	50.0	99	70-135	

Lab Batch #: 892008

Sample: 624433-1-BSD / BSD

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 07/11/12 11:05	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
<b>BTEX by EPA 8021B</b>						
<b>Analytes</b>						
1,4-Difluorobenzene		0.0308	0.0300	103	80-120	
4-Bromofluorobenzene		0.0272	0.0300	91	80-120	

Lab Batch #: 892003

Sample: 624425-1-BSD / BSD

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 07/11/12 11:42	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
<b>TPH By SW8015 Mod</b>						
<b>Analytes</b>						
1-Chlorooctane		97.2	99.7	97	70-135	
o-Terphenyl		49.5	49.9	99	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445376,

Project ID:

Lab Batch #: 892003

Sample: 445376-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 16:12

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.0	100	90	70-135	
o-Terphenyl	44.4	50.0	89	70-135	

Lab Batch #: 892003

Sample: 445376-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/11/12 16:41

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.0	100	96	70-135	
o-Terphenyl	52.2	50.0	104	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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

**Project Name: MA-4**

**Work Order #: 445376**

**Analyst: ASA**

**Date Prepared: 07/11/2012**

**Project ID:**

**Date Analyzed: 07/11/2012**

**Lab Batch ID: 892008**

**Sample: 624433-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>BTEX by EPA 8021B</b>	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<b>Analytes</b>											
Benzene	<0.00100	0.100	0.0847	85	0.100	0.0814	81	4	70-130	35	
Toluene	<0.00200	0.100	0.0858	86	0.100	0.0824	82	4	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0874	87	0.100	0.0839	84	4	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.179	90	0.200	0.171	86	5	70-135	35	
o-Xylene	<0.00100	0.100	0.0875	88	0.100	0.0846	85	3	71-133	35	

**Analyst: TTE**

**Date Prepared: 07/11/2012**

**Date Analyzed: 07/11/2012**

**Lab Batch ID: 891966**

**Sample: 624414-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>Inorganic Anions by EPA 300/300.1</b>	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<b>Analytes</b>											
Chloride	<1.00	100	105	105	100	104	104	1	80-120	20	

Relative Percent Difference RPD =  $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] =  $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



# BS / BSD Recoveries



**Project Name: MA-4**

**Work Order #: 445376**

**Analyst: ASA**

**Date Prepared: 07/11/2012**

**Project ID:**

**Date Analyzed: 07/11/2012**

**Lab Batch ID: 892003**

**Sample: 624425-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

## BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<b>Analytes</b>											
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	701	70	997	701	70	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	860	86	997	848	85	1	70-135	35	

Relative Percent Difference RPD =  $200 * |(C-F) / (C+F)|$

Blank Spike Recovery [D] =  $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



# Form 3 - MS Recoveries



Project Name: MA-4

Work Order #: 445376

Lab Batch #: 891966

Date Analyzed: 07/11/2012

QC- Sample ID: 445376-001 S

Reporting Units: mg/kg

Date Prepared: 07/11/2012

Batch #: 1

Project ID:

Analyst: TTE

Matrix: Soil

## MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
	Chloride	2.86	101	107	103	80-120

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B

Relative Percent Difference [E] = 200\*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries



Project Name: MA-4

Work Order #: 445376

Project ID:

Lab Batch ID: 892003

QC- Sample ID: 445376-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/11/2012

Date Prepared: 07/11/2012

Analyst: ASA

Reporting Units: mg/kg

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	C6-C12 Gasoline Range Hydrocarbons	<15.1	1010	646	64	1010	680	67	5	70-135	35
C12-C28 Diesel Range Hydrocarbons	<15.1	1010	799	79	1010	845	84	6	70-135	35	

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

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

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

# Sample Duplicate Recovery

**Project Name: MA-4**

**Work Order #: 445376**

**Lab Batch #: 891976**

**Project ID:**

**Date Analyzed: 07/11/2012 10:10**

**Date Prepared: 07/11/2012**

**Analyst: WRU**

**QC- Sample ID: 445376-001 D**

**Batch #: 1**

**Matrix: Soil**

**Reporting Units: %**

**SAMPLE / SAMPLE DUPLICATE RECOVERY**

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	<1.00	<1.00	0	20	U

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



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 07/10/2012 04:40:00 PM

Temperature Measuring device used :

Work Order #: 445376

Table with 3 columns: Sample Receipt Checklist, Comments. Contains 22 numbered items for checklist completion.

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst: PH Device/Lot#: (input fields)

Checklist completed by:

Date: 07/10/2012

Checklist reviewed by:

Date: 07/10/2012



**Analytical Report 445802**  
**for**  
**Southern Union Gas Services- Monahans**

**Project Manager: Ben Arguijjo**

**MA-4**

**19-JUL-12**

Collected By: Curt Stanley



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Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)  
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)  
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)  
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



19-JUL-12

Project Manager: **Ben Arguijjo**  
**Southern Union Gas Services- Monahans**  
801 South Loop 464  
Monahans, TX 79756

Reference: XENCO Report No: **445802**  
**MA-4**  
Project Address: Lee County, NM

**Ben Arguijjo:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 445802. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 445802 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

---

**Nicholas Straccione**

Project Manager

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**Sample Cross Reference 445802**



**Southern Union Gas Services- Monahans, Monahans, TX  
MA-4**

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
North Wall	S	07-16-12 14:30	5 ft	445802-001



## CASE NARRATIVE

*Client Name: Southern Union Gas Services- Monahans*  
*Project Name: MA-4*



*Project ID:*  
*Work Order Number: 445802*

*Report Date: 19-JUL-12*  
*Date Received: 07/18/2012*

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-892442 TPH By SW8015 Mod  
SW8015MOD\_NM

Batch 892442, C6-C12 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike. C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 445802-001.

The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons, C6-C12 Gasoline Range Hydrocarbons is within laboratory Control Limits

# Certificate of Analysis Summary 445802

## Southern Union Gas Services- Monahans, Monahans, TX



**Project Id:**

**Project Name: MA-4**

**Date Received in Lab:** Wed Jul-18-12 08:15 am

**Contact:** Ben Arguijjo

**Report Date:** 19-JUL-12

**Project Location:** Lee County, NM

**Project Manager:** Nicholas Straccione

<b><i>Analysis Requested</i></b>	<b>Lab Id:</b>	445802-001			
	<b>Field Id:</b>	North Wall			
	<b>Depth:</b>	5- ft			
	<b>Matrix:</b>	SOIL			
	<b>Sampled:</b>	Jul-16-12 14:30			
<b>BTEX by EPA 8021B</b>	<b>Extracted:</b>	Jul-19-12 11:30			
	<b>Analyzed:</b>	Jul-19-12 12:47			
	<b>Units/RL:</b>	mg/kg RL			
Benzene		ND	0.00107		
Toluene		ND	0.00214		
Ethylbenzene		ND	0.00107		
m,p-Xylenes		ND	0.00214		
o-Xylene		ND	0.00107		
Total Xylenes		ND	0.00107		
Total BTEX		ND	0.00107		
<b>Inorganic Anions by EPA 300/300.1 SUB: E871002</b>	<b>Extracted:</b>	Jul-19-12 11:19			
	<b>Analyzed:</b>	Jul-19-12 11:19			
	<b>Units/RL:</b>	mg/kg RL			
Chloride		120	10.7		
<b>Percent Moisture</b>	<b>Extracted:</b>				
	<b>Analyzed:</b>	Jul-18-12 09:25			
	<b>Units/RL:</b>	% RL			
Percent Moisture		6.67	1.00		
<b>TPH By SW8015 Mod</b>	<b>Extracted:</b>	Jul-18-12 09:00			
	<b>Analyzed:</b>	Jul-18-12 09:19			
	<b>Units/RL:</b>	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		ND	16.1		
C12-C28 Diesel Range Hydrocarbons		39.1	16.1		
C28-C35 Oil Range Hydrocarbons		ND	16.1		
Total TPH		39.1	16.1		

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

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Nicholas Straccione  
Project Manager

## Flagging Criteria

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

\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445802,

Project ID:

Lab Batch #: 892442

Sample: 445802-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/18/12 09:19

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.0	100	86	70-135	
o-Terphenyl	46.6	50.1	93	70-135	

Lab Batch #: 892595

Sample: 445802-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/19/12 12:47

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 892442

Sample: 624715-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/17/12 21:44

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.7	100	100	70-135	
o-Terphenyl	55.0	50.1	110	70-135	

Lab Batch #: 892595

Sample: 624796-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/19/12 14:42

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 892442

Sample: 624715-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/17/12 20:22

## SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	99.8	110	70-135	
o-Terphenyl	55.3	49.9	111	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# Form 2 - Surrogate Recoveries

Project Name: MA-4

Work Orders : 445802,

Project ID:

Lab Batch #: 892595

Sample: 624796-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/19/12 13:10

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 892442

Sample: 624715-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/17/12 20:48

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.0	99.9	90	70-135	
o-Terphenyl	51.4	50.0	103	70-135	

Lab Batch #: 892595

Sample: 624796-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/19/12 13:33

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 892442

Sample: 445734-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/18/12 00:13

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.1	100	94	70-135	
o-Terphenyl	49.3	50.0	99	70-135	

Lab Batch #: 892442

Sample: 445734-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/18/12 00:38

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.8	100	98	70-135	
o-Terphenyl	55.9	50.0	112	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

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



# BS / BSD Recoveries



Project Name: MA-4

Work Order #: 445802

Analyst: ASA

Date Prepared: 07/19/2012

Project ID:

Date Analyzed: 07/19/2012

Lab Batch ID: 892595

Sample: 624796-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

## BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<b>Analytes</b>											
Benzene	<0.00100	0.100	0.110	110	0.100	0.108	108	2	70-130	35	
Toluene	<0.00200	0.100	0.111	111	0.100	0.108	108	3	70-130	35	
Ethylbenzene	<0.00100	0.100	0.111	111	0.100	0.109	109	2	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.231	116	0.200	0.227	114	2	70-135	35	
o-Xylene	<0.00100	0.100	0.111	111	0.100	0.109	109	2	71-133	35	

Analyst: TTE

Date Prepared: 07/19/2012

Date Analyzed: 07/19/2012

Lab Batch ID: 892601

Sample: 624800-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

## BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<b>Analytes</b>											
Chloride	<1.00	100	102	102	100	101	101	1	80-120	20	

Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Blank Spike Recovery [D] = 100\*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]

All results are based on MDL and Validated for QC Purposes



# BS / BSD Recoveries



**Project Name: MA-4**

**Work Order #: 445802**

**Analyst: KEB**

**Lab Batch ID: 892442**

**Sample: 624715-1-BKS**

**Batch #: 1**

**Project ID:**

**Date Analyzed: 07/17/2012**

**Matrix: Solid**

**Units: mg/kg**

## BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<b>Analytes</b>											
C6-C12 Gasoline Range Hydrocarbons	<15.0	998	764	77	999	810	81	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	998	932	93	999	960	96	3	70-135	35	

Relative Percent Difference RPD =  $200 * (C - F) / (C + F)$

Blank Spike Recovery [D] =  $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



# Form 3 - MS Recoveries



Project Name: MA-4

Work Order #: 445802

Lab Batch #: 892601

Date Analyzed: 07/19/2012

Date Prepared: 07/19/2012

Project ID:

Analyst: TTE

QC- Sample ID: 445802-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

## MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
	Chloride	120	1070	1250	106	80-120

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

BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries



Project Name: MA-4

Work Order # : 445802

Project ID:

Lab Batch ID: 892442

QC- Sample ID: 445734-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/18/2012

Date Prepared: 07/17/2012

Analyst: KEB

Reporting Units: mg/kg

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	C6-C12 Gasoline Range Hydrocarbons	<75.7	1010	696	69	1010	718	71	3	70-135	35
C12-C28 Diesel Range Hydrocarbons	7250	1010	6270	0	1010	5960	0	5	70-135	35	X

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

Matrix Spike Duplicate Percent Recovery  $[G] = 100*(F-A)/E$

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

# Sample Duplicate Recovery

**Project Name: MA-4**

**Work Order #: 445802**

**Lab Batch #: 892474**

**Project ID:**

**Date Analyzed: 07/18/2012 09:25**

**Date Prepared: 07/18/2012**

**Analyst: ASA**

**QC- Sample ID: 445802-001 D**

**Batch #: 1**

**Matrix: Soil**

**Reporting Units: %**

**SAMPLE / SAMPLE DUPLICATE RECOVERY**

Percent Moisture  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.67	6.78	2	20	

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





Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- Monahan

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 07/18/2012 08:15:24 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 445802

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles/ container?	N/A
#6 *Custody Seals Signed and dated for Containers/coolers	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:

Date: 07/18/2012

Checklist reviewed by:

Date: 07/18/2012

**APPENDIX D**  
**Disposal Manifest**



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211757

LEASE OPERATOR/SHIPPER/COMPANY: SUN

LEASE NAME: NA 4

TRANSPORTER COMPANY: HERNANDEZ TRK

TIME 1:29 AM/PM

DATE: 7/17/2012 VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SUN

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CL

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211792

LEASE OPERATOR/SHIPPER/COMPANY: SLUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Hernandez

TIME 10:49 AM/PM

DATE: 7/17/2012 VEHICLE NO: 01

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SLUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CID

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

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DRIVER: Hernandez

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211823

LEASE OPERATOR/SHIPPER/COMPANY: SUN

LEASE NAME: MAY

TRANSPORTER COMPANY: H...

TIME 12:02 AM/PM

DATE: 4/17/2012 VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: ...

CHARGE TO: SUN

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |  |                                   |
|---|--|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids   | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:     | <input type="checkbox"/> Call Out |

Description: ...

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211849

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: HERNANDEZ TRK

TIME 12 AM/PM

DATE: 7/17/12

VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: Trinity

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: 2/10

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs.

YARD

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211875

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Proton Energy

TIME 2:34 AM/PM

DATE: 7/17/2012 VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: 3118

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: 410

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211850

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAY

TRANSPORTER COMPANY: Burns & McDonnell

TIME 1:25 AM/PM

DATE: 4/17/12 VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CU

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211822

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Posita Eunice

TIME: 12:01 AM/PM

DATE: 7/17/02 VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CID

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211790

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAH

TRANSPORTER COMPANY: Baron

TIME 10:42 AM/PM

DATE: 7/17/2012

VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content                 | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211756

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Basin Eunice

TIME 9:26 AM/PM

DATE: 7/17/2012 VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CID

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210408

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Burns & Murrell TIME 2:57 AM/PM

DATE: 7/5/2012 VEHICLE NO: 16 GENERATOR COMPANY MAN'S NAME: Carl Strub

CHARGE TO: UG RIG NAME AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: C/O

RRC or API # C-133#

VOLUME OF MATERIAL [ ] BBLs. : X YARD 12 : [ ]

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210386

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Brown Energy

TIME 1:38 AM/PM

DATE: 7/9/2012

VEHICLE NO: 16

GENERATOR COMPANY  
MAN'S NAME: Charles Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs.

:

YARD

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210406

LEASE OPERATOR/SHIPPER/COMPANY: SLIG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Basin Energy

TIME 2:47 AM/PM

DATE: 7/5/2012 VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME:  Curtis Stanley

CHARGE TO: SLIG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: o/o

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210383

LEASE OPERATOR/SHIPPER/COMPANY: SUN

LEASE NAME: MA 4

TRANSPORTER COMPANY: PRIME ENERGY

TIME 1:23 AM/PM

DATE: 7/1/12

VEHICLE NO: 4

GENERATOR COMPANY  
MAN'S NAME: Mike Stanley

CHARGE TO: SUN

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: 4/D

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 15 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210372

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: Basco EUNICE

TIME 12:14 AM/PM

DATE: 7-5-2012 VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: Mark Stankley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs

:

YARD

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210357

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4 ~~3~~

TRANSPORTER COMPANY: Eastern Energy TIME 10:35 AM/PM

DATE: 7-5-2012 VEHICLE NO: 9 GENERATOR COMPANY MAN'S NAME: Clinton Stanley

CHARGE TO: SUG RIG NAME AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API # C-133#

VOLUME OF MATERIAL [ ] BBLs. : X YARD 12 : [ ]

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210371

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4 Jimmy

TRANSPORTER COMPANY: Basin Electric

TIME 11:58 AM/PM

DATE: 7.5.2012

VEHICLE NO: 14

GENERATOR COMPANY  
MAN'S NAME: Curtis Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs

YARD

12

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210358

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Basin Eunice

TIME 10:37 AM/PM

DATE: 7/5/12 VEHICLE NO: 14

GENERATOR COMPANY  
MAN'S NAME: Walter Stank

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CID

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs

YARD

12

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210521

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAY

TRANSPORTER COMPANY: East

TIME 2:21 AM/PM

DATE: 7/4/2012 VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME:

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |  |                                   |
|---|--|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids   | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:     | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210504

LEASE OPERATOR/SHIPPER/COMPANY: 3UG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Barry E. ...

TIME 1:04 AM/PM

DATE: 7/15/12

VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: ...

CHARGE TO: 3UG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: 40

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs.

:

YARD

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210492

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Basin Energy

TIME 11:30 AM/PM

DATE: 7/6/2012

VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: Curt Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs.

:

YARD

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter





# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210520

LEASE OPERATOR/SHIPPER/COMPANY: SLUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Hernandez Truck

TIME 2:30 AM/PM

DATE: 7/4/2012 VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: Curt Stanley

CHARGE TO: SLUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CIL

RRC or API #

C-133#

VOLUME OF MATERIAL [ ] BBLs. \_\_\_\_\_ : [X] YARD 12 : [ ] \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210503

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAY

TRANSPORTER COMPANY: Hernandez Tex

TIME 1:00 AM/PM

DATE: 7/4/2012 VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: Chris Farley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210467

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAY

TRANSPORTER COMPANY: Hernandez

TIME 11:30 AM/PM

DATE: 7/16/2012

VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: Curt Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :

YARD 12 :

\_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210471

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Herrera Trucking

TIME 10:00 AM/PM

DATE: 7/16/2012

VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: Curt Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input checked="" type="checkbox"/> BS&W Content:     | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210493

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAU

TRANSPORTER COMPANY: Transp Services

TIME 11:36 AM/PM

DATE: 7/16/2012

VEHICLE NO: 8

GENERATOR COMPANY  
MAN'S NAME: Carl Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CID

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210500

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA4

TRANSPORTER COMPANY: Basin Energy

TIME 12:55 AM/PM

DATE: 7/16/2012

VEHICLE NO: 8

GENERATOR COMPANY  
MAN'S NAME: Curt Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210475

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Proser...

TIME 10:07 AM/PM

DATE: 7/6/12 VEHICLE NO: 8

GENERATOR COMPANY  
MAN'S NAME: Scott Steady

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CD

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210774

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: 11H-4

TRANSPORTER COMPANY: Brown Enviro TIME 3:24 AM/PM

DATE: 7-9-12 VEHICLE NO: 8 GENERATOR COMPANY MAN'S NAME: P. Stanley

CHARGE TO: SUG RIG NAME AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CLD

RRC or API # C-133#

VOLUME OF MATERIAL  BBLs. :  YARD 12 :

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210753

LEASE OPERATOR/SHIPPER/COMPANY: SLUG

LEASE NAME: N/A-4

TRANSPORTER COMPANY: Basin Eunice

TIME 2:04 AM/PM

DATE: 7-9-12

VEHICLE NO: 8

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SLUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: 4D

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs. \_\_\_\_\_ :

YARD 12 \_\_\_\_\_ :

\_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210734

OPERATOR/SHIPPER/COMPANY: SLIG  
E NAME: MA-4  
SPORTER COMPANY: Basin Eunice TIME 12:23 AM/PM  
DATE: 7-9-12 VEHICLE NO: 8 GENERATOR COMPANY MAN'S NAME: C. Stanley  
RIG TO: SLIG RIG NAME AND NUMBER: J

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content                 | <input type="checkbox"/> Call Out |

Description: old

API # C-133#

QUANTITY OF MATERIAL  BBLs.            :  YARD 12 :            

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED HERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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RIVER: [Signature]  
(SIGNATURE)  
FACILITY REPRESENTATIVE: J. Sta Cruz  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210718

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: Bosin Enviro.

TIME 11:01 AM/PM

DATE: 7-9-12 VEHICLE NO: 8

GENERATOR COMPANY MAN'S NAME: C. Stanley

CHARGE TO: SUG

RIG NAME AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API # \_\_\_\_\_ C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210700

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: Basin Enviro

TIME: 9:52 AM/PM

DATE: 7-9-12

VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: P. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: old

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs

:

YARD 12

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210775

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: 111A-4

TRANSPORTER COMPANY: Canary Eunice

TIME 3:26 AM/PM

DATE: 7-9-12 VEHICLE NO: 9

GENERATOR COMPANY MAN'S NAME: C. Stanley

CHARGE TO: SUG

RIG NAME AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: Oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210754

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: Basin Eunice TIME 2:05 AM/PM

DATE: 7-9-12 VEHICLE NO: 9 GENERATOR COMPANY MAN'S NAME: Stanley

CHARGE TO: SUG RIG NAME AND NUMBER: \_\_\_\_\_

### TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Solids
- Drilling Fluids
- Contaminated Soil
- BS&W Content:
- Rinsate
- Jet Out
- Call Out

Description: Oil

RRC or API # \_\_\_\_\_ C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210735

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MH-4

TRANSPORTER COMPANY: Basin Eunice

TIME 12:26 AM/PM

DATE: 7-9-12 VEHICLE NO: 9

GENERATOR COMPANY MAN'S NAME: P. Stanley

CHARGE TO: SUG

RIG NAME AND NUMBER: J

### TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Solids
- Drilling Fluids
- Contaminated Soil
- BS&W Content:
- Rinsate
- Jet Out
- Call Out

Description: old

RRC or API # \_\_\_\_\_ C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210719

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: 111A-4

TRANSPORTER COMPANY: Basin Service

TIME 11:10 AM/PM

DATE: 7-9-12 VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: J. Shalvey

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: old

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210701

LEASE OPERATOR/SHIPPER/COMPANY:

SUG

LEASE NAME:

MH-4

TRANSPORTER COMPANY:

Dean Eplino

TIME 9:59 AM/PM

DATE: 7-9-12

VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME

Stanley

CHARGE TO:

SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description:

C/D

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs

YARD 12

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210721

LEASE OPERATOR/SHIPPER/COMPANY: SLIG

LEASE NAME: DIA-4

TRANSPORTER COMPANY: Hernandez Truck

TIME 11:20 AM/PM

DATE: 7-9-12

VEHICLE NO: 1

GENERATOR COMPANY MAN'S NAME: C. Stanley

CHARGE TO: SLIG

RIG NAME AND NUMBER

### TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Solids
- Drilling Fluids
- Contaminated Soil
- BS&W Content:
- Rinsate
- Jet Out
- Call Out

Description: Oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210704

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: Hernandez Trucking

TIME 10:00 AM/PM

DATE: 7-9-12 VEHICLE NO: 01

GENERATOR COMPANY  
MAN'S NAME: D. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210752

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MIA-4

TRANSPORTER COMPANY: Hernandez Truck

TIME 1:54 AM/PM

DATE: 7-9-12

VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: A. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

Production Water

Drilling Fluids

Rinsate

Tank Bottoms

Contaminated Soil

Jet Out

Solids

BS&W Content:

Call Out

Description: Oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs.

: X YARD 12

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: J Hernandez

(SIGNATURE)

FACILITY REPRESENTATIVE: J. Sta Cruz

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210772

LEASE OPERATOR/SHIPPER/COMPANY: SLUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: Hernandez Truck

TIME 3:21 AM/PM

DATE: 7-9-12

VEHICLE NO: 01

GENERATOR COMPANY  
MAN'S NAME: C. Skinsley

CHARGE TO: SLUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: Old

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs.

:

YARD 12

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: Hernandez

(SIGNATURE)

FACILITY REPRESENTATIVE: A. Skinsley

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210738

LEASE OPERATOR/SHIPPER/COMPANY:

SUG

LEASE NAME:

MA-4

TRANSPORTER COMPANY:

Hernandez Truck

TIME 12:42 AM/PM

DATE: 7-9-12

VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME:

C. Stanley

CHARGE TO:

SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Solids
- Drilling Fluids
- Contaminated Soil
- BS&W Content:
- Rinsate
- Jet Out
- Call Out

Description:

old

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs

YARD

12

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

*[Signature]*

FACILITY REPRESENTATIVE:

(SIGNATURE)

*[Signature]*

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210826

LEASE OPERATOR/SHIPPER/COMPANY: <u>SLUG</u>	
LEASE NAME: <u>MIA-4</u>	
TRANSPORTER COMPANY: <u>Hernandez Truck</u>	TIME <u>9:45</u> AM/PM
DATE: <u>7-10-12</u> VEHICLE NO: <u>1</u>	GENERATOR COMPANY MAN'S NAME: <u>B. Stanley</u>
CHARGE TO: <u>SLUG</u>	RIG NAME AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content                 | <input type="checkbox"/> Call Out |

Description: old

RRC or API # C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210843

LEASE OPERATOR/SHIPPER/COMPANY: SLIG

LEASE NAME: NIA-4

TRANSPORTER COMPANY: Hernandez Truck

TIME 11:12 AM/PM

DATE: 7-16-12 VEHICLE NO: 1

GENERATOR COMPANY MAN'S NAME: C. Stanley

CHARGE TO: SLIG

RIG NAME AND NUMBER

### TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Solids
- Drilling Fluids
- Contaminated Soil
- BS&W Content:
- Rinsate
- Jet Out
- Call Out

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210844

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: Basin Service

TIME 11:12 AM/PM

DATE: 7-16-12 VEHICLE NO: 8

GENERATOR COMPANY MAN'S NAME: A. Stanley

CHARGE TO: SUG

RIG NAME AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: U/D

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210825

LEASE OPERATOR/SHIPPER/COMPANY: <u>SUG</u>	
LEASE NAME: <u>MA-4</u>	
TRANSPORTER COMPANY: <u>Basin Eunice</u>	TIME <u>9:47</u> AM/PM
DATE: <u>7-10-12</u> VEHICLE NO: <u>8</u>	GENERATOR COMPANY MAN'S NAME: <u>C. Stanley</u>
CHARGE TO: <u>SUG</u>	RIG NAME AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API # C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210847

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: Basin Service

TIME 11:22 AM/PM

DATE: 7-10-12 VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: Oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 210827

LEASE OPERATOR/SHIPPER/COMPANY:

SUG

LEASE NAME:

MA-4

TRANSPORTER COMPANY:

Basin Service

TIME 9:58 AM/PM

DATE:

7-10-12

VEHICLE NO:

9

GENERATOR COMPANY  
MAN'S NAME:

C. Stanley

CHARGE TO:

SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description:

OLD

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs

:

YARD

12

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211685

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: BUSH ENGINEERING

TIME 4:17 AM/PM

DATE: 7/14/2012 VEHICLE NO: E

GENERATOR COMPANY  
MAN'S NAME: L. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211658

LEASE OPERATOR/SHIPPER/COMPANY: SUB

LEASE NAME: MA 4

TRANSPORTER COMPANY: Basin Energy

TIME 3:06 AM/PM

DATE: 7/10/2012 VEHICLE NO: 8

GENERATOR COMPANY  
MAN'S NAME: C Stanley

CHARGE TO: SUB

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CID

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs.

:

YARD

12

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211634

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAY

TRANSPORTER COMPANY: Edwin E. ...

TIME 1:41 AM/PM

DATE: 7/16/2012 VEHICLE NO: 8

GENERATOR COMPANY / MAN'S NAME: Just Stanley

CHARGE TO: SUG

RIG NAME AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs

:

YARD

12

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211602

LEASE OPERATOR/SHIPPER/COMPANY: SLIG

LEASE NAME: NIAU

TRANSPORTER COMPANY: Basin Energy

TIME 1230 AM/PM

DATE: 7/14/2012

VEHICLE NO: 8

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SLIG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: CID

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs.

:

YARD

:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211593

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAU

TRANSPORTER COMPANY: BOSSA ENERGY

TIME 11:11 AM/PM

DATE: 7/14/2012 VEHICLE NO: 8

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: C/O

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs.

YARD

12

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211565

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA-4

TRANSPORTER COMPANY: \_\_\_\_\_

TIME 9:32 AM/PM

DATE: 7/14/2012

VEHICLE NO: 8

GENERATOR COMPANY  
MAN'S NAME: Art Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: 911

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_  
(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211591

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAY

TRANSPORTER COMPANY: Hernandez

TIME 11:08 AM/PM

DATE: 11/14/02 VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: Just Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: C/O

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs. \_\_\_\_\_ :

YARD 12 :

\_\_\_\_\_

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DRIVER: Hernandez

(SIGNATURE)

FACILITY REPRESENTATIVE: Charlie Romero

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211601

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MAY

TRANSPORTER COMPANY: Hernandez

TIME 12:27 AM/PM

DATE: 7/14/2012

VEHICLE NO: 05

GENERATOR COMPANY  
MAN'S NAME: C. Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: oil

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs

:

YARD

:

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DRIVER: Hernandez

(SIGNATURE)

FACILITY REPRESENTATIVE: Connie Romero

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211635

LEASE OPERATOR/SHIPPER/COMPANY: SUE

LEASE NAME: MA 4

TRANSPORTER COMPANY: Hernandez TRN

TIME 1:42 AM/PM

DATE: 7/16/12 VEHICLE NO: \_\_\_\_\_

GENERATOR COMPANY  
MAN'S NAME: Curt Straley

CHARGE TO: SUE

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: 410

RRC or API #

C-133#

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_  
(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_  
(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211686

LEASE OPERATOR/SHIPPER/COMPANY: SHG

LEASE NAME: NAH

TRANSPORTER COMPANY: Hernandez

TIME 4:20 AM/PM

DATE: 11/17/02

VEHICLE NO: 1

GENERATOR COMPANY  
MAN'S NAME: Stanley

CHARGE TO: SUG

RIG NAME  
AND NUMBER

### TYPE OF MATERIAL

- |   |   |                                   |
|---|---|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate  |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out  |
| <input type="checkbox"/> Solids           | <input type="checkbox"/> BS&W Content:                | <input type="checkbox"/> Call Out |

Description: C/O

RRC or API #

C-133#

VOLUME OF MATERIAL

BBLs.

:

YARD

:

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DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 211652

LEASE OPERATOR/SHIPPER/COMPANY: SUG

LEASE NAME: MA 4

TRANSPORTER COMPANY: Hernandez TIME 2:54 AM/PM

DATE: 7/14/2012 VEHICLE NO: 1 GENERATOR COMPANY MAN'S NAME: C. Stanley

CHARGE TO: SUG RIG NAME AND NUMBER

**TYPE OF MATERIAL**

Production Water       Drilling Fluids       Rinsate

Tank Bottoms       Contaminated Soil       Jet Out

Solids       BS&W Content:       Call Out

Description: CD

RRC or API # \_\_\_\_\_ C-133# \_\_\_\_\_

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

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DRIVER: [Signature]  
(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter

**APPENDIX E**

**Release Notification and Corrective Action  
(Form 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 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

DEC 01 2011

Form C-141  
Revised October 10, 2003

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

RECEIVED

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Southern Union Gas Services	Contact	Rose Slade
Address	801 S. Loop 464, Monahans, TX 79756	Telephone No.	432-940-5147
Facility Name	Trunk MA-4 #105	Facility Type	Natural Gas Pipeline
Surface Owner	Jimmy Doom	Lease No.	30-025-38822

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	9	24S	37E					Lea

Latitude 32 degrees 13.691' North Longitude 103 degrees 10.564 West

**NATURE OF RELEASE**

Type of Release	Natural Gas, Crude Oil and Produced Water	Volume of Release	35 bbls 18 MCF	Volume Recovered	None
Source of Release	10 - inch Natural Gas Pipeline	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	November 16, 2011 - 1430 hours
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking - NMOCD Hobbs District Office		
By Whom?	Rose Slade (SUGS)	Date and Hour	November 17, 2011 - 1545 hours		
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.\*

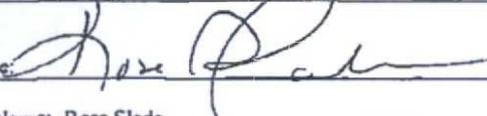
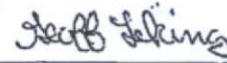
Describe Cause of Problem and Remedial Action Taken.\*

A ten (10)-inch low pressure natural gas pipeline developed a leak due to internal corrosion of the pipeline, resulting in a release of natural gas, crude oil and produced water. During initial response activities the pipeline was shut in. Heavily saturated soil was scraped and placed on plastic adjacent to the release point. Following initial response activities, the affected pipeline segment was slip lined with poly pipe.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 4,000 square feet and was largely limited to a caliche road. The release will be remediated according to NMOCD regulatory guidelines.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Rose Slade	ENV SPECIALIST: Approved by District Supervisor: 	
Title: EHS Compliance Specialist	Approval Date: 12/01/11	Expiration Date: 02/01/12
E-mail Address: rose.slade@sug.com	Conditions of Approval: SUBMIT FINAL C-141 BY 02/01/12	Attached <input type="checkbox"/> IRP-12-11-276b
Date: November 30, 2011	Phone: 432-940-5147	

\* Attach Additional Sheets If Necessary

JAN 03 2012