District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

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

	10) 10)		Rele	ase Notific	cation	and Co	orrective A	ction	
						<b>OPERA</b>	FOR		nitial Report 🛛 Final Rep
Name of C	ompany: So	uthern Unio	on Gas Se	ervices		Contact: Ro		S. Carlo	
	01 South Lo						No.: 817-302-97		
Facility Na	me: Monaha	ans Field O	ffice		I	Facility Typ	e: Line 2C – 12	"	(Accession of the second se
urface Ov	vner: George	e Willis		Mineral (	Owner	1200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AP	No – 30-025-28822
				LOC	ATION	OF REI	LEASE		
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		Latitude_	N32 deg	100			:103 degrees 08	3.531'	
					TURE	OF REL			
				d Natural Gas	11.18		Release: 20 barro		me Recovered: 17 barrels
ource of Re	elease: 12 " S	steel Pipeline	(Low pres	ssure)		2/15/11 -1			and Hour of Discovery: 2/15/2011 proximately 1326 hrs
as Immedi	iate Notice G		Yes 🗌	No 🗌 Not R	equired	If YES, To Geoff Leki	Whom? ng –NMOCD Di	2 1 1 1 1 1	
y Whom?	Rose Slade				1.19	Date and H	lour: 2/16/11 – 13	310 hrs	and the second second
as a Water	course Reach		Yes 🛛	No	1	If YES, Vo	lume Impacting	the Watercours	e.
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## **Basin Environmental Service Technologies, LLC**

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jwlowry@basinenv.com
Office: (575) 396-2378
Fax: (575) 396-1429



## **REMEDIATION SUMMARY &**

## **RISK-BASED SITE CLOSURE REQUEST**

## SOUTHERN UNION GAS SERVICES LINE 2-C 12"

Lea County, New Mexico Unit Letter "A" (NE/NE), Section 27, Township 25 South, Range 37 East Latitude 32° 06.397' North, Longitude 103° 08.531' West NMOCD Reference # 1RP\_\_\_\_\_

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

**July 2012** 

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## **FIGURES**

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## **APPENDICES**

Appendix A – Photographs Appendix B – Laboratory Analytical Reports Appendix C – Disposal Manifest Appendix D – 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 & Risk-Based Site Closure Request* for the release site known as Line 2-C 12". The legal description of the release site is Unit Letter "A" (NE/NE), Section 27, Township 25 South, Range 37 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32° 06.397' North latitude and 103° 08.531' West longitude. The property affected by the release is owned by Mr. George Willis. Please reference Figure 1 for a "Site Location Map".

On February 15, 2011, Southern Union discovered a release had occurred on the Line 2-C twelve inch (12") pipeline. The "Release Notification and Corrective Action" (Form C-141) indicated failure of a section of twelve inch (12") low-pressure steel pipeline resulted in the release of approximately twenty barrels (20 bbls) of a mixture of crude oil, produced water and natural gas. During initial response activities a vacuum truck was utilized to recover approximately seventeen barrels (17 bbls) of free standing fluids. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on February 15, 2011. The release affected an area measuring approximately two hundred square feet (200 ft<sup>2</sup>). General photographs of the release site are provided as Appendix A. The Form C-141 is provided as Appendix D.

## 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 27, Township 25 South, Range 37 East. An inferred depth to groundwater gradient reference map utilized by the NMOCD indicated groundwater should be encountered at between approximately fifty-five feet (55') and sixty-five (65') 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 1,000 feet 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 1,000 feet 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 Line 2-C 12" 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 October 31, 2011, five (5) initial soil samples (Surface, Trench @ 3', Trench @ 9'6''', Trench @ 12' and Trench @ 14'6'') were collected from a delineation trench advanced at the release point, for laboratory analysis. Soil samples were submitted to Xenco Laboratories, Inc., in Odessa, Texas, for analysis of benzene, ethylbenzene, toluene, and xylene (BTEX), total petroleum hydrocarbons (TPH), and chloride concentrations using EPA Methods SW 846-8021b, SW 846-8015M, and 300.1, respectively. 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 B.

Laboratory analytical results indicated the concentration of benzene was less than the appropriate laboratory method detection limit (MDL) in each of the submitted soil samples. Analytical results indicated the BTEX concentration was less than the appropriate laboratory MDL in each of the submitted soil samples. TPH concentrations ranged from 129 mg/Kg in soil sample Trench @ 9'6" to 2,880 mg/Kg in soil sample Surface. Chloride concentrations ranged from 641 mg/Kg in soil sample Trench at 14'6" to 7,920 mg/Kg in soil sample Surface. Based on laboratory analytical results from soil samples collected from the on-site delineation trench, it was determined a soil boring would be necessary to adequately delineate the vertical impact at the release site.

On November 15, 2011, one soil boring (SB-1) was advanced at the release site. During the advancement of the soil boring, six (6) soil samples (SB-1 @ 5', SB-1 @ 15', SB-1 @ 25', SB-1 @ 35', SB-1 @ 40', and SB-1 @ 45') were collected and submitted to the laboratory for analysis of THP and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the appropriate laboratory MDL of 18.7 mg/Kg for soil sample SB-1 @ 45' to 3,440 mg/Kg for soil sample SB-1 @ 5'. Analytical results indicated chloride concentrations ranged from 186 mg/Kg in soil sample SB-1 @ 40' to 1,830 mg/Kg for soil sample SB-1 @ 5'.

On April 24, 2012, Basin began excavation activities at the release site. Excavation sidewalls were advanced until chloride field tests and photo-ionization detector (PID) readings indicated concentrations of TPH and chloride were less than NMOCD regulatory remediation action levels established for the site.

On April 25, 2012, four (4) confirmation soil samples (North Wall, South Wall, East Wall and West Wall) were collected from the sidewalls of 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 for each of the submitted soil samples. Analytical results indicated TPH concentrations were less than the appropriate laboratory MDL for each of the submitted soil samples. Chloride concentrations ranged from 11.3 mg/Kg for soil sample North Wall to 248 mg/Kg for soil sample West Wall. Benzene, BTEX, TPH and chloride concentrations were below NMOCD regulatory remediation action levels for each of the submitted soil samples.

On April 26, 2012, Southern Union submitted a "Remediation Summary and Risk-Based Closure Proposal" to the NMOCD Hobbs District Office. The Proposal detailed activities designed to advance the release site toward and NMOCD approved closure. Following discussion between Southern Union and an NMOCD representative, the NMOCD representative approved the proposed activities. Please reference the "Remediation Summary and Risk-Based Closure Proposal" prepared by Basin and dated April 2012.

On July 2, 2012, a one-foot (1') impermeable red clay liner was installed on the floor of the excavation. This engineering control was designed to inhibit vertical migration of contaminants from below the red clay liner to the surface, protecting the vegetative zone, and shed moisture to the edge of the liner beyond the maximum horizontal extent of underlying impacted soil.

On July 3, 2012, on receiving verbal 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 final dimensions of the excavation were approximately sixty feet (60') in length, fifty feet (50') in width, and approximately two and one-half feet (2.5') in depth. Approximately two hundred fifty cubic yards (250 yd<sup>3</sup>) of impacted material was transported to Sundance Services, Inc (NMOCD Permit # 01-003) for disposal. Copies of disposal manifest are provided as Appendix C.

## 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

Soil samples collected from the Line 2-C 12" excavation were analyzed by an NMOCDapproved laboratory and remediation activities met the objectives set forth in the NMOCDapproved work plan. Excavation sidewalls were advanced until concentrations of benzene, BTEX, TPH and chloride were less than NMOCD regulatory standards. A twelve-inch (12") clay liner was installed on the floor of the excavation at approximately two and one-half feet (2.5') bgs to inhibit vertical migration of any contaminants left in place. Based on laboratory analytical results from confirmation soil samples, Basin Environmental recommends Southern Union provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the Line 2-C 12" site.

## 6.0 LIMITATIONS

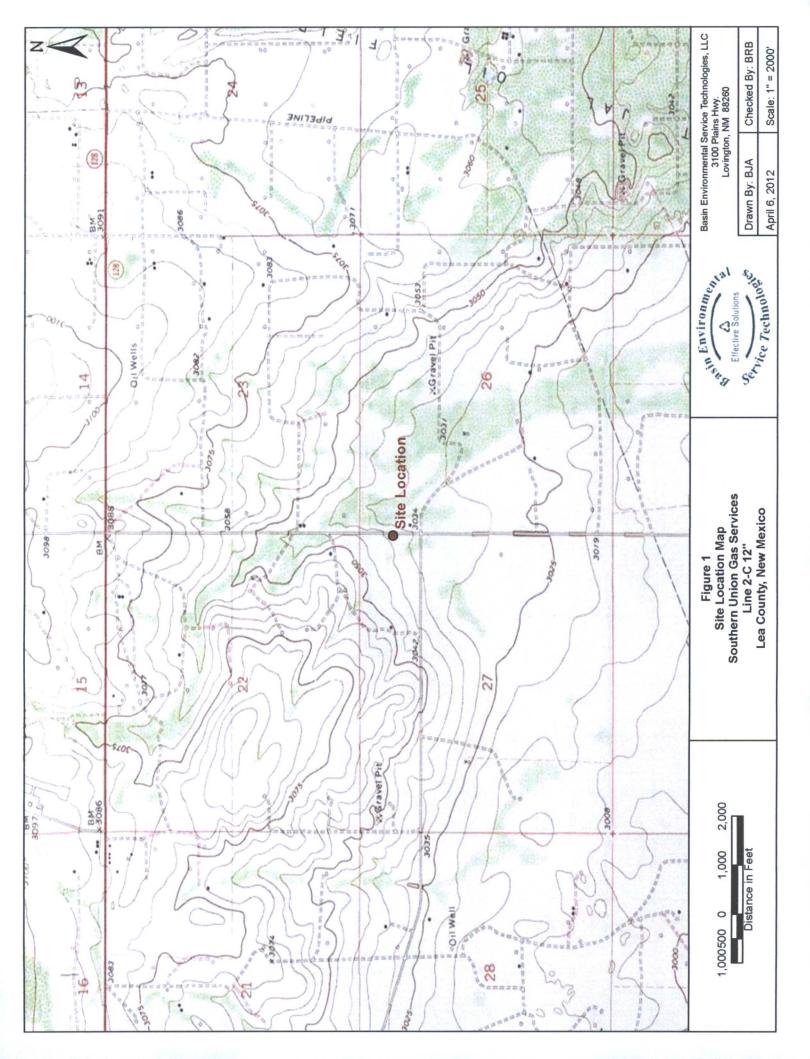
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements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

This report has been prepared for the benefit of 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



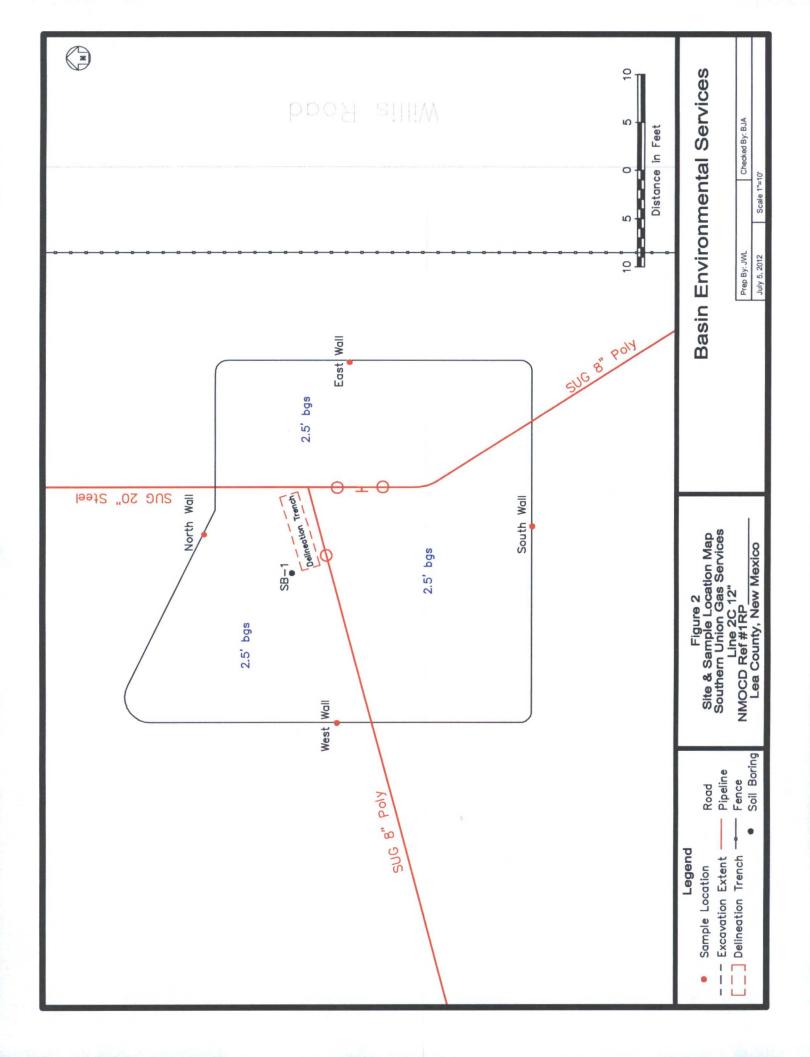
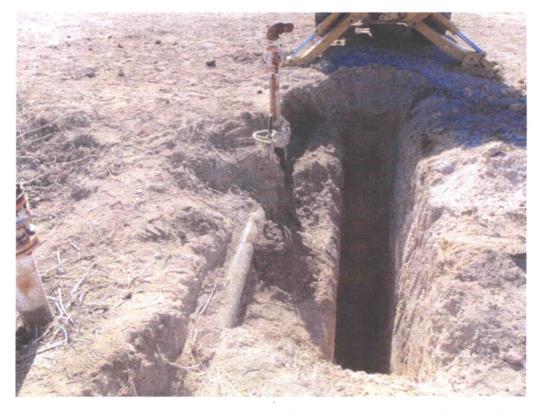


TABLE 1

## SOUTHERN UNION GAS SERVICES LINE 2C 12-INCH LEA COUNTY, NEW MEXICO

					MEIHO	U: EPA SW 8	METHOD: EPA SW 846-8021B, 5030	30		ME	METHOD: 8015M	5M	TOTAL	E 300
SAMPLE LOCATION	DEPTH (BGS)	SAMPLE DATE	STATUS	BENZENE (ma/Ka)	TOLUENE (ma/Ka)	ETHYL- BENZENE	M.P XYLENES	O-	TOTAL BTEX	GRO C <sub>6</sub> -C <sub>12</sub>	DRO C <sub>12</sub> -C <sub>28</sub>	ORO C <sub>28</sub> -C <sub>35</sub>	C6-C35	CHLORIDE (ma/Ka)
				0.0	0.0	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	1001
Surface	Surface	10/31/2011	Excavated	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<77.1	2,250	630	2,880	7,920
Trench @ 3'	3'	10/31/2011	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	17.2	233	102	352	1,550
Trench @ 9' 6"	9.5'	10/31/2011	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.2	91.4	37.1	129	1,360
Trench @ 12'	12'	10/31/2011	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	212	71.4	283	1,290
Trench @ 14' 6"	14.5'	10/31/2011	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	155	76.3	231	641
	and the set	State of the second second	Section of the sectio	No. of Street,	and the particular	No. And Control of	Sale Constants	A CONTRACTOR		interesting the	Constant of		South States	
SB-1 @ 5'	5'	11/15/2011	In-Situ							493	2,380	569	3,440	1,830
SB-1 @ 15'	15'	11/15/2011	In-Situ							205	868	<170	1,070	503
SB-1 @ 25'	25'	11/15/2011	In-Situ							86.1	1,910	151	2,150	378
SB-1 @ 35'	35'	11/15/2011	In-Situ							56.4	629	70.8	756	732
SB-1 @ 40'	40'	11/15/2011	In-Situ							22.1	238	22.6	283	186
SB-1 @ 45'	45'	11/15/2011	In-Situ							<18.7	<18.7	<18.7	<18.7	225
A STATE OF A										The second second				
North Wall	2'	4/25/2012	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	11.3
South Wall	2'	4/25/2012	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.4	<15.4	<15.4	<15.4	14.4
East Wall	2'	4/25/2012	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<16.2	<16.2	<16.2	<16.2	196
West Wall	2'	4/25/2012	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.6	<15.6	<15.6	<15.6	248
	and the second se	States of the second	- ALE ALE OF	B. Constanting of the	Name and Street	Contraction of the local division of the loc	and the second s	A REAL PROPERTY.	Non-Section	and the second	And Manual	Conservation of the second	Service and	のないであるのである
NMOCD Criteria				10					50				1.000	

Page 1 of 1



Photograph of the advancement of a delineation trench at the Line 2C 12" Release Site.



Photograph of the advancement of SB-1 at the Line 2C 12" Release Site.



Photograph of the installation of bentonite plug in SB-1 at the Line 2C 12" Release Site.



Photograph of excavation activities at the Line 2C 12" Release Site.



Photograph of excavation activities at the Line 2C 12" Release Site.



Photograph of installation of clay liner at the Line 2C 12" Release Site.



Photograph of the Line 2C 12" Release Site after being backfilled.



Photograph of the Line 2C 12" Release Site after being remediated.

## Analytical Report 430592

for

Southern Union Gas Services- Monahans

Project Manager: Rose Slade Line 2C 12 inch

## 04-NOV-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 (AALI1), 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: AZ000989): Arizona (AZ0758)



04-NOV-11

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

Reference: XENCO Report No: 430592 Line 2C 12 inch Project Address: Jal, New Mexico

## **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 430592. 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. 430592 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,

the the

Brent Barron II Odessa Laboratory Manager

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## Sample Cross Reference 430592



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

Line 2C 12 inch

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Surface	S	10-31-11 10:00		430592-001
Trench @ 3'	S	10-31-11 10:30		430592-002
Trench @ 9' 6"	S	10-31-11 12:00		430592-003
Trench @ 12'	S	10-31-11 13:00		430592-004
Trench @ 14' 6"	S	10-31-11 14:30		430592-005

## CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: Line 2C 12 inch



Project ID: Work Order Number: 430592 Report Date: 04-NOV-11 Date Received: 11/01/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-873869 TPH By SW8015 Mod SW8015MOD NM

Batch 873869, C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 430592-001, -002, -004, -003, -005.

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

SW8015MOD\_NM

Batch 873869, 1-Chlorooctane recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 430592-005,430592-004,430592-003.

o-Terphenyl recovered below QC limits Data confirmed by re-analysis. Samples affected are: 430592-004,430592-003,430592-005,430592-001

o-Terphenyl recovered below QC limits Data not confirmed by re-analysis. Samples affected are: 613589-1-BKS,613589-1-BLK,613589-1-BSD,430456-048 S,430456-048 SD.



Client Name: Southern Union Gas Services- Monahans Project Name: Line 2C 12 inch



Project ID: Work Order Number: 430592 Report Date: 04-NOV-11 Date Received: 11/01/2011

Batch: LBA-874014 BTEX by EPA 8021B SW8021BM

Batch 874014, Ethylbenzene, m\_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Toluene recovered below QC limits in the Matrix Spike Duplicate. Samples affected are: 430592-001, -002, -004, -003, -005. The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m\_p-Xylenes, o-Xylene is within laboratory Control Limits

## SW8021BM

Batch 874014, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 430592-001.



Contact: Rose Slade

Project Id:

## Certificate of Analysis Summary 430592 Southern Union Gas Services- Monahans, Monahans, TX Project Name: Line 2C 12 inch



ed in Lab: Tue Nov-01-11 08:26 am	port Date: 04-NOV-11
Date Receiv	Re

					Project Manager: 1	Brent Barron II	
	Lab Id:	430592-001	430592-002	430592-003		430592-005	
Audioin Donuodad	Field Id:	Surface	Trench @ 3'	Trench @ 9' 6"	Trench @ 12'	Trench @ 14'6"	
naisanhay sistinuy	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Oct-31-11 10:00	Oct-31-11 10:30	Oct-31-11 12:00	Oct-31-11 13:00	Oct-31-11 14:30	
Anions by E300	Extracted:						
	Analyzed:	Nov-01-11 22:58	Nov-01-11 22:58	Nov-01-11 22:58	Nov-01-11 22:58	Nov-01-11 22:58	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		7920 173	1550 45.7	1360 22.7	1290 18.3	641 9.19	
BTEX by EPA 8021B	Extracted:	Nov-03-11 14:00	Nov-03-11 14:00	Nov-03-11 14:00	Nov-03-11 14:00	Nov-03-11 14:00	
	Analyzed:	Nov-03-11 23:16	Nov-03-11 23:39	Nov-04-11 00:01	Nov-04-11 00:23	Nov-04-11 00:46	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene	-	ND 0.00103	ND 0.00108	ND 0.00107	ND 0.00108	ND 0.00109	
Toluene		ND 0.00206	ND 0.00217	ND 0.00214	ND 0.00217	ND 0.00219	
Ethylbenzene		ND 0.00103	ND 0.00108	ND 0.00107	ND 0.00108	ND 0.00109	
m_p-Xylencs		ND 0.00206	ND 0.00217	ND 0.00214	ND 0.00217	ND 0.00219	
o-Xylene		ND 0.00103	ND 0.00108	ND 0.00107	ND 0.00108	ND 0.00109	
Total Xylenes		ND 0.00103	ND 0.00108	ND 0.00107	ND 0.00108	ND 0.00109	
Total BTEX		ND 0.00103	ND 0.00108	ND 0.00107	ND 0.00108	ND 0.00109	
Percent Moisture	Extracted:						
	Analyzed:	Nov-01-11 11:30	Nov-01-11 11:30	Nov-01-11 11:30	Nov-01-11 11:30	Nov-01-11 11:30	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		3.06 1.00	8.15 1.00	7.46 1.00	8.39 1.00	8.57 1.00	
TPH By SW8015 Mod	Extracted:	Nov-01-11 16:15	Nov-01-11 16:15	Nov-01-11 16:15	Nov-01-11 16:15	Nov-01-11 16:15	
	Analyzed:	Nov-02-11 14:33	Nov-03-11 19:08	Nov-03-11 19:45	Nov-03-11 20:25	Nov-03-11 21:03	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 77.1	17.2 16.3	ND 16.2	ND 16.3	ND 16.4	
C12-C28 Diesel Range Hydrocarbons		2250 77.1	233 16.3	91.4 16.2	212 16.3	155 16.4	
C28-C35 Oil Range Hydrocarbons		630 77.1	102 16.3	37.1 16.2	71.4 16.3	76.3 16.4	
Total TDH		1 77 1 77 1	C 71 C 2C	C 21 0C1	C 21 COC	121 100	

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 Laboratorics. XENCO Laboratorics 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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THAT

Odessa Laboratory Manager

Brent Barron II

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## **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 quantiation 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 NEL	AC Accreditation. ^ NELAC	or State program does not offer Accreditation at this time.

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## Project Name: Line 2C 12 inch

Work Orders: 430592			Project II			
Lab Batch #: 873869	Sample: 430592-001 / SMP	Bate			STUDY	
Units: mg/kg	Date Analyzed: 11/02/11 14:33	50	RROGATE RE	COVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		75.6	99.7	76	70-135	
o-Terphenyl		29.7	49.9	60	70-135	**
Lab Batch #: 873869	Sample: 430592-002 / SMP	Bate	h: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 11/03/11 19:08	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		59.6	100		70-135	
o-Terphenyl		21.9	50.0		70-135	
Lab Batch #: 873869	Sample: 430592-003 / SMP	Bate	h: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 11/03/11 19:45	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		66.2	99.9	66	70-135	**
o-Terphenyl		25.3	50.0	51	70-135	**
Lab Batch #: 873869	Sample: 430592-004 / SMP	Bate	h: <sup>1</sup> Matrix:	Soil		
Units: mg/kg	Date Analyzed: 11/03/11 20:25	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	56.7	99.7	57	70-135	**
o-Terphenyl		21.6	49.9	43	70-135	**
Lab Batch #: 873869	Sample: 430592-005 / SMP	Bate	h: <sup>1</sup> Matrix:	Soil		
Units: mg/kg	Date Analyzed: 11/03/11 21:03	SU	RROGATE RE		STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		62.1	99.8	62	70-135	**
o-Terphenyl		23.1	49.9	46	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



## Project Name: Line 2C 12 inch

<b>Ork Orders :</b> 430592 Lab Batch #: 874014	Sample: 430592-001 / SMP	Batch	Project II			
Units: mg/kg	Date Analyzed: 11/03/11 23:16		RROGATE R		STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes			[D]		
1,4-Difluorobenzene		0.0273	0.0300	91	80-120	
4-Bromofluorobenzene		0.0227	0.0300	76	80-120	*
Lab Batch #: 874014	Sample: 430592-002 / SMP	Batch				
Units: mg/kg	Date Analyzed: 11/03/11 23:39	SUI	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1.4-Difluorobenzene	Analytes	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene		0.0202	0.0300	87	80-120	
Lab Batch #: 874014	Sample: 430592-003 / SMP					
Units: mg/kg	Date Analyzed: 11/04/11 00:01	Batch	RROGATE R		STUDY	
				1	Control	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Limits %R	Flags
1,4-Difluorobenzene		0.0274	0.0300	91	80-120	
4-Bromofluorobenzene		0.0249	0.0300	83	80-120	
Lab Batch #: 874014	Sample: 430592-004 / SMP	Batch	: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 11/04/11 00:23	SUI	RROGATE RI	ECOVERY	STUDY	
BTE	X 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	_
		0.0200	0.0000	15	00-120	
,		0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	Sample: 430592-005 / SMP				80-120	
4-Bromofluorobenzene Lab Batch #: 874014	Sample: 430592-005 / SMP Date Analyzed: 11/04/11 00:46	Batch		:Soil		
4-Bromofluorobenzene Lab Batch #: 874014 Units: mg/kg	Date Analyzed: 11/04/11 00:46 X by EPA 8021B	Batch	: <sup>1</sup> Matrix	: Soil ECOVERY S Recovery %R		Flags
4-Bromofluorobenzene Lab Batch #: 874014 Units: mg/kg	Date Analyzed: 11/04/11 00:46	Batch SUF Amount Found	: <sup>1</sup> Matrix RROGATE RI True Amount	: Soil ECOVERY S Recovery	STUDY Control Limits	Flags

\* 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



## Project Name: Line 2C 12 inch

<b>Work Orders :</b> 430592	Sample: 613589-1-BLK / B	IV Detail	Project II			
Lab Batch #: 873869	Date Analyzed: 11/02/11 12:54		RROGATE RI		STUDY	
Units: mg/kg	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		82.2	100	82	70-135	
o-Terphenyl		32.2	50.0	64	70-135	*
Lab Batch #: 874014	Sample: 613677-1-BLK / B	LK Batel	h: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 11/03/11 17:35	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0272	0.0300	91	80-120	
4-Bromofluorobenzene		0.0272	0.0300	91	80-120	
Lab Batch #: 873869	Sample: 613589-1-BKS / BI	KS Batc	h: 1 Matrix	Solid		
Units: mg/kg	Date Analyzed: 11/02/11 11:53		RROGATE RI	ECOVERY	STUDY	
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		87.7	100	88	70-135	
o-Terphenyl		27.6	50.0	55	70-135	*
Lab Batch #: 874014	Sample: 613677-1-BKS / BI	KS Batel	h: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 11/03/11 16:05	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0286	0.0300	95	80-120	
4-Bromofluorobenzene		0.0280	0.0300	93	80-120	
Lab Batch #: 873869	Sample: 613589-1-BSD / BS	SD Batcl	h: 1 Matrix	Solid		
Units: mg/kg	Date Analyzed: 11/02/11 12:24		RROGATE RI		STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		91.0	100	91	70-135	
o-Terphenyl		29.0	50.0	58	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



## Project Name: Line 2C 12 inch

ork Orders : 430592 Lab Batch #: 874014	Sample: 613677-1-BSD / BS	SD Bate	Project II h: 1 Matrix			
Units: mg/kg	Date Analyzed: 11/03/11 16:27	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
	Analytes					
1,4-Difluorobenzene		0.0280	0.0300	93	80-120	
4-Bromofluorobenzene		0.0275	0.0300	92	80-120	
Lab Batch #: 873869	Sample: 430456-048 S / MS					
Units: mg/kg	Date Analyzed: 11/02/11 18:22	SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		84.9	100	85	70-135	
o-Terphenyl		24.1	50.0	48	70-135	*
Lab Batch #: 874014	Sample: 430803-001 S / MS	Bate	h: 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 11/03/11 21:23	SU	RROGATE RI	ECOVERY S	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
1.1.2.1	Analytes			[D]		
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0283	0.0300	94	80-120 80-120	
		0.0283	0.0300		80-120	
Lab Batch #: 873869	Sample: 430456-048 SD / M					
Units: mg/kg	Date Analyzed: 11/02/11 18:56	SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		87.5	100	88	70-135	
o-Terphenyl		25.0	50.1	50	70-135	*
Lab Batch #: 874014	Sample: 430803-001 SD / M	ISD Batc	h: 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 11/03/11 21:46	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene		0.0277	0.0300	92	80-120	
1,4-Dilluorobenzene						

\* 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



**BS / BSD Recoveries** 



## Project Name: Line 2C 12 inch

Work Order #: 430592 Analyst: ASA Lab Batch ID: 874014

Date Prepared: 11/03/2011

Date Analyzed: 11/03/2011 Matrix: Solid

Project ID:

Lab Batch ID: 874014 Sample: 613677-1-BKS	3KS	Batch	Batch #: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	K /BLANK S	PIKE / E	ILANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE 1	RECOVE	RY STUD	Å	
BTEX by EPA 8021B Analytes	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
Benzene	<0.00100	0.100	0.104	104	0.100	0.104	104	0	70-130	35	
Toluene	<0.00200	0.100	0.107	107	0.100	0.107	107	0	70-130	35	
Ethylbenzene	<0.00100	0.100	0.111	111	0.100	0.111	111	0	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.221	111	0.200	0.222	111	0	70-135	35	
o-Xylene	<0.00100	0.100	0.110	110	0.100	0.112	112	2	71-133	35	
Analyst: BRB	Da	ite Prepar	Date Prepared: 11/01/2011	1			Date A	Date Analyzed: 11/01/2011	1/01/2011		
Lab Batch ID: 873686 Sample: 873686-1-BKS	3KS	Batch #:	1#: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / F	ILANK S	<b>BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY</b>	ICATE 1	RECOVE	RY STUD	Y	

Flag Control Limits %RPD 20 Control Limits %R 75-125 RPD % 3 Blk. Spk Dup. %R [G] 115 Blank Spike Duplicate Result [F] 22.9 Spike Added 20.0 E Blank Spike %R [D] 119 Blank Spike Result [C] 23.7 Spike 20.0 [**B**] Blank Sample Result <0.840 [Y] Anions by E300 Analytes Chloride

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 Page 12 of 18

Final 1.000



## **BS / BSD Recoveries**



## Project Name: Line 2C 12 inch

Work Order #: 430592							Proj	Project ID:	
Analyst: ASA	D	ate Prepar	Date Prepared: 11/01/2011	1			Date AI	Date Analyzed: 11/02/20	1/02/20
Lab Batch ID: 873869 Sample: 613589-1-BKS	589-1-BKS	Batc	Batch #: 1					Matrix: Solid	olid
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY S	PIKE / B	LANK S	PIKE DUPL	ICATE 1	RECOVE	RY S
TPH By SW8015 Mod	Blank Sample Result	Spike	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Cont
Analytes	[V]		Result [C]	%R [D]	[E]	Duplicate Result [F]	%R [G]	%	0%

Flag

Control Limits %RPD

Control Limits %R

COVERY STUDY

yzed: 11/02/2011

35 35

0 5

878 918

1000 1000

88 87

875 869

1000 1000

<15.0 <15.0

C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons

70-135 70-135

92 88

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

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## Form 3 - MS Recoveries

Project Name: Line 2C 12 inch



Flag

Analyst: BRB

Matrix: Soil

%R

[D]

107

Analyst: BRB

Control

Limits

%R

75-125

Work Order #: 430592 **Project ID:** Lab Batch #: 873686 Date Prepared: 11/01/2011 Date Analyzed: 11/01/2011 QC- Sample ID: 430568-006 S Batch #: 1 MATRIX / MATRIX SPIKE RECOVERY STUDY Reporting Units: mg/kg Parent Spiked Sample **Inorganic Anions by EPA 300** Spike Sample Result Result Added [C] [A] [**B**] Analytes Chloride 46.3 214 276 Lab Batch #: 873686 Date Prepared: 11/01/2011 Date Analyzed: 11/01/2011 120502 001 8

QC- Sample ID: 430592-001 S	Batch #: 1		1	Matrix: S	oil	
Reporting Units: mg/kg	MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	7920	4130	12300	106	75-125	

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



Work Order #: 430592 Lab Batch ID: 874014 Date Analyzed: 11/03/2011

Project ID:

QC- Sample ID: 430803-001 S Date Prepared: 11/03/2011

Batch #: 1 Matrix: Soil Analyst: ASA

Reporting Units: mg/kg		M	ATRIX SPIKE	/ MATF	IIX SPIF	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E RECC	VERY S	TUDY		
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Kesult [A]	Added [B]		%R	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	<0.00105	0.105	0.0829	79	0.104	0.0712	68	15	70-130	35	×
Toluene	<0.00210	0.105	0.0750	71	0.104	0.0654	63	14	70-130	35	x
Ethylbenzene	<0.00105	0.105	0.0621	59	0.104	0.0526	51	17	71-129	35	X
m_p-Xylencs	<0.00210	0.210	0.116	55	0.208	0.0983	47	17	70-135	35	х
o-Xylene	<0.00105	0.105	0.0572	54	0.104	0.0494	48	15	71-133	35	х
Lab Batch ID: 873869 Date Analyzed: 11/02/2011	QC- Sample ID: 430456-048 S Date Prepared: 11/01/2011	430456-	-048 S 011	Bat Ana	Batch #: Analyst:	1 Matrix: Solid ASA	: Solid				

Flag × Limits %RPD Control 35 35 Control Limits %R 70-135 70-135 MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY RPD % 2 6 Spiked Dup. %R [G] 64 52 Duplicate Spiked Sample Result [F] 1050 1960 Spike Added 1040 1040 Ξ Spiked Sample %R 0 37 75 Spiked Sample Result 1000 1800 Spike Added 1030 1030 [**B**] Parent Sample Result [A] 1420 230 TPH By SW8015 Mod C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons Analytes Reporting Units: mg/kg

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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

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Sample Duplicate Recovery



## Project Name: Line 2C 12 inch

Work Order #: 430592

	red: 11/01/201	Anal	Project I lyst: BRB rix: Soil	D:	
Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[ <b>B</b> ]			
Chloride	46.3	45.6	2	20	
Lab Batch #: 873702					
Date Analyzed: 11/01/2011 11:30 Date Prepa	red: 11/01/201	l Anal	lyst: BRB		
QC- Sample ID: 430592-001 D Bate	h #: 1	Mat	rix: Soil		
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.06	3.19	4	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

QUEST	432-563-1800 432-563-1713					TRRP NPDES				BTEX 8021 95030 or BTEX 8286 RCI N. S. C.	X	X X X	x x	× × ×	× × ×		0	s)z z z sol z z z sol z z z sol z z z sol z z z z sol z z z z sol z z z z z sol z z z z z sol z z z z z z sol z z z z z z sol z z z z z z z sol z z z z z z z z z z z z z z z sol z z z z z z z z z z z z z z z z z z z	06
CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST	Phone: 43 Fax: 43	Project Name: Line 2C 12 inch	Project #:	Project Loc: Jal, New Mexico	PO #:	mat: X Standard	Analiza For	TCLP: TCLP: TOTAL:	-	TPH: TX 1005 TX 1006 Cations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity) SAR / ESP / CEC Motals: As Ag Ba Cd Cr Pb Hg G Motals: As Ag Ba Cd Cr Pb Hg G Semivolatiles							Laboratory Comments: Sample Containers Intact?	VOCS Free of Headspace? Labels on container(s) Custody seals on container(s)	T
STODY RECO		Project	Pre	Proje	1	Report Format:			Matrix	Other ( Specify) W=Drinking Water SL=Sludge W= Groundwater SL=Sludge W=Won-Potable Specify Other W=Won-Potable Specify Other W=	Soil	Soil X	Soil X	Soil X	Soil X			Date Time	Date Time
CHAIN OF CU	12600 West I-20 East Odessa, Texas 79765						rose.slade@sug.com		Preservation & # of Containers	Noure Ne <sup>5</sup> 2 <sup>5</sup> 0 <sup>2</sup> H <sup>5</sup> 80 <sup>4</sup> HGI HNO <sup>2</sup> Ice	×	×	×	×	×				
						Fax No:	e-mail:	( ,00/11		Time Sampled ield Filtered otal #. of Containers		1030	1200	1300	1430		-		
								ACBY DUNI		Dəte Sampled	10/31/2011	10/31/2011	10/31/2011	10/31/2011	10/31/2011			Received by:	Received by:
cas		Page 1 of 1					S	C AC		ttgəd prinnipst ttp://www.com/	-						_	Time	Time
(at the second sec			Southern Union Gas Services	0 464	Monahans, Texas 79756	-5147	J true	7										Date 11/1	Date
Environmental Lab of Texas	A Xenco Laboratories Company	Project Manager: Rose Slade	Company Name Southern	Company Address: 801 Loop 464	City/State/Zip: Monahan	Telephone No: 432-940-5147	Sampler Signature		120042	EIEL D CODF	Surface	Trench @ 3'	Trench @ 9' 6"	Trench @ 12'	Trench @ 14' 6"		uctions:	Jul.	t
Envir	A Xenco Lab	Pro	Õ	Col	City	Tel	Sar	(lab use only)	<b>ORDER #:</b>	(yino əzu dai) # 8A	100	C02	003	100	500		Special Instructions:	Reinquisifed b	Relinquished by

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**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

Date/Time	11/1/11 8:26	
Lab ID # :	1/2 () -	
Initials:	Br	

## Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles? )	(Yes')	No	N/A	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No .		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	o.	Cooler 5 No.	
Ibs 3.0 °C Ibs °C Ibs °C	lbs	°C	lbs	°C

### Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:			
Corrective Action Tal	ken:		
	□ Cooling process has begun shortly after sa condition acceptable by NELAC 5.5.8	mpling event and out of temperature	

□Initial and Backup Temperature confirm out of temperature conditions

 $\Box$  Client understands and would like to proceed with analysis

## Analytical Report 431842

for

Southern Union Gas Services- Monahans

Project Manager: Rose Slade Line 2C 12-Inch

## 29-NOV-11

Collected By: Client



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



29-NOV-11



Reference: XENCO Report No: 431842 Line 2C 12-Inch 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 431842. 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. 431842 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,

anto

Brent Barron II Odessa Laboratory Manager

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### Sample Cross Reference 431842



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

Line 2C 12-Inch

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1@5'	S	11-15-11 13:00		431842-001
SB-1@15'	S	11-15-11 13:10		431842-002
SB-1@25'	S	11-15-11 13:20		431842-003
SB-1@35'	S	11-15-11 13:30		431842-004
SB-1@40'	S	11-15-11 13:35		431842-005
SB-1@45'	S	11-15-11 13:40		431842-006



Client Name: Southern Union Gas Services- Monahans Project Name: Line 2C 12-Inch



Project ID: Work Order Number: 431842 Report Date: 29-NOV-11 Date Received: 11/18/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-875412 Anions by E300 E300MI

Batch 875412, Chloride recovered below QC limits in the Matrix Spike. Samples affected are: 431842-005, -003, -001, -004, -002, -006. The Laboratory Control Sample for Chloride is within laboratory Control Limits



Contact: Rose Slade

Project Id:

### Certificate of Analysis Summary 431842 Southern Union Gas Services- Monahans, Monahans, TX Project Name: Line 2C 12-Inch



Date Received in Lab:	Fri Nov-18-11 11:25 am
Report Date:	29-NOV-11

Project Location: Lea County, NM					Inchoir Date.	11-AON-67	
					<b>Project Manager:</b>	Brent Barron II	
	Lab Id:	431842-001	431842-002	431842-003	431842-004	431842-005	431842-006
Auchicie Doguocial	Field Id:	SB-1@5'	SB-1@15'	SB-1@25'	SB-1@35'	SB-1@40'	SB-1@45'
naicanhay sistinut	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-15-11 13:00	Nov-15-11 13:10	Nov-15-11 13:20	Nov-15-11 13:30	Nov-15-11 13:35	Nov-15-11 13:40
Anions by E300	Extracted:						
	Analyzed:	Nov-21-11 11:53	Nov-21-11 11:53	Nov-21-11 11:53	Nov-21-11 11:53	Nov-21-11 11:53	Nov-21-11 11:53
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1830 45.6	503 23.9	378 8.90	732 23.5	186 8.94	225 10.5
Percent Moisture	Extracted:						
	Analyzed:	Nov-22-11 11:00	Nov-22-11 11:00	Nov-22-11 11:00	Nov-22-11 11:00	Nov-22-11 11:00	Nov-22-11 11:00
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		7.83 1.00	12.0 1.00	5.63 1.00	10.5 1.00	6.02 1.00	19.9 1.00
TPH By SW8015 Mod	Extracted:	Nov-23-11 13:00	Nov-23-11 13:00	Nov-23-11 13:00	Nov-23-11 13:00	Nov-23-11 13:00	Nov-23-11 13:00
	Analyzed:	Nov-24-11 19:54	Nov-24-11 20:26	Nov-24-11 21:01	Nov-24-11 21:38	Nov-24-11 22:15	Nov-24-11 22:52
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		493 326	205 170	86.1 15.9	56.4 16.7	22.1 15.9	ND 18.7
C12-C28 Diesel Range Hydrocarbons		2380 326	868 170	1910 15.9	629 16.7	238 15.9	ND 18.7
C28-C35 Oil Range Hydrocarbons		569 326	ND 170	151 15.9	70.8 16.7	22.6 15.9	ND 18.7
Total TPH		3440 326	1070 170	2150 15.9	756 16.7	283 15.9	ND 18.7

This analytical report, and the entire data package it represents, has been made for your excitavive and confidential tase. The interpretations and results expressed throughout this analytical report represent the best jugitement of XENCO Laboratorics. XENCO Laboratorics assumes no reponsibility 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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Brent Barron II Odessa Laboratory Manager

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### **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 NELA	AC Accreditation. ^ NELAC	or State program does not offer Accreditation at this time.

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### Project Name: Line 2C 12-Inch

ork Orders : 431842	, Sample: 431842-001 / SMP	Batcl	Project II			
Units: mg/kg	Date Analyzed: 11/24/11 19:54		RROGATE R		STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		120	100	120	70-135	
o-Terphenyl		61.9	50.1	124	70-135	
Lab Batch #: 875684	Sample: 431842-002 / SMP	Batch	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 11/24/11 20:26	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	110	99.9	110	70-135	
o-Terphenyl		55.3	50.0	111	70-135	
Lab Batch #: 875684	Sample: 431842-003 / SMP	Batch	h: 1 Matrix	·Soil		
Units: mg/kg	Date Analyzed: 11/24/11 21:01		RROGATE R		STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		101	100	101	70-135	
o-Terphenyl		48.7	50.0	97	70-135	
Lab Batch #: 875684	Sample: 431842-004 / SMP	Batch	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 11/24/11 21:38	SUI	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		108	99.7	108	70-135	
o-Terphenyl		53.7	49.9	108	70-135	
Lab Batch #: 875684	Sample: 431842-005 / SMP	Batch	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 11/24/11 22:15	SUI	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane		95.1	99.7	95	70-135	
				1		

\* 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



### Project Name: Line 2C 12-Inch

Work Orders: 431842			Project II			
Lab Batch #: 875684	Sample: 431842-006 / SMP	Batch				
Units: mg/kg	Date Analyzed: 11/24/11 22:52	SU	RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		97.8	99.8	98	70-135	
o-Terphenyl		45.8	49.9	92	70-135	
Lab Batch #: 875684	Sample: 614623-1-BLK / BL					
Units: mg/kg	Date Analyzed: 11/24/11 12:22	SU	RROGATE RE	<b>ECOVERY</b>	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		105	100	105	70-135	
o-Terphenyl		45.6	50.0	91	70-135	
Lab Batch #: 875684	Sample: 614623-1-BKS / BK	KS Batch	h: 1 Matrix:	:Solid		
Units: mg/kg	Date Analyzed: 11/24/11 11:22		RROGATE RE	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.011	Analytes		100		70.125	
1-Chlorooctane o-Terphenyl		44.5	100	89	70-135	
					/0-135	
Lab Batch #: 875684	Sample: 614623-1-BSD / BS				CODE (DA)	
Units: mg/kg	Date Analyzed: 11/24/11 11:52	501	RROGATE RE	LCOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		117	100	117	70-135	
o-Terphenyl		47.3	50.0	95	70-135	
Lab Batch #: 875684	Sample: 431842-006 S / MS	Batch	h: 1 Matrix:	:Soil		
Units: mg/kg	Date Analyzed: 11/25/11 01:16		RROGATE RE	COVERY S	STUDY	
ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		109	99.9	109	70-135	
o-Terphenyl		46.7	50.0	93	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



### Project Name: Line 2C 12-Inch

<b>Work Orders :</b> 431842,			Project II	):		
Lab Batch #: 875684	Sample: 431842-006 SD / N	ASD Bate	h: 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 11/25/11 01:53	SU	RROGATE RI	ECOVERY	STUDY	
ТРН Ву	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
A	Analytes			[D]		
1-Chlorooctane		118	99.7	118	70-135	
o-Terphenyl		51.6	49.9	103	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



### **BS / BSD Recoveries**



## Project Name: Line 2C 12-Inch

	Date Prepared: 11/21/2011	Batch #: 1	BLANK /BLANK SPI
		Sample: 875412-1-BKS	
Work Order #: 431842	Analyst: BRB	Lab Batch ID: 875412	Units: mg/kg

Project ID: Date Analyzed: 11/21/2011 Matrix: Solid

ts: mg/kg		BLANI	K /BLANK S	PIKE / B	LANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	ICATE 1	RECOVERY	RY STUDY	Y
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD

Flag

Analytes		(c)	[B]		[D]	[E]	Result [F]	[6]	0/	10/		
Chloride		<0.840	20.0	20.5	103	20.0	20.7	104	1	75-125	20	
Analyst: ASA		Da	te Prepar	Date Prepared: 11/23/2011	-			Date Ar	alyzed: 1	Date Analyzed: 11/24/2011		
Lab Batch ID: 875684	Sample: 614623-1-BKS	S	Batch #:	1 #: 1					Matrix: Solid	olid		
Units: mg/kg			BLAN	K /BLANK S	PIKE / B	LANK S	<b>BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY</b>	ICATE I	RECOVE	RY STUD	Y	Γ

Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	PIKE / B	LANK S	PIKE DUPL	ICATE 1	RECOVE	RECOVERY STUDY	Y	
TPH By SW8015 Mod	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[Y]	[B]	Result [C]	%R [D]	[E]	Duplicate Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	752	75	1000	770	77	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	810	81	1000	858	86	9	70-135	35	
									I		

Relativc 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

Version: 1.%



### Form 3 - MS Recoveries



Project Name: Line 2C 12-Inch

Work Order #: 431842						
Lab Batch #: 875412			Pr	oject ID	:	
Date Analyzed: 11/21/2011	Date Prepared: 1	/21/2011	F	Analyst: B	BRB	
QC- Sample ID: 431840-001 S	Batch #:	1		Matrix: S	oil	
Reporting Units: mg/kg	MA	TRIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	13.1	107	122	102	75-125	
Lab Batch #: 875412	13.1	107	122	102	75-125	
	Date Prepared: 1	1		102 Analyst: B		
Lab Batch #: 875412		1	ļ		BRB	<u> </u>
Lab Batch #: 875412 Date Analyzed: 11/21/2011 QC- Sample ID: 431840-007 S	Date Prepared: 1 Batch #:	1/21/2011	ļ	Analyst: B Matrix: S	BRB oil	DY
Lab Batch #: 875412 Date Analyzed: 11/21/2011	Date Prepared: 1 Batch #:	1/21/2011 1 TRIX / MA	A	Analyst: B Matrix: S C RECO	BRB oil	DY Flag

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative 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: Line 2C 12-Inch

Work Order #: 431842 Lab Batch ID: 875684 Date Analyzed: 11/25/2011 Reporting Units: mg/kg

Project ID:

Batch#: 1 Matrix: Soil Analyst: ASA

QC-Sample ID: 431842-006 S

Date Prepared: 11/23/2011

Reporting Units: mg/kg		M	ATRIX SPIKI	E / MATH	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	FE RECO	<b>DVERY S</b>	TUDY		
TPH By SW8015 Mod	Parent Sample Result		Spiked Sample S Result S	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]	[4]	[D]	[E]	Kesun [r]	70K	0/	70K	70KFU	
C6-C12 Gasoline Range Hydrocarbons	<18.7	1250	920	74	1240	979	79	9	70-135	35	
C12-C28 Dicsel Range Hydrocarbons	<18.7	1250	1070	86	1240	1150	93	7	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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Version: 1.%



Sample Duplicate Recovery



### Project Name: Line 2C 12-Inch

Work Order #: 431842

Lab Batch #: 875412			<b>Project I</b>	D:	
Date Analyzed: 11/21/2011 11:53 Date Pr	epared: 11/21/201	l Anal	lyst:BRB		
QC- Sample ID: 431840-001 D	Batch #: 1	Mat	rix: Soil		
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	13.1	13.1	0	20	
Lab Batch #: 875468					
Date Analyzed: 11/22/2011 11:00 Date Pr	epared: 11/22/201	l Anal	yst:BRB		
QC- Sample ID: 431842-001 D	Batch #: 1	Mat	rix: Soil		
Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	7.83	8.03	3	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

Relinquished by:	Sh an	Relinquished by	Special **Run B				6	- (	2-	4	5	R	/	LAB # (lab use only)	ORDER #:	(lab use only)								Xer
shed by:	annon Brow	shed by:	Special Instructions: ☆Run BTEX on sample with highest GRO value.**				s		2	s	S	S	S		R#: 451840	only)	Sampler Signature:	Telephone No:	City/State/Zip:		Company Address:	Company Name	Project Manager:	Xenco Laboratories
	2		nighest GRO value.				SB-1 @ 45	1 - Cic	3-1 @ 40'	SB-1 @ 35'	SB-1 @ 25'	SB-1 @ 15'	SB-1 @ 5'	FIELD CODE	r			(575)396-2378	Lovington, NM 88200		P.O. Box 301	Basin Environmental Service Technologies, LLC	Ben J. Arguijo	atories
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	12.	0700												Beginning Depth								ice Te		
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Final 1.000



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:	outhern i	Union Cons	
Date/Time:	11-18-11	11:25	
Lab ID # :	431842		
Initials:	70		

### Sample Receipt Checklist

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

### **Nonconformance Documentation**

Contact:	Contacted by:	Date/1	Time:
Regarding:			
Corrective Action Tak	en:		
Check all that apply:	□ Cooling process has begun shortly aft condition acceptable by NELAC □ Initial and Backup Temperature confirm	5.5.8.3.1.a.1.	-

Client understands and would like to proceed with analysis

### Analytical Report 441438

for

Southern Union Gas Services- Monahans

**Project Manager: Rose Slade** 

Line 2C 12-Inch

### Southern Union Gas

04-MAY-12

Collected By: Client



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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)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) 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: AZ00989): Arizona (AZ0758)



04-MAY-12

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

Reference: XENCO Report No: 441438 Line 2C 12-Inch 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 441438. 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. 441438 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. Val Ctr

Nicholas Straccione Project Manager

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### Sample Cross Reference 441438



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

Line 2C 12-Inch

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
North Wall	S	04-25-12 10:00		441438-001
South Wall	S	04-25-12 10:30		441438-002
West Wall	S	04-25-12 15:00		441438-003
East Wall	S	04-25-12 12:30		441438-004

### CASE NARRATIVE



Client Name: Southern Union Gas Services- Monahans Project Name: Line 2C 12-Inch



Project ID: Southern Union Gas Work Order Number: 441438 Report Date: 04-MAY-12 Date Received: 04/27/2012

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

### Analytical non nonformances and comments:

Batch: LBA-886999 TPH By SW8015 Mod SW8015MOD\_NM

Batch 886999, C6-C12 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 441438-002, -001, -004, -003.

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



Project Id: Southern Union Gas

Contact: Rose Slade

Southern Union Gas Services- Monahans, Monahans, TX Certificate of Analysis Summary 441438 Project Name: Line 2C 12-Inch



Date Received in Lab: Fri Apr-27-12 08:11 am Report Date: 04-MAY-12

					Project Manager: Nicholas Straccione
	Lab Id:	441438-001	441438-002	441438-003	441438-004
Andweie Pannetad	Field Id:	North Wall	South Wall	West Wall	East Wall
naisanhay sisting	Depth:				
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sampled:	Apr-25-12 10:00	Apr-25-12 10:30	Apr-25-12 15:00	Apr-25-12 12:30
Anions by E300	Extracted:				
	Analyzed:	Apr-30-12 14:00	Apr-30-12 14:00	Apr-30-12 14:00	Apr-30-12 14:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		11.3 8.65	14.4 4.32	196 9.07	248 4.37
BTEX by EPA 8021B	Extracted:	Apr-30-12 15:00	Apr-30-12 15:00	Apr-30-12 15:00	Apr-30-12 15:00
	Analyzed:	Apr-30-12 18:44	Apr-30-12 20:36	Apr-30-12 20:58	Apr-30-12 21:21
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.000998	ND 0.000996	ND 0.000996	ND 0.00100
Toluene		ND 0.00200	ND 0.00199	ND 0.00199	ND 0.00200
Ethylbenzene		ND 0.000998	ND 0.000996	ND 0.000996	ND 0.00100
m_p-Xylenes		ND 0.00200	ND 0.00199	ND 0.00199	ND 0.00200
o-Xylene		ND 0.000998	ND 0.000996	ND 0.000996	ND 0.00100
Total Xylenes		ND 0.000998	ND 0.000996	ND 0.000996	ND 0.00100
Total BTEX		ND 0.000998	ND 0.000996	ND 0.000996	ND 0.00100
Percent Moisture	Extracted:				
	Analyzed:	Apr-30-12 11:30	Apr-30-12 11:30	Apr-30-12 11:30	Apr-30-12 11:30
	Units/RL:	% RL	% RL	% RL	% RL
Percent Moisture		2.91 1.00	2.67 1.00	7.35 1.00	3.95 1.00
TPH By SW8015 Mod	Extracted:	May-01-12 15:00	May-01-12 15:00	May-01-12 15:00	May-01-12 15:00
	Analyzed:	May-01-12 20:08	May-01-12 20:35	May-01-12 21:01	May-01-12 21:28
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 15.4	ND 15.4	ND 16.2	ND 15.6
C12-C28 Diesel Range Hydrocarbons		ND 15.4	ND 15.4	ND 16.2	ND 15.6
C28-C35 Oil Range Hydrocarbons		ND 15.4	ND 15.4	ND 16.2	ND 15.6
Total TPH		ND 154	ND 154	C 91 UN	ND 15.6

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 jugiment 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

Vcrsion: 1.%

Mul Che

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 quantiation 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 Re	porting	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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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	



### Project Name: Line 2C 12-Inch

Work Orders: 441438	,		Project II	D: Southern U	Jnion Gas	
Lab Batch #: 886834	Sample: 441438-001 / SMP	Batc				
Units: mg/kg	Date Analyzed: 04/30/12 18:44	SU	RROGATE RI	ECOVERY	STUDY	
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0268	0.0300	89	80-120	
4-Bromofluorobenzene		0.0257	0.0300	86	80-120	
Lab Batch #: 886834	Sample: 441438-002 / SMP	Batc	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 04/30/12 20:36	SU	RROGATE RI	ECOVERY	STUDY	
	A polytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Analytes	0.0265	0.0300	88	80-120	
4-Bromofluorobenzene		0.0246	0.0300	88	80-120	
Lab Batch #: 886834	Sample: 441438-003 / SMP	Batc	n: 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 04/30/12 20:58		RROGATE RI		STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0	0.0254	0.0300	85	80-120	
4-Bromofluorobenzene		0.0245	0.0300	82	80-120	-
Lab Batch #: 886834	Sample: 441438-004 / SMP	Batcl	n: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 04/30/12 21:21	SU	RROGATE RE	ECOVERY S	STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0259	0.0300	86	80-120	
4-Bromofluorobenzene		0.0248	0.0300	83	80-120	
Lab Batch #: 886999	Sample: 441438-001 / SMP	Batcl	1: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 05/01/12 20:08	SU	RROGATE RE	ECOVERY S	STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		102	99.8	102	70-135	
o-Terphenyl		56.1	49.9	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



### Project Name: Line 2C 12-Inch

Work Orders : 441438		<b>D</b> (1)	5	D: Southern U	Jnion Gas	
Lab Batch #: 886999	Sample: 441438-002 / SMP Date Analyzed: 05/01/12 20:35		h: 1 Matrix: RROGATE RE	-	STUDY	
Units: mg/kg	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		102	99.9	102	70-135	
o-Terphenyl		56.0	50.0	112	70-135	
Lab Batch #: 886999	Sample: 441438-003 / SMP	Batch	h: 1 Matrix:	:Soil		
Units: mg/kg	Date Analyzed: 05/01/12 21:01	SUI	RROGATE RE	COVERY S	STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	103	100	103	70-135	
o-Terphenyl		57.7	50.1	115	70-135	
Lab Batch #: 886999	Sample: 441438-004 / SMP	Batch	h: 1 Matrix:	: Soil		
Units: mg/kg	Date Analyzed: 05/01/12 21:28		RROGATE RE		STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Thinky tes	101	99.7	101	70-135	
o-Terphenyl		56.1	49.9	112	70-135	
Lab Batch #: 886834	Sample: 621196-1-BLK / BI	LK Batch	h: <sup>1</sup> Matrix:	:Solid		
Units: mg/kg	Date Analyzed: 04/30/12 14:59	SUI	RROGATE RE	COVERY S	STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Thinky too	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene		0.0244	0.0300	81	80-120	
Lab Batch #: 886999	Sample: 621292-1-BLK / BI	LK Batch	h: 1 Matrix:	Solid		
Units: mg/kg	Date Analyzed: 05/01/12 19:15		RROGATE RE		STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		98.1	100	98	70-135	
o-Terphenyl		55.3	50.0	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



### Project Name: Line 2C 12-Inch

Vork Orders : 441438 Lab Batch #: 886834	3, Sample: 621196-1-BKS / B	BKS Batc		D: Southern U	Union Gas	
Units: mg/kg	Date Analyzed: 04/30/12 13:29		RROGATE RI		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4.510	Analytes					
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0293	0.0300	98 99	80-120	
	(21202 1 DVG / D	0.0296			80-120	
Lab Batch #: 886999	Sample: 621292-1-BKS / B				CONTINUE /	
Units: mg/kg	Date Analyzed: 05/01/12 18:21	50	RROGATE RI	ECOVERY	STUDY	
трн і	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		116	100	116	70-135	
o-Terphenyl		60.5	50.0	121	70-135	
Lab Batch #: 886834	Sample: 621196-1-BSD / B	SD Batcl	h: 1 Matrix	:Solid	1	
Units: mg/kg	Date Analyzed: 04/30/12 13:52		RROGATE RI		STUDY	
втех	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1 4 D'A	Analytes	0.0007	0.0000	[D]	00.100	
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0296	0.0300	99	80-120	
		0.0277	0.0300	92	80-120	
Lab Batch #: 886999	Sample: 621292-1-BSD / B					
Units: mg/kg	Date Analyzed: 05/01/12 18:48	50.	RROGATE RE	ECOVERY	STUDY	
ТРН Е	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		117	100	117	70-135	
o-Terphenyl		53.0	50.0	106	70-135	
Lab Batch #: 886999	Sample: 441607-001 S / MS	Batel	h: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 05/02/12 05:40	SU	RROGATE RE	ECOVERY S	STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		113	99.7	113	70-135	
o-Terphenyl		59.7	49.9	120	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



### Project Name: Line 2C 12-Inch

Work Orders: 441438,			Project II	D: Southern U	Jnion Gas	
Lab Batch #: 886999	Sample: 441607-001 SD / N	ASD Bate	h: 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 05/02/12 06:07	SU	RROGATE RI	ECOVERY	STUDY	
ТРН В	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
A	Analytes			[D]		
1-Chlorooctane		117	99.5	118	70-135	
o-Terphenyl		60.0	49.8	120	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



### **BS / BSD Recoveries**



## Project Name: Line 2C 12-Inch

 Work Order #: 441438
 441438

 Analyst: SMG
 Sample: 621196-1-BKS

 Lab Batch ID: 886834
 Sample: 621196-1-BKS

 Units: mg/kg
 Sample: 621196-1-BKS

Date Prepared: 04/30/2012

Batch #: 1

Project ID: Southern Union Gas Date Analyzed: 04/30/2012 Matrix: Solid

DECOVEDV CTUDV	RECUVERI SIUDI	
DI ANIC OTICE DI IDI ICATE DECOMED	<b>BLAINN STINE DUFLICALE</b>	
DI ANIC /DI ANIC CDILE /	DLAINN / DLAINN SFINE /	
	_	

BTEX by EPA 8021B	Blank Sample Result	Spike Added	Blank Spike Besult	Blank Spike	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup.	RPD %	Control Limits	Control Limits % DDD	Flag
Analytes	Ē	[B]	[C]	[ <b>D</b> ]	[E]	Result [F]	[6]	•	No/	/I Wa/	
Benzene	<0.00100	0.100	0.0995	100	0.100	0.0929	93	7	70-130	35	
Toluene	<0.00200	0.100	0.0988	66	0.100	0.0918	92	7	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0966	67	0.100	0.0877	88	10	71-129	35	
m_p-Xylencs	<0.00200	0.200	0.201	101	0.200	0.181	16	10	70-135	35	
o-Xylene	<0.00100	0.100	0.101	101	0.100	0.0912	16	10	71-133	35	
Analyst: SMG	Di	ate Prepar	Date Prepared: 04/30/2012	2			Date A	nalyzed: 0	Date Analyzed: 04/30/2012		
Lab Batch ID: 887203 Sample: 887203-1-BKS	SKS	Batch #:	1 #: 1					Matrix: Solid	bilo		

	SPIKE / BLANK
Batch #: 1	BLANK /BLANK SPIKE / BLANH
Sample: 887203-1-BKS	
Lab Batch ID: 887203	Linite: mg/kg

Units: mg/kg		BLAN	LANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	PIKE / B	ILANK S	PIKE DUPL	ICATE 1	RECOVERY	RY STUDY	Y	Π
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<0.840	20.0	20.6	103	20.0	20.2	101	2	75-125	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

Version: 1.%



### **BS / BSD Recoveries**



## Project Name: Line 2C 12-Inch

Work Order #: 441438 Analyst: ASA

Lab Batch ID: 886999

Date Prepared: 05/01/2012

Batch #: 1

Sample: 621292-1-BKS

**Project ID:** Southern Union Gas Date Analyzed: 05/01/2012 Matrix: Solid

IInite: mg/ke		BLANI	BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	X	
CIII13											
TPH By SW8015 Mod	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk		Control	Control	
	Sample Result	Added	Spike	Spike %B	Added	Spike	Dup.	RPD %	Limits % D	Limits	Flag
Analytes	E	[B]	[C]	[D]	[E]	Result [F]	[6]	0/	10/		
con france -											
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	778	78	1000	788	79	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1010	101	1000	1040	104	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

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### Form 3 - MS Recoveries



Project Name: Line 2C 12-Inch

Work Order #: 441438 Project ID: Southern Union Gas Lab Batch #: 887203 Date Prepared: 04/30/2012 Analyst: SMG Date Analyzed: 04/30/2012 QC- Sample ID: 441438-001 S Batch #: 1 Matrix: Soil MATRIX / MATRIX SPIKE RECOVERY STUDY Reporting Units: mg/kg **Inorganic Anions by EPA 300** Parent Spiked Sample Control Sample Spike Result %R Limits Flag Result Added [D] %R [C] [A] **[B]** Analytes 11.3 206 210 75-125 Chloride 96

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

BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries



Project Name: Line 2C 12-Inch

Date Analyzed: 05/02/2012 Lab Batch ID: 886999 Work Order #: 441438

Project ID: Southern Union Gas

Matrix: Soil -ASA Batch #:

QC- Sample ID: 441607-001 S

Date Prepared: 05/01/2012

Analyst:

Reporting Units: mg/kg		M	ATRIX SPIKE	/ MATH	IIX SPIF	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	<b>FE RECO</b>	<b>VERY S</b>	TUDY		
TPH By SW8015 Mod Analytes	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Ranoe Hydrocarhons	131	0111	863	99	1100	873	67	-	70-135	35	×
C12-C28 Diesel Range Hydrocarbons	109	1110	1100	68	1100	0111	91		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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Final 1.000

Page 14 of 17

Version: 1.%



Sample Duplicate Recovery



### Project Name: Line 2C 12-Inch

Work Order #: 441438

Lab Batch #: 887203			Project I	D: Southern	Union Gas
Date Analyzed: 04/30/2012 14:00 Date Prepa	red: 04/30/2012	2 Anal	yst:SMG		
QC- Sample ID: 441438-001 D Bate	h #: 1	Mat	rix: Soil		
Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[ <b>B</b> ]			
Chloride	11.3	10.8	5	20	
Lab Batch #: 886879					
Date Analyzed: 04/30/2012 11:30 Date Prepa	red: 04/30/2012	2 Anal	yst:WRU		
QC- Sample ID: 441438-001 D Bate	<b>h</b> #: 1	Mat	rix: Soil		
Reporting Units: %	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	2.91	2.92	0	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

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N O	North W.	FIELD CODE	Beg		1	іт 1000/		× Ice	н			ION	40	SOIL GW	нат 🗙	нат	_	_	teM eta		-	но			กย		
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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 / Sugs
Date/Time:	4.27.12 08:11
Lab ID # :	441438
Initials:	SGIAE

### Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Tes	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	CNO		
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	(Yes	No		
9. Container labels legible and intact?	Tes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	Tes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	<b>)</b> .	Cooler 5 No.	
Ibs 7.5 °C Ibs °C Ibs	°C lbs	°C	lbs	°C

### Nonconformance Documentation

Contact: Contacted by: Date/Time:\_\_\_\_ Regarding: Corrective Action Taken: • •

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

I GETD: THE EXCLUSION VALUE SERVICES, INC.5 ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB INC.EFT THANSPORTER IS NOW DELURED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS DB INC.EFT THANSPORTER IS NOW DELURED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS DB INC.EFT TRANSPORTER IS NOW DELURED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS DB INC.EFT TRANSPORTER IS NOW DELURED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS DB INC. THE EXCLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL EXEMPT FOONTHE RESPONSE. ON SERVICES INC.5 ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB INC. THE SCHORT ON, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL EXEMPT FOR THE MISHINGLY THAT THE WASTE MATERIAL DELIVERED BY INTEREMAL EXEMPT FOR THE MISHING THAT THE WASTE MATERIAL DELIVERED BY INTEREMAL EXEMPT FOR THE SUDDANCE SERVICES, INC.5 ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB INC. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCEPTANCE OF THE MATERIAL DELIVERED BY INTEREMAL EXEMPT FOR THE SOURCES, INC.5 ACCEPTANCE OF THE MATERIAL DELIVERED BY INC. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCULTY PERSENTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCULTY REPRESENTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCULTY REPRESENTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCULTY REPRESENTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCULTY REPRESENTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCULTY REPRESENTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCULTY REPRESENTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.5 ACCULTY REPRESENTER IS NOW DELIVERED AND THE ACCULTION OF THE INFIDIATION ADDITION OF THE ACCULTION ADDITION ADDITI
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Description:       C-133#         RC or API #       C-133#         RC or API #       C-133#         COLUME OF MATERIAL       [] BBLS.       C-133#         VOLUME OF MATERIAL       [] BBLS.       C-133#         VOLUME OF MATERIAL       [] BBLS.       C-133#         AS A CONDITION TO SUNDANCE SERVICES, INCIS ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 5001, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERRICL S WITCUE OF THE EXEMPTION AFFORED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASOUCTED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.         ACCONTREMACINE OF THE EXEMPTION AFFORED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASOUTED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.         ACCOLATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.         ACCOLATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.         ACCOLATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.         ACCONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET.         ACS OAS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIAL DELIVERS AND OTHER WATERS THA	Description:       C-133#         RC or API #       C-133#         COLUME OF MATERIAL       [] BBLS.       C-133#         COLUME OF MATERIAL       [] JBLS.       C-133#         A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPTION AFFORM THE RESOURCE CONSERVATION FILE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPTION AFFORMENT OR PRODUCTION OF CRUDE OIL OR NATUREL TO TIME, 40 U.S.C. 5 6501, et seq., 7HE NM HEALTH AND SAF. CODE 5 361.001 et seq., AND REGULATION SELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR RECOVERY ACT OF TAGE AT THE MATERIAL SHIPPED WITH THIS JOB THERETO, BY VIRTUE OF THE EXPLORATION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION DSUNDANCE SERVICES, INC.S ACCEPTANCE OF THE M	Description: Cho Bescription: Cho Cho API # C-133# RC or API # C-138 volume OF MATERIAL []BBLS		
RC or API#       C-133#         VOLUME OF MATERIAL       [] BBLS.       :       :       [] VARD       :       [] I         VOLUME OF MATERIAL       [] JBLS.       :       :       [] VARD       :       [] I         AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SKIPPED HEREWITH IS MATERIAL EXEMPTION AFFORDED FROM TIME TO F1005 KIELLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE SECONERY ACT OF 1976, AS AMENDED FROM TIME TO THERE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.         ALSD AS ACONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB THERE. TRANSPORTER AS OCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.         ALSD AS ACONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB THERE. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED	RC or API #       C-133#         COLUME OF MATERIAL       [] BBLS.       :	RRC or API #       C-133#         VOLUME OF MATERIAL       [] BBLS.       :       C-133#         VOLUME OF MATERIAL       [] BBLS.       :       :       C-133#         AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SFTICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SMATERIAL SECOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS TO TIME, 40 U.S.C. \$ 6601, et seq., THE NM HEALTH AND SAF. CODE \$ 361.001 et seq., AND R THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATEF		
VOLUME OF MATERIAL       [] JBLS.       :       :       [] VARD       :       [] IBLS.       :       [] I         AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICRT, OPERATORSHIPPER REPRESENTS AND WARRANTS THAT THE WASTER MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPTION THE RESOURCE, CONSERVATION AND REACUENCY ACT OF 1976, AS AMENDED FROMTIME TO TIME, 40 U.S.C. 5 6001, et seq., THE NM HEALTH AND SAF. COORD SAF AND DREAL ACED THERED, BY VIRTUE OF THE EXEMPTION. 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 MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S FACILITY FOR DISPOSAL.         THIS WILL CERTIFY that the above fransporter IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S FACILITY FOR DISPOSAL.         THIS WILL CERTIFY that 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.       FACILITY REPRESENTATION.	OLUME OF MATERIAL       [] BBLS.       :       NJ YARD       :       [] I         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 THERTOR, 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 IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCUT SERVICES SHIPPED WITH THE MATERIAL SHIPPED WITH THE WASTER ACTION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB OF	VOLUME OF MATERIAL [ ] BBLS. : X J YARD Z : : X A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SETTICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SMATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND R THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATEF	: [ ] ALS SHIPPED WITH THIS JOB RIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME AND REGULATIONS RELATED WATERS, AND OTHER WASTE E OIL OR NATURAL GAS OR	
As a condition to sundance services, INC:S acceptance of THE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1996, 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 VIRTULE 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 GOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELLVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S ACCUTTY FOR DISPOSAL. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER IS NOW DELLVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above fransporter 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. BACILITY REPRESENTATION	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 IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S FACILITY FOR DISPOSAL. <b>THS WILL CERTIFY</b> that the above Transporter Ioaded 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. <b>DRIVE:</b>	AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIALS SH TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL S MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND R THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATER	ALS SHIPPED WITH THIS JOB RIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME AND REGULATIONS RELATED WATERS, AND OTHER WASTE E OIL OR NATURAL GAS OR	
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. <b>THIS WILL CERTIFY</b> 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. <b>DRIVER:</b> <b>DRIVER:</b> <b>FACILITY REPRESENTATIVE:</b>	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. <b>THIS WILL CERTIFY</b> 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: Note that the material was delivered without incident.	ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL GEOTHERMAL ENERGY.		
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:       Image: Construction of the material was delivered without incident.         FACILITY REPRESENTATIVE:       Image: Construction of the material was delivered without incident.	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: Control of the context of the material was delivered without incident.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS S TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATER OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUND, FACILITY FOR DISPOSAL.	II.ALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY SUNDANCE SERVICES, INC'S	
DRIVER: Controlet Control Cont		<b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Trans above described location, and that it was tendered by the above described shipper. This will ce materials were added to this load, and that the material was delivered without incident.	s Transporter Statement at the will certify that no additional	
FACILITY REPRESENTATIVE:	(SIGMATURE)	DRIVER: NO AMON		
FACILITY REPRESENTATIVE:				
	FACILITY REPRESENTATIVE:	FACILITY REPRESENTATIVE:	~	

LEASE OPERATOR/SHIPPER/COMPANY:
LEASE NAME: / 177 2 0 - 1211
TRANSPORTER COMPANY: 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
DATE: 1/27-12 VEHICLE NO: 01 GENERATOR COMPANY 71710 510 COMPANY
CHARGE TO: CHARGE TO: RIG NAME AND NUMBER
TYPE OF MATERIAL
[ ] Production Water [ ] Drilling Fluids [ ] Rinsate
Soil
[ ] Solids [ ] BS&W Content: [ ] Call Out
Description:
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.
<b>THIS WILL CERTIFY</b> 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: ALL TURE
(SIGMATURE)
White - Sundance Canary - Sundance Acct #1 Pink - Transporter

PO. BOX 1737 Eurice, New Mexico 88231 P.O. Box 1737 Eurice, New Mexico 88231 (575) 394-2511	LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY: DATE: ////////////////////////////////////	Production Water       [ ] Drilling Fluids       [ ] Rinsate         ] Tank Bottoms       [ ] Contaminated Soil       [ ] Jet Out         ] Solids       [ ] BS&W Content:       [ ] Call Out	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL 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 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: FACILITY REPRESENTATIVE:
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LEASE OPERATOR/SHIPPER/COMPANY: <ul> <li>LEASE NAME:</li> <li>LEASE NAME:</li> <li>TIME</li> <li>AM/PM</li> </ul> TRANSPORTER COMPANY: <ul> <li>TIME</li> <li>AM/PM</li> <li>TIME</li> <li>AM/PM</li> </ul> TRANSPORTER COMPANY: <ul> <li>TIME</li> <li>AM/PM</li> <li>TIME</li> <li>AM/PM</li> </ul> DATE: <ul> <li>VEHICLE NO:</li> <li>SUENAMY:</li> <li>TIME</li> <li>AM/SNAME:</li> <li>AM/SNAME:</li> <li>AM/PM</li> </ul> CHARGE TO: <ul> <li>VEHICLE NO:</li> <li>AND NUMBER</li> <li>AND NUMBER</li> <li>AND NUMBER</li> <li>I Production Water</li> <li>I Drilling Fluids</li> <li>I Rinsate</li> </ul>
E. Company: Time Time Time Time Company: Time Company: Time Company Compan
ER COMPANY:     The form of
2.1     2.1     VEHICLE NO:     7.3     GENERATOR COMPANY MAN'S NAME:       S.U.C.     If IS NAME       S.U.C.     AND NUMBER       TYPE OF MATERIAL       [] Production Water     [] Drilling Fluids       [] Production Water     [] Drilling Fluids
TYPE OF MATERIAL [ ] Drilling Fluids
TYPE OF MATERIAL [] Drilling Fluids
[ ] Drilling Fluids
[ ] Tank Bottoms [ ] Lot Out [ ] Jet Out
[ ] Solids [ ] BS&W Content: [ ] Call Out
Description:
RRC or API # C-133#
VOLUME OF MATERIAL []BBLS. : K] YARD 2 : []
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.
<b>THIS WILL CERTIFY</b> 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.
ISIGMATURE SIGMATURE
(SIGMATURE) (SIGMA

P.O. BOX 1737 EUNICE SERVICES, Inc. TICKET No. 202883 P.O. BOX 1737 EUNICE, NEW MEXICO 88231 (575) 394-2511	LEASE OPERATOR/SHIPPER/COMPANY: $S_{(1,C)}$ LEASE NAME: $f_{1,D}$ , $2(1,-f_{2})$	TER COMPANY: TINE A TINE OF A	DATE: 1, 277-72 VEHICLE NO: 73 GENERATOR COMPANY OF A PARTOR COMPANY	CHARGE TO:	TYPE OF MATERIAL	[ ] Production Water [ ] Drilling Fluids [ ] Rinsate	[ ] Tank Bottoms [M] Contaminated Soll [ ] Jet Out	[ ] Solids [ ] BS&W Content: [ ] Call Out	Description:	RRC or API # C-133#	VOLUME OF MATERIAL []BBLS. : N YARD : []
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LEASE OPERATOR/SHIPPER/COMPANY: 51/G LEASE NAME: 20, 50, 50, 72 - 72	DATE: 1 27-12 VEHICLE NO: 06 GENERATOR COMPANY AT 570 LET MAN'S NAME CHARGE TO: 5/19 TYPE OF MATERIAL	[] Production Water       [] Drilling Fluids       [] Rinsate         [] Tank Bottoms       M Contaminated Soil       [] Jet Out         [] Solids       [] BS&W Content:       [] Call Out         Description:       []       [] Call Out	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.	<b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at 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: FURMENDED ISIGNATURED FACILITY REPRESENTATIVE: ISIGNATURED	White - Sundance Canary - Sundance Acct #1 Pink - Transporter Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com
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LEASE OPERATOR/SHIPPER/COMPANY: 5/16	
-	
R COM	TIME///:55(AM/PM
DATE: 4.27-12 VEHICLENO: 06	GENERATOR COMPANY ALC 4 STRILL
CHARGE TO: 521G	RIG NAME AND NUMBER
TYPE OF MATERIAL	
[ ] Production Water [ ] Drilling Fluids	[ ] Rinsate
ottoms	
[ ] Solids [ ] BS&W Content:	[ ] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS. : X YARD	121]
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.	THE MATERIALS SHIPPED WITH THIS JOB WASTE MATERIAL SHIPPED HEREWITH IS RY ACT OF 1976, AS AMENDED FROM TIME 1.001 et seq., AND REGULATIONS RELATED PRODUCED WATERS, AND OTHER WASTE DN OF CRUDE OIL OR NATURAL GAS OR
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.	15 THE MATERIALS SHIPPED WITH THIS JOB DNLY THE MATERIAL DELIVERED BY SPORTER TO SUNDANCE SERVICES, INC'S
<b>THIS WILL CERTIFY</b> 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.	esented by this Transporter Statement at the 1 shipper. This will certify that no additional nout incident.
DRIVER: CULLED DAVIES	
FACILITY REPRESENTATIVE: 3, 770 (3417)	
White - Sundance Canary - Sundance Acct #1	Pink - Transporter

LEASE OPERATOR/SHIPPER/COMPANY:       LEASE MANE:       TEANSEOFTER COMPANY:       TEANSEOFTER COMPANY:       DATE:       DATE:       TEANSEOFTER COMPANY:       DATE:       TEANSEOFTER COMPANY:       DATE:       TANEPOFTER COMPANY:       DATE:       TAPE OF MATERIAL       [] Poduction Water     [] Priling Fluids     [] Rineate       TYPE OF MATERIAL       [] Jak Battoms     [] Solids     [] Jak Out       INPER OF MATERIAL       [] Jak Battoms     [] Solids     [] Jak Out       DESCRIPTION       DESCRIPTION:     [] Solids     [] Jak Out       DESCRIPTION       DESCRIPTION:     [] Solids     [] Jak Out       DESCRIPTION       DESCRIPTION:     [] Solids     [] Jak Out       OULINE OF MATERIAL       [] Solids     [] Jak Out       DESCRIPTION       NULLINE APLODATION NO SULPODATION FOR CONSTRACTORS ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB       NULLINE APLODATION NO SULVACE SERVICES, NCES ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB       ACOUNTION TO SULVACE SERVICES, NCES A	PO. Box 1737 Eunice, New Mexico 88231 TICKET No. 202856
R COMPANY:     COMPANY:       VEHICLE NO:     CENERATOR COMMANY:       VEHICLE NO:     CONDITION TO SUNDANCE SERVICES, INC.:S ACCONTINUMERIA       Inption:     I ] Solids     I ] BS&W Content:       I ] Solids     I ] BS&W Content:     I ] Call       Inption:     I ] Solids     I ] BS&W Content:       Inption:     I ] Solids     I ] BS&W Content:     I ] Call       MATERIAL     I ] SOLIDS     I ] SOLIDS     I ] SOLIDS       MATERIAL     I ] SOLIDS     I ] SOLIDS     I ] SOLIDS       MATERIAL     I ] SOLIDS     I ] SOLIDS     I ] SOLIDS       MATERIALS     I ] SOLIDS     I ] SOLIDS     I ] ] SOLIDS       MATERIALS     I ] SOLIDS     I ] SOLIDS     I ] SOLIDS       MATERIALS     I ] SOLIDS     I ] SOLIDS     I ] SOLIDS       MATERIALS     I ] SOLIDS     I ] SOLIDS     I ] SOLIDS       AUDICIDIN TO SUNDANCE SERVICES, INC.S ACCEPTANCE OF THE MATERIALS SI     I ] SOLIDS       AUDIC	LEASE OPERATOR/SHIPPER/COMPANY: 500
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Description:       C-133#         RIC or API #       C-133#         RIC or API #       C-133#         NOLUME OF MATERIAL       [] BBLS.       :       *] VARD       :       [] 1         NOLUME OF MATERIAL       [] BBLS.       :       *] VARD       :       [] 1         VOLUME OF MATERIAL       [] BBLS.       :       *] VARD       :       [] 1         AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED HIERRAL SHIPPED WITH THIS JOB TICKET.       MATERIAL EXEMPTER OR NATURE RECOVERS, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET.         ASOCIATED WYITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.       Inc.         ASOCIATED WYITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.       Inc.         ASOCIATED WYITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.       Inc.         ASOCIATED WYITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.       Inc.         ASOCIATED WYITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR CRUDE OIL OR NATURAL GAS OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR CRUDE OIL OR NATURAL GAS OR CRUDE OIL OR NATURAL GAS OR CRUD	Solids [ ] BS&W Content:
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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: TANNAR TOTAL CERTIFY INTO THIS MALLORED TO THE MATERIAL DELIVERED BY THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that the material was delivered without incident. DRIVER: TANNAR DRIVER: TANNAR Mite - Sundance Contact Driver Contact Dri	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.
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: To material 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: To material was delivered without incident.         MILT REPRESENTATIVE: To material was delivered without incident.	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.
SIGMTURE)	<b>THIS WILL CERTIFY</b> 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.
(signiture)	
MATURE) Canary - Sundance Acct #1	
	MATURE) Canary - Sundance Acct #1

Description:       C-133#         RIC or API #       C-133#         VOLUME OF MATERIAL       [] JBLS.       :       II         AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOLVER, CONSERVATION AND RECOVERY ACT OF 1976, AS MENDED FROM THE TO TIME, 40 U.S.C. 5 6901, et seq., THE NM HEALTH AND SAF. CODE \$ 361.001 et seq., AND RECULATIONS RELATED THERETOR 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 MATERIAL SHIPPED WITH THIS JOB TICKET. TRANSPORTER RED REVIEMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.         ALSO AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVERED INTO THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCUT PROVE DESCRIPTION OF CRUDE OIL OR NATURAL GAS OR DELIVERS INC:S ACCUT AND ONLY THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S ACCUT AND ONLY THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S FAULTY REPRESENTANCE OF THE MATERIAL DELIVERS INC:S ACCUT AND ONLY THE MATERIAL DELIVERS INC:S ACCUT AND ONLY THE MATERIAL DELI	VOLUME OF MATERIAL       [] JBBLS.       :		Description:	<ul> <li>[ ] BS&amp;W Content:</li> </ul>	ater [ ] Drilling Fluids	TYPE OF MATERIAL
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FACILITY REPRESENTATIVE:
White - Sundance Canary - Sundance Acct #1 Pink - Transporter

LEASE OPERATOR/SHIPPER/COMPANY: D.C.I.C. LEASE NAME: //j, 2/ -/ 2/
TRANSPORTER COMPANY: 77, 10/0 AV 77, 10/0 TIME 2:25 AM/PM
DATE: 1/2/1/2 VEHICLE NO: 0/ GENERATOR COMPANY 7/1/5 Stort en
CHARGE TO: 5/3 CM
TYPE OF MATERIAL
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[ ] Tank Bottoms [ ] Contaminated Soil [ ] Jet Out
0/D
RRC or API # C-133#
VOLUME OF MATERIAL [ ] BBLS. : XJ YARD /2 : [ ]
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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<b>THIS WILL CERTIFY</b> 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: MIL D.M.C.
FACILITY REPRESENTATIVE:
NATURE)
White - Sundance Canary - Sundance Acct #1 Pink - Transporter

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TRANSPORTER COMPANY: TO DE A TO TO CONTRACTION	TIME 2:2/ AM/PM
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[ ] Tank Bottoms     [ ] Contaminated Soil       [ ] Solids     [ ] BS&W Content:	0il [ ] Jet Out [ ] Call Out
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<b>THIS WILL CERTIFY</b> 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.	resented by this Transporter Statement at the ad shipper. This will certify that no additional 'hout incident.
DRIVER: ULLI AMAR GIGNATURE)	
FACILITY REPRESENTATIVE	2
White - Sundance Canary - Sundance Acct #1	Pink - Transporter

LEASE OPERATOR/SHIPPER/COMPANY: 5/1/9 LEASE NAME: 71ME 7/2/1 TRANSPORTER COMPANY: 71ME 7/2/2 DATE: 7/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2
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210-1 ZVEHICLENO:
CHARGE TO: CLUT AND NUMBER
TYPE OF MATERIAL
[ ] Production Water [ ] Drilling Fluids [ ] Rinsate
[ ] Tank Bottoms [ ] Contaminated Soil [ ] Jet Out
[ ] Solids [ ] BS&W Content: [ ] Call Out
Description:
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.
<b>THIS WILL CERTIFY</b> 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)
White - Sundance Canary - Sundance Acct #1 Pink - Transporter

LEASE OPERATOR/SHIPPER/COMPANY: SUC	
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IRANSPORTER COMPANY: 71, 71, 71, 71, 71, 71, 71, 71, 71, 71,	W TIME C. SIKAM/PM
CHARGE TO: S// C7 RIG NAMER	
TYPE OF MATERIAL	
[ ] Production Water [ ] Drilling Fluids [	[] Rinsate
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[ ] Solids [ ] BS&W Content:	[ ] Call Out
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RRC or API # C	C-133#
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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.	LS SHIPPED WITH THIS JOB RIAL SHIPPED HEREWITH IS 6, AS AMENDED FROM TIME IND REGULATIONS RELATED ND REGULATIONS RELATED VATERS, AND OTHER WASTE OIL OR NATURAL GAS OR
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<b>THIS WILL CERTIFY</b> 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.	Transporter Statement at the will certify that no additional
FACILITY REPRESENTATIVE:	
Canary - Sundance Acct #1	Dials . Transportar

TYPE OF MATERIAL         TYPE OF MATERIAL       I Production Water       [ ] Production Water       [ ] Drilling Fluids       [ ] Rinsate         [ ] Tank Bottoms       K Contaminated Soil       [ ] Jet Out       [ ] Soilds       [ ] Jet Out         Description:       K Contaminated Soil       [ ] Jet Out       [ ] Soilds       [ ] Soilds       [ ] Soilds       [ ] CallOut         Description:       K Contaminated Soil       [ ] Soluct       [ ] CallOut       [ ] Soilds       [ ] Soilds       [ ] Soilds       [ ] CallOut         Description:	DRIVER: There and the	aterials were added to this load, and that the material was delivered without incident.	<b>HIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the love described location, and that it was tendered by the above described shipper. This will certify that no additional aterials were added to this load, and that the material was delivered without incident.	CKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY PERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S CILITY FOR DISPOSAL.	ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB	ssociated with the exploration, development or production of crude oil or natural gas or cothermal energy.	D 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	CKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS ATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME	[]BBLS: XJ YARD //:		Description:	[ ] BS&W Content:	K1 Contaminated Soil	[ ] Drilling Fluids	TYPE OF MATERIAL	CHARGE TO: SUICE AND RIG AME AND NUMBER	4-26-12 VEHICLE NOP 13 GENERATOR COMPANY CLICH STORICO	TRANSPORTER COMPANY: TUDE NO TOUCH TIME 2:02 AM/PM	LEASE NAME: LIDE DE-121	LEASE OPERATOR/SHIPPER/COMPANY:	P.O. Box 1737 Eunice, New Mexico 88231 IICKEI NO. 2027/9	IICKEI NO.	ORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC'S ove Transporter loaded the material represented by this Transporter Statement at the at it was tendered by the above described shipper. This will certify that no additional and that the material was delivered without incident.
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above described location, and that it was tendered by the above described shipper. Ihis will certify that no additional materials were added to this load, and that the material was delivered without incident.	MAIE KALL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement of the above Transporter for 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 EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXEMPTION 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 MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL 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 substruct of the material represented by this Transporter Statement at the substruct represented by the substruct Statement at the substruct represented by this Transporter Statement at the substruct represented by this Transporter Statement at the substruct at the substruct represented by this Transporter Statement at the substruct represented by this Transporter Statement at the substruct at the substruct represented by this Transporter Statement at the substruct represented by this Transporter Stat
FACILITY REPRESENTATIVE:	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 SENTATIVE:  FACILITY REPRESENTATIVE:

LEASE OPERATOR/SHIPPER/COMPANY:       Itelests Interaction of the state of the sta
ER COMPANY:       TIME
CHARGE TO:     CHARGE TO:     CHARGE TO:       CHARGE TO:     CHARGE TO:     TYPE OF MATERIAL       TYPE OF MATERIAL     I Production Water     I Drilling Fluids       I ank Bottoms     Monounsed     I Solids       I solids     I Solids     I Solids       Description:     I Solids     I Solids       Description:     I Solids     I Solids       Description:     I Solids     I Solids       RRC or API #     C-133#       VOLUME OF MATERIAL     I BBLS.       A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB       RCKET, OPERATORSHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED WITH THIS JOB       RACKT, OPERATORSHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED WITH THIS JOB       RATERIAL     I BBLS.       AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB       RCKET, OPERATORSHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED WITH THIS JOB       RATERIAL     I BBLS.       AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB       RCKET, OPERATORSHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED WITH THIS JOB       RATERIAL     I BBLS.       AS A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THE REPRESENTS AND WARRANT SHIPED WITH THE REPRESENTS AND WARRANTS AND RECOURSE, ACCEPTANCE
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[ ] Solids       [ ] BS&W Content:       [ ] Call Out         Description:       Description:       C 133#         RRC or API #       C-133#         NOLUME OF MATERIAL       [ ] BBLS.       :       XJ YARD         A CONDITION TO SUNDANCE SERVICES, INC:S ACCEPTANCE OF THE MATERIAL 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       THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE
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FACILITY REPRESENTATIVE:
(SIGMATURE) White - Sundance Canary - Sundance Acct #1 / Pink - Transporter

LEASE OPERATOR/SHIPPER/COMPANY:     CLEASE AMAGE       LEASE NMIE:     TRANSPORTER COMPANY:     TANE       TRANSPORTER COMPANY:     TANE     ADMONIA       TRANSPORTER COMPANY:     TYPE OF     ADMONIA       DATE:     DATE:     TANE       DATE:     DATE:     TYPE OF       MATERIAL     I     Production Water     I       TANSPORTER COMPANY:     TYPE OF     ADMTERIAL       DATE:     DATE:     ADMONERS       CHARGE TO:     TYPE OF MATERIAL     I       TANDON     Discription:     ADMONERS       Description:     Description:     I       Description:     AS A CONDITON TO SUNDANCE SERVICES, MCS ACCETTANCE OF THE MATERIAL SHIPPED WITH THIS JOB       MILE:     J     J       MATERIAL     I     I       MILE:     J     C133#       VOLUME OF MATERIAL     I     I	1162-496 (c/c)
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RIC or API#       C-133#         WOLUME OF MATERIAL       [] BBLS.       :<	[ ] Solids [ ] BS&W Content:
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(SIGNATURE)	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:       DRIVER:
Canary - Sundance Acct #1	
	Canary - Sundance Acct #1

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