Administrative/Environmental Order



AE Order Number Banner

Report Description

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



App Number: pGRL1011656482

1RP - 2488

SOUTHERN UNION GAS COMPANY

2/12/2016

District I 1625 N. French District II 1301 W. Grand District III 1000 Rio Brazo District IV 1220 S. St. Fran	Avenue, Arto s Road, Azte	csia. NM 88210 c. NM 87410		Energy Miner Oil Con 1220 Sc	als anser	New Mex and Natura vation Div St. France, NM 875	Resources vision is Dr.	RECEIVED Form C-141 Revised October 10, 2003 APK 23 2010 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form				
1.1			Rel	ease Notificat	tion	n and Co	orrective A	ction	1			2
						OPERA'	a state of the second state of the second state of the Property of the second state of the		🛛 Initi	al Report		Final Report
		outhern Unit		ervices		Contact: Ro	se Slade No. 432-940-51	47	in the second	- Contraction		
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L	26	24	37					1		Lea Count	у	
Type of Rele	ase: crude	oil/produced		11.384 NATU		OF REL	EASE AP1 # Release: 5 barre			8922. Recovered: 0		00
Source of Re	elease: 6" p	ipeline		in the second	•	4/19/2010	lour of Occurrent at 11:30 pm (not at the time)		Date and At 7:45 a	Hour of Dis m	covery	: 4/20/2010
Wus Immedi	ate Notice		Yes [No 🗌 Not Requ	ired		Whom? Jeoffer	y Leckin	ng (OCD)			
By Whom?		1999 B				and the state of t	lour: 4/20/2010 a		and the second se		4.83	
Was a Water	course Rea	ched?	Yes D	No		If YES, Vo	olume Impacting	the Wat	ercourse.			
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Signature	Rox	Dla	de				OIL CON		ATION	DIVISIO	<u>N</u>	
Printed Nam	e: Rosa L.	Slade		in a set		Approved by	ENV ENOINE District Supervis	SOF: C	Shappier	1 delem		
Title: EHS C	ompliance	Specialist				Approval Da	10:04/26)	10	Expiration	Date: Otel	28	10
										A CONTRACTOR OF A CONTRACTOR		

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

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

OPERATOR Initial Report Final Report Contact Rose Slade Name of Company Southern Union Gas Services Telephone No. 432.940.5147 Address 801 South Loop 464, Monahans, Texas 79756 Facility Name Lea County Field Dept. Facility Type 6" Lateral Mineral Owner Surface Owner Gerald Doom API No. 30-025-38822.00.00 LOCATION OF RELEASE Township Range Feet from the North/South Line Feet from the East/West Line Unit Letter Section County 37E L 26 24S Lea Latitude_32 11.384 ____ Longitude_103 08.154__ NATURE OF RELEASE Type of Release Crude Oil/Produced Water Volume of Release 5 barrels Volume Recovered none Date and Hour of Occurrence Date and Hour of Discovery 4/20/2010 at Source of Release 6 inch pipeline 4/19/2010 at 11:30 pm (not 7:45 am reportable at the time) If YES, To Whom? Geoffrey Leking Was Immediate Notice Given? Yes No Not Required By Whom? Rose Slade Date and Hour 4/20/2010 at 8:58 am Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes No HOBBS OCD If a Watercourse was Impacted, Describe Fully.* DEC 1 2 2012 RECEIVED Describe Cause of Problem and Remedial Action Taken.* The line developed a split on the 6 inch steel line. Line was replaced with approximately 100 feet of poly pipe. EHS was notified and I immediately dispatched an environmental company to the site to conduct remediation activities. Describe Area Affected and Cleanup Action Taken.* An area measuring approximately 3' x 25' was impacted by the leak. The site was excavated, soil samples were collected from the excavation and submitted to the laboratory for benzene, BTEX, TPH and chloride analysis. Laboratory results indicated benzene, BTEX, TPH, and chloride concentrations were less than the NMOCD Regulatory Guidelines. Approximately 468 cubic yards of impacted soil was transported to Doom Land Farm, LLC for disposal. The excavation was backfilled with locally obtained non-impacted soil. Please reference the NOVA Safety and Environmental Soil Remediation Summary and Site Closure Request dated November 2012 for further details. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. ATION DIVISION OII Signature: Approved by Environmental Specialis Sinmental Specialist Printed Name: Rose Slade Approval Date: 12/12/12 Expiration Date: -Title: EH&S Specialist Attached 🗌 Conditions of Approval: E-mail Address: rose.slade@sug.com 1RP-10.4.2488 Date: 12/13/12 Phone: 432.940.5147

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rel	ease Notifie		and Co OPERA		ction	124	al Report 🛛 Final Report
Name of Co	ompany So	outhern Unio	n Gas Se	rvices		Contact Ros		34 6		
		oop 464, Mo					No. 432.940.514	17		
		ounty Field D		Contraction of the			e Trunk MB-1	14 M	1.1.1.1	
Surface Ow	mer State	of New Mexi	ico	Mineral (Owner S	tate of New	Mexico	- And	API No	
1. 19 19		10.00	w St	LOC	ATION	OF RE	LEASE		1 6 2. 1	Sec. Market Street
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County
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98 - St. 26	ALC: A	4-51	Latit	ude_32 07.526	1. 40	Longitude	103 09.695	1.14	× 83	
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Type of Rele	ease Crude (Dil/Natural Ga	as			Volume of	Release 10 barre		Volume I	Recovered 3.5 barrels
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Was Immedi	iate Notice (Yes] No 🖾 Not R	equired			k was d		y NMOCD field inspector
By Whom?	1.	New Street	1		2		Iour 4/23/07 at 12			
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submitted to concentratio	the laborate	ory for benzen s than the NM	ne, BTEX, OCD Reg	TPH and chlorid	e analysis s. The ex	s. Laborator	y results indicated backfilled with t	d benzer the stock	he, BTEX, T	tion and stockpiled soil and IPH, and chloride Please reference the NOVA
I hereby cert regulations a public health should their or the enviro	tify that the all operators of the environment operations lonment. In a	information g are required to ironment. The have failed to	iven abov to report a e acceptan adequatel DCD acce	e is true and comp nd/or file certain ce of a C-141 rep y investigate and	olete to the release no ort by the remediate	ne best of my otifications a e NMOCD m e contaminat	knowledge and u nd perform correct arked as "Final R ion that pose a thr	understa ctive act Report" of reat to g	nd that purs tions for rel does not rel round wate	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other
Signature: Printed Nam	He: Rose Sla	de	ad	<u>-</u>		Approved by	OIL CON	R	rey	DIVISION SeRano Specialist
Title: EH&S	a a a	A CEL		A have		Approval Da	te: 12/12/12	-	Expiration	Date: -
49. 3. K		ade@sug.com				Conditions o		-		Attached
Date: 12/13/	/12	Phone:	432.940.5	5147		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	104			1RP-1848

* Attach Additional Sheets If Necessary



SOIL REMEDIATION SUMMARY

AND SITE

CLOSURE REQUEST

Southern Union Gas Services 6-Inch Lateral Historical Release Site Lea County, New Mexico UNIT LTR "L" (NW ¼ /SW ¼), Section 26, Township 24 South, Range 37 East Latitude 32° 11.384' North, Longitude 103° 08.154' West NMOCD Reference # 1RP-2488



Prepared For:

Southern Union Gas Services 801 South Loop 464 Monahans, Texas 79756

HOBBS OCD

Prepared By:

NOVA Safety & Environmental 2057 Commerce Midland, Texas 79703 DEC 1 2 2012

RECEIVED

November 2012

Camille J. Brvant Project Manager

Brittan K. Byerly, P.G. President

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Appendix B – Photographs
Appendix C – Manifests
Appendix D – Release Notification and Corrective Action (Form-C-141)

1.0 INTRODUCTION

Nova Safety & Environmental (NOVA), on behalf of Southern Union Gas Services (SUGS), has prepared this Soil Remediation Summary and Site Closure Request for 6-Inch Lateral Historical Release Site. The legal description of the release site is Unit Letter "L" (NW ¼ SW ¼), Section 26, Township 24 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by Mr. Gerald Doom. The release site GPS coordinates are 32° 11.384' North and 103° 08.154' West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site Details Schematic and Confirmation Soil Sample Locations Map. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

On April 20, 2010, SUGS discovered a release of crude oil and produced water had occurred from a six (6) inch low pressure steel pipeline. The cause of the release was attributed to failure of a segment of the steel pipeline. SUGS replaced the steel pipeline with approximately one hundred (100) feet of poly line. SUGS submitted the Release Notification and Corrective Action (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on April 23, 2012. The C-141 indicated approximately five (5) barrels of fluids were released from the pipeline, with no recovery. General photographs of the site are provided as Appendix B.

SUGS has researched and identified various historical release sites located in New Mexico. At the request of SUGS, NOVA has reviewed the historical data for these sites and conducted the necessary activities to ensure the sites meet the criteria for closure in accordance with NMOCD regulatory guidelines.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database did not identify the average depth to groundwater information for Section 26, Township 24 South, Range 37 East. A reference map utilized by the NMOCD indicated depth to groundwater at the release site should be encountered at approximately fifty (50) feet below ground surface (bgs). The depth to groundwater at the 6-Inch Lateral Historical Release Site results in a score of twenty (20) points being assigned to the site, based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

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

The NMOCD guidelines indicate the 6-Inch Lateral Historical Release Site has ranking score of twenty (20). Based on this score, the soil remediation levels for a site with a ranking score of twenty (20) points are as follows:

- Benzene 10 mg/Kg (ppm)
- BTEX 50 mg/Kg (ppm)
- TPH 100 mg/Kg (ppm)

The NMOCD chloride cleanup level concentrations are site specific and will be determined by the NMOCD Hobbs District Office.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On August 21, 2012, NOVA at the request of SUGS, commenced remediation activities at the 6-Inch Lateral Historical Release Site. Prior to NOVA involvement, the leak source was excavated to a depth of approximately two (2) feet bgs. The excavated soil was stockpiled adjacent to the excavation. NOVA continued excavation activities in the previously excavated area. Approximately 468 cubic yards (cy) of impacted soil was excavated and stockpiled on-site, pending final disposition. The excavated soil was placed on a plastic liner to mitigate the potential leaching of contaminants into the vadose zone. The resulting excavation measured approximately fifty (50) feet in length, and ranged from approximately twenty (20) feet to fortyfive (45) feet in width and ranged in depth from approximately seven (7) feet to seven and one half (7.5) feet bgs. Please reference Figure 2 for site details.

On August 22, 2012, two (2) soil samples (East Floor @ 6' and East S/W-1 @ 5') were collected from the excavation and submitted to the laboratory for determination of concentrations of benzene, toluene, ethyl-benzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), and chlorides using EPA SW-846 8012b, 8015M, and E 300, respectively. The analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory method detection limits (MDL) for both soil samples. TPH concentrations ranged from less than the laboratory MDL for soil sample East S/W-1 @ 5' to 155 mg/Kg for soil sample East Floor @ 6'. Chloride concentrations ranged from 30.3 mg/Kg for soil sample East S/W-1 @ 5' to 45.5 mg/Kg for soil sample East Floor @ 6'. Based on laboratory analytical results, the area represented by soil sample East Floor @ 6' required additional excavation. Table 1 summarizes the Concentrations of BTEX, TPH, and Chlorides in Soil. Laboratory analytical reports are provided as Appendix A.

On August 23 and 24, 2012, six (6) soil samples (West S/W-1 @ 4', RP Floor @ 7', South S/W @ 6', North S/W @ 4', East S/W-2 @ 6', and East S/W-3 @ 4') were collected from the excavation and submitted to the laboratory for analysis. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the appropriate laboratory MDL for all the submitted soil samples with the exception of soil sample West S/W-1 @ 4', which exhibited a TPH concentration of 20.8 mg/Kg. Chloride concentrations ranged from 1.80 mg/Kg for soil sample South S/W @ 6' to 177 mg/Kg for soil sample West S/W-1 @ 4'. A review of analytical results indicated benzene, BTEX, TPH, and chloride concentrations were less than NMOCD regulatory guidelines. Please reference Figure 2 for soil sample locations.

In addition, one (1) composite soil sample (SP-1) was collected from the stockpiled soil and submitted to the laboratory for analysis. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL for soil sample SP-1. The soil sample exhibited a TPH concentration of 1,002.9 mg/Kg and a chloride concentration of 518 mg/Kg (Table 1).

On August 31, 2012, SUGS and NOVA representatives met with a NMOCD Hobbs District Office representative to present the results of the soil sampling event, and discuss future remediation activities to be conducted at the release site. The NMOCD representative requested additional excavation be conducted in the area represented by soil sample East Floor @ 6'. On completion of excavation activities SUGS would collect one (1) soil sample from the area represented by soil sample East Floor @ 6'. The soil sample would be submitted to the laboratory and analyzed for TPH concentrations. On laboratory results indicating TPH concentrations less than NMOCD regulatory guidelines the impacted soil would be transported to Doom Land Farm for disposal and the excavation would be backfilled with non-impacted soil.

On October 30, 2012, excavation activities resumed at the release site. Additional excavation was conducted in the area represented by soil sample East Floor @ 6'. A soil sample (East Floor @ 7.5') was collected from the excavated area and submitted to the laboratory for analysis. Laboratory analytical results indicated a TPH concentration of less than the laboratory MDL for the soil sample. A review of analytical results indicated a TPH concentration less than NMOCD regulatory guidelines (Table1).

A total of approximately four hundred sixty-eight (468) cy yards of soil was transported to Doom Land Farm, L.L.C., (NMOCD Permit # NM-01-0033) for disposal. The excavation was backfilled with locally obtained non-impacted soil and compacted. On completion of backfilling activities the impacted area was contoured to fit the surrounding topography. Manifests documenting soil disposal are provided as Appendix C.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Permian Basin Environmental Lab, LP, of Midland, Texas for BTEX and/or TPH and/or chloride analyses using the methods described below. Soil samples were analyzed for BTEX and/or TPH and/or chloride concentrations within fourteen (14) days following the sampling event.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO
- Chloride concentration in accordance with Method E 300.

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-ofcustody (COC) form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples, NOVA recommends SUGS provide the NMOCD a copy of this Remediation Summary and Site Closure Request and request the NMOCD grant final closure to the 6-Inch Lateral Historical Release Site.

6.0 LIMITATIONS

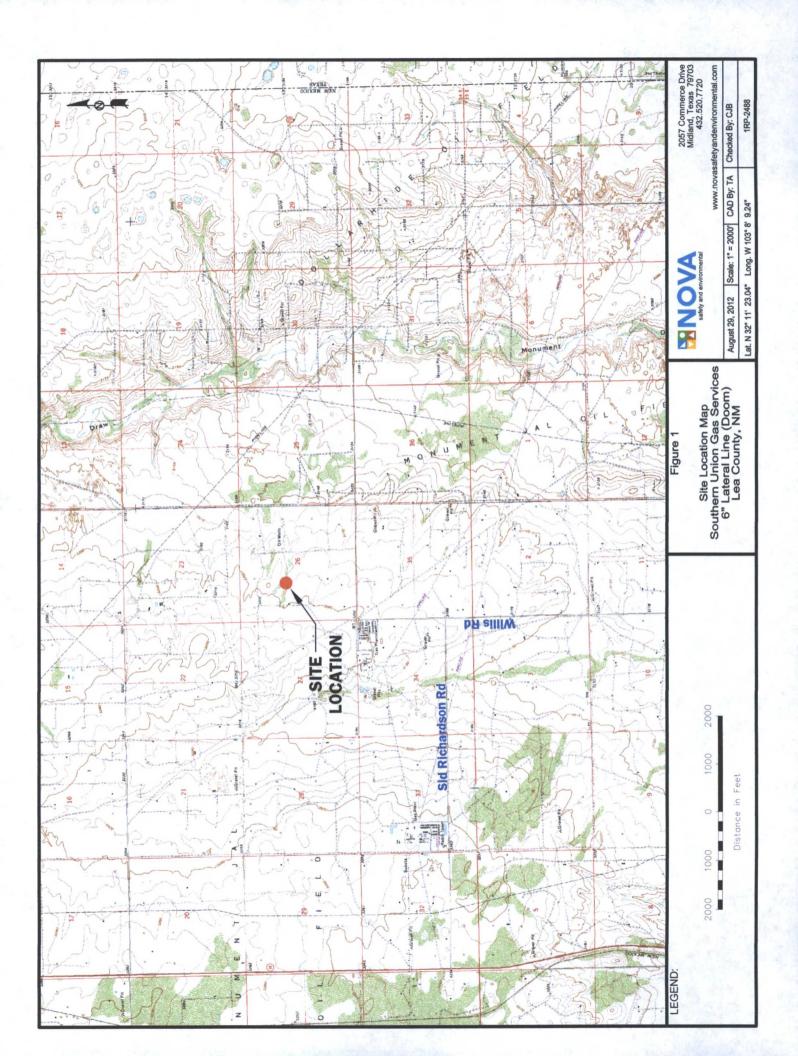
NOVA Safety and Environmental has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

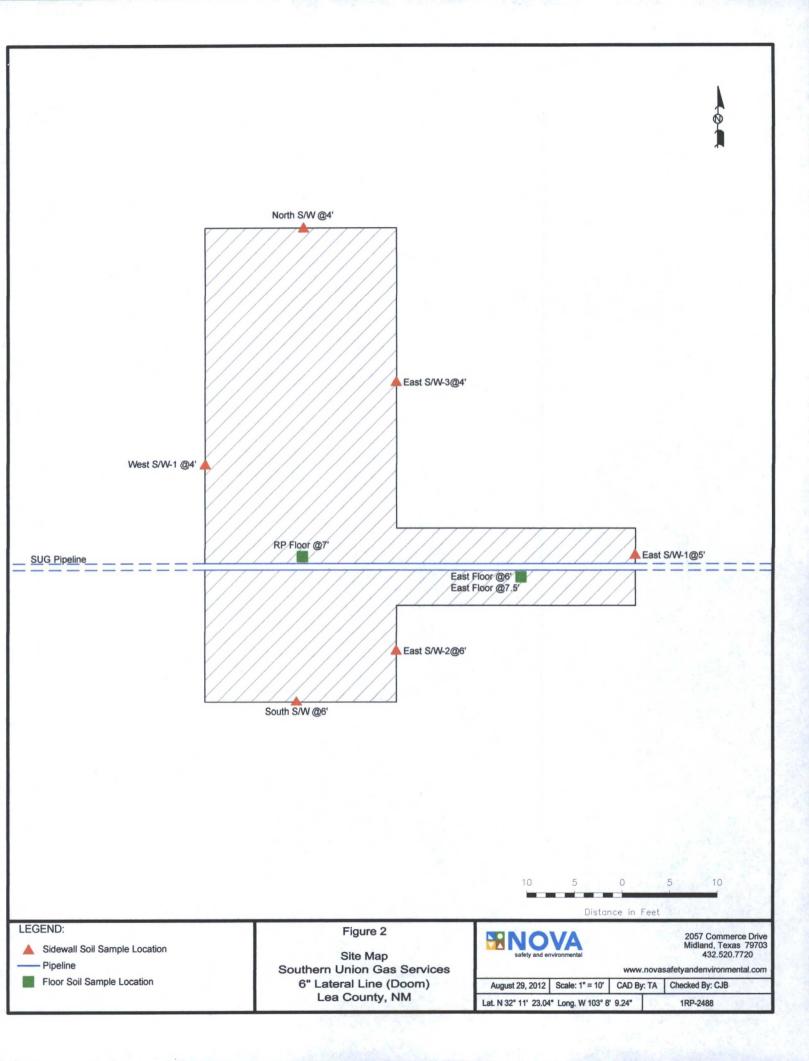
NOVA Safety and Environmental has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA Safety and Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA Safety and Environmental has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA Safety and Environmental also 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 NOVA Safety and Environmental and/or Southern Union Gas.

7.0 **DISTRIBUTION:**

- Copy 1: Geoffrey Leking New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 1) 1625 French Drive Hobbs, New Mexico 88240
- Copy 2: Rose Slade Southern Union Gas Services 801 South Loop 464 Monahans, Texas 79756
- Copy 3: Nova Safety & Environmental 2057 Commerce Street Midland, Texas 79703





PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Camille Bryant Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Historical 6 In Lateral IRP-2488 Project Number: [none] Location: Lea Co, NM

Lab Order Number: 2H28002



NELAP/TCEQ # T104704156-12-1

Report Date: 08/31/12

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES 6-INCH LATERAL HISTORICAL RELEASE LEA COUNTY, NEW MEXICO NMOCD 1RP-2488 All concentrations are reported in me/Ke

			1	METHODS:	METHODS: SW 846-8021b	00			METHOD: SW 8015M	W 8015M		E 300.1
SAMPLE LOCATION	SAMPLE DATE	BENZENE TOLUENE	TOLUENE		ETHYL- m, p- BENZENE XYLENES	0 - 0	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE
NMOCD Regulatory Limit	limit	10	•			-	50			ו	100	
East Floor (a) 6'	08/22/12	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<16.9	155	<16.9	155	45.5
East S/W-1 @ 5'	08/22/12	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<16.9	<16.9	<16.9	<16.9	30.3
West S/W-1 (a) 4'	08/23/12	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<16.0	20.8	<16.0	20.8	177
RP Floor (a) 7'	08/23/12	<0.00100 <0	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<16.9	<16.9	<16.9	<16.9	24.9
South S/W @ 6'	08/23/12	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<18.1	<18.1	<18.1	<18.1	1.80
North S/W @ 4'	08/23/12	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<16.9	<16.9	<16.9	<16.9	20.5
East S/W-2 @ 6'	08/23/12	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<17.0	<17.0	<17.0	<17.0	17.7
East S/W-3 (a) 4'	08/24/12	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<16.7	<16.7	<16.7	<16.7	15.1
Stockpile	08/24/12	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	15.9	855	132	1,002.9	518
			and the second second					Constraints		and a second second		
East Floor @ 7.5'	10/30/12		10 · 10		10 - N			<27.2	<27.2	<27.2	<27.2	
			No. of the second se	C. Parte Vo		The second second			3-144-31			

Nova Safety & Environment	Project:	SUG Historical 6 In Lateral IRP-2488	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Camille Bryant	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
East Floor @ 6'	2H28002-01	Solid	08/22/12 14:50	08-28-2012 14:09
East S/W-1 @ 5'	2H28002-02	Solid	08/22/12 16:55	08-28-2012 14:09
West S/W-1 @ 4'	2H28002-03	Solid	08/23/12 11:00	08-28-2012 14:09
RP Floor @ 7'	2H28002-04	Solid	08/23/12 14:00	08-28-2012 14:09
South S/W @ 6'	2H28002-05	Solid	08/23/12 14:05	08-28-2012 14:09
North S/W @ 4'	2H28002-06	Solid	08/23/12 16:05	08-28-2012 14:09
East S/W-2 @ 6'	2H28002-07	Solid	08/23/12 16:50	08-28-2012 14:09
East S/W-3 @ 4'	2H28002-08	Solid	08/24/12 11:00	08-28-2012 14:09
Stockpile	2H28002-09	Solid	08/24/12 12:50	08-28-2012 14:09

	Nova Safety & Environment	Project: SUC	G Historical 6 In Lateral IRP-2488	Fax: (432) 520-7701
1	2057 Commerce	Project Number: [non	ne]	
	Midland TX, 79703	Project Manager: Cam	mille Bryant	

Organics by GC

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East Floor @ 6' (2H28002-01) Solid		1.8818	N. N. 18	0.347	1.13			1 . Sec.	21. · · ·
Benzene	ND	0.00100	mg/kg dry	1	EH23105	08/30/12	08/30/12	EPA 8021B	
Toluene	ND	0.00200							
Ethylbenzene	ND	0.00100		"	"			"	
Xylene (p/m)	ND	0.00200							
Xylene (o)	ND	0.00100							
Surrogate: 4-Bromofluorobenzene		100 %	75-12	5	"	"	"	"	1.6.6 8
Surrogate: 1,4-Difluorobenzene		94.8 %	75-12	5	"	"	"	"	
C6-C12	ND	16.9	mg/kg dry		EH23104	08/30/12	08/30/12	EPA 8015M	
>C12-C28	155	16.9							
>C28-C35	ND	16.9							
Total Hydrocarbons	155	16.9							
Surrogate: 1-Chlorooctane		97.3 %	70-13	0	"	"	"	"	
Surrogate: o-Terphenyl		113 %	70-13	0	"	"	"	"	
East S/W-1 @ 5' (2H28002-02) Solid									
Benzene	ND	0.00100	mg/kg dry	1	EH23105	08/30/12	08/30/12	EPA 8021B	
Toluene	ND	0.00200							
Ethylbenzene	ND	0.00100							
Xylene (p/m)	ND	0.00200		"					
Xylene (o)	ND	0.00100							
Surrogate: 1,4-Difluorobenzene		95.5 %	75-12	5	"	"	"	"	1 Ale
Surrogate: 4-Bromofluorobenzene		99.5 %	75-12	5	"	"	"	"	
C6-C12	ND	16.9	mg/kg dry		EH23104	08/30/12	08/30/12	EPA 8015M	
>C12-C28	ND	16.9	19.4	"					
>C28-C35	ND	16.9				"			
Total Hydrocarbons	ND	16.9				"			
Surrogate: 1-Chlorooctane		100 %	70-13	0	"	"	"	"	
Surrogate: o-Terphenyl		117 %	70-13	0	"	"	"	"	
West S/W-1 @ 4' (2H28002-03) Solid									
Benzene	ND	0.00100	mg/kg dry	1	EH23105	08/30/12	08/30/12	EPA 8021B	
Toluene	ND	0.00200							
Ethylbenzene	ND	0.00100							
Xylene (p/m)	ND	0.00200							
Xylene (o)	ND	0.00100							
Surrogate: 4-Bromofluorobenzene		101 %	75-12	5	"	"	"	"	10.11.21
Surrogate: 1,4-Difluorobenzene		96.5 %	75-12		"	"	"	"	
C6-C12	ND		mg/kg dry		EH23104	08/30/12	08/31/12	EPA 8015M	
Permian Basin Environmental Lab	the second	-	The resu	lts in this r	eport apply to	the samples an	alyzed in accord	ance with the samp	oles

Permian Basin Environmental Lab

Nova Safety & Environment 2057 Commerce Midland TX, 79703		Project N	Project: SUG umber: [nor anager: Can	ne]		al IRP-2488		Fax: (432)	520-7701
		O	ganics by	y GC				1. 1. 1. 2. 1.	
	1	Permian Ba	sin Envir	onmen	tal Lab				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
West S/W-1 @ 4' (2H28002-03) Solid		S. C. S.	1. J. J.		115		114		
>C12-C28	20.8	16.0	mg/kg dry	1	EH23104	08/30/12	08/31/12	EPA 8015M	
>C28-C35	ND	16.0							
Total Hydrocarbons	20.8	16.0						10-10	
Surrogate: 1-Chlorooctane		97.2 %	70-1	30	"	"	"	"	1.1
Surrogate: o-Terphenyl		115 %	70-1	30	"	"	"	"	
RP Floor @ 7' (2H28002-04) Solid									
Benzene	ND	0.00100	mg/kg dry	1	EH23105	08/30/12	08/30/12	EPA 8021B	
Toluene	ND	0.00200							
Ethylbenzene	ND	0.00100							
Xylene (p/m)	ND	0.00200							
Xylene (o)	ND	0.00100							
Surrogate: 4-Bromofluorobenzene		105 %	75-1	25	"	"	"	"	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-1	25	"	"	"	"	
C6-C12	ND	16.9	mg/kg dry		EH23104	08/30/12	08/31/12	EPA 8015M	
>C12-C28	ND	16.9							
>C28-C35	ND	16.9							
Total Hydrocarbons	ND	16.9		"	"	"		"	1.1.1.1.
Surrogate: 1-Chlorooctane		112 %	70-1	30	"	"	"	"	
Surrogate: o-Terphenyl		129 %	70-1	30	"	"	"	"	
South S/W @ 6' (2H28002-05) Solid		1	147						in the
Benzene	ND	0.00100	mg/kg dry	1	EH23105	08/30/12	08/30/12	EPA 8021B	2. 34 7
Toluene	ND	0.00200							
Ethylbenzene	ND	0.00100							
Xylene (p/m)	ND	0.00200			•				
Xylene (o)	ND	0.00100					"		152763
Surrogate: 4-Bromofluorobenzene		104 %	75-1	25	"	"	"	"	
Surrogate: 1,4-Difluorobenzene		97.3 %	75-1	25	"	"	"	"	
C6-C12	ND	18.1	mg/kg dry		EH23104	08/30/12	08/31/12	EPA 8015M	
>C12-C28	ND	18.1							
>C28-C35	ND	18.1		"			•		
Total Hydrocarbons	ND	18.1		"					Ser. Su
Surrogate: 1-Chlorooctane		96.7 %	70-1	30	"	"	"	"	
Surrogate: o-Terphenyl		113 %	70-1	30	"	"	"	"	

Permian Basin Environmental Lab

Nova Safety & Environment	Project: SUG Historical 6 In Lateral IRP-2488	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Camille Bryant	

Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
North S/W @ 4' (2H28002-06) Solid		1.1.	1	2	all	in a set	5 . M.G.		A STATE
Benzene	ND	0.00100	mg/kg dry	1	EH23105	08/30/12	08/30/12	EPA 8021B	1.
Toluene	ND	0.00200	**			•		1	
Ethylbenzene	ND	0.00100							
Xylene (p/m)	ND	0.00200			"		"		
Xylene (o)	ND	0.00100	•						
Surrogate: 1,4-Difluorobenzene		96.3 %	75-1	25	"	"	"	"	5-16
Surrogate: 4-Bromofluorobenzene		105 %	75-1	25	"	"	"	"	
C6-C12	ND	16.9	mg/kg dry		EH23104	08/30/12	08/31/12	EPA 8015M	
>C12-C28	ND	16.9							
>C28-C35	ND	16.9							
Total Hydrocarbons	ND	16.9							
Surrogate: 1-Chlorooctane		87.3 %	70-1	30	"	"	"	"	101
Surrogate: o-Terphenyl		103 %	70-1	30	"	"	"	"	
East S/W-2 @ 6' (2H28002-07) Solid			di sta						
Benzene	ND	0.00100	mg/kg dry	1	EH23105	08/30/12	08/30/12	EPA 8021B	and the second
Toluene	ND	0.00200						•	
Ethylbenzene	ND	0.00100							
Xylene (p/m)	ND	0.00200						· · ·	
Xylene (o)	ND	0.00100			(•			
Surrogate: 1,4-Difluorobenzene		96.0 %	75-1	25	"	n	"	"	8 2 ×
Surrogate: 4-Bromofluorobenzene		104 %	75-1	25	"	"	"	"	
C6-C12	ND	17.0	mg/kg dry		EH23104	08/30/12	08/31/12	EPA 8015M	
>C12-C28	ND	17.0							
>C28-C35	ND	17.0	-					•	
Total Hydrocarbons	ND	17.0						See 2	
Surrogate: 1-Chlorooctane		81.8 %	70-1	30	"	"	"	"	2 and a
Surrogate: o-Terphenyl		96.8 %	70-1	30	"	"	"	"	
East S/W-3 @ 4' (2H28002-08) Solid		the set		113			12		
Benzene	ND	0.00100	mg/kg dry	1	EH23105	08/30/12	08/30/12	EPA 8021B	部合建設
Toluene	ND	0.00200							
Ethylbenzene	ND	0.00100					120 M		
Xylene (p/m)	ND	0.00200					1000		
Xylene (o)	ND	0.00100							
Surrogate: 4-Bromofluorobenzene		101 %	75-1	25	"	"	"	"	1. 1. 1. 1. 1.
Surrogate: 1,4-Difluorobenzene		95.2 %	75-1	25	"	"	"	"	
C6-C12	ND		mg/kg dry		EH23104	08/30/12	08/31/12	EPA 8015M	

Permian Basin Environmental Lab

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Nova Safety & Environment 2057 Commerce Midland TX, 79703	t	Project N	Project: SU jumber: [no anager: Car	ne]		al IRP-2488	Fax: (432) 520-7701					
		Oı Permian Ba	rganics b sin Envi		tal Lab			/12 EPA 8015M " " " " " " " " " " " " " " " " " " "				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note			
East S/W-3 @ 4' (2H28002-08) Solid	1 2 m	1. 8 3		25	1.082	a series						
>C12-C28	ND	16.7	mg/kg dry	1	EH23104	08/30/12	08/31/12	EPA 8015M				
>C28-C35	ND	16.7										
Total Hydrocarbons	ND	16.7										
Surrogate: 1-Chlorooctane		82.2 %	70-1	30	"	n	"	"				
Surrogate: o-Terphenyl		101 %	70-1	130	"	"	"	"				
Stockpile (2H28002-09) Solid			1.1.1					241	12.3.			
Benzene	ND	0.00100	mg/kg dry	1	EH23105	08/30/12	08/30/12	EPA 8021B	19 4			
Toluene	ND	0.00200										
Ethylbenzene	ND	0.00100	•									
Xylene (p/m)	ND	0.00200	1.1									
Xylene (o)	ND	0.00100										
Surrogate: 4-Bromofluorobenzene		106 %	75-1	125	"	"	"	н	1.1.1.2			
Surrogate: 1,4-Difluorobenzene		99.5 %	75-1	125	"	"	"	"				
C6-C12	15.9	15.8	mg/kg dry		EH23104	08/30/12	08/31/12	EPA 8015M				
>C12-C28	855	15.8		10.0								
>C28-C35	132	15.8										
Total Hydrocarbons	1000	15.8			"				aline a			
Surrogate: 1-Chlorooctane		79.0 %	70-1	130	"	"		"	1943			
Surrogate: o-Terphenyl		94.9 %	70-	130	"	"	"	"				

Nova Safety & Environment	Project: SUG Historica	cal 6 In Lateral IRP-2488	Fax: (432) 520-7701
2057 Commerce	Project Number: [none]		
Midland TX, 79703	Project Manager: Camille Bryan	nt	

General Chemistry Parameters by EPA / Standard Methods

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
East Floor @ 6' (2H28002-01) Solid				Difution	Dutti	riepulou	r mary zod	would	14010
Chloride	45.5	1.12	mg/kg dry wt. dry	1	EH23004	08/29/12	08/30/12	EPA 300.0	1.
% Moisture	11.0	0.1	%		EH23001	08/29/12	08/30/12	% calculation	
East S/W-1 @ 5' (2H28002-02) Solid									
Chloride	30.3	1.12	mg/kg dry wt. dry	1	EH23103	08/30/12	08/31/12	EPA 300.0	
% Moisture	11.0	0.1	%	•	EH23001	08/29/12	08/30/12	% calculation	
West S/W-1 @ 4' (2H28002-03) Solid									
Chloride	177	1.06	mg/kg dry wt. dry	1	EH23004	08/29/12	08/30/12	EPA 300.0	
% Moisture	6.0	0.1	%	•	EH23001	08/29/12	08/30/12	% calculation	
RP Floor @ 7' (2H28002-04) Solid									
Chloride	24.9	1.12	mg/kg dry wt. dry	1	EH23004	08/29/12	08/30/12	EPA 300.0	1.1
% Moisture	11.0	0.1	%		EH23001	08/29/12	08/30/12	% calculation	
South S/W @ 6' (2H28002-05) Solid	4			1.360	11-1-1				
Chloride	1.80	1.20	mg/kg dry wt. dry	1	EH23103	08/30/12	08/31/12	EPA 300.0	
% Moisture	7.0	0.1	%		EH23001	08/29/12	08/30/12	% calculation	
North S/W @ 4' (2H28002-06) Solid	See. 3	-	1. 12	A PAR	1.1		Sette 12	N.C. M.	Nor a
Chloride	20.5	1.12	mg/kg dry wt. dry	1	EH23103	08/30/12	08/31/12	EPA 300.0	
% Moisture	11.0	0.1	%		EH23001	08/29/12	08/30/12	% calculation	
East S/W-2 @ 6' (2H28002-07) Solid			Jone Marine	12	C. S.	ALC: NO			1.10
Chloride	17.7	1.14	mg/kg dry wt. dry	1	EH23103	08/30/12	08/31/12	EPA 300.0	
% Moisture	12.0	0.1	%	•	EH23001	08/29/12	08/30/12	% calculation	
East S/W-3 @ 4' (2H28002-08) Solid		in the	Stre!	1					
Chloride	15.1	1.11	mg/kg dry wt. dry	1	EH23103	08/30/12	08/31/12	EPA 300.0	
% Moisture	10.0	0.1	%		EH23001	08/29/12	08/30/12	% calculation	

Permian Basin Environmental Lab

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2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Camille Bryant	

General Chemistry Parameters by EPA / Standard Methods

Permian Basin Environmental Lab

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile (2H28002-09) Solid							Section 1		2.
Chloride	518	1.05	mg/kg dry wt. dry	1	EH23103	08/30/12	08/31/12	EPA 300.0	
% Moisture	5.0	0.1	%	•	EH23001	08/29/12	08/30/12	% calculation	

Nova Safety & Environment 2057 Commerce Midland TX, 79703		Project Nu	umber: [no	G Historical ne] nille Bryant		l IRP-2488			Fax: (432)	520-7701
		rganics by rmian Bas	2							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH23104 - 8015M		1. A.		1.5-19.3		1 de	a martin	Cyreli.	E. F	
Blank (EH23104-BLK1)				Prepared &	Analyzed:	08/30/12				
C6-C12	ND	15.0	mg/kg wet				per art.	1 days		18.7
>C12-C28	ND	15.0								

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH23104 - 8015M		K. 4		12-18-18		-	- Cales	Cyati.	1. J. P.	
Blank (EH23104-BLK1)	1.1			Prepared &	Analyzed:	08/30/12	12	1.35	N. C.	1. 1. 1
C6-C12	ND	15.0	mg/kg wet				per and	A Star		
>C12-C28	ND	15.0								
>C28-C35	ND	15.0								
Total Hydrocarbons	ND	15.0								
Surrogate: 1-Chlorooctane	111		"	100		111	70-130		1997	
Surrogate: o-Terphenyl	64.0		"	50.0		128	70-130			
LCS (EH23104-BS1)				Prepared &	Analyzed:	08/30/12				
C6-C12	842	15.0	mg/kg wet	1000	Maria Contra	84.2	75-125		1000	
>C12-C28	860	15.0	"	1000		86.0	75-125			
>C28-C35	ND	15.0	"	0.00			75-125			
Total Hydrocarbons	ND	15.0	•	0.00			75-125			
Surrogate: 1-Chlorooctane	126		"	100	_	126	70-130			
Surrogate: o-Terphenyl	60.0		"	50.0		120	70-130			
LCS Dup (EH23104-BSD1)				Prepared &	Analyzed:	08/30/12				
C6-C12	803	15.0	mg/kg wet	1000	1.85	80.3	75-125	4.74	20	
>C12-C28	855	15.0		1000		85.5	75-125	0.583	20	
Total Hydrocarbons	ND	15.0		0.00			75-125		20	
Surrogate: 1-Chlorooctane	120		"	100	61.0	120	70-130	12.8	12. 20	
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			
Matrix Spike (EH23104-MS1)	Sou	rce: 2H28002	2-01	Prepared &	Analyzed:	08/30/12				
C6-C12	481	16.9	mg/kg dry	393	ND	122	75-125		19 21 2	
>C12-C28	480	16.9		393	155	82.7	75-125			
>C28-C35	ND	16.9		0.00	ND		75-125			
Total Hydrocarbons	ND	16.9		0.00	155		75-125			
Surrogate: 1-Chlorooctane	123		"	112	7.5	110	70-130	-X 1 6	1.1.2	1.1
Surrogate: o-Terphenyl	58.6									

Nova Safety & Environment 2057 Commerce Midland TX, 79703		Project N	umber: [no	G Historical ne] mille Bryant	6 In Latera	l IRP-2488			Fax: (432)	520-7701
	(Organics by	GC - Q	uality Co	ontrol	3				78. 2-
	F	Permian Ba	sin Envi	ronment	al Lab					
		Reporting		Spike	Source		%REC	2.24	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH23104 - 8015M		1.1	-	en ins	<u>a 11</u>		de la			
Matrix Spike Dup (EH23104-MSD1)	S	ource: 2H28002	2-01	Prepared &	Analyzed:	08/30/12		dia.		
C6-C12	477	16.9	mg/kg dry	393	ND	121	75-125	0.823	20	
>C12-C28	452	16.9		393	155	75.6	75-125	8.97	20	
Fotal Hydrocarbons	ND	16.9		0.00	155		75-125		20	
Surrogate: 1-Chlorooctane	121	1	"	112		108	70-130	1.		44
Surrogate: o-Terphenyl	58.4		"	56.2		104	70-130			
and the second										
Batch EH23105 - General Preparation (GC)				1.5			1.11	100	1 war	1.5
Blank (EH23105-BLK1)				Prepared &	Analyzed:	08/30/12				
Benzene	ND	0.00100	mg/kg wet	1. 1. 1.			· * * *	1.1.1	and a	1000
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00100								
Xylene (p/m)	ND	0.00200								
Xylene (o)	ND	0.00100								
Surrogate: 1,4-Difluorobenzene	57.1		ug/kg	60.0		95.2	75-125		Sec. 1	
Surrogate: 4-Bromofluorobenzene	60.0			60.0		100	75-125			
LCS (EH23105-BS1)				Prepared &	Analyzed:	08/30/12				
Benzene	0.0957	0.00100	mg/kg wet	0.100	~	95.7	80-120	1.2		200
Toluene	0.104	0.00200		0.100		104	80-120			
Ethylbenzene	0.101	0.00100		0.100		101	80-120			
Xylene (p/m)	0.204	0.00200		0.200		102	80-120			
Xylene (o)	0.0932	0.00100	8	0.100		93.2	80-120			
Surrogate: 1,4-Difluorobenzene	57.6	100 100 100 100 100 100 100 100 100 100	ug/kg	60.0		96.0	75-125	121	- THE	. Link
Surrogate: 4-Bromofluorobenzene	61.8		"	60.0		103	75-125			
LCS Dup (EH23105-BSD1)				Prepared &	Analyzed:	08/30/12				
Benzene	0.0969	0.00100	mg/kg wet	0.100	,,	96.9	80-120	1.25	20	0 1/12
Toluene	0.106	0.00200		0.100		106	80-120	1.90	20	
Ethylbenzene	0.102	0.00100		0.100		102	80-120	0.985	20	
Xylene (p/m)	0.207	0.00200		0.200		104	80-120	1.94	20	
Xylene (o)	0.0936	0.00100		0.100		93.6	80-120	0.428	20	
Surrogate: 1,4-Difluorobenzene	57.4		ug/kg	60.0	20.20	95.7	75-125	1.7.	1	10.50
Surrogate: 4-Bromofluorobenzene	62.6		"	60.0		104	75-125			

Permian Basin Environmental Lab

Nova Safety & Environment	Project:	SUG Historical 6 In Lateral IRP-2488	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager:	Camille Bryant	

Organics by GC - Quality Control

Permian Basin Environmental Lab

		Reporting	1	Spike	Source		%REC	4	RPD	14 A.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EH23105 - General Preparation (GC)

Matrix Spike (EH23105-MS1)	Sou	rce: 2H28002	2-01	Prepared &	Analyzed	: 08/30/12				
Benzene	0.0663	0.00100	mg/kg dry	0.112	ND	59.2	80-120	1.1	2	QM-05
Toluene	0.0708	0.00200		0.112	ND	63.2	80-120			QM-05
Ethylbenzene	0.0697	0.00100		0.112	ND	62.2	80-120			QM-05
Xylene (p/m)	0.138	0.00200		0.225	ND	61.3	80-120			QM-05
Xylene (o)	0.0659	0.00100		0.112	ND	58.8	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	57.8		ug/kg	60.0		96.3	75-125			
Surrogate: 4-Bromofluorobenzene	63.4		"	60.0		106	75-125			
Matrix Spike Dup (EH23105-MSD1)	Sou	rce: 2H28002	2-01	Prepared &	Analyzed	: 08/30/12				
Benzene	0.0660	0.00100	mg/kg dry	0.112	ND	58.9	80-120	0.508	20	QM-05
Toluene	0.0693	0.00200		0.112	ND	61.9	80-120	2.08	20	QM-05
Ethylbenzene	0.0680	0.00100		0.112	ND	60.7	80-120	2.44	20	QM-05
Xylene (p/m)	0.133	0.00200		0.225	ND	59.1	80-120	3.65	20	QM-05
Xylene (o)	0.0636	0.00100		0.112	ND	56.8	80-120	3.46	20	QM-05
Surrogate: 1,4-Difluorobenzene	59.0	2	ug/kg	60.0		98.3	75-125			J 1. 19.9
Surrogate: 4-Bromofluorobenzene	61.6		"	60.0		103	75-125			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

10014 SCR 1213 Midland, TX 79706 432-661-4184

Nova Safety & Environment 2057 Commerce Midland TX, 79703		Project N	Project: SU Number: [no Ianager: Ca	ne]		ral IRP-2488	3		Fax: (432)	520-7701
General Chemi		ameters b ermian Ba	•			ods - Qua	lity Con	trol		
Analyte	Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH23001 - *** DEFAULT PREP ***										
Blank (EH23001-BLK1)		6 T. 6		Prepared:	08/29/12	Analyzed: 0	8/30/12	H Set	1 1 2 1	in en 110
% Moisture	ND	0.1	%				2.12		124	
Duplicate (EH23001-DUP1)	Sou	arce: 2H2800	2-01	Prepared:	08/29/12	Analyzed: 0	8/30/12			
% Moisture	10.0	0.1	%		11.0	11	12	9.52	20	
Batch EH23004 - *** DEFAULT PREP ***		1.7.1		1			de is		to be god	
Blank (EH23004-BLK1)	1.1	1. 1. 18	1	Prepared:	08/29/12	Analyzed: 0	8/30/12	12	01 2	
Chloride	ND	1.00	mg/kg dry wt. wet							
LCS (EH23004-BS1)				Prepared:	08/29/12	Analyzed: 0	8/30/12			
Chloride	9.39		mg/kg Wet	10.0		93.9	80-120			
LCS Dup (EH23004-BSD1)				Prepared:	08/29/12	Analyzed: 0	8/30/12			
Chloride	9.30		mg/kg Wet	10.0		93.0	80-120	0.963	20	
Duplicate (EH23004-DUP1)	So	arce: 2H2800	02-01	Prepared:	08/29/12	Analyzed: 0	8/30/12			
Chloride	46.0	1.12	mg/kg dry wt. dry		45.5			1.09	20	- 6 ¹
Matrix Spike (EH23004-MS1)	So	arce: 2H2800	02-01	Prepared:	08/29/12	Analyzed: 0	8/30/12			
Chloride	166	1.12	mg/kg dry wt. dry	140	45.5	86.1	80-120	1 Mart		9.5
Matrix Spike (EH23004-MS2)	So	arce: 2H2800	02-03	Prepared: 08/29/12 Analyzed: 08/30/12						
Chloride	294	1.06	mg/kg dry wt. dry	133	177	88.0	80-120		1.5.9	hee
Potob FU23103 . *** DEFAULT DDED ***										

Batch EH23103 - *** DEFAULT PREP ***

 Blank (EH23103-BLK1)
 Prepared: 08/30/12 Analyzed: 08/31/12

 Chloride
 ND
 1.00 mg/kg dry wt. wet

Nova Safety & Environment	Project: SUG Historical 6 In Lateral IRP-2488 Fax: (432) 52	0-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Camille Bryant	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	TO S				A					
Analyte	Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH23103 - *** DEFAULT PREP ***	1			a diana	5 14		1			
LCS (EH23103-BS1)				Prepared: (08/30/12 A	nalyzed: 08	8/31/12			
Chloride	9.52	4.	mg/kg Wet	10.0	225	95.2	80-120			a at
LCS Dup (EH23103-BSD1)				Prepared: (08/30/12 A	nalyzed: 08	8/31/12			
Chloride	9.47		mg/kg Wet	10.0		94.7	80-120	0.527	20	
Duplicate (EH23103-DUP1)	Sou	rce: 2H2800	2-02	Prepared: (08/30/12 A	nalyzed: 08	8/31/12			
Chloride	30.7	1.12	mg/kg dry wt. dry		30.3			1.31	20	
Matrix Spike (EH23103-MS1)	Sou	rce: 2H2800	2-02	Prepared: (08/30/12 A	nalyzed: 08	8/31/12			
Chloride	193	1.12	mg/kg dry wt. dry	140	30.3	116	80-120	1.		

Nova Safety & Environment 2057 Commerce Midland TX, 79703		Project Number:	Project: SUG Historical 6 In Lateral IRP-2488 Project Number: [none] Project Manager: Camille Bryant					
		Notes and De	finitions					
QM-05	The spike recovery was outside acceptance within acceptance limits showing that the		D due to matrix interference. The LCS and/or LCSE e data is acceptable.) were				
DET	Analyte DETECTED							
ND	Analyte NOT DETECTED at or above the repo	orting limit						
NR	Not Reported							
iry	Sample results reported on a dry weight basis							
RPD	Relative Percent Difference							
LCS	Laboratory Control Spike							
MS	Matrix Spike							
Dup	Duplicate							

Report Approved By:

Date: 8/

8/31/2012

Brent Barron, Laboratory Director/Technical Director

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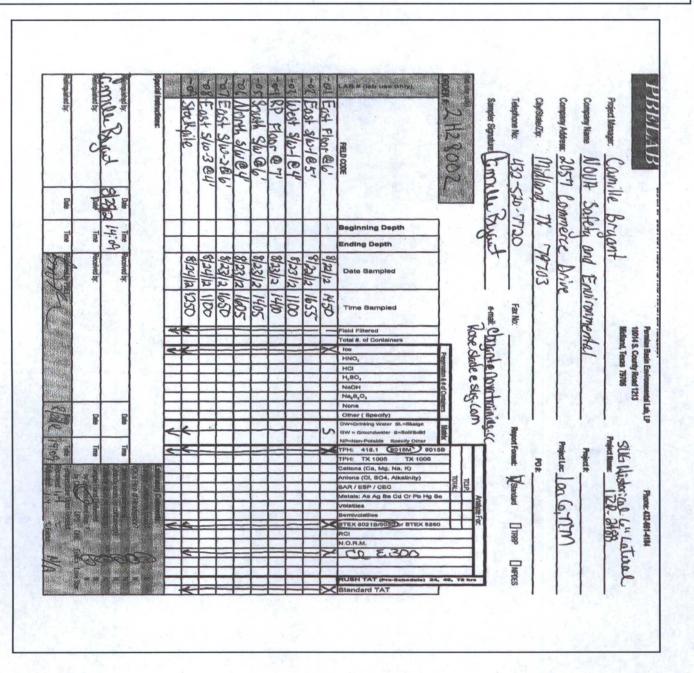
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Page 13 of 13

Nova Safety & Environment 2057 Commerce Midland TX, 79703 Project: SUG Historical 6 In Lateral IRP-2488 Project Number: [none] Project Manager: Camille Bryant Fax: (432) 520-7701



PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Camille Bryant Nova Safety & Environment 2057 Commerce Midland, TX 79703

Project: SUG Historical 6 In Lateral 1RP-2488 Project Number: [none] Location: Lea County, New Mexico

Lab Order Number: 2J30011



NELAP/TCEQ # T104704156-12-1

Report Date: 10/31/12

Nova Safety & Environment	Project:	SUG Historical 6 In Lateral 1RP-2488
2057 Commerce	Project Number:	[none]
Midland TX, 79703	Project Manager:	Camille Bryant

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
East Floor @ 7.5'	2J30011-01	Soil	10/30/12 14:00	10-30-2012 16:24

Nova Safety & 2057 Commerc Midland TX, 79	e		Proje Project Numb roject Manag	er: [none]		n Lateral 1R	RP-2488		Fax: (432) 520-77
			East H	loor @ '	7.5'				
	委托保持了	an a	2J300	11-01 (So	oil)		Start 2		1.1.1
Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		Per	mian Basin	Environ	mental Lal	b			
eneral Chem	istry Parameters by EP	A / Standard Method:							
Jeneral Chem			0.1	%		EJ23101	10/30/12	10/31/12	% calculation

C6-C12	ND	27.2	mg/kg dry	1	EJ23102	10/30/12	10/30/12	8015M	
>C12-C28	ND	27.2	mg/kg dry	1	EJ23102	10/30/12	10/30/12	8015M	
>C28-C35	ND	27.2	mg/kg dry	1	EJ23102	10/30/12	10/30/12	8015M	
Surrogate: 1-Chlorooctane		79.3 %	70-130		EJ23102	10/30/12	10/30/12	8015M	
Surrogate: o-Terphenyl		90.6 %	70-130		EJ23102	10/30/12	10/30/12	8015M	
Total Hydrocarbon nC6-nC35	ND	25.0	mg/kg dry	1	[CALC]	10/30/12	10/30/12	8015M	

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment	Project: SUG Historical 6 In Lateral 1RP-2488 Fax	: (432) 520-7701
2057 Commerce	Project Number: [none]	
Midland TX, 79703	Project Manager: Camille Bryant	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab

			A							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ23101 - *** DEFAULT PREP ***		1	s (° -	1.24	le ⁿ			19 h	No. alt	A 11 -
Blank (EJ23101-BLK1)	and the second	1	1	Prepared:	10/30/12 A	nalyzed: 10	/31/12	i dia		
% Moisture	ND	0.1	%							
Duplicate (EJ23101-DUP1)	Sour	ce: 2J30001-0	01	Prepared:	10/30/12 A	nalyzed: 10	/31/12	15.20	Sec. 2.	1
% Moisture	2.0	0.1	%	A Same	2.0	der a		0.00	20	- 1. N
Duplicate (EJ23101-DUP2)	Sour	ce: 2J30010-0	01	Prepared:	10/30/12 A	nalyzed: 10	/31/12			
% Moisture	ND	0.1	%	and the second	1.0		194	200	20	R3

Permian Basin Environmental Lab

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment	Project:	SUG Historical 6 In Lateral 1RP-2488	Fax: (432) 520-7701
2057 Commerce	Project Number:	[none]	
Midland TX, 79703	Project Manager: 0	Camille Bryant	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental	Permian Basin E	<i>ivironmental</i>	Lab
-----------------------------	-----------------	---------------------	-----

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ23102 - 8015M			10, es.	10.18			-		1.	
Blank (EJ23102-BLK1)				Prepared &	Analyzed:	10/30/12				1.1
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0								
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			8
Surrogate: o-Terphenyl	55.2		"	50.0		110	70-130			
LCS (EJ23102-BS1)				Prepared &	Analyzed	10/30/12				
C6-C12	846	25.0	mg/kg wet	1000	Anaryzeu.	84.6	75-125	_		1
>C12-C28	821	25.0	mg/kg wet	1000		82.1	75-125			
>C28-C35	ND	25.0		0.00		82.1	75-125			
Surrogate: 1-Chlorooctane	98.2	25.0	"	100		98.2	70-130			
Surrogate: 1-Chioroociane Surrogate: o-Terphenyl	46.6		"	50.0		98.2 93.2	70-130			
surrogaie. o-terpnenyi	40.0			30.0		93.2	/0-130			
LCS Dup (EJ23102-BSD1)			3. 4.1	Prepared &	Analyzed:					
C6-C12	937	25.0	mg/kg wet	1000	140	93.7	75-125	10.1	20	
>C12-C28	835	25.0	"	1000		83.5	75-125	1.66	20	
>C28-C35	ND	25.0		0.00			75-125		20	
Surrogate: 1-Chlorooctane	114		"	100	1	114	70-130			1. 18 1. 19
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			
Matrix Spike (EJ23102-MS1)	Som	rce: 2J30010	-01	Prepared &	Analyzed	10/30/12				
C6-C12	938	25.3	mg/kg dry	1010	ND	92.9	75-125	182.2.1		1-1220
>C12-C28	1430	25.3	"	1010	1380	5.10	75-125			OM-0
>C28-C35	ND	25.3	"	0.00	290		75-125			
Surrogate: 1-Chlorooctane	76.8	-	"	101		76.0	70-130		1.1.1.1	ANS - TO
Surrogate: o-Terphenyl	45.8		"	50.5		90.6	70-130			
Matrix Spike Dup (EJ23102-MSD1)	Som	rce: 2J30010	.01	Prepared &	Analyzed	10/30/12				
C6-C12	961	25.3	mg/kg dry	1010	ND	95.1	75-125	2.38	20	A 1 1 1 1 1
>C12-C28	1280	25.3	"	1010	1380	NR	75-125	NR	20	QM-0
>C28-C35	ND	25.3		0.00	290		75-125		20	
Surrogate: 1-Chlorooctane	73.6		"	101		72.8	70-130			
Surrogate: o-Terphenyl	37.5		"	50.5		74.2	70-130			

Permian Basin Environmental Lab

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Nova Safety & Environment 2057 Commerce Midland TX, 79703		Project: Project Number: Project Manager:		Fax: (432) 520-7701
		Notes and De	finitions	
R3	The RPD exceeded the acceptance limit due to	o sample matrix effects.		
QM-05	The spike recovery was outside acceptance lir within acceptance limits showing that the labor		D due to matrix interference. The LCS and/or LCS e data is acceptable.	SD were
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the reporting	glimit		
NR	Not Reported			
iry	Sample results reported on a dry weight basis			
RPD	Relative Percent Difference			
LCS	Laboratory Control Spike			
MS	Matrix Spike			

Dup Duplicate

Report Approved By:

Mon Date: 10/3

10/31/2012

Brent Barron, Laboratory Director/Technical Director

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 6 of 7

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°C °C °C Factor	2 DHL	Labels on container(s) Custody seals on container(s): Crustody seals on cooler(s)	is of							-			RCI	-					County New Mexico		SUG Historical 6 Inch Lateral 1RP-2488	Phone: 432-661-4184
Or	F 33												N.O.R.M.			1	TRRP		lew		Late	184
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Location: Lea County, New Mexico

Prepared by: NOVA

Client: Southern Union Gas Services Project Name: 6-Inch Lateral

Photograph No. 1

Direction: Facing East

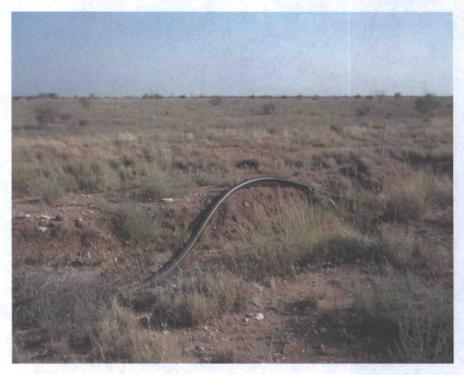
Description: View of the initial release area.

Photograph No. 2

Direction: Facing Northeast

Description: View of initial release area.







Client: Southern Union Gas Services Project Name: 6-Inch Lateral Prepared by: NOVA Location: Lea County, New Mexico

Photograph No. 3

Direction: Facing North

Description: View of the excavation.

Photograph No. 4

Direction: Facing East

Description: View of the excavation.







Client: Southern Union Gas Services Project Name: 6-Inch Lateral Prepared by: NOVA Location: Lea County, New Mexico

Photograph No. 5

Direction: Facing East

Description: View of backfilling activities.



Photograph No. 6

Direction: Facing West

Description: View of backfilling activities.





Client: Southern Union Gas Services Project Name: 6-Inch Lateral

Prepared by: NOVA Location: Lea County, New Mexico

Photograph No. 7

Direction: Facing East

Description: View of restored site.



Photograph No. 8

Direction: Facing East

Description: View of restored site.



JAL, N.M. 88252 575-395-3537 903-715-8491 903-715-0471 JOB INVOICE #:	EXEMPT WASTE MANIFEST FOR HYDROC RBON IMPACTED SOIL E.I.N.# 80 050 1030 PERMIT #NM 01-0033
OIL/GAS OPERATOR: Souther Union	bas
LOCATION/LEASE:	SEC26 T245 R
DRIVER Seraio Fierro	DATE 10-30-12
# LOADS	TOTAL CYDS
DRIVER	DATE
# LOADS CYDS/LOAD	TOTAL CYDS
TRUCKING CO.	
DRIVER	DATE
# LOADS CYDS/LOAD	TOTAL CYDS

1		
DOOM LAND FARM	A, L.L.C.	EXEMPT WASTE MAN
BOX 1271		FOR HYDROC RBON
JAL, N.M. 882	52	IMPACTED SOIL
575-395-3537 903	3-715-8491	E.I.N.# 80 050 1930
903-715-04	471	PERMIT #NM-91-003
	JOB INVOICE #:	·
OIL/GAS OPERATOR:	Southern Un	on Gas
LOCATION/LEASE:		
	11 1 1 1	SEC 26 7245 R
TRUCKING CO.	R. McCoocken	P 207
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DOOM LAND FARM, L.L.C. BOX 1271 JAL, N.M. 88252 575-395-3537 903-715-8491 903-715-0471 JOB INVOICE #: OIL/GAS OPERATOR:	EXEMPT WASTE MANIFEST FOR HYDROC RBON IMPACTED SOIL E.I.N.# 80 050 1030 PERMIT #NM 01 0033
LOCATION/LEASE:	
6' lateral	SEC26 TJUS R37E
TRUCKING CO.	
DRIVER Jos Jandes	DATE 10-30-12
#LOADS CYDS/LOAD	TOTAL CYDS
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DOOM LAND FARM	A, L.L.C.	EXEMPT WASTE MANIFE
BOX 1271		FOR HYDROC RBON
JAL, N.M. 882	52	IMPACTED SOIL
575-395-3537 903	3-715-8491	E.I.N.# 80 050 1930
903-715-04		PERMIT #NM-01-0033
	JOB INVOICE #:	
OIL/GAS OPERATOR:	Southern U	nion Gas
LOCATION/LEASE:		
6	'Islaml	SEC26 JUS R3
	enderg Transp	
DRIVER Marcos	E. Mendore	DATE 10/30/12
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DRIVER		DATE
# LOADS	CYDS/LOAD	TOTAL CYDS
	1 1	111
		1H1
	HILA	TA.

DOOM LAND FARM, L.L.C. BOX 1271 JAL, N.M. 88252 575-395-3537 903-715-8491 903-715-0471 JOB INVOICE #: OIL/GAS OPERATOR: Souther Unit	EXEMPT WASTE MANIFEST FOR HYDROC RBON IMPACTED SOIL E.I.N.# 80 050 3530 PERMIT #NM-01-0033
LOCATION/LEASE:	
TRUCKING CO. Murillo Trucking	SEC.26 T245 237E
DRIVER eller al alorello	
# LOADS CYDS/LOAD _22	TOTAL CYDS
TRUCKING CO.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
DRIVER	DATE
# LOADS CYDS/LOAD	
TRUCKING CO.	********************
DRIVER	DATE
# LOADS CYDS/LOAD	TOTAL CYDS
And	

DOOM LAND FARM BOX 1271 JAL, N.M. 8825 575-395-3537 903 903-715-04 J OIL/GAS OPERATOR:	2 - 715-8491 71 OB INVOICE #:	EXEMPT WASTE MANIFEST FOR HYDROC RBON IMPACTED SOIL E.I.N.# 80 000 1 30 PERMIT #NM 01 0033
LOCATION/LEASE:	advector and a conservation of the conservation of	ACTIC CONTRACTOR AND CONTRACTOR C
TRUCKING CO. Fumi	lyis tricking	SEC 26 T245 R37E
DRIVER porfirio		DATE 10-30-12
#LOADS MU 5	CYDS/LOAD 11 m	uliche TOTAL CYDS
TRUCKING CO.		
		DATE
# LOADS	CYDS/LOAD	TOTAL CYDS
TRUCKING CO.	orendssenterseesensessesse	***************************************
DRIVER		DATE
# LOADS	CYDS/LOAD	TOTAL CYDS
	1	
	MA	1 de la companya de l

DOOM LAND FARM, L.L.C. BOX 1271 JAL, N.M. 88252 575-395-3537 903-715-8491 903-715-0471 JOB INVOICE #: OIL/GAS OPERATOR: Southern U	EXEMPT WASTE MANIFEST FOR HYDROC RBON IMPACTED SOIL E.I.N.# 80 050 1530 PERMIT #NM 01 0033
LOCATION/LEASE:	and a search and a second seco
6" lateral	SEC21 Tays R37E
TRUCKING CO. AZTECA TRUCKIN	6
DRIVER ISAURO SIVA	DATE 10 / 30/12
#LOADS CYDS/LOAD	TOTAL CYDS
TRUCKING CO.	
DRIVER	DATE
# LOADS CYDS/LOAD	
TRUCKING CO.	
DRIVER	DATE
# LOADS CYDS/LOAD	TOTAL CYDS
	1 L

DOOM LAND FARM, L.L.C. BOX 1271 JAL, N.M. 88252	EXEMPT WASTE MANIFEST FOR HYDROC RBON IMPACTED SOIL
575-395-3537 903-715-8491	E.I.N.# 80 000 1930
903-715-0471	PERMIT #NM:01:0033
JOB INVOICE #:	
OIL/GAS OPERATOR: Southern	Gatonines
LOCATION/LEASE:	
61 lateral	SEC26 TZUS RSTF
TRUCKING CO.	
DRIVER Bristephennander	DATE 10/30/12
#LOADS_6CYDS/LOAD	TOTAL CYDS
TRUCKING CO.	
DRIVER Anita Teatra	DATE
# LOADS CYDS/LOAD	TOTAL CYDS
TRUCKING CO.	
DRIVER	DATE
# LOADS CYDS/LOAD	TOTAL CYDS
White	E.