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1RP - 1540 SOUTHERN UNION GAS COMPANY

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REMEDIATION SUMMARY AND PROPOSED SOIL AND GROUNDWATER INVESTIGATION STRATEGY

SOUTHERN UNION GAS SERVICES

A-7 Bettis
Lea County, New Mexico
UNIT "L" (NW/SW), Section 14, Township 21 South, Range 37 East NMPM
Latitude 32° 28.522' North, Longitude 103° 08.529' West
NMOCD Reference #1RP 1540
NMOCD Reference #1RP 09-5-2186

Prepared For:

HOBBS OCD

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

AUG 1 5 2012

RECEIVED

Prepared By:
Basin Environmental Service Technologies, LLC
2800 Plains Highway
Lovington, New Mexico 88260

July 2012

Jogi W. Lowiy

Project Manager

em Specialist
NMOCD-DISTI
8115112

- WILL FIELD VISIT TO WITNESS LOCATING OF BORINGS

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INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin) on behalf of Southern Union Gas Services (Southern Union) has prepared this "Remediation Summary and Proposed Soil and Groundwater Investigation Strategy" for the release site known as A-7 Bettis (SUGS Project #2009-010). The legal description of the release site is Unit Letter "L" (NW/SW), Section 14, Township 21 South, Range 37 East, NMPM, in Lea County, New Mexico. The property affected by the release is owned by Mr. Charlie Bettis of Eunice, New Mexico. The release site GPS coordinates are 32° 28.522' North and 103° 08.529' West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site, Sample and Photo Location Map. Photographs are provided as Appendix A.

On August 22, 2007, Southern Union discovered a release had occurred on the A-7 pipeline. The failure of the ten inch (10") low pressure natural gas pipeline resulted in a release of a mixture of crude oil, produced water and natural gas. A recent rain shower had added an unknown volume of water to the release. The release was verbally reported to the New Mexico Oil Conservation Division (NMOCD) on August 22, 2007. The "Release Notification and Corrective Action" (Form C-141) indicated approximately two hundred (200) barrels of fluid was released, and approximately one hundred thirty (130) barrels of fluid were recovered using a vacuum truck. Approximately eighty-one (81) MCF of natural gas was released to the atmosphere as a result of the release. Following the discovery of the release a temporary pipeline clamp was employed to mitigate the release. The release affected approximately 26,250 square feet of pasture land.

The initial Form C-141 (1RP 1540) was submitted and approved by the NMOCD Hobbs District Office on August 31, 2007. On March 24, 2009, the initial Form C-141 was resubmitted and approved by the NMOCD Hobbs District Office. The March 24, 2009, submittal was assigned the NMOCD reference #1RP 09-5-2186. Please reference Appendix C for copies of each of the submitted "Release Notification and Corrective Action" forms.

This "Remediation Summary and Proposed Soil and Groundwater Investigation Strategy" was prepared from notes and analytical results received from a previous environmental contractor.

NMOCD SITE CLASSIFICATION

A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at less than fifty feet (50') below ground surface (bgs). Based on the NMOCD ranking system, twenty (20) points will be assigned to the site as a result of this criterion.

A search of the New Mexico Water Rights Reporting System (NMWRRS) database indicated there were 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 release. Based on the NMOCD ranking system, zero (0) points were assigned to the site as a result of the criterion.

The NMOCD guidelines indicate the A-7 Bettis release site has a ranking score of twenty (20) points. 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 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

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On February 26, 2009, horizontal delineation of the impacted area began; ten (10) surface soil samples (1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B, 5A and 5B) were collected and submitted to the laboratory. Each of the soil samples were analyzed for concentrations of total petroleum hydrocarbon (TPH) using EPA Method SW846-8015B and chloride using EPA Method 4500-Cl-B. Analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) of 10 mg/Kg in soil samples 1A, 1B, 2A, 2B, 4A, 4B and 5B to 11,000 mg/Kg in soil sample 5A. Chloride concentrations ranged from less than the laboratory MDL of 16.0 mg/Kg in soil sample 4B to 2,120 mg/Kg in soil sample 2A. Soil sample 5B was analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) using EPA Method SW846-8021b. The analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix B.

On March 12, 2009, excavation of the affected soil began. Impacted soil was stockpiled adjacent to the excavation, pending final disposition. On March 13, 2009, a composite soil sample (Chlorides Soil Pile) was collected from the stockpile and analyzed for concentrations of chloride. The analytical results indicated the chloride concentration was less than the laboratory MDL of 16 mg/Kg.

Beginning on March 16, 2009, stockpiled soil was transported to the Southern Union Landfarm (Permit # NM-02-0019) north of Jal, New Mexico.

On March 17, 2009, two composite soil samples (Soil Pile #1 South and Soil Pile #2 North) were collected to evaluate the hydrocarbon impact within the stockpile. Analytical results indicated the TPH concentrations in Soil Pile #1 South and Soil Pile #2 North was 2,140 mg/Kg and 1,705 mg/Kg, respectively. In addition, four (4) excavation floor soil samples (Bottom Start, RP 13', RP 16' and RP 18') were collected and submitted to the laboratory for TPH analysis. The analytical results indicated TPH concentrations ranged from 8,770 mg/Kg in soil sample RP 16' to 16,000 mg/Kg in soil sample Bottom Start.

On March 18, 2009, two (2) sidewall soil samples (#1 Sample and #1 Sample West Bank) were collected from the excavation and analyzed for concentrations BTEX, TPH and chloride. Analytical results indicated the benzene and BTEX concentration were less than the laboratory MDL of 0.050 mg/Kg and 0.300 mg/Kg, respectively, for each of the samples submitted. The TPH concentration was 25.3 mg/Kg for each of the submitted soil samples, and the chloride concentration for soil samples #1 Sample and #1 Sample West Bank were 144 mg/Kg and 176 mg/Kg, respectively.

On March 19, 2009, an excavation floor sample (Bottom Hole 28') was collected from the floor of the excavation and analyzed for concentrations of BTEX and TPH. The analytical results indicated the

benzene concentration was 1.52 mg/Kg, the BTEX concentration was 77.22 mg/Kg and the TPH concentration was 6,250 mg/Kg.

On March 24, 2009, two (2) excavation floor soil samples (Bottom Hole 37' and Bottom Hole 39') were collected and submitted to the laboratory. Soil sample Bottom Hole 37' was analyzed for concentrations of TPH. The analytical results indicated the TPH concentration was 6,120 mg/Kg. Soil sample Bottom Hole 39' was analyzed for concentrations of TPH and BTEX. Analytical results indicated the TPH concentration was 5,630 mg/Kg, the benzene concentration was 1.04 mg/Kg and the BTEX concentration was 113.34 mg/Kg.

On March 31, 2009, one (1) excavation floor soil sample (Bottom) and four (4) sidewall soil samples (West Bank N, West Bank S, East Bank S and North Bank) were collected and analyzed for concentrations of BTEX and TPH. Analytical results indicated benzene concentrations ranged from 0.25 mg/Kg in soil sample West Bank S to 39.6 mg/Kg in soil sample East Bank S. BTEX concentrations ranged from 20.261 mg/Kg in soil sample West Bank S to 77.321 mg/Kg in soil sample North Bank. TPH concentrations ranged from 2,872 mg/Kg in soil sample West Bank S to 5,930 mg/Kg in soil sample North Bank.

On July 9, 2010, one (1) excavation floor soil sample (Bottom Hole #4 40 ft.) was collected and submitted to the laboratory and analyzed for concentrations of BTEX and TPH. Analytical results indicated the benzene concentration was 0.453 mg/Kg, the BTEX concentration was 29.223 mg/Kg and the TPH concentration was 5,930 mg/Kg.

On July 10, 2010, one (1) excavation floor soil sample (Last Sample 44 ft.) was collected and submitted to the laboratory and analyzed for concentrations of BTEX and TPH. The analytical results indicated the benzene concentration was 0.814 mg/Kg, the BTEX concentration was 46.594 mg/Kg and the TPH concentration was 5,100 mg/Kg.

The excavation of the release site is currently at a depth of approximately forty-four (44) feet below ground surface. Approximately 2,550 cubic yards (cy) of impacted soil was transported to the Southern Union Landfarm for treatment.

On October 21, 2010, representatives of Southern Union Gas Services and a representative of the NMOCD – Hobbs District Office met to discuss a path forward for closure of the release site. The NMOCD representative requested a minimum of five (5) soil borings be advanced around the perimeter of the excavation to demonstrate vertical and horizontal delineation at the release site. Based on the inferred depth to groundwater (less than 50 feet bgs) and the depth of impact (greater than 44 feet bgs), select soil borings will likely be converted to groundwater monitor wells.

PROPOSED SOIL AND GROUNDWATER INVESTIGATION STRATEGY

Based on the existing soil analytical data, field observations and at the request of the NMOCD – Hobbs District Office, Southern Union Gas Services proposes to advance a minimum of five (5) soil borings (SB-1 through SB-5) around the perimeter of the existing A-7 Bettis excavation. The soil borings will be advanced to the groundwater interface (approximately 50 feet bgs). Should olfactory and visual observations indicate groundwater has been impacted; the affected soil boring will be converted to a two (2) inch diameter monitor well.

- The proposed soil borings will offset the existing excavation approximately thirty (30) feet to provide a safe working environment for drilling personnel and to minimize the potential for drilling air to infiltrate the sidewalls of the existing excavation. The infiltration of drilling air to the sidewalls of the excavation could result in a catastrophic failure of the excavation sidewalls, potentially harming personnel and the integrity of the A-7 pipeline.
- During the installation of the soil borings, soil samples will be collected at five (5) foot drilling intervals and field screened using a Photo Ionization Detector (PID) and chloride field test kit. Selected soil samples will be submitted to the laboratory for determination of concentrations of BTEX, TPH and chloride. Soil boring and/or monitor well logs and laboratory analytical reports will be provided to the NMOCD-Hobbs District Office in the Soil and Groundwater Investigation Summary. Driller's logs will be provided to the New Mexico Office of the State Engineer (NMOSE) Roswell District Office.
- If monitor wells are warranted, groundwater monitor wells will be developed, gauged and sampled using EPA Standard Methods. Groundwater samples will be submitted to Xenco Laboratories, Inc., of Odessa, Texas, for determination of concentrations of chloride in accordance with EPA Method 300.0, BTEX in accordance with EPA Method SW846-8021b, and/or total dissolved solids (TDS) in accordance with SM2540C. Results from groundwater sampling events will be submitted to the NMOCD-Hobbs District Office in a Soil and Groundwater Investigation Summary. Based on the analytical results of the initial groundwater investigation, additional monitor wells may be required to adequately delineate any impact to groundwater at the site.
- Following the advancement of soil borings and/or the installation of the monitor wells, Southern Union Gas Services will request NMOCD approval to partially backfill the existing excavation to a depth of fifteen (15) feet bgs. Southern Union will partially backfill the excavation with non-impacted soil purchased from the landowner. Southern Union maintains the current depth of the excavation (approximately 44 feet bgs) constitutes a threat to public safety, the safety of our contractors and the integrity of the Southern Union A-7 pipeline.
- Southern Union will pursue a risk-based closure strategy for soil closure at the A-7 Bettis release site, employing a twenty (20) mil polyurethane liner set at approximately fifteen (15) feet bgs.

REPORTING

On review and approval of this proposal by the NMOCD and review by the NMOSE, Southern Union is prepared to begin the activities summarized in the *Proposed Soil and Groundwater Investigation Strategy* section of this report. On completion of the proposed field activities, Southern Union will submit a *Soil and Groundwater Investigation Summary* to the NMOCD - Hobbs District Office, documenting field activities and the laboratory analytical results of initial groundwater sampling.

LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this "Remediation Summary and Proposed Soil and Groundwater Investigation Strategy" report to the best of its ability. No other warranty, expressed or implied, is made or intended.

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

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1900 West Second Street Roswell, New Mexico 88201 margaret.wolf@state.nm.us

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Southern Union Gas Services, Ltd

801 S. Loop 464

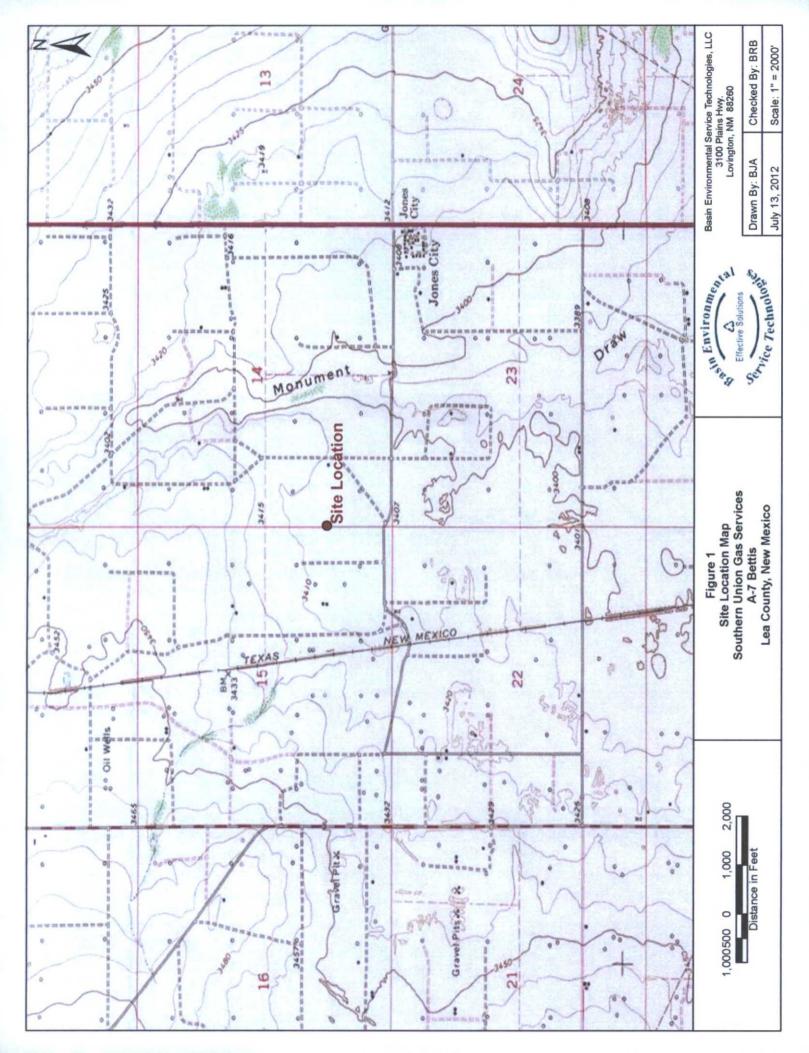
Monahans, Texas 79756 rose.slade@sug.com

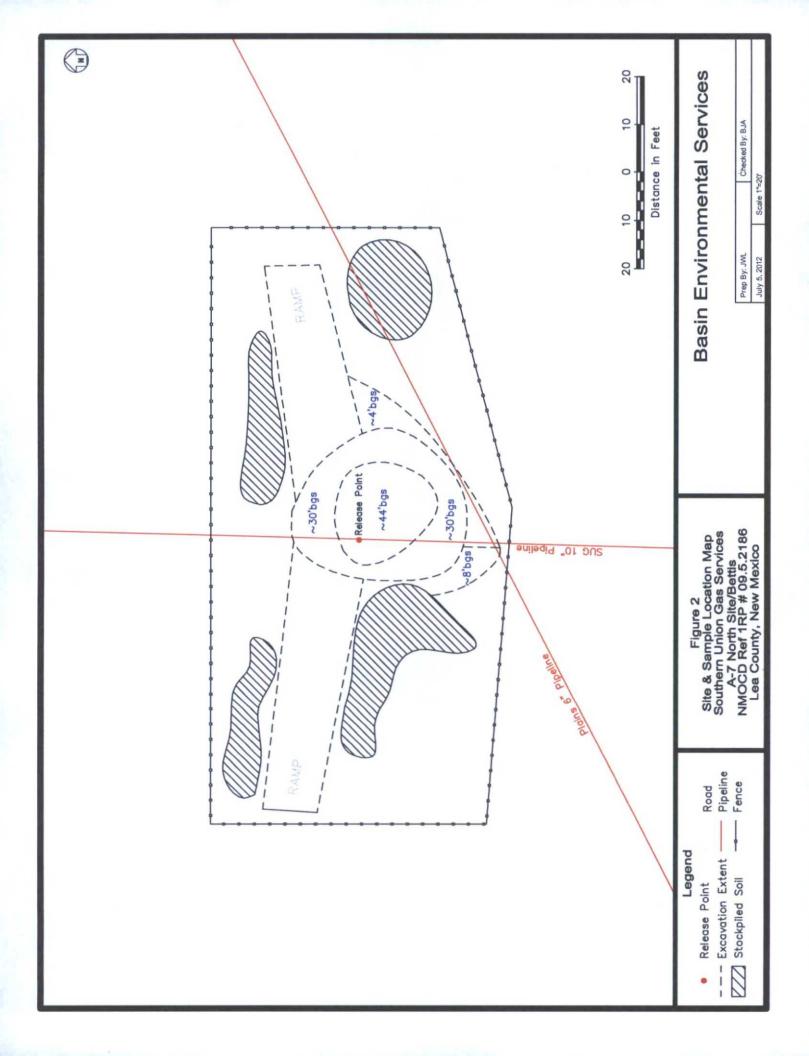
Copy 4: Basin Environmental Services Technologies, LLC

3100 Plains Highway

Lovington, New Mexico 88260

Figures





Tables

TABLE 1

SOUTHERN UNION GAS SERVICES A-7 NORTH SITE / BETTIS NMOCD REF # 1RP 09-5-2186 LEA COUNTY, NEW MEXICO

				METHOD:	METHOD: EPA SW 846-8021B, 5030	1B, 5030		M	METHOD: 8015B	58	METHOD: 4500-CI-B
SAMPLE	SAMPLE DEPTH (BGS)	SAMPLE DATE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL. BENZENE (mg/Kg)	TOTAL - XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	TOTAL TPH C ₆ -C ₂₈	CHLORIDE (mg/Kg)
1A	,	02/26/09						<10.0	<10.0	<10.0	256
18		02/26/09				,	,	<10.0	<10.0	<10.0	91
2A		05/26/09		1				<10.0	<10.0	<10.0	2,120
2B		05/26/09		,			1	<10.0	<10.0	<10.0	208
3A		05/26/09	٠	я	,			<10.0	51.4	51.4	32
3B		02/26/09		,				<10.0	10.8	10.8	64
4A		05/26/09		,			,	<10.0	<10.0	<10.0	32
4B		02/26/09		*	*		,	<10.0	<10.0	<10.0	91>
SA		02/26/09				*		<50.0	11,000	11,000	672
5B		05/26/09	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	336
					Secondary of		STATE OF STATE OF	REAL PRINTS	WILLIAM STATE	DANGED S	THE STATE OF THE S
Chlorides Soil Pile		03/13/09	,					*	,		9I>
CONTRACTOR OF THE PERSON OF TH								No. of the last	THE PERSON	THE REAL PROPERTY.	
Soil Pile #1 South	ì	03/11/09					,	<10	2,140	2,140	
Soil Pile #2 North		03/17/09				,	,	215	1,490	1,705	
	THE RESERVE	STRUTTENED IN	International Section		JAN GOLL	Name of the last					Disease of the later of the lat
Bottom Start	,	03/11/09	,	٠				3,900	12,100	16,000	
RP 13'	13 feet	03/17/09	,		,			3,970	9,360	13,330	
RP 16'	16 feet	03/17/09			,			2,270	6,500	8,770	
RP 18'	18 feet	03/12/09						3,290	7,670	10,960	
		た。		The second second	April (consult)			THE STATE OF THE S	The second		THE WATER WITH THE PARTY OF THE
#1 Sample		03/18/09	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	25.3	25.3	144
#1 Sample West Bank		03/18/09	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	25.3	25.3	176
Though Shipping Street	STATE OF STREET	SACREMENTS OF	THE REAL PROPERTY.			-		The second second		THE STATE OF	THE STATE OF THE
Bottom Hole @ 28"	28 feet	03/19/09	1.52	14.4	15.8	45.5	77.22	1,790	4,460	6,250	
Bottom Hole (a) 28'	28 feet	03/16/06						*4.78	*3.19		
THE RESIDENCE OF THE PARTY OF T				MONTH AND IN		The state of the		STATE STATE OF		The same	THE RESERVE TO SELECTION OF THE PERSON OF TH
Bottom Hole 37 ft	37 feet	03/24/09					,	1,670	4,450	6,120	
Bottom Hole 39 ft	39 feet	03/24/09	1.04	23.2	23.3	65.8	113.34	1,790	3,840	5,630	
DOMOIII FIOIC 39 II	39 1001	03/24/09						3.90	*3.98		
Rottom		03/31/00	0.000	750	0.71	15.6	20100	1 200	460	0,00	STATE OF THE PERSON NAMED IN COLUMN
Wast Dank M		03/31/09	0.907	9.30	10.0	42.0	72.122	1,790	3,450	5,240	
West bank in		03/31/09	0.383	9.98	14.0	43	67.565	1,920	2,980	4,900	
West Dank 5		03/31/09	20.0	0.071	0.74	13.2	20.261	762	2,110	2,872	
East Bank 5		03/31/09	39.0	<0.050	<0.050	<0.300	39.6	1,790	3,450	5,240	
North Bank		03/31/09	0.421	9.01	16.4	49.9	77.321	1,680	4,250	5,930	
THE REPORT OF THE PARTY.				Name and Address of the Party o	STREET, STREET	THE STREET		Division and in section and in secti			
Bottom Hole #4 40 ft	40 feet	01/60/10	0.453	5.95	5.22	17.6	29.223	1,680	4,250	5,930	
	THE REAL PROPERTY.	00101100		NO PERSONAL PROPERTY.	SCHOOL STATE OF STATE	THE RESIDENCE			STATE OF THE PARTY		
Last Sample 44 II	44 feet	07/10/09	0.814	9.76	7.52	28.5	46.594	1,620	3,480	5,100	
TO COOP OF THE			NO PAPEZACIONE DE LA COMPANSION DE LA CO		BEALBRICK BEALBRAN			No. of Concession, Name of Street, or other Persons, Name of Street, or other Persons, Name of Street, Name of			
NMOCD Cleanup Criteria	Ta a		10				20			001	

Appendices

Appendix A
Photographs



A-7 Bettis – Surface Staining from Initial Release



A-7 Bettis – Surface Staining from Initial Release



A-7 Bettis - Initial Excavation Activities and Pipeline Replacement (Looking South)



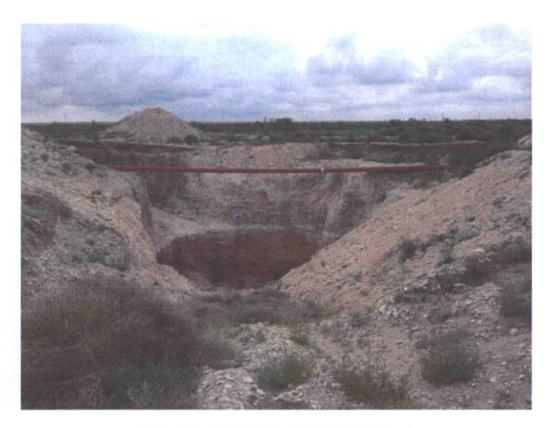
A-7 Bettis - Initial Excavation Activities and Pipeline Replacement (Looking North)



A-7 Bettis – Current Excavation (Looking Northeast)



A-7 Bettis – Current Excavation (Looking Southeast)



A-7 Bettis – Current Excavation (Looking East)



A-7 Bettis – Extent of Current Excavation

Appendix B Laboratory Analytical Reports



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE P.O. BOX 1226 JAL, NM 88252

Receiving Date: 02/26/09

Reporting Date: 03/03/09

Project Number: 2009-010

Project Name: A-7 NORTH SITE / BETTIS
Project Location: NORTH OF EUNICE

Sampling Date: 02/26/09

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML Analyzed By: CK/AB/HM

ANALYSIS DATE	02/27/09	02/27/09	02/26/09
H16976-1 1A	<10.0	<10.0	256
H16976-2 1B	<10.0	<10.0	16
H16976-3 2A	<10.0	<10.0	2,120
H16976-4 2B	<10.0	<10.0	208
H16976-5 3A	<10.0	51.4	32
H16976-6 3B	<10.0	10.8	64
H16976-7 4A	<10.0	<10.0	32
Quality Control	549	553	500
True Value QC	500	500	500
% Recovery	110	111	100
Relative Percent Difference	0.6	11.4	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

H16976 TCL SUGS



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE

P.O. BOX 1226 JAL, NM 88252

Receiving Date: 02/26/09

Reporting Date: 03/03/09

Project Number: 2009-010

Project Name: A-7 NORTH SITE / BETTIS Project Location: NORTH OF EUNICE

Sampling Date: 02/26/09

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML Analyzed By: CK/AB/HM

GRO DRO

(C₆-C₁₀) (>C₁₀-C₂₈) CI*

LAB NUMBER SAMPLE ID

(mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE	03/02/09	03/02/09	02/26/09
H16976-8 4B	<10.0	<10.0	< 16
H16976-9 5A	<50.0	11,000	672
H16976-10 5B	<10.0	<10.0	336
Quality Control	476	546	500
True Value QC	500	500	500
% Recovery	95.2	109	100
Relative Percent Difference	0.6	6.6	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts.

H16976 TCL SUGS



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE P.O. BOX 1226 JAL. NM 88252

Receiving Date: 02/26/09 Reporting Date: 02/27/09

Project Number: 2009-010

Project Name: A-7 NORTH SITE / BETTIS
Project Location: NORTH OF EUNICE

Sampling Date: 02/26/09 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBI SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE	02/26/09	02/26/09	02/26/09	02/26/09
H16976-10 5B	<0.050	< 0.050	< 0.050	< 0.300
Quality Control	0.050	0.051	0.051	0.154
True Value QC	0.050	0.050	0.050	0.150
% Recovery	100	102	102	103
Relative Percent Difference	2.0	1.9	<1.0	1.3

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM, 8824

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	6: Southern U	nion Gas	Sar	vic	09	,	T	2121	1	BIL	L TO	A. Western				A	NAL	YSIS	RE	QUE	ST		
Project Manage	or: TONY Sav	oie					P	.0.#	-														
Address:	P.O. Box 122	6					c	omp	any						0								
		State: Ny Zi	p: 8	82	52		A	ttn:							4								
	-631-9376	Fax#:			1		A	ddre	ss:						0								
Project #: 2.0		Project Owner:					c	ity:							8	- 1							
	A-7 North Si							tate:			Zip:			0	2								
Project Locatio	n: North of	Eunice					P	hone	#:				1	-	J								
Sampler Name:							F	ax #:				1,311		2		- 1							
FOR LAB USE ONLY	100	T	T		MA	RIX		PRE	ESE	RV.	SAMPLI	NG	1	00	0)								
1		dWC		œ									2		0								
		2	ERS	ATE	H								10	X	5								
Lab I.D.	Sample I.	D.	TAIN	Ď.	W	u	u :	ASE	8				510	37 Ex	-								
		D.	# CONTAINERS	GROUNDWATER	SOIL	OIL	HE	ACID/BASE	ICE / COOL	OTHER			00	0	0	- 1							
1111 071 1	* A	9	11	9	8 8	9 9	0 0	A		0	DATE	TIME				-						_	
H16976-1	13	6	1		V		+		4	-	126101	0800			-	-	-	-		-		-	-
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PLEASE NOTE: Labely a	5 5 nd Damages. Cardinal's šability and clier	[]	1	no what	-	in coult	-1	L abai	ha ha		((0914	L	V									
analyses. All claims includ	ing those for negligence and any other ca ardinal be liable for incidental or conseq	zuse whatsoever shall be deem	nd weive	ed unless	s made in	writing a	and rec	peived by	Cardi	inal wil	thin 30 days afte	r completion of th	ve applicab	le									
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		Time:																					
Delivered By	: (Circle One)				ample						ED BY:												
Sampler - UPS	- Bus - Other:			0	ool Yes No	Intact Y	es Vo	1	K	Initia	SB												

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE P.O. BOX 1226 JAL, NM 88252

Receiving Date: 03/13/09 Reporting Date: 03/13/09 Project Number: NOT GIVEN

Project Name: A-7

Project Location: NOT GIVEN

Analysis Date: 03/13/09
Sampling Date: 03/13/09
Sample Type: SOIL

Sample Condition: INTACT Sample Received By: CK

Analyzed By: TR

LAB NO SAMPLE ID (mg/kg)

H17055-1	CHLORIDES SOIL PILE	< 16
Ovelity Conta		500
Quality Contr		500
True Value Q	C	500
% Recovery		100

METHOD: Standard Methods 4500-CI'B

Note: Analysis performed on a 1:4 w:v aqueous extract.

Chemist

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326, FAX (50	05) 393-2476								
Company Name: Southern.	haven		BIL	LTO		ANA	ALYSIS	REQUEST	
Project Manager: TONY Solvin	A		P.O. #:						
Address:			Company:				1 1		
City: EUNICE	State: W N Zip: 85	1231	Attn:						
	ıx #:		Address:						
Project #: Pr	roject Owner:		City:						
Project Name: A - 7			State: 2	Zip:					
Project Location:			Phone #:						
Sampler Name: Change Com			Fax #:						1 1 1
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	0				
Lab I.D. Sample I.D. HIT OSS- A.7 Cloripes Soil	(G)RAB OR (C)OMP	GROUNDWATER WASTEWATER SOIL ONL SLUDGE	ACID/BASE: ICE / COOL OTHER:	DATE TIME 3-13-09 0 800	< (Mari				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's e analyses. All claims including those for negligence and any other cause service. In no event shall Cardinal be liable for incidental or consequents	whatsoever shall be deemed waived	t unless made in writing and	received by Cardinal with	hin 30 days after completion of t	he applicable				
affiliates or successors arising out of or related to the performance of ser		less of whether such claim r			56	□ No Add	I Phone #:	Maria Maria Maria	
4 .0	me:	/		Fax Resu	lt: 🗆 Yes	□ No Add	I Fax #:		
Relinquished By: D.	The Received Received	ed By:	ine	. (-mail	10041			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	8.73	Sample Condition Cool Intact Ves Yes	on CHECKE	ils)					

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE P.O. BOX 1226 JAL. NM 88252

Receiving Date: 03/17/09 Reporting Date: 03/17/09

Project Number: NOT GIVEN

Project Name: A-7

Project Location: NOT GIVEN

LAB NUMBER SAMPLE ID

Sampling Date: 03/17/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

Analyzed By: CK

GRO

DRO

(C₆-C₁₀)

(>C₁₀-C₂₈)

(

(mg/kg) (mg/kg)

ANALYSIS DAT	TE	03/17/09	03/17/09
H17067-1	SOIL PILE #1 SOUTH	<10.0	2,140
H17067-2	SOIL PILE #2 NORTH	215	1,490
Quality Control		473	516
True Value QC		500	500
% Recovery		94.6	103
Relative Percer	nt Difference	2.3	1.7

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Chemist

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476		
Company Name: Southern Union	BILL TO	ANALYSIS REQUEST
Project Manager: Tony S.	P.O. #:	
Address:	Company:	
City: EUNICE State: NMZip: 88231	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location:	Phone #:	
Sampler Name: Oay Oy	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	1
S S S		1 1 1 1 1 1 1 1 1 1 1
Lab I.D. Sample I.D.	<u>۷</u>	
(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL	OTHER: ACID/BASE: CICE/COOL OTHER:	
(G)RAB O GROUND WASTEW WASTEW SOIL	ACIDIBA ACIDIB	9
07- A-7 Soil Pile I South	3-12-90900	
2 A.7 SOIL PLE # 2 North	3-1709 0900	
PLEASE NOTE: Liability and Damagos. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contri	ct or tort, shall be limited to the amount paid by the dient for the	
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing is service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruption	nd received by Cardinal within 30 days after completion of the applic	able
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such class Relinquished By: Date: Received By:	n is based upon any of the above stated reasons or otherwise. Phone Result:	☐ Yes ☐ No Add'I Phone #:
Relinquished By: Date: 17-09 Received By:	Fax Result: REMARKS:	☐ Yes ☐ No Add'I Fax #:
Cary Coy Time: 00 Musty	e lui	vail Rusults to Tome
Relinquished By: Date: Received By:		I Gay w/ results 575.605-17
Time:	Cal	LI Gary W results 575.605-11
Delivered By: (Circle One) Sample Cond	tion CHECKED BY:	O .
Sampler - UPS - Bus - Other:		

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE P.O. BOX 1226 JAL, NM 88252

Receiving Date: 03/17/09
Reporting Date: 03/19/09
Project Number: NOT GIVEN

Project Number: NOT GIVEN Project Name: NOT GIVEN Project Location: NOT GIVEN Sampling Date: 03/17/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: CK

Analyzed By: AB

GRO

DRO

 (C_6-C_{10})

(>C₁₀-C₂₈)

LAB NUMBER SAMPLE ID

(mg/kg)

g) (mg/kg)

ANALYSIS I	DATE	03/18/09	03/18/09
H17072-1	BOTTOM START	3,900	12,100
H17072-2	RP 13 [°]	3,970	9,360
H17072-3	RP 16 [°]	2,270	6,500
H17072-4	RP 18 [°]	3,290	7,670
		505	504
Quality Cont	A beautiful to the control of the co	505	561
True Value	QC	500	500
% Recovery		101	112
Relative Per	cent Difference	0.6	0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Chemist



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name: Souther Union						BILL TO ANALYSIS REQUEST																				
Project Manager:	Tony S.							P	.0. #	ŧ:								T	T	T	T	T	T	T	T	T
Address: Evase						C	Company:						1													
City: EUNICE State: / MZip: 88231						A	Attn:																			
Phone #: Fax #:					A	Address:																				
					c	City:						_														
Project Name:								s	tate:			Zip:			3											
Project Location:								P	Phone #:					1												
Sampler Name:	Jeny Co	4						F	ax#	:					0					1						
FOR LAB USE ONLY	1 0	0	T	T		MAT	RIX	T	PR	ESI	ERV.	SA	MPL	NG	80											
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Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP.		GROUNDWATER				ü	_					13											
	oumpie i.b.		NTA N		TEW		1	2 2	ACID/BASE	ICE / COOL	œ				-											
	#17072-	.	S (S)	3 6	WAS	SOIL	=	TE C	9	CE/	OTHER	DA	TE	TIME	3											
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PLEASE NOTE: Liability and Dam	ages. Cardina's liability and client's ex-	clusive remody for any	olaim ar	rising	whether	based	in contr	act or t	ort, sha	if be i	imited t	to the amo	punt pa	d by the client to	r the			_					_			
service. In no event shall Cardinal	e for negligence and any other cause w be fiable for incidental or consequental of or related to the output and a cleaning	damages, including will	thout fin	nitatio	in, busin	ess inte	emuption	s, loss	of use,	or los	ss of pr	ofits incur	red by a	slient, its subsidio	Wills.	te										
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an C.	Tig	ne:												Fax Resul	S:	□ Ye	(Parameter)	No	- Annual Control	Fax#:						
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1,55 AV					Co	ol I	ntact	-		UH		ials)	* 1													
Sampler - UPS - B	us - Other:				_	Yes	HY	es No		(1	1	MC.														

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE P.O. BOX 1226 JAL. NM 88252

Receiving Date: 03/18/09
Reporting Date: 03/23/09
Project Owner: NOT GIVEN
Project Name: 2009-010
Project Location: A-7

Sampling Date: 03/18/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML Analyzed By: AB/ZL/HM

GRO DRO ETHYL TOTAL LAB NO. SAMPLE ID (Ca-C10) (>C10-C28) BENZENE TOLUENE BENZENE XYLENES CI* (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) ANALYSIS DATE 03/19/09 03/19/09 03/19/09 03/19/09 03/19/09 03/19/09 03/18/09 H17079-1 #1 SAMPLE < 0.050 <10.0 25.3 < 0.050 < 0.050 < 0.300 144 H17079-2 #1 SAMPLE WEST BANK <10.0 < 0.050 441 < 0.050 < 0.050 < 0.300 176 Quality Control 505 561 0.050 0.051 0.050 500 0.150 True Value QC 500 500 0.050 0.050 0.050 0.150 500 % Recovery 101 112 100 102 100 100 100 Relative Percent Difference 0.6 0.1 3.0 1.9 2.0 1.8 < 0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-: Std. Methods 4500-CI-B *Analyses performed on 1:4 w:v aqueous extracts.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director

H17079 TBCL SUGS

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAY (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Southern UNIO	U	BILL TO		ANALYSIS REQU	JEST
Project Manager: TOWY SAVOIE		P.O. #:			
Address:		Company:			
City: Eunice State	NM Zip: 88231	Attn:			
Phone #: Fax #:		Address:			
	Owner:	City:			
Project Name: 200 9-010		State: Zip:			
Project Location: A - 7		Phone #:			
Sampler Name: Q (pur	MATRIX	Fax#:			
RP#1 #1 SAmple RP#1 #1 SAmple west B	# CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER:: OTH	CC BTex		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's evolusive analyses. All claims including those for negligence and any other cause whatsos service. In no event shall Cardinal be liable for incidental or consequental damage affairs on successors arraing out of or related to the performance of aero can be Relinquished By: Cate	or shall be deemed waived unless hade in writing a se, including without familiation, business interruption estinger by Cardinar regardless of whether such claim Received By:	ition CHECKED BY:	the applicable lanes. me. esult: Yes No	Add'I Fax #:	



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE P.O. BOX 1226 JAL, NM 88252

Receiving Date: 03/19/09 Reporting Date: 03/23/09

Project Number: 2009-010 Project Name: A-7

Project Location: BETTIS

Sampling Date: 03/19/09 Sample Type: SOIL

Sample Condition: INTACT

Sample Received By: ML

Analyzed By: AB

GRO

DRO

 (C_6-C_{10})

(>C₁₀-C₂₈)

LAB NUMBER SAMPLE ID

(mg/kg)

(mg/kg)

ANALYSIS DATE	03/20/09	03/20/09
H17089-1 BOTTOM HOLE 28'	1,790	4,460
Quality Control	494	556
True Value QC	500	500
% Recovery	98.8	111
Relative Percent Difference	0.6	5.6

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Chemist



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES

ATTN: TONY SAVOIE P.O. BOX 1226 JAL, NM 88252

Receiving Date: 03/19/09 Reporting Date: 03/23/09

Project Number: 2009-010 Project Name: A-7

Project Location: BETTIS

Sampling Date: 03/19/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

Analyzed By: AB

TCLP

GRO

DRO

(C6-C10)

(>C₁₀-C₂₈)

LAB NUMBER SAMPLE ID

(mg/L)

(mg/L)

ANALYSIS DATE	03/20/09	03/20/09
H17089-1 BOTTOM HOLE 28'	4.78	3.19
Quality Control	494	556
True Value QC	500	500
% Recovery	98.8	111
Relative Percent Difference	0.2	0.8

METHODS: TPH GRO & DRO: EPA SW-846 1311/8015 M

03/23/09

H17089 TCLP T SUGS



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES ATTN: TONY SAVOIE

P.O. BOX 1226 JAL, NM 88252

Receiving Date: 03/19/09 Reporting Date: 03/23/09 Project Number: 2009-010

Project Name: A-7

Project Location: BETTIS

LAB NUMBI SAMPLE ID

Sampling Date: 03/19/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

Analyzed By: AB

ETHYL TOTAL BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE	03/20/09	03/20/09	03/20/09	03/20/09
H17089-1 BOTTOM HOLE 28'	1.52	14.4	15.8	45.5
Quality Control	0.049	0.050	0.049	0.149
True Value QC	0.050	0.050	0.050	0.150
% Recovery	98.0	100	98.0	99.3
Relative Percent Difference	1.8	3.4	3.4	4.6

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 EAY (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	Souther	THE RESERVE OF THE PERSON NAMED IN		N			-				17	3//	L TO						ANA	LYSI	SR	EQU	EST		-	
Project Manage	" Tony So	DE				-			P.C). #:										T			T			
Address:	exima								Col	mpa	ny:															
City:		State:	Zip	:					Att																	
Phone #:		Fax #:							Add	dres	is:					1										
Project#: 208	79-010	Project Owne	r:						City	y:																
Project Name:									Sta	te:		7	Zip:													
Project Location	Project Location: Bettis								Pho	one	#:															
Sampler Name: GARY Coy									Fax	· #:							0									
FOR LAB USE ONLY				Г		M.	ATRI	X		PRE	SE	_	SAMPLI				7					1				
Lab I.D.	Sample		(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	3-19-09 DATE	0900 TIME	8015m	Brex	Sois Te									
28 Pt	Bottom	Hole.				6									V	4	V									
H17089-1																										
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	ed Damages. Cardinate liability and ing those for negligence and any othe																		To the last of the							
service. In no event shall C	ardinal be liable for incidental or con ing out of or related to the performan	nsequental damages, includin	g Wilhol	ut jimit	itien, b	ateria	Infetrup	dions, I	oes of	USA, D	r loss	of pro	fits incurred by o	sient, its subsidiar	ries,											
Relinquished By		Date:	Re	cei	/ed	Зу:								Phone Res	sult:	☐ Yes		No No	Add	Phone	紩					
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Relinquished B	J. Cary	Date: 3-14-69	Re	L	(A	TX		Xe	1	Ba	7	1			BI	nar	L	Ke	50	43		K	<u>Ma</u>	5H	11	
Delivered By	: (Circle One)			,	(amp	Inta	ect		-		CKE	ED BY:													
Sampler - UPS - Bus - Other:					Yes		_	y	P	Sp																

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES

ATTN: TONY SAVOIE

P.O. BOX 1226 JAL, NM 88252

Receiving Date: 03/24/09

Reporting Date: 03/26/09 Project Number: 2009-010

LAB NUMBER SAMPLE ID

Project Name: A-7 10" NORTH SIDE

Project Location: NORTH OF EUNICE, NM

Sampling Date: 03/24/09

Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

Analyzed By: AB

GRO

DRO

 $(C_6 - C_{10})$

(>C₁₀-C₂₈)

(mg/kg)

(mg/kg)

ANALYSIS D	DATE	03/25/09	03/25/09
H17110-1	BOTTOM HOLE 37FT	1,670	4,450
H17110-2	BOTTOM HOLE 39FT	1,790	3,840
Quality Cont	rol	402	440
True Value C	QC .	500	500
% Recovery		80.4	88.0
Relative Per	cent Difference	3.2	18.2

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Chemist



Receiving Date: 03/24/09 Reporting Date: 03/26/09 Project Number: 2009-010

Project Name: A-7 10" NORTH SIDE

Project Location: NORTH OF EUNICE, NM

Sampling Date: 03/24/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBI SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE	03/25/09	03/25/09	03/25/09	03/25/09
H17110-2 BOTTOM HOLE 39FT	1.04	23.2	23.3	65.8
Quality Control	0.049	0.050	0.048	0.147
True Value QC	0.050	0.050	0.050	0.150
% Recovery	98.0	100	96.0	98.0
Relative Percent Difference	<1.0	1.4	1.5	3.4

METHOD: EPA SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	: Southon	N UNION	-						III A		8//	LL TO	New July					ANA	LYSI	IS R	EQUE	ST		
Project Manage	Tony S	OVIDE						P	.0.	distance of the							T	T	T	T	T	T		
Address:	Erina							C	omp	any	:													
City: EU	WICE	State: N M	Zip	: 0	182	31		A	ttn:									1						
Phone #:		Fax#:						A	ddre	ess:														
Project #: 20	010 - 900	Project Owner	:					c	ity:									1						
	roject Name: A7 10" North SIDe						S	tate	:		Zip:									1				
	Project Location: WORTH of EUNICO				Phone #:										1									
Sampler Name:							Fax #:										1							
FOR LAB USE ONLY				П		MAT	RIX	-	PR	RESE	RV.	SAMPL	ING	7	V			1		1				
Lab I.D.	Sampl		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	John Street	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	8015	Bete									
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analyses. All claims include service. In no event shall confidence or successors arise Relinquished By Relinquished By	ng those for negligence and any ardinal be flable for incidental or ag out of or related to the perfor	and client's exclusive remedy for a other cause whatsoever shall be in consequential damages, including mance of services hersunder by C Date: Date: Time:	Re	t tents regar	ed unless flors, bus fless of v red B	made in inces into shether s	writing struption such cla	and re-	ceived of use model us	by Card , or loss pon any	of proof the	offin 30 days after office incurred by	er completion of th client, its subsidiar	e applicab nes. e. sult: t:	☐ Yes	, N	No No	Add'	Phone Fax#:	sul1	FS			
100	- Bus - Other:				Co	yes No	Intact	t			Uniti													

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Receiving Date: 03/24/09 Reporting Date: 03/30/09

Project Number: 2009-010 Project Name: A-7 10" NORTH SIDE

Project Location: NORTH OF EUNICE, NM

Sampling Date: 03/24/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

Analyzed By: AB

TCLP

GRO

DRO

 $(C_6 - C_{10})$

(>C10-C28)

LAB NUMBER SAMPLE ID

(mg/L)

(mg/L)

ANALYSIS DATE	03/28/09	03/28/09
H17110-2 BOTTOM HOLE 39 FT	3.96	3.98
Quality Control	439	462
True Value QC	500	500
% Recovery	87.8	92.4
Relative Percent Difference	1.9	8.6

METHODS: TPH GRO & DRO: EPA SW-846 1311/8015 M

Chemist



Receiving Date: 03/24/09
Reporting Date: 03/26/09
Resided Number: 2000-040

Project Number: 2009-010
Project Name: A-7 10" NORTH SIDE

LAB NUMBER SAMPLE ID

Project Location: NORTH OF EUNICE, NM

Sampling Date: 03/24/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

Analyzed By: AB

GRO

DRO

 $(C_6 - C_{10})$

(>C₁₀-C₂₈)

(mg/kg)

(mg/kg)

ANALYSIS DATE		03/25/09	03/25/09
H17110-1 B	SOTTOM HOLE 37FT	1,670	4,450
H17110-2 B	SOTTOM HOLE 39FT	1,790	3,840
Quality Control		402	440
True Value QC		500	500
% Recovery		80.4	88.0
Relative Percent	Difference	3.2	18.2

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Chemist



Receiving Date: 03/24/09 Reporting Date: 03/26/09

Project Number: 2009-010
Project Name: A-7 10" NORTH SIDE

Project Location: NORTH OF EUNICE, NM

Sampling Date: 03/24/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

Analyzed By: ZL

ETHYL TOTAL
BENZENE TOLUENE BENZENE XYLENES
LAB NUMBI SAMPLE ID (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE	03/25/09	03/25/09	03/25/09	03/25/09
H17110-2 BOTTOM HOLE 39FT	1.04	23.2	23.3	65.8
			-	
Quality Control	0.049	0.050	0.048	0.147
True Value QC	0.050	0.050	0.050	0.150
% Recovery	98.0	100	96.0	98.0
Relative Percent Difference	<1.0	1.4	1.5	3.4

METHOD: EPA SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/26/09

Com	pany Name	· Souther	N UNION								B	IL	L TO						ANALYSIS REQUEST							
Proje	ect Manage	Tony	SOVIDE						F	.O. #	t:						6		T		T		T			
Add	ress:	Eringo							C	omp	any:						10									
City:	EUI	NICE	State: N M	Zip	: 8	182	31		A	ttn:							13		1							
Phor			Fax#:						A	ddre	ess:						1			1						
Proje	ect#: 20	010.90	Project Owner	:					c	ity:							de									
Proje	oject Name: A7 10" North SiDe					State: Zip:									8											
Proje	ect Location	" WOR-	th of Eun	110	0				P	hone	e #:						A.									
Sam	pler Name:				-		-		F	ax#	THE RESERVE OF				_		5					1				
FOR	LAB USE ONLY			0.			MA	TRIX	_	PR	ESER	٧.	SAMPLI	NG	Z	5	0		1							
上a 世) 世)	ab I.D.		ole I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER	DATE	TIME	8015	180 to	Tap 8									
44		Bottom	Hole 37 Pt Hole 39 Ff	H	Н		V		+	+	-		3-24			-	K	-	+-	-	+	-	+	+	-	
110	2	Bottom	Hole 39 FT	H	H	-	V		-	+		+	324	0200	V	V	A	_	+	-	+	+-	+-	+	-	
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PLEASE	E NOTE: Liability an	d Damages, Cardinal's liabilit	ly and client's exclusive remedy for a	ny cla	m arise	ng wheth	er baser	in cont	ract or	lort, shi	A be fimit	test to	the amount par	d by the client for	the					_						
analyses	s. All claims includin	ng those for negligence and a	ny other cause whatsoever shall be or consequental damages, including	deeme	d water	ed unless	made it	witting	and re	ceived l	by Cardin					ble										
Relin		reg out of or related to the port	Date: 3-24-09 Time: Date:	Re	ceh		y:								sult: t:	O Ye	es D	No No	Add'	Phon Fax#	e#: 5: 8Ul	ts				
Dol	livered Du	(Circle One)	Time:				mple	C	Albi	.	CUE	CVE	D BY:													



Receiving Date: 03/31/09
Reporting Date: 04/01/09
Resided Number: 2000 010

Project Number: 2009-010
Project Name: A-7 10" NORTH SITE

Project Location: NORTH OF EUNICE, NM

Sampling Date: 03/31/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML

Analyzed By: AB/ZL

		GRO	DRO			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE:	03/31/09	03/31/09	04/01/09	04/01/09	04/01/09	04/01/09
H17156-1 BOTTOM	1,790	3,450	0.962	9.56	16.0	45.6
H17156-2 WEST BANK N	1,920	2,980	0.585	9.98	14.0	43.0
H17156-3 WEST BANK S	762	2,110	0.250	0.071	6.74	13.2
H17156-4 EAST BANK S	<10.0	39.6	< 0.050	< 0.050	< 0.050	< 0.300
H17156-5 NORTH BANK	1,680	4,250	0.421	10.6	16.4	49.9
Quality Control	543	564	0.052	0.052	0.05	0.150
True Value QC	500	500	0.050	0.050	0.050	0.150
% Recovery	109	113	104	104	100	100
Relative Percent Difference	12.4	8.9	1.6	1.4	2.0	2.0

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director



01 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2476

(575) 393-2326 Fax (575) 393-2476		Pageor							
Company Name: Southern UNION	BILL TO	ANALYSIS REQUEST							
Project Manager: Tony SAVIOE	P.O. #:								
Address:	Company:								
City: EUNICE State: NM Zip: 882	3 / Attn:								
Phone #: Fax #:	Address:								
Project #: 2009-010 Project Owner:	City:								
Project Name: A.7 10" NORTH Site	State: Zip:								
Project Location: North of EUNICE	Phone #:								
Sampler Name: Quy Coy	Fax #:								
FOR LAB LISE CIVEY	MATRIX PRESERV. SAMPLING								
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER: ACID/BASE ICE / COOL OTHER:	8.Tex 8015 m							
Bottom H17156-1	3-31-00 0830								
West Bank N -2	11 11								
west Bawks -3	15 15								
EAST BOOKS -4	13								
North Bank 5	10 11								
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whethe analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless									
service in no event shall Cardinal be table for incidental or consequental damages, including without fimitation, busing affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of w	ness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries								
Sampler Relinquished: Date: 3-31-09 Time: 0 8 3 Date: Received By Time:	Phone Result: REMARKS:	: 🗆 No Add'l Fax #:							
Co	mple Condition CHECKED BY: ool Intact (Initials) Yes Yes No No								

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



July 16, 2009

Tony Savoie Southern Union Gas Services P.O. Box 1226 Jal, NM 88252

Re: A-7 10" North Site

Enclosed are the results of analyses for sample number H17777, received by the laboratory on 07/10/09 at 10:00 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene Laboratory Director



ANALYTICAL RESULTS FOR SOUTHERN UNION GAS SERVICES

ATTN: TONY SAVOIE

P.O. BOX 1226 JAL. NM 88252

Receiving Date: 07/10/09

Reporting Date: 07/13/09

Project Number: 2009-010

Project Name: A-7 10" NORTH SITE

LAB NUMBER SAMPLE ID

Project Location: NORTH OF EUNICE, NM

Sampling Date: 07/09/09 & 07/10/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: ML

Analyzed By: AB

GRO

DRO

(C₆-C₁₀)

(>C10-C28)

(mg/kg)

(mg/kg)

ANALYSIS	DATE	07/10/09	07/10/09
H17777-1	BOTTOM HOLE #4 40FT	5,170	9,220
H17777-2	LAST SAMPLE 44FT*	1,620	3,480
Quality Cor	ntrol	598	598
True Value		500	500
% Recover	у	120	120
Relative Pe	ercent Difference	19.6	18.3

METHODS: TPH GRO & DRO: EPA SW-846 8015 M. Reported on wet weight. Not accredited for GRO/DRO.

*Surrogates outside historical limits due to sample matrix interference.

Chemist



Receiving Date: 07/10/09 Reporting Date: 07/15/09

Project Number: 2009-010

Project Name: A-7 10" NORTH SITE

Project Location: NORTH OF EUNICE, NM

Sampling Date: 07/09/09 & 07/10/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: ML

Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS D	ATE:	07/15/09	07/15/09	07/15/09	07/15/09
H17777-1	BOTTOM HOLE #4 40FT	0.453	5.95	5.22	17.6
H17777-2	LAST SAMPLE 44FT*	0.814	9.76	7.52	28.5
Quality Contr	rol	0.054	0.052	0.051	0.161
True Value Q		0.050	0.050	0.050	0.150
% Recovery		108	104	102	107
	cent Difference	10.7	7.8	7.0	8.2

METHODS: EPA SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Reported on wet weight.

*Surrogate outside historical limits due to sample matrix interference.

Lab Director

(E)	400044			
CO.	ARDINAL	LABORA	TOR	ES
16000	101 Fast	Marland, Hob	bs NM I	88246

(575) 393-2326 Fax (575) 393-2476

(575) 393-2326 Fax (575) 393-2476		Page of					
Company Name: Southern Union	BILL TO	ANALYSIS REQUEST					
Project Manager: TONY SAVIOE	P.O. #:						
Address:	Company:						
City: EUNICE State: NM Zip: 82231	Attn:						
Phone #: Fax #:	Address:						
Project #: 2,009 - 0/0 Project Owner:	City:						
Project Name: A-7 10" North Site	State: Zip:						
Project Location: North of Eunice	Phone #:						
Sampler Name: Gary Cary	Fax #:						
MA MA	TRIX PRESERV. SAMPLING						
CONTAINERS GROUNDWATER CONTAINERS GROUNDWATER SOIL	Studge Studge Studge Studge OTHER: ACIDIBASE: ACIDIBASE	7 \ B.Tex \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
PLEASE NOTE: Liability and Damages. Cardinal's flability and client's exclusive remedy for any claim arising whether based analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made is service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business in affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether Sampler Relinquished: Date: Received By: Time: Total: Date: Received By:	n writing and received by Cardinal within 30 days after completion of the a temptions, loss of use, or loss of profits incurred by client, its subsidiaries	applicable 5. ult:					
Cool	Condition CHECKED BY: Intact (Initials)						

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

Appendix C Release Notification & Corrective Action (Form C-141)

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505 2009-010

. Form C-141 Revised October 10, 2003

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

			Rele	ease Notific	catio				ctio					
						OPERA'	<u>ro</u>	R			al Report	Final Rep		
Name of Co	ompany	Albania and the same of the sa		n Gas Services,		Contact			_			Tony Savoic		
				Telephone ?						505-395-211				
Facility Na	me		Lea	County Field D	ept.	Facility Typ	e_		_		Natu	ral Gas Gatherin		
Surface Owner: Charlie Bettis Mineral Owner:		wner:	Fee				Lease N							
				LOCA	ATTO	N OF REI	LE	ASE APL	# 30	HE ME DE	JAIP DO .	00		
Unit Letter L	Section 14	Township 21S	Range 37E	Feet from the	North	South Line	Fe	et from the	East/	West Line	County	Lea		
				Latitude N32		2 Longitud			,					
Type of Rele	ase : Crude	Oil, Produced	water, an	d Natural Gas	- CIU	Volume of	Rel	ease: 200 Bb		Volume I	Recovered '	130 Bbls		
		Natural Gas P	ipeline			not known		of Occurrence	æ	Date and Time: 2:0		Hour of Discovery 8/22/07 0 p.m.		
Was Immedi	ate Notice (Yes [No Not Re	equired	If YES, To Gary Wink		om? -call NMOCI)					
By Whom? 7								8/22/07 2:56						
Was a Water	course Read		Yes 🏻	No		If YES, Vo	Mulk	e Impacting t	he Wa	tercourse.				
A 10" Natu	ral Gas gat arted picki	hering line o	perating mostly ra	Action Taken.* at approximatel ain and produce alandowner was	d water	" The leak	area	was excava	ted an	d the 10" r	atural gas	te with a vacuum line was		
remediation water picked oily sheen.	will follow t up was rain	he NMOCD r water with a	ecommen slight oily	sheen. Approxim	leaks a nately 13	nd spills. Due	to t	recent heavy i	rains in rom the	the area it ve depression	in order to r	d that most of the remove all of the		
regulations a public health should their of or the environ	or the environment. In a	are required to ronment. The ave failed to a	acceptant acceptant dequately CD accep	e is true and comp nd/or file certain rece of a C-141 report investigate and retained of a C-141	elease n ort by the emediat	otifications are e NMOCD m e contaminati	arke on the	erform corrected as "Final R hat pose a three operator of	eport" cat to g	tions for rele does not rele ground water sibility for co	eases which eve the oper s, surface wa ompliance w	may endanger ator of liability ter, human health ith any other		
Signature:	1	ay 5	Bun	û		Approved by			30	Johns	0			
Printed Name	: John	A. Savoie			-						NGINEER			
Title: Reme	diation Sup	ervisor				Approval Dat	e:	3.24.0	9	Expiration 1	Date: 5. Z	4.09		
E-mail Address: tony.savoie@sug.com				Conditions of Approval:										

Phone: 505-395-2116

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action **OPERATOR** Initial Repor Final Report Tony Savoie Name of Company Southern Union Gas Services, Ltd. | Contact P.O. Box 1226 Jal, N.M. 88252 Telephone No. 505-395-2116 Address Natural Gas Gathering **Facility Name** Lea County Field Dept. | Facility Type Surface Owner: Charlie Bettis Mineral Owner: Fee Lease No. LOCATION OF RELEASE North/South Line East/West Line Unit Letter Section Township Range Feet from the County L 14 218 37E Lea Latitude N32 28.522 Longitude W103 8.529 WTR = 50' NATURE OF RELEASE Volume Recovered Type of Release: Crude Oil, Produced water, and Natural Gas Volume of Release: 200 Bbls 130 Bbls Fluid and 81 MCF Nat. Gas Date and Hour of Discovery 8/22/07 Source of Release: 10" Natural Gas Pipeline Date and Hour of Occurrence not known Time: 2:00 p.m. If YES, To Whom? Was Immediate Notice Given? X Yes No Not Required Gary Wink On-call NMOCD By Whom? Tony Savoic Date and Hour: 8/22/07 2:56 p.m. If YES, Volume Impacting the Watercourse Was a Watercourse Reached? ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* A 10" Natural Gas gathering line operating at approximately 30 p.s.i. developed a leak. Repair crews arrived at the leaf truck and started picking up fluid "mostly rain and produced water." The leak area was excavated and the 10" natural gas line was temporarily repaired with a leak clamp. The landowner was notified and questioned about livestock in the area. Describe Area Affected and Cleanup Action Taken. Approximately 26,250 sq.ft. of pasture land was affected by the leak and temporary repair. Final remediation will follow the NMOCD recommended guidelines for leaks and spills. Due to recent heavy rains in the area it was estimated that most of the water picked up was rain water with a slight oily sheen. Approximately 130 Bbls of fluid was removed from the depression in order to remove all of the oily sheen. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Signature: unuo Approved by District Supervisor ENVIRONMENTAL ENGINEER Printed Name: John A Savoie Approval Date: 8-31.07 Title: Remediation Supervisor Expiration Date: 10 . (. 87 E-mail Address: tony.savoie@sug.com Conditions of Approval: Attached SUBMIT VEH DELINEATION Date: 8/28/07 Phone: 505-395-2116 W CLOSERE C. 141 Attach Additional Sheets If Necessary