

July 9, 2012

Mr. Geoffrey Leking **NMOCD District 1** 1625 N. French Drive Hobbs, NM 88240

921 North Bivins Amarillo. Texas 79107 Phone 806,467,0607 Fax 806.467.0622

ARTESIA

AMARILLO

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575 746 8768 Fax 575.746.8905

AMENDED Subject:

Soil Assessment and Remediation Work Plan

Devon Energy

Uncle Sam 13 Federal No. 1

API#30-025-30732

AUSTIN

9II West Anderson Lane Suite 202 Austin, Texas 78757 Phone 512.989.3428 Fax 512.989.3487 Dear Mr. Leking,

Devon Energy has contracted Talon/LPE (Talon) to perform soil sampling and remediation services at the referenced Uncle Sam Federal No. 1 release. Our soil sampling results and proposed remediation activities consist of the following:

HOBBS

318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658

Incident Date

May 28, 2012

MIDLAND

2901 State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

Background Information

The Uncle Sam 13 Federal No. 1 is located approximately forty-five (45) miles east of Artesia, New Mexico. The legal location for the site is Section 13, Township 18 South and Range 32 East in Lea County, New Mexico. More specifically, the latitude and

SAN ANTONIO

II Commercial Place Schertz, Texas 78154 Phone 210.265.8025 Fax 210.568.2191 longitude for the release are 32.751905 North and -103.717712 West. According to the soil survey provided by the United States Department of Agriculture

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918.742.0871 Fax 918.382.0232 National Resources Conservation Services, the soil in this area is made up of Kermit-P Palomas fine sands with 0 to 12 percent slopes. The local surface and shallow geology is Quaternary in age and is comprised of eolian sands and piedmont deposits which include silty soils under lain with hard caliche. The New Mexico State Engineer web site indicates the nearest ground water data to be in S30-T18S-R33E. The ground water in Section 30 is reported to be at depth of 35' below ground surface (bgs). referenced groundwater data is presented in Appendix I.

The ranking for this site is 20 based on the as following:

ENVIRONMENTAL CONSULTING **ENGINEERING**

DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING Depth to ground water

<50"

Wellhead Protection Area Distance to surface water body

>1000' >1000°

Toll Free: 866.742.0742 www.talonlpe.com

1RP-4334 DKJ1418738411

NIMOCD-DISTI 7/12/12

RP 433L

Incident Description

On May 28, 2012 corrosion on the piping of the heater treater lead to a release of 50 barrels of produced water and 5 barrels of oil to be released. All fluids were contained within the bermed area of the heater treater. A vacuum truck was immediately brought to the location and recovered 5 barrels of oil and 10 barrels of produced water. The heater treater was repaired.

Actions Taken

On June 8, 2012 Talon/LPE mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 4-feet below ground surface. Soil sample locations are illustrated on the attached site plan.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chlorides were analyzed per SM4500CL-B. The complete laboratory reports are attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

June 14, 2012

Sample	Depth	BTEX	Chlorides	TPH (mg/kg)
S-1, Berm Area	0'	191.5	1,550	47,820
	1'	1.968	384	3,570
	2'	0.072	96	5,000
	4'	< 0.150	96	16

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 100 mg/kg.

Summary and Conclusions

- Ground water in the project vicinity is less than 50-feet below land surface.
- Based upon the results of the laboratory data obtained for this investigation, the vertical impacts of the hydrocarbon release have been documented to extend 2-4 feet below ground surface.

Proposed Remedial Actions

- The impacted area within the berm of the heater treater will be excavated to a depth of 3-4 feet deep and transported to a NMOCD approved solid waste disposal facility.
- Confirmation soil samples will be collected upon completion of the excavation activities. The soil samples will be submitted to the laboratory for TPH analysis using Method 8015M, and BTEX analysis using Method 8021B.
- Upon NMOCD approval of the confirmation samples, the excavated area will be backfilled to grade using new material transported from a local borrow pit. The area will be contoured to match the existing location.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Hobbs Office utilizing Form C-141.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575,746,8768.

Respectfully submitted,

TALON/LPE

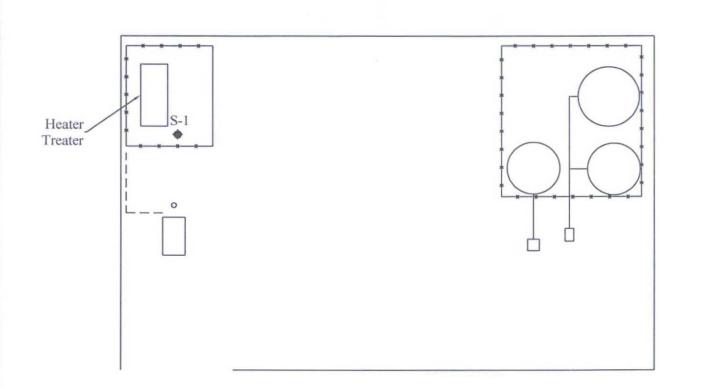
Mike Stubblefield

mile Sullepell

Project Manager

David J. Adkins District Manager

SITE MAP





Legend

- Sample Location

TALON

Date: 06/19/2012

Scale: 1" = 40'

Drawn By: TJS

Uncle Sam 13 Federal No. 1
Devon Energy Corporation
Maljamar, New Mexico
Figure 1 - Site Plan

APPENDIX I GROUNDWATER DATA INITIAL C-141

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised March 17, 1999

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

Attached

			Rele	ease Notific	cation	and Co	rrective A	ction				
				OH	PERAT	FOR		⊠ In	itial Re	port Final Report		
Name of (Company	Devon E		(Contact Merle Lewis							
Address P. O. Box 250						Γelephone	No. 575-7	48-63	04			
Artesia, N	M 8821	1										
Facility N	ame Und	cle Sam 13	Federa	al 1	I	Facility T	ype Oil Wel	11				
Surface O	wner			Mineral	Owne	r			Lease	No.		
				LOCA	ATION	OF RE	LEASE					
Unit Letter B	Section 13	Township 18S	Range 32E	Feet from the 990	North/S North	South Line	Feet from the 1980	East/V East	Vest Line	County Lea		
					TURE	OF REL						
Type of Rele	ase 50 bbls	Produced Wa	iter / 5 bbl	s of Oil		Volume of	Release 55 bbls		Volume I Water	Recovered 5 oil / 10 Produced		
Source of Re Corrosion sp		e				Date and F 5/28/12, 1	Hour of Occurrent 1:45AM	ce	Date and 11:45AM	Hour of Discovery 5/28/12,		
Was Immedi	ate Notice (Yes [No □ Not R	equired			Marlain l	Eaton & O	CD / Eli Gonzales		
By Whom?	Merle Lev		, 100 [equired	Date and Hour 5/28/12, BLM / 4:15PM, OCD/ 4:20PM						
Was a Water							olume Impacting			D/ 4.20FW		
			Yes 2	☑ No								
If a Waterco	urse was Im	pacted, Descri	ibe Fully.	*								
N/A												
Dagariba Co	use of Probl	em and Reme	dial Actic	n Tokon *								
					veloped a	leak, result	ing in a spill of 50	Obbls of	produced v	water and 5bbl spill of oil.		
Describe Are	a Affected	and Cleanup	Action Ta	ken.*								
It was disco	vered that th	nere was a con	rosion sp	ot on the nipple, v	vere the l	eak develope	ed. All fluid was	containe	ed within th	ne heater treater berm. A		
vacuum truc	k was able t	o recover 5 b	arrels of o	il and 10 barrels o	of produc	ed water. Ta	lon will complete	e clean-u	ip plan.			
I hereby cert	ify that the	information g	iven abov	e is true and com	plete to th	ne best of my	knowledge and	understa	nd that pur	suant to NMOCD rules and		
regulations a	ll operators	are required	to report a	nd/or file certain	release n	otifications a	nd perform corre	ctive act	ions for rel	leases which may endanger		
should their	operations l	nave failed to	adequatel	v investigate and	remediate	e contaminat	ion that pose a th	reat to g	loes not rel	lieve the operator of liability er, surface water, human health		
or the enviro	nment. In a	addition, NM(OCD acce	ptance of a C-141	report de	oes not reliev	ve the operator of	respons	ibility for o	compliance with any other		
federal, state	, or local la	ws and/or reg	ulations.				OII CON	CEDI	7 A TEXANS	DIVIDIONI		
							OIL CON	SERV	AHON	DIVISION		
Signature: G	racie Bu	istamante	י									
Printed Nam	e: Gracie E	Sustamante				Approved by	District Superv	risor:		*		
Title: Field Adm. Support						Approval Date: Expiration Date:						

Conditions of Approval:

Date: 5/30/12 Phone: (575) 746-5561

^{*} Attach Additional Sheets If Necessary



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(In feet)

POD

QQQ

Depth Depth Water

POD Number

Code Subbasin County 64 16 4 Sec Tws Rng

Y Distance Well Water Column

L 03454

622200

(NAD83 UTM in meters)

3744 100

35

LE 2 2 30 18S 33E 3621422*

Average Depth to Water:

35 feet

Minimum Depth:

35 feet

Maximum Depth:

35 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 620425

Northing (Y): 3624719

Radius: 4000

*UTM location was derived from PLSS - see Help

APPENDIX II LABORATORY RESULTS



June 14, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: UNCLE SAM 13 FED. NO. 1

Enclosed are the results of analyses for samples received by the laboratory on 06/08/12 13:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: Reported: 06/08/2012

06/14/2012

UNCLE SAM 13 FED. NO. 1

Project Name: Project Number: Project Location:

700794.029.01

SEC.13 - T19S - R32E

Sampling Date:

Sampling Type:

06/08/2012

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 0' BERMED AREA (H201298-01)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.30	0.500	06/13/2012	ND	2.10	105	2.00	4.88	
Toluene*	36.7	0.500	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	50.5	0.500	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	101	1.50	06/13/2012	ND	6.86	114	6.00	0.457	
Surrogate: 4-Bromofluorobenzene (PIL	185	% 89.4-12	6						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	06/12/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6420	200	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	41400	200	06/12/2012	ND	172	86.2	200	7.49	
Surrogate: 1-Chlorooctane	562	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1970	% 63.6-15	4						

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*=Accredited Analyte

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Celey D. Keine



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: Reported: 06/08/2012

06/14/2012

Project Name: Project Number: UNCLE SAM 13 FED. NO. 1

Project Location:

700794.029.01

SEC.13 - T19S - R32E

Sampling Date: Sampling Type: 06/08/2012 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

LOOI & INTACT

Jodi Henson

Sample ID: S-1 1' (H201298-02)

BTEX 8021B	mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.075	0.050	06/13/2012	ND	2.10	105	2.00	4.88	
Toluene*	0,933	0.050	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	0.379	0.050	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	0.581	0.150	06/13/2012	ND	6.86	114	6.00	0.457	
Surrogate: 4-Bromofluorobenzene (PIL	123	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	384	16.0	06/12/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<50.0	50.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	3570	50.0	06/12/2012	ND	172	86.2	200	7.49	
Surrogate: 1-Chlorooctane	95.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	178	% 63.6-15	4						

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TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

06/08/2012

Sampling Date:

06/08/2012

Reported:

06/14/2012

Sampling Type:

Soil

Project Name:

UNCLE SAM 13 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number:

700794.029.01

Sample Received By:

Jodi Henson

Project Location:

SEC.13 - T19S - R32E

Sample ID: S-1 2' (H201298-03)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2012	ND	1.91	95.5	2.00	2.76	
Toluene*	0.072	0.050	06/14/2012	ND	1.93	96.3	2.00	3.98	
Ethylbenzene*	<0.050	0.050	06/14/2012	ND	1.97	98.4	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/14/2012	ND	5.99	99.8	6.00	6.57	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	6						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	96.0	16.0	06/12/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<100	100	06/12/2012	ND -	176	88.0	200	4.28	
DRO >C10-C28	5000	100	06/12/2012	ND	172	86.2	200	7.49	
Surrogate: 1-Chlorooctane	86.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	242	% 63.6-15	4						

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Celey D. Keene



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

06/08/2012

Reported:

06/14/2012

Project Name:

UNCLE SAM 13 FED. NO. 1

Project Number:

Project Location:

700794.029.01 SEC.13 - T19S - R32E Sampling Date:

06/08/2012

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 3' (H201298-04)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2012	ND	1.91	95.5	2.00	2.76	
Toluene*	<0.050	0.050	06/14/2012	ND	1.93	96.3	2.00	3.98	
Ethylbenzene*	<0.050	0.050	06/14/2012	ND	1.97	98.4	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/14/2012	ND	5.99	99.8	6.00	6.57	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/12/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	16.0	10.0	06/12/2012	ND	172	86.2	200	7.49	
Surrogate: 1-Chlorooctane	91.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 5	63.6-15	4						

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Celey D. Keina

Celey D. Keene, Lab Director/Quality Manager



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

06/08/2012

Reported:

06/14/2012

Project Name:

UNCLE SAM 13 FED. NO. 1

Project Number: Project Location:

700794.029.01

SEC.13 - T19S - R32E

Sampling Date:

06/08/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 4' (H201298-05)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2012	ND	1.91	95.5	2.00	2.76	
Toluene*	<0.050	0.050	06/14/2012	ND	1.93	96.3	2.00	3.98	
Ethylbenzene*	<0.050	0.050	06/14/2012	ND	1.97	98.4	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/14/2012	ND	5.99	99.8	6.00	6.57	
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/12/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	76.7	10.0	06/12/2012	ND	172	86.2	200	7.49	
Surrogate: 1-Chlorooctane	93.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 5	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Manager: mike 57 ussterfield	P.O. #:	
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Phone #: 575-441.7254 Fax #:	Address:	
Project #: 200794.079.01 Project Owner: Devon Freigy Corp	City:	
Project Name: Uncle Sam 13 Fcol. No. 1	State: Zip:	
Project Location: scc. 13 - T.95-R32E	Phone #:	
Sampler Name: mile Stullfulk	Fax #:	
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