New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire
Division Director
Oil Conservation Division



Americo Energy Resources 7575 San Felipe Suite 200 Houston, TX 77063 March 5, 2008

Reference:

East Shugart	Unit 015	30-015-05687	F-34-18s-31e	Eddy County	New Mexico
East Shugart	Unit 042	30-015-27670	A-34-18s-31e	Eddy County	New Mexico
East Shugart	Unit 056	30-015-27949	G-35-18s-31e	Eddy County	New Mexico
East Shugart	Unit 072	30-015-28203	L-35-18s-31e	Eddy County	New Mexico
East Shugart	Unit 075	30-015-28204	K-35-18s-31e	Eddy County	New Mexico

Operator,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of remediation work plan proposals (plans) for remediation of releases of produced fluids that have occurred at the above referenced well sites. The plans were formulated and submitted to OCD by your agent, Safety & Environmental Solutions, Inc.

The plans are approved with the following stipulations:

- Notify OCD 24 hours prior to commencement of remediation activities.
- Notify OCD 24 hours prior to obtaining samples where analyses of samples obtained are to be submitted to OCD.
- Notify OCD 24 hours prior to installation of any liner or barrier.
- Representative samples are to be obtained from backfill material and analyses submitted to OCD.
- A Final Report C-141 and closure report for each site is to be submitted to OCD upon satisfactory completion of remedial activities. Work is to be completed and closure documents submitted to OCD not later than May 5, 2008.
- · Like approval by BLM.

Please be advised that this approval does not relieve Americo Energy Resources of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, this approval does not relieve Americo Energy Resources of responsibility for compliance with any other federal, state, local laws and/or regulations.

If I can be of assistance, please contact me.

Sincerely,

Mike Bratcher NMOCD District 2 1301 W. Grand Ave. Artesia, NM 88210 (575) 748-1283 Ext.108

"MIKE KRATHE

mike.bratcher@state.nm.us

SRP-147

MAR 0 4 2008

Americo Energy Resources OCD-ARTESIA East Shugart Unit #75 Work Plan A, Section 35, Township 18S, Range 31E

Unit A, Section 35, Township 18S, Range 31E Eddy County, New Mexico

February 25, 2008



Prepared for:

Americo Energy Resources 7575 San Felipe, Ste 200 Houston, TX 77063

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 (575) 397-0510

2RP-147

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I. Company Contacts

NAME	Company	Telephone	E-mail
Oscar Nosrati	Americo Energy	713-984-9700	Oscar.nosrati@americoenergy.com
Brian Cuellar	SESI	505-390-7066	bcuellar@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Americo Energy Resources to perform cleanup services at the East Shugart Unit #75 spill site. This is an injection well located in Unit A, Section 35, Township 18S, range 31E. On December 14, 2007 the strainer valve near the wellhead failed casing a release of approximately 350 barrels of produced water. A vacuum truck was utilized to recover 200 barrels of fluid.

III. Surface and Ground Water

The closest groundwater of record is in Section 34 of the same Range and Township. The depth of water in this well was 261' in March of 1994.

IV. Work Performed

On January 25, 2008 samples were retrieved unitizing a hand auger in three areas of the spill. Grab samples were taken at the surface and at depths of 1' and 2' below ground surface. Field analysis was performed on each of the samples to determine the chloride concentrations. The results of the analysis were as follows:

Depth	AH#1	AH#2	AH#3
Surface	9676 ppm	<124 ppm	9676 ppm
1'	456 ppm	1596 ppm	5540 ppm
2'	1708 ppm	5540 ppm	

On February 1, 2008 three test trenches were installed to further delineate the site. Grab samples were collected from each of the three trenches. Field analysis was performed on each sample to determine the chloride concentrations. The analysis results were as follows:

Depth	TT#1	TT#2	TT#3
2'			2104 ppm
3'	2260 ppm	5032 ppm	
4'			1300 ppm
5'	5032 ppm	5463 ppm	
6'			2432 ppm
7'	2432 ppm	1392 ppm	
8'			2260 ppm
9'	2260 ppm		
10'	1300 ppm		4236 ppm
11'		1048 ppm	
12'			2432 ppm

On February 6, 2008 two boreholes were installed via auger rig to further delineate the site. Grab samples were collected at Borehole #1 & Borehole #3 in intervals of 5'. Fields analysis was performed to determine the chloride concentrations. The analysis results were as follows:

Depth	BH#1	BH#3
5'		
10'		
15'	<124 ppm	3876 ppm
20'	<124 ppm	416 ppm
25'		300 ppm

Confirmation samples were retrieved from Borehole #1 at 15' and Borehole #3 at 25'. These samples were transported under Chain of Custody to Argon Laboratory of Hobbs, New Mexico for analysis. The results of the analysis were as follows:

Date	Sample ID	CI ⁻ mg/kg
2/6/08	BH #1 15'	110
2/6/08	BH #3 25'	210

V. Closure Plan

It is requested that the top 4' be excavated from the spill area. The most highly contaminated soils will be transported to an NMOC approved facility fro disposal. A like amount of clean soils from offsite will be blended with the remaining soils in order to bring the chloride concentrations to an acceptable level that will allow re-vegetation. The excavated area will then be lined with a 20-mil impervious liner and backfilled with the blended soils. The area will be contoured to natural grade and seeded.

VI. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A - C-141

Appendix B - Analytical Results

Appendix C – Site Photos

Figure 1 Vicinity Map

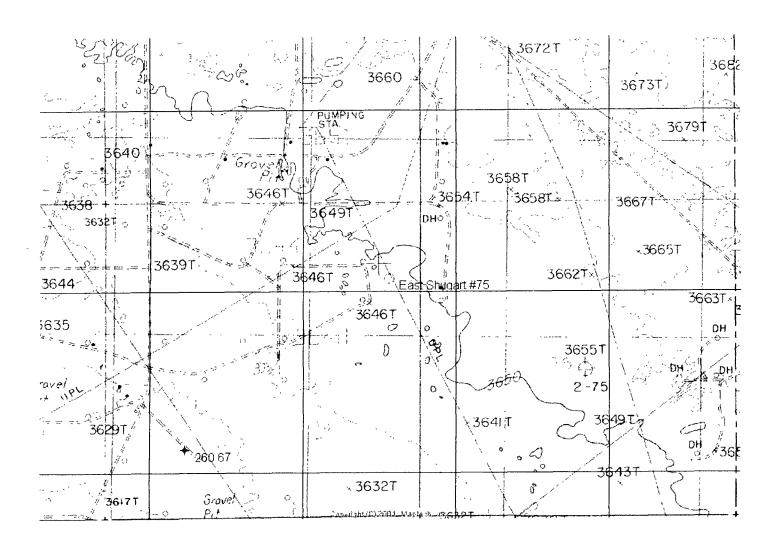
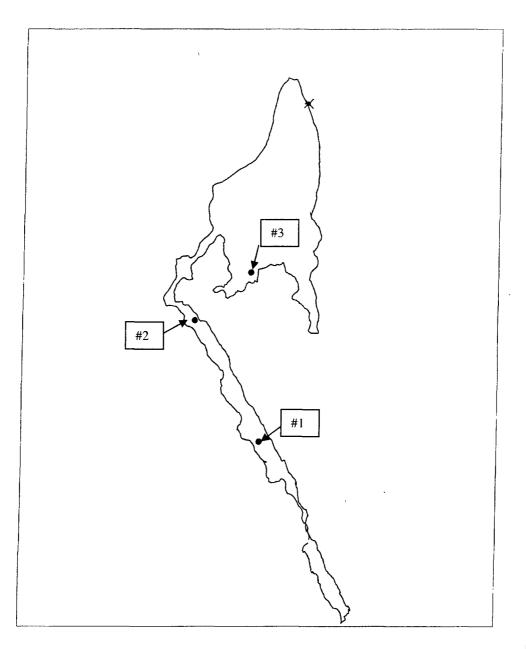


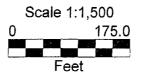
Figure 2 Site Plan



Americo East Shugart #75

Lat/Long WGS 1984





Site Plan.ssf 1/30/2008 GPS Pathfinder*Office



Appendix A 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, Azicc, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerais and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 16, 2003

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

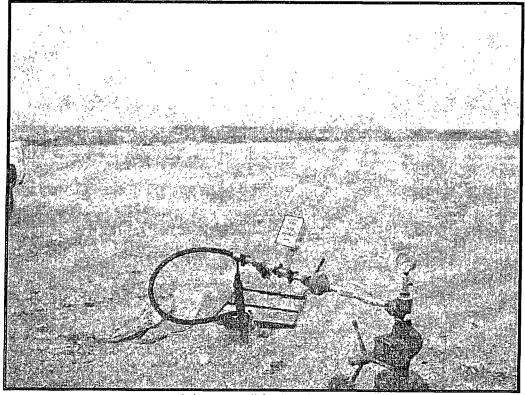
30-015-28204 Release	Notificatio			ction		Parametria (Control of Control of
		OPERAT			al Report 🔲 Final Rep	ori
Name of Company Americo Energy Resource	s, LLC	Contact Os		700		
Address 7575 San Felipe, Ste. 200, Houston, T Facility Name East Shugart Unit Well #75	X 77063		lo. 713-984-9° s Injection We			
Pacinty Name East Shugari Onit Well #75		Facility Typ	e injection we	211	·	
Surface Owner BLM	Mineral Owner	BLM		Lease)	٧o. ']· ·
	LOCATIO					
		/South Line South	Feet from the 1,350	East/West Line West	County Eddy	
Latitud	2	Longitude	·			
	NATURE	OF RELE	ASE		*	
Type of Release Produced water with slight oil cut			Release 350 bb.		Recovered 200 bbls.	
Source of Release Blown 'Y' strainer valve near injection wellhead		Date and Ho 12/14/2007	our of Occurrence		Hour of Discovery	
Was Immediate Notice Given?		If YES To		112/14/200	11 12 10011	\dashv
☑ Yes ☐ No	□ Not Required	Mike Bratch	er			
By Whom? Larry Wood		Date and Ho				\exists
Was a Watercourse Reached?		If YES, Vol	ume Impacting th	e Watercourse.		
☐ Yes ☑ No						
If a Watercourse was Impacted, Describe Fully *						
						ļ
						-
Describe Cause of Problem and Remedial Action Take	n.*					\dashv
The drain/bleed valve and its nipple blew off the inject	ion line 'Y' strainer	The valve an	d nipple have be	en replaced.		
Describe Area Affected and Cleanup Action Taken."		· · · · · · · · · · · · · · · · · · ·				7
An approximate area of 75° by 400° was affected by the	- releace A vocum	m tenok was br	anght annite to s	zmove recoverable	liquide. Coil will be slowed	
and tilled.	c rotest. A racet	in a doc 17da bi	ought onsite to it	SITIO VE TECO VETADIC	riquids Son win be cleaned	}
					· · · · · · · · · · · · · · · · · · ·	_
I hereby certify that the information given above is true						
regulations all operators are required to report and/or fit public health or the environment. The acceptance of a						
should their operations have failed to adequately investi	igate and remediate	contamination	that pose a threa	it to ground water,	surface water, human health	
or the environment. In addition, NMOCD acceptance of	of a C-141 report do	es not relieve t	he operator of re	sponsibility for co	mpliance with any other	1
federal, state, or local laws and/or regulations.			OIL CONTE	ERVATIONI	TIVICIONI	-
111 11 11	′. /		OIL CONS	ERVALIONI	NOTOTON	
Signature: Jeffrey Clas He		i	,	L		ļ
Printed Name: Jeffrey Alan Keese	A	approved by Di	strict Supervisor	/olu	of July	
Title: Senior Engineer	A	pproval Date:	-ιΔN-0-7	2003 piration D	ate:	
E-mail Address: alan.keese@americoenergy.com	c	Conditions of A	pproval:		Attached	!
Date 12/21/2007 Phone: 713-984-9	700					
	1			ı		

Appendix B Analytical Results

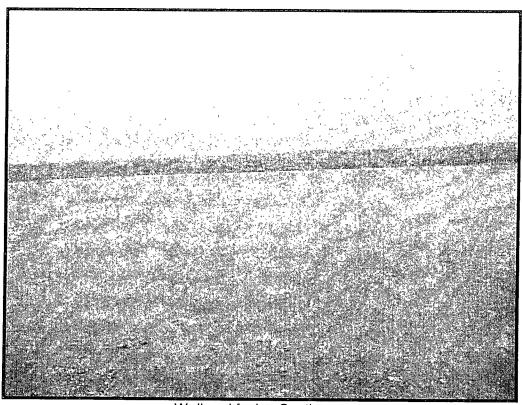
Appendix C Site Photos



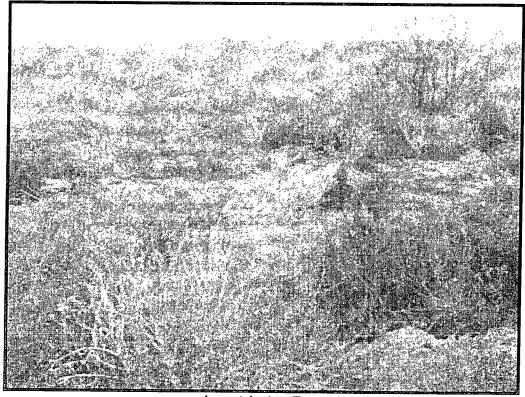
Well sign



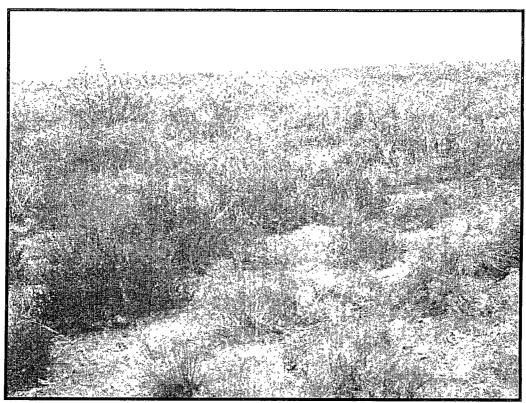
Injector well facing South



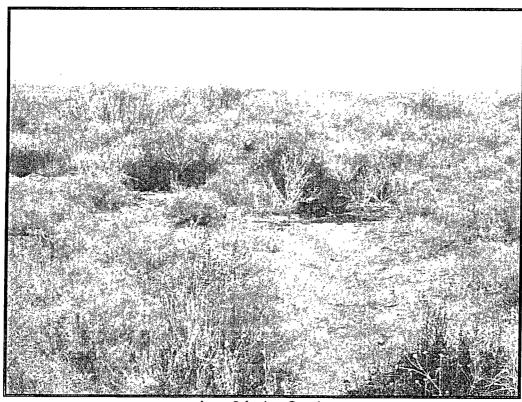
Well pad facing Southeast



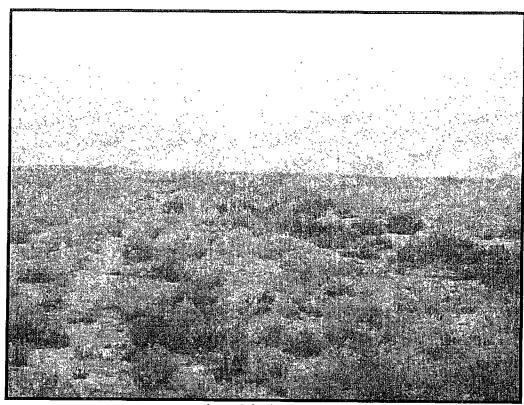
Area 1 facing East



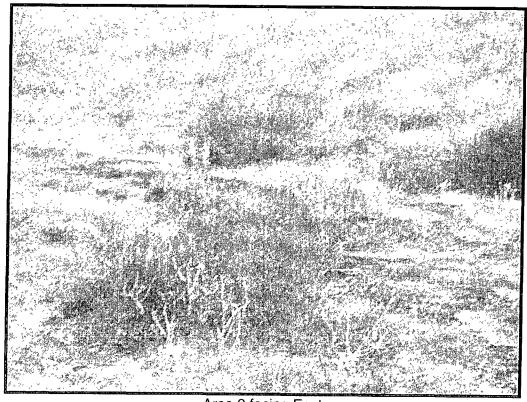
Area 1 facing East



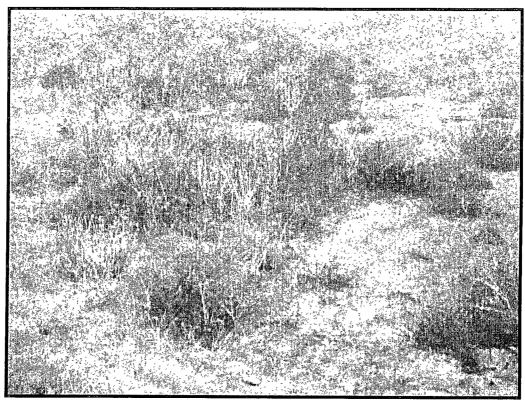
Area 2 facing South



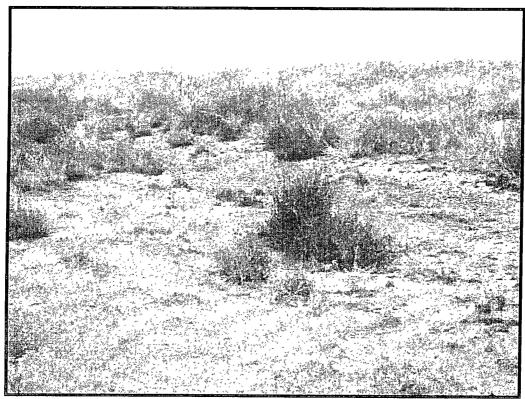
Area 2 facing East



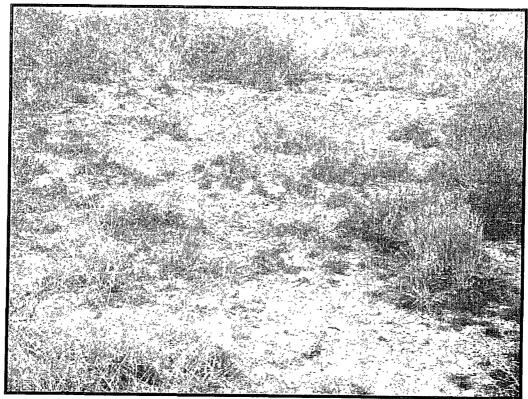
Area 2 facing East



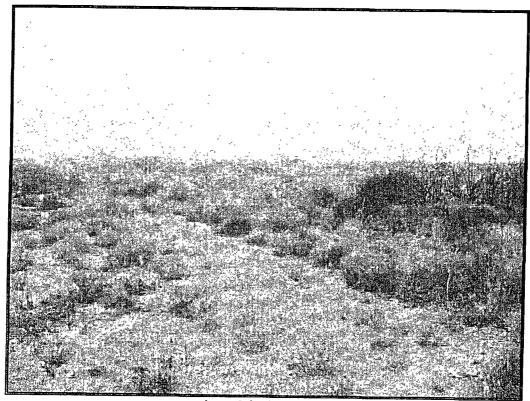
Area 2 facing East



Area 2 facing Southeast



Area 2 facing West



Area 2 facing West

11 February 2008

Bob Allen Safety & Environmental Solutions, Inc. 703 E. Clinton Ave Hobbs, NM 88240

RE: East Shugart # 75 Project Data

Enclosed are the results for sample(s) received on 02/07/08 13:23 by Argon Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

Sincerely,

Hiram Cueto Lab Manager

1061

(505)397-0295 (505)397-0296 info@a	rgonlabs.com			
Project No: Fack AME-08-0 Project Title: Eas + Shugar Location: Eddy Co- Sampler's Name: Brian C		Client: SEST Address: 703E. Clincto Contact: Phone: 605) 397-0516 Fax: Bill To:	n	
Sampler's Signature:		Client: SAME Address:		
TURN ARC	OUND TIME	ANA	YSIS	
RUSH 24 Hour 48 H	our other Standard (5 days)	,		
ĺ				COMMENTS
Sample ID. Date Tir	me #Containers Matrix			
BH#3, 25' 2.6-08 112	5 1 Soil	\times		
BH#1. 15' 2-6-08 137		X		
Relinquished By:	Date: Time: D-7-08 0630	Repelved By: Repel	Date: Time: 02/01/0 8	SPECIAL INSTRUCTIONS:
Relinguished By: Larcel Black	- 100/D. 100 100 100 100 100 100 100 100 100 10	- Rosenson	1970/195	
Relinquished By:	Date: Time:	Received By:	Date: Time:	

Argon Laboratories Sample Receipt Checklist

Project Name: East Shugart Unit #45-75
Sample Carrier: Client
Argon Labs Project Number: C802005 Shipper Container In good condition? Samples received in proper containers? Yes
Shipper Container in good condition? N/A
N/A Yes
Samples received under refrigeration? Yes
Chain of custody present? Yes
Chain of Custody signed by all parties? Yes
N/A
Yes No
ANY "No" RESPONSE MUST BE DETAILED IN THE COMMENTS SECTION BELOW Date Client Contacted:
Date Client Contacted:
Date Client Contacted:
Contacted By:
Comments: Action Taken:
Action Taken:
ADDITIONAL TEST(S) REQUEST / OTHER
ADDITIONAL TEST(S) REQUEST / OTHER
ontacted By: Date: Time:
all Received By:
omments:

Safety & Environmental Solutions, Inc.

Project Number: AME-08-005

703 E. Clinton Ave

Project Name: East Shugart # 75

Work Order No.: C802005

Hobbs, NM 88240

Project Manager: Bob Allen

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH #3. 25'	C802005-01	Soil	02/06/08 11:25	02/07/08 13:23
BH #1. 15'	C802005-02	Soil	02/06/08 13:28	02/07/08 13:23

QC Officer Approval

Argon Laboratories, Inc.

2126 W. Marland Ave., Hobbs, NM 88240 • Phone (505) 397-0295 • Fax (505) 397-0296

email: info@argonlabs.com

Page 1 of 4

Safety & Environmental Solutions, Inc.

Project Number: AME-08-005

703 E. Clinton Ave

Project Name: East Shugart # 75

Work Order No.: C802005

Hobbs, NM 88240

Project Manager: Bob Allen

Anions by Ion Chromatography - EPA Method 300.0

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
BH #3. 25' (C802005-01) Soil	Sampled: 02/06/08 11:25	Received: 02/0	07/08 13:2	23			
Chloride	110	10	mg/kg	1	02/09/08	EPA 300.0	
BH #1. 15' (C802005-02) Soil	Sampled: 02/06/08 13:28	Received: 02/0	07/08 13:2	23			
Chloride	210	10	mg/kg	1	02/09/08	EPA 300 0	

QC Officer Approval

Argon Laboratories, Inc.

Safety & Environmental Solutions, Inc.

Project Number: AME-08-005

703 E. Clinton Ave

Project Name: East Shugart # 75

Work Order No.: C802005

Hobbs, NM 88240 Project Manager: Bob Allen

Anions by Ion Chromatography - EPA Method 300.0 - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	RPD	Notes	
Batch CR00019 - General Prep									
Blank (CR00019-BLK1)	Prepared & Analyzed: 02/09/08								
Chloride	ND	10	mg/kg						
LCS (CR00019-BS1)	Prepared & Analyzed: 02/09/08								
Chloride	4.42		mg/kg	5.00		88			
LCS Dup (CR00019-BSD1)	Prepared & Analyzed: 02/09/08								
Chloride	4.36		mg/kg	5.00		87	1		
Matrix Spike (CR00019-MS1)	Prepared & Analyzed: 02/09/08								
Chloride	4.21		mg/kg	5.00		84			
Matrix Spike Dup (CR00019-MSD1)	(CR00019-MSD1) Prepared & Analyzed: 02/09/08								
Chloride	4,58		mg/kg	5.00		92	8		

QC Officer Approval

Argon Laboratories, Inc.

Page 3 of 4

Safety & Environmental Solutions, Inc.

Project Number: AME-08-005

703 E. Clinton Ave

Project Name: East Shugart # 75

Hobbs, NM 88240 Project Manager: Bob Allen

Work Order No.: C802005

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

QC Officer Approval

Argon Laboratories, Inc.

m. 2 ; 7

<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

Release Notification and Corrective Action

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 Report Final							
Name of Company Americo Energy Resources, LLC						Contact Oscar Nosrati							
Address 7575 San Felipe, Ste 200, Houston, TX 77063						Telephone No 713-984-9700							
Facility Name East Shugart Unit Well #75						Facility Type Injection Well							
Surface Owner BLM Mineral Owner						r BLM Lease No. '							
LOCATION OF RELEASE													
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	1	West Line	, ,			
A	35	18 S	31 E	2,560	S	outh	1,350	W.	est	Eddy			
LatitudeLongitude													
NATURE OF RELEASE													
		ed water with	slight oil	cut		Volume of Release 350 bbls. Volume Recovered 200 bbls.							
Source of Release Blown 'Y' strainer valve near injection wellhead						Date and Hour of Occurrence Date and Hour of Discovery 12/14/2007 2:00 am 12/14/2007 12 noon							
Was Immedia			Weinicat	· · · · · · · · · · · · · · · · · · ·		If YES To			12/14/200	77 12 110011			
			Yes [No 🔲 Not Re	quired	Mike Brate							
By Whom?	Larry Woo	od				Date and H	lour 12/14/2007	7 3:00	pm				
Was a Water						If YES, Volume Impacting the Watercourse.							
			Yes 🛚	No									
If a Watercou	rse was Imp	oacted, Descri	be Fully '										
ļ													
l													
Describe Cau	se of Proble	m and Remed	lial Action	1 Taken.*									
an	d	J : + + + + + + + + + + + + + + + + + +	05.41	,		T t l		1					
The drain/ble	ed valve and	n its nipple ble	ew off the	injection line 'Y'	strainer	The valve	and nipple have be	een repi	aced.				
Describe Area	Affected a	ind Cleanup A	ction Tak	en.*									
An approxima	te area of 7	'5' hy 400' we	u uffactae	l hi: the release	A vacuu	m truck was	brought onsite to	remova	recoverabl	e hande Sa	sil wall b	ne cleaned	
An approximate area of 75° by 400° was affected by the release. A vacuum truck was brought onsite to remove recoverable liquids. Soil will be cleaned and tilled.									oc croamed				
				is true and compl									
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													
				tance of a C-14! r	eport do	es not relieve	e the operator of r	esponsi	bility for co	ompliance w	ith any	other	
federal, state,	or local law	s and/or regul	lations.				OIL COM	TOD X Z	A TION	DIVICIO	NT.		
	1 1	/	. 1	1/			OIL CONS	SEK V	ATION	DIAISIO	IN		
Signature: Jeffrey Olan Kless													
Printed Name: Jeffrey Alan Keese Appr							Approved by District Supervisor: Slugg fully						
						Approval Date: 1AM 0.7 2008piration Date:							
							JAN						
E-mail Address: alan.keese@americoenergy.com					Conditions of Approval:								
Date: 12/21/2007 Phone: 713-984-9700								į					

* Attach Additional Sheets If Necessary

PSEB0807333588

2RP-147