

### **APACHE CORPORATION**

P.O.Box 1849 Eunice, NM 88231 Phone 575.394.3159

## Loco Federal #007

## Closure Report

2RP-1130

API 30-015-36638

Release Date: November 17, 2011

Unit Letter B, Section 21, Township 17S, Range 30E

#### Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

#### May 25, 2012

Mike Bratcher
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 2
811 S. First St.
Artesia, NM 88210

RE: TERMINATION REQUEST Apache – Loco Federal #7 AD UL/B sec. 21 T17S R30E API No. 30-015-36638 2RP-1130

Mr. Bratcher:

Apache Corporation has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the site referenced above.

#### **Background and Previous Work**

The site is an accidental discharge of produced water associated with the Loco Federal #7. During a workover procedure, the well flowed back and released fluids onto the caliche pad surrounding the wellhead, southeast into a section of pasture, and along a high pressure gas pipeline right-of-way. NMOCD was notified immediately, and an initial form C-141 was submitted by Apache Corporation on November 17, 2011 (Appendix A). The site is located approximately 15 miles east of Carlsbad, in unit letter 'B' of section 21, T17S, R30E in Eddy County, New Mexico.

On November 17, 2011, RECS personnel initiated work at the Loco Federal #7 (Figure 1). Surface soil samples were collected from the site field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID). The samples were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix C). Chloride ranged from 7,600 ppm (parts per million or mg/kg) to 23,600 ppm. TPH (C6-C28) ranged from 21.9 ppm to 3,870 ppm.

The leak area on the well pad was excavated 1.5 ft. to 2 ft. below ground surface (bgs) (Figure 2). On December 12, 2011, RECS personnel collected and field tested representative grab samples from the bottom of the well pad excavation. The samples were submitted to a laboratory for analyses, and yielded a maximum of 192 ppm chloride and <10.0 ppm TPH (Appendix C).

The leak area in the pasture and near the right-of-way was excavated 1 ft. to 4.5 ft. bgs. Excavation of impacted soils in this area remained at a safe working distance from the high pressure gas pipeline located south of the site (Figure 3). On December 16 and 19, 2011, RECS personnel collected and field tested representative grab samples from the walls and bottom of the excavation. The samples were submitted to a laboratory for analyses, and yielded a maximum of 240 ppm chloride and <10.0 ppm TPH (Appendix C).

Impacted soils were removed to a NMOCD approved disposal facility. The excavation on the well pad was backfilled with clean caliche and leveled. The excavation in the pasture was backfilled with clean topsoil and contoured to the surrounding area. See Appendix B for photographs of field activities.

#### Conclusion

Due to the complete removal of impacted soils while maintaining a safe working distance from the high pressure gas line, Apache submits the final C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

Apache Corporation appreciates the opportunity to work with you on this project. Please call Natalie Gladden (575) 390-4186 if you have any questions or comments.

Sincerely,

Bruce Baker Head Foreman

Bruce Balen

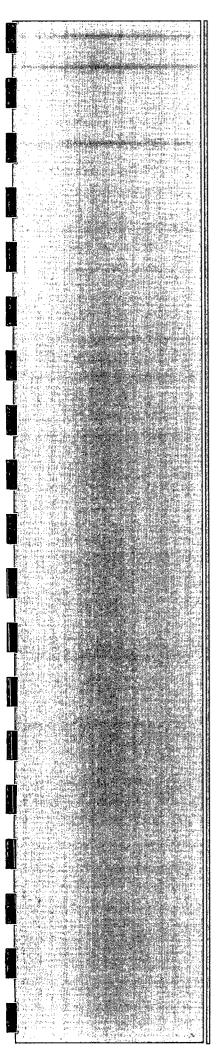
RECS

(575) 631-5157

#### Attachments:

Figure 1: Site Plat with Initial Sampling Lab Data
Figure 2: Site Plat with Well Pad Excavation Lab Data
Figure 3: Site Plat with Pasture Excavation Lab Data

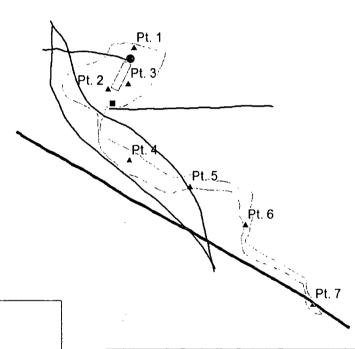
Appendix A: Initial Form C-141 Appendix B: Site Photographs Appendix C: Laboratory Results Appendix D: Final Form C-141



## Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

### Site Plat



#### Legend

- WELLHEAD
- ▲ SAMPLE POINTS
- ELECTRICAL BOX

----- ELECTRICAL LINE

- FLOW LINE

- HIGH PRESSURE GAS PIPELINE

STAIN

PUMP JACK

INI	INITIAL SAMPLING LAB DATA										
		GRO C6-	DRO C10-	DRO C28-							
Sample Description	CI-	C10	C28	C35	TPH						
PT.1	13,200	438	3,430	767	3,870						
PT.2	11,700	72.8	933	241	1,010						
PT.3	16,400	208	1,680	370	1,890						
PT.4	7,600	159	1,070	234	1,230						
PT.5	11,300	29	670	180	699						
PT.6	11,700	421	3,430	788	3,860						
PT.7	23,600	<10	21.9	51.4	21.9						



## APACHE LOCO FEDERAL #007

LEGALS: UL/B sec. 21 T-17-S R-30-E EDDY COUNTY, NM

## Figure 1



0 30 60 120

GPS date: 12/14/11 RP Drawing date: 12/20/11 Drafted by: L. Weinheimer

### WELL PAD EXCAVATION BOTTOM LAB DATA

Sample Description	Cl-	GRO	DRO
NE Corner Bttm @ 2.5'	48	<10	<10
NW Corner @ 1.5'	96	<10	<10
SE Corner @ 2.5'	192	<10	<10
SW Corner @ 2'	80	<10	<10
Center Bttm @ 2.5'	80	<10	<10



#### Legend

- **WELLHEAD**
- ELECTRICAL LINE
- **FLOW LINE**
- HIGH PRESSURE GAS PIPELINE
- EXTANT PAD
- **STAIN**
- PUMP JACK



## APACHE LOCO FEDERAL #007

LEGALS: UL/B sec. 21 T-17-S R-30-E EDDY COUNTY, NM

## Figure 2



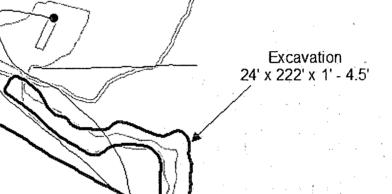
120 30 60 ∃Feet

GPS date: 12/14/11 RP Drawing date: 12/20/11

Drafted by: L. Weinheimer

## Site Plat

PASTURE EXCAVA	TION WA	LL LAB C	ATA
Sample Description	CI-	GRO	DRO
N Wall	80	<10	<10
NW Wall	<16	<10	<10
NE Wall	48	<10	<10
S Wall	16	<10	<10
SE Wall	<16	<10	<10
SW Wall	144	<10	<10
E Wall	<16	<10	<10
W Wall	<16	<10	<10



#### Legend

WELLHEAD

--- ELECTRICAL LINE

---- FLOW LINE

----- HIGH PRESSURE GAS PIPELINE

PASTURE EXCAVATION

⇒ EXTANT PAD

STAIN

PUMP JACK

PASTURE EXCAVATION	PASTURE EXCAVATION BOTTOM LAB DATA											
Sample Description												
Pt 1 Bottom	240	<10	<10									
Pt 2 Bottom	80	<10	<10									
Pt 3 Bottom	32	<10	<10									
Pt 4 Bottom	48	<10	<10									
Pt 5 Bottom	64	<10	<10									



## APACHE LOCO FEDERAL #007

LEGALS: UL/B sec. 21 T-17-S R-30-E EDDY COUNTY, NM

## Figure 3



0	30	60	120
			Feet

GPS date: 12/14/11 RP Drawing date: 12/20/11 Drafted by: L. Weinheimer



RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr. Santa Fe. NM 8750 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised August 8, 2011

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

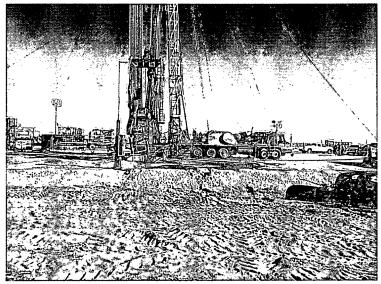
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	ation	and Co	rrective A	ction			- ·	
						OPERAT			Initia	l Report		Final Report
Name of Co							talie Gladden	0.6				
Address PC Facility Nan			1 88231			Telephone No. 575-390-4186  Facility Type Production Well						
				Mineral C					A DI No	. 30-015-3	6620	
Surface Ow	ner Unkni	OWB		-					APINO	. 30-013-3	0038	
_ <del></del>		m 1:				OF REI		T .03	7 . 7			
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/v	Vest Line	County		
В	21	17S	30E	900'	FNL		1650'	FEL		Eddy	<del></del>	
			La	titude		_ Longitud	le					
				NAT	URE	OF RELI	EASE					
Type of Rele							Release 30			Recovered (		
		over/flowbac	k 			11/17/11	Iour of Occurrenc	e	Date and 11/17/11	Hour of Dis	scovery	
Was Immedia	ate Notice C		Yes [	No Not R	equired	If YES, To Mike Brate						
By Whom?						+	lour 11/17/11 85					
Was a Water	course Reac		Yes <table-cell></table-cell>	No.		If YES, Vo	olume Impacting t	he Wate	ercourse.			
If a Watercon	ree was Im											-
Li a Walcico	nac was ini	pacted, Descr	ioc i miy.									
		em and Reme		n Taken.* ack rods and tubi	no the w	ell flowed ba	ck					
Winic doing	u workover	procedure to	non out st	ack rous and tubi	ng the w	en nowed ba	or.					
		and Cleanup										
Contamination	on will be ex	xcavated and	will meet	the NMOCD Gui	delines to	o closure.						
I hereby cert	ify that the i	information e	iven above	e is true and comp	olete to th	ne best of my	knowledge and u	ındersta	nd that pur	suant to NN	IOCD ru	les and
regulations a	ll operators	are required t	o report a	nd/or file certain	release n	otifications a	nd perform correc	ctive act	ions for rel	eases which	n may en	danger
public health	or the envi	ronment. The	acceptan adequately	ce of a C-141 rcp y investigate and i	ort by the remediate	e NMOCD m e contaminat	iarked as "Final R	Leport" o	loes not rel	ieve the ope	erator of	liability
or the enviro	nment. In a	ddition, NMC	OCD accep	ptance of a C-141	report de	oes not reliev	e the operator of	respons	ibility for o	compliance	with any	other
federal, state	or local la	ws and/or reg	ulations.			<del></del>	OH CON	CHEMP X	Z AZ TETECONI	HARAIR CHA	(DINIT	
		- fra 1		Dadd.			OIL CON	OLIV V	ATTOIN	HOI WISH	<u>UIN</u>	
Signature:	<u> </u>	your	97	Maan			n					
Printed Nam	e: Natalie (	Gladden				Approved by	Environmental S	pecialis	t:			
Title: EHS I	Invinonmen	tall Tredh				Approval Da	te:		Expiration	Date:		
E-mail Addr	ess: natalie.	gladden@apa	checorp.c	om		Conditions o	f Approval:			Attach		
Date: 11/17	/1.1	Dh	one: 575-3							Attached	u 1111	
		ets If Necess		J7V=410U						_11		



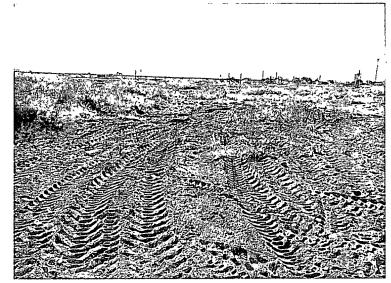
RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

## Apache Loco Federal #007 Unit B, Section 21, T17S, R30E



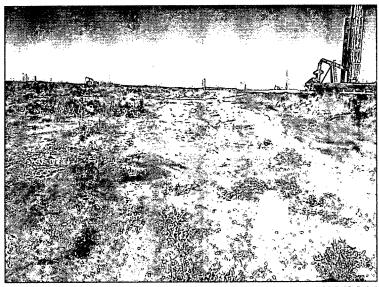
Initial release, facing north

11/17/2011



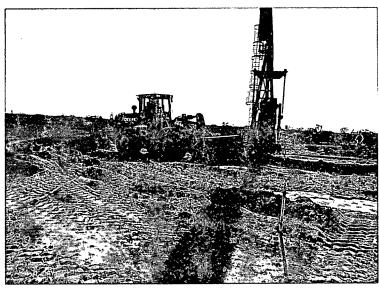
Initial release, facing southeast

11/17/2011



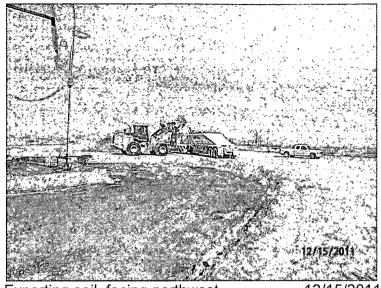
Initial release, facing west

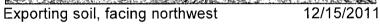
11/17/2011



Scraping pad, facing southeast

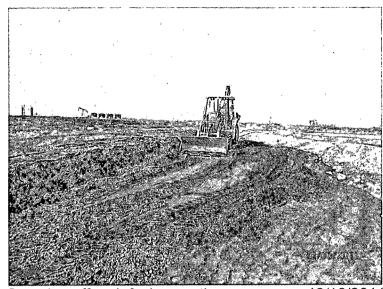
12/9/2011



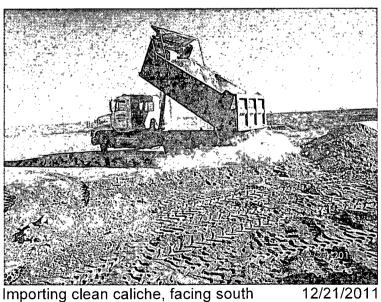




Excavating off pad, facing east 12/19/2011



Scraping off pad, facing south 12/16/2011

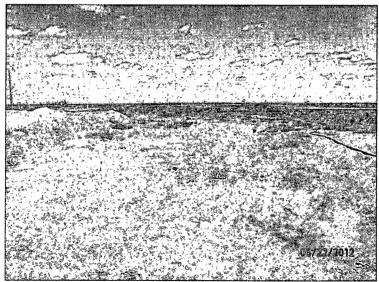


Importing clean caliche, facing south



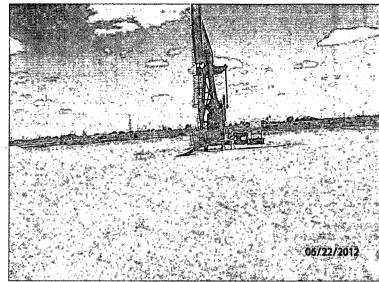
Backfilling in pasture, facing west

12/21/2011



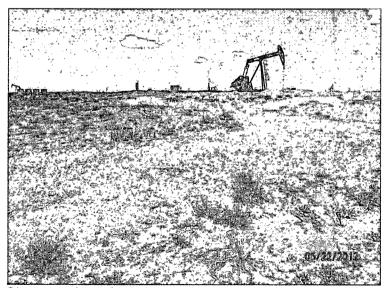
Site complete in pasture, facing east

6/22/2012



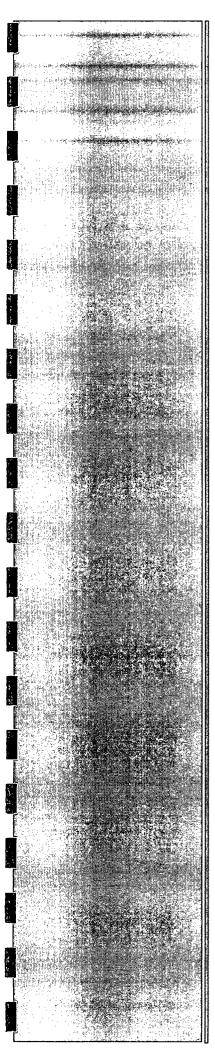
Site complete, facing southeast

6/22/2012



Site complete, facing west

6/22/2012



# Appendix C Laboratory Results

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:

11/17/2011

Reported:

11/23/2011

Project Name: Project Number: LOCO FEDERAL #7
NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

11/17/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 1 (H102508-01)

Chloride, SM4500CI-B

ma/ka

Analyzed By: AP

Chloride, 5M4300Cl-B	ing	/ ky	Allalyze	Allalyzeu by. Ar					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	11/21/2011	ND	432	108	400	0.00	
TPH 8015M		/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	438	10.0	11/19/2011	ND	217	108	200	6.01	
DRO >C10-C28	3430	10.0	11/19/2011	ND	188	94.2	200	8.91	
EXT DRO >C28-C35	767	10.0	11/19/2011	ND					
Total TPH C6-C28	3870	10.0	11/19/2011	10.6	405	101	400	7.35	•
Surrogate: 1-Chlorooctane	135	% 55 5-15	· · · · · · · · · · · · · · · · · · ·				·		

Surrogate: 1-Chlorooctane 135 % 55.5-154
Surrogate: 1-Chlorooctadecane 103 % 57.6-158

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\*=Accredited Analyte

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Hope Moreno, Inorganic Technical Director



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:

11/17/2011

Reported:

11/23/2011

Project Name: Project Number: LOCO FEDERAL #7
NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

11/17/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 2 (H102508-02)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11700	16.0	11/21/2011	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	72.8	10.0	11/19/2011	ND	217	108	200	6.01	
DRO >C10-C28	933	10.0	11/19/2011	ND	188	94.2	200	8.91	
EXT DRO >C28-C35	241	10.0	11/19/2011	ND					
Total TPH C6-C28	1010	10.0	11/19/2011	10.6	405	101	400	7.35	
Surrogate: 1-Chlorooctane	87.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	121	% 57.6-15	8						

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Received:

11/17/2011

Reported:

11/23/2011

Project Name: Project Number: LOCO FEDERAL #7
NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

11/17/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 3 (H102508-03)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	11/21/2011	ND	432	108	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	208	10.0	11/19/2011	ND	217	108	200	6.01	
DRO >C10-C28	1680	10.0	11/19/2011	ND	188	94.2	200	8.91	
EXT DRO >C28-C35	370	10.0	11/19/2011	ND					
Total TPH C6-C28	1890	10.0	11/19/2011	10.6	405	101	400	7.35	
Surrogate: 1-Chlorooctane	108 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	143 9	% 57.6-15	8						

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Lope S. Moreno

Hope Moreno, Inorganic Technical Director

Page 4 of 10



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:

11/17/2011

Reported:

11/23/2011

Project Name: Project Number: LOCO FEDERAL #7
NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

11/17/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 4 (H102508-04)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	11/22/2011	. ND	432	108	400	3.64	
TPH 8015M mg/kg		kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	159	10.0	11/19/2011	ND	217	108	200	6.01	
DRO >C10-C28	1070	10.0	11/19/2011	ND	188	94.2	200	8.91	
EXT DRO >C28-C35	234	10.0	11/19/2011	ND					
Total TPH C6-C28	1230	10.0	11/19/2011	10.6	405	101	400	7.35	
Surrogate: 1-Chlorooctane	101 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	123 9	% 57.6-15	8						

Cardinal Laboratories \*=Accredited Analyte

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Hope S. Moreno

Hope Moreno, Inorganic Technical Director



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:

11/17/2011

Reported:

11/23/2011

Project Name: Project Number: LOCO FEDERAL #7
NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

11/17/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 5 (H102508-05)

Chloride, SM4500Cl-B

mq/kg

Analyzed By: AP

Cilioride, 3M4300CI-B	mg,	ky .	Analyzeu by. Ar						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11300	16.0	11/22/2011	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	29.0	10.0	11/19/2011	ND	217	108	200	6.01	
DRO >C10-C28	670	10.0	11/19/2011	ND	188	94.2	200	8.91	
EXT DRO >C28-C35	180	10.0	11/19/2011	ND					
Total TPH C6-C28	699	10.0	11/19/2011	10.6	405	101	400	7.35	

Surrogate: 1-Chlorooctane

85.4 %

55.5-154

Surrogate: 1-Chlorooctadecane

117%

57.6-158

Cardinal Laboratories \*=Accredited Analyte

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Hope S. Moreno

Hope Moreno, Inorganic Technical Director

Page 6 of 10



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

11/17/2011

Reported:

11/23/2011 LOCO FEDERAL #7

Project Name: Project Number: Project Location:

NONE GIVEN LOCO HILLS

Sampling Date:

11/17/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 6 (H102508-06)

oride, SM4500CI-B	mg/kg		Analyzed By: AP				<u>-</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD .	Qualifier
loride	11700	16.0	11/22/2011	ND	432	108	400	3.64	
PH 8015M mg/kg		Analyze	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
O C6-C10	421	10.0	11/19/2011	ND	217	108	200	6.01	
O >C10-C28	3430	10.0	11/19/2011	ND	188	94.2	200	8.91	
T DRO >C28-C35	788	10.0	11/19/2011	ND					
tal TPH C6-C28	3860	10.0	11/19/2011	10.6	405	101	400	7.35	
tal TPH C6-C28	3860			10.6	405	101	400	7.35	

107 % Surrogate: 1-Chlorooctadecane 57.6-158

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Hope S. Moreno



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:

11/17/2011

Sampling Date:

11/17/2011

Reported:

11/23/2011

Sampling Type:

Soil

Project Name:

LOCO FEDERAL #7

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS

Sample ID: PT. 7 (H102508-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Chloride, 3114300Cl-B	mg,	/ <b>N</b> 9	Allalyze	u by. Ar					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23600	16.0	11/22/2011	ND	432	108	400	3.64	
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	11/19/2011	ND	217	108	200	6.01	
DRO >C10-C28	21.9	10.0	11/19/2011	ND	188	94.2	200	8.91	
EXT DRO >C28-C35	51.4	10.0	11/19/2011	ND					
Total TPH C6-C28	21.9	10.0	11/19/2011	10.6	405	101	400	7.35	

Surrogate: 1-Chlorooctane

80.7 %

55.5-154

Surrogate: 1-Chlorooctadecane

104 %

57.6-158

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Alope S. Moreno

Hope Moreno, Inorganic Technical Director

## ARDINAL LABORATORIES

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Apache Corp.					- 1	D I	LL IU					,	71477	_ 1 010	, 1\L	QUE	<u> </u>			
Project Manager: Natalie Gladden					P.	O. #:														
Address:					Co	mpany:				į			ည				.			
City: State: ৠM	Zip	i:		·	At	tn:							Ö						l	
Phone #: Fax #:					Ad	ldress:			•				٦				, 1			]
Project #: Project Owne	r:				Ci	ty:			l w	≥		エ	<i>//s</i>				, ,	ľ		
Project Name: LOCO Feelera 147					St	ate:	Zip:		Chlorides	15	$\times$	ТРН	o	(0)	ĺ		. 1			
Project Location: / Life //://S					Př	one#:			Ξ	801	BTEX	·S	ati	TDS					ĺ	
Sampler Name: Zuistrik Payra						x #:			글	1	В	exas	S	-						
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL OIL	DGE IER:	ACID/BASE: AD ICE / COOL SE OTHER :	DATE	TIME	S	ТРН		Te	Complete Cations/Anion	-					1	999
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PLEASE NOTE: Liability and Damages. Cardina's flability and client's exclusive remedy for a shalpess. All claims including those for negligence and any other cause whatsoever shall be service. In tip event shall Cardinal be liable for incidental or consequent demoges, including admitates or successors arising out of or related to the performance of services hereunded by CRelinquished By:  Date:	deeme gwithoù Cardinal	d warve it limita I, regar	ed unless r ition, busin	nade in white less intemus nether such	ng and rece tions, loss o	wed by Caronal Fuse, or loss of p	within 30 days aft rofits incurred by	er completion of the dient, its subsidial ascas or otherwise Phone Res	ie applicat ries e. Sult:	□ Ye				hone #	<b>#</b> :					
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Delivered By: (Circle One)	<u> </u>		San	nple Cor	ıdițion		(ED BY:	Zcond												
Sampler - UPS - Bus - Other:	0)	0	Cô IJ	ol / Inta Yes ② No □	ct´ Yes No	13	tials)	hcond	er@	rice-	ecs.	com	; Lw	einh	eime	∍r@r	ice-e	ecs.c	moc	

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

#26



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231

Fax To:

394-2425

Received:

12/16/2011

Sampling Date:

12/16/2011

Reported:

12/21/2011

Sampling Type:

Soil

Project Name:

LOCO FEDERAL #7

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS

Sample ID: 5 PT BOTTOM COMP (H102723-01)

mg,	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
512	16.0	12/20/2011	ND	416	104	400	3.77	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/18/2011	ND	206	103	200	2.85	
105	10.0	12/18/2011	ND	181	90.3	200	5.56	
	Result 512 mg Result <10.0	Result Reporting Limit  512 16.0  mg/kg  Result Reporting Limit  <10.0 10.0	Result         Reporting Limit         Analyzed           512         16.0         12/20/2011           mg/kg         Analyze           Result         Reporting Limit         Analyzed           <10.0	Result         Reporting Limit         Analyzed         Method Blank           512         16.0         12/20/2011         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS           512         16.0         12/20/2011         ND         416           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           512         16.0         12/20/2011         ND         416         104           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           512         16.0         12/20/2011         ND         416         104         400           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           512         16.0         12/20/2011         ND         416         104         400         3.77           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

Surrogate: 1-Chlorooctane 84.4 % 55.5-154
Surrogate: 1-Chlorooctadecane 118 % 57.6-158

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Celeg D. Keene



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(303) 333-2328 TAX (C									-															
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Project Manage	r: Alloy-kalid	Gladder	7						2.0.	#:				1			İ								
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City:	···	State: NM	Zip	:				_/	ttn:					.].		1								ļ	1:
Plione #:		Fax #:							\ddr	ess	:														
Project #:		Project Owner	:					c	litý:					1											
Project Name:	2000 Federa	147						s	State	e:		Zip:							1						
Project Location					·			F	hoi	1e #:															
Sampler Name:	Relayor ray	C						F	ax i	#:				1											
FOR LAB USE ONLY				-		MA	RIX		P	RES	ERV.	SAMPL	ING					1					1		
Lab I.D.	Sample I.D	).	CH(G)RAB OR (C)OMP	#CONTAINERS	GROUNDWALER WASTEWATER	SOIL	IL.	SLUDGE	OTHER:	E / COOL	OTHER:	DATE	TIME	Chhrick	1918 ST 1918								44.00		
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analyses, All claims, includi	nd Damages. Cardinal's liability and client ng those for negligence and any other cau	ise whatspever shall bê i	lceme	d waived	unless	made ir	wifn	g Brid n	eceive	d by Ca	rdinal v	xithin 30 days at	ter completion et	the applica	able										
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Sampler)- UPS	- Bus - Other:		1.5	50	C;	yes No	intac	Yes No		4	(Ini	iois)						:			,		1	·	



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:

12/20/2011

Reported:

12/22/2011 LOCO FEDERAL #7

Project Name: Project Number:

NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

12/16/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 1 BOTTOM (H102739-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/21/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
Surrogate: 1-Chlorooctane	103	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	113	% 57.6-15	8						

#### Sample ID: PT. 2 BOTTOM (H102739-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND .	208	104	200	11.7	
Surrogate: 1-Chlorooctane	86.1	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	87.8	% 57.6-15	S						

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\*=Accredited Analyte

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Celeg D. Keine



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** 394-2425 Fax To:

Received:

12/20/2011

Reported:

12/22/2011

Project Name:

LOCO FEDERAL #7

Project Number: Project Location:

LOCO HILLS

NONE GIVEN

Sampling Date:

12/16/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 3 BOTTOM (H102739-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
Surrogate: 1-Chloroactane	98.4	55 5-15	: <u>1</u>			<u> </u>			

Surrogate: 1-Chlorooctane

98.4%

55.5-154

Surrogate: 1-Chlorooctadecane

106 %

110%

57.6-158

57.6-158

#### Sample ID: PT. 4 BOTTOM (H102739-04)

Chloride, SM4500Cl-B	mg.	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey D. Keine



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** 394-2425 Fax To:

Received:

12/20/2011

Reported:

12/22/2011 LOCO FEDERAL #7

Project Name: Project Number:

NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

12/16/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: PT. 5 BOTTOM (H102739-05)

mg,	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	12/21/2011	ND	448	112	400	0.00	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/21/2011	ND	215	107	200	8.32	
<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
06.0	0/ 55.5.15							·
	Result 64.0 mg Result <10.0 <10.0	64.0 16.0 mg/kg  Result Reporting Limit <10.0 10.0 <10.0	Result         Reporting Limit         Analyzed           64.0         16.0         12/21/2011           mg/kg         Analyzed           Result         Reporting Limit         Analyzed           <10.0	Result         Reporting Limit         Analyzed         Method Blank           64.0         16.0         12/21/2011         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS           64.0         16.0         12/21/2011         ND         448           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           64.0         16.0         12/21/2011         ND         448         112           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           64.0         16.0         12/21/2011         ND         448         112         400           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed By: MS           True Value QC           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           64.0         16.0         12/21/2011         ND         448         112         400         0.00           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

Surrogate: 1-Chlorooctadecane

91.8%

57.6-158

#### Sample ID: N WALL (H102739-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/21/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
Surrogate: 1-Chlorooctane	111	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	124	% 57.6-15	8						

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APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:

12/20/2011

Reported:

12/22/2011

Project Name: Project Number: LOCO FEDERAL #7
NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

12/16/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: NW WALL (H102739-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
Surrogate: 1-Chlorooctane	101	% 55.5-15	4						

Surrogate: 1-Chlorooctadecane

111%

57.6-158

#### Sample ID: NE WALL (H102739-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
Surrogate: 1-Chlorooctane	90.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	99.2	% 57.6-15	8						

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NATALIE GLADDEN
P. O. BOX 1849
EUNICE NM, 88231
Fax To: 394-2425

Received:

12/20/2011

Reported:

12/22/2011 LOCO FEDERAL #7

Project Name: Project Number:

NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

12/16/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: SOUTH WALL (H102739-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
Surrogate: 1-Chlorooctane	100	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108	% 57.6-15	8						

#### Sample ID: SE WALL (H102739-10)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP					-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
Surrogate: 1-Chlorooctane	110	% 55.5-15	4	·					
Surrogate: 1-Chlorooctadecane	125	% 57.6-15	8						

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Fax To: 394-2425

Received:

12/20/2011

Reported:

12/22/2011

Project Name: Project Number: LOCO FEDERAL #7
NONE GIVEN

115%

57.6-158

Project Location:

LOCO HILLS

Sampling Date:

12/16/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SW WALL (H102739-11)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP		<u>.</u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
Surrogate: 1-Chlorooctane	105	% 55.5-15	4	1	,				

#### Sample ID: E WALL (H102739-12)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	215	107	200	8.32	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	208	104	200	11.7	
Surrogate: 1-Chlorooctane	87.0	% 55.5-15	4						· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	94.0	% 57.6-15	.8						

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12/20/2011

Reported:

12/22/2011 LOCO FEDERAL #7

Project Name: Project Number:

NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

12/19/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: W WALL (H102739-13)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/21/2011	ND	448	112	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	12/22/2011	ND	228	114	200	3.85	
DRO >C10-C28	<10.0	10.0	12/22/2011	ND	234	117	200	4.15	
Surrogate: 1-Chlorooctane	111	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	131	% 57.6-15	8						

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Celeg D. Keine



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:		A STATE OF THE PARTY OF THE PAR	I	BI	LL TO		عد شند کیده			ANA	LYSIS	S RE	QUES	T	-	h. P. C. A. SELVINSKY
Project Manager	Notalia Gledien		P.O. #:													-
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City:	State: MM	Zip:	Attn:													
Phone #:	Fax #:		Addres	s:												
Project #:	Project Owner	•	City:												1	
Project Name:	Loco Federal #7		State:	* *****	Zip:											
	Loco Hills	<u> </u>	Phone	#:						-						
Sampler Name:	Publish Pance	-	Fax #:				9									
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† Cardinal	cannot accept verbal changes. Please	fax written changes to	505-393	2476	10											Pag



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name							a. <del></del>	Τ	<u> </u>	B	ILL T	0		-		W- H	,	ANA	LYSI	S RE	QUE	ST	***********			ļ
Project Manage	r: Nortalian	Gladden						P	O. #:					1						1	1					
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City:		State: NA	Zip:	:				A	itn:																	
Phone #:		Fax#:			···			A	ddres	s:	·											}				
Project #:	at when managedian spherocommunical section (1871 Strikens State obtains and the ship of the security of	Project Owner	: .					c	ity:		-								•							
Project Name:	Low Tederal #	7						S	ate:	i	Zip:				Į		1									
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Sampler Name:	Roberto Rivva	District of the last of the la	رحنسي	e de la constante de la consta				F	Fax #: PRESERV SAMPLING				<i>\</i>	,					ľ	1						
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service. In no event shall t	Card hal be liable for incidental or consecuting out of or related to the performance	quental damages, including	without	t finyta	tion, bu	siness in	tterrupti	ons, loss	of use, o	ı less at	proàts incur	red by o	dent, les subsidi	aries,												
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APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

12/19/2011

Reported:

12/22/2011

Project Name:

LOCO FEDERAL #7

Project Number:

NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

12/12/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: NE CORNER BTTM @ 2.5' (H102728-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	216	108	200	1.74	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	197	98.7	200	12.2	

Surrogate: 1-Chlorooctadecane

129 %

145 %

57.6-158

57.6-158

#### Sample ID: NW CORNER @ 1.5' (H102728-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	216	108	200	1.74	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	197	98.7	200	12,2	
Surrogate: 1-Chlorooctane	134	% 55.5-15	4						

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Received:

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Reported: Project Name: 12/22/2011 LOCO FEDERAL #7

Project Number: Project Location:

NONE GIVEN LOCO HILLS

Sampling Date:

12/12/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: SE CORNER @ 2.5' (H102728-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	216	108	200	1.74	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	197	98.7	200	12.2	
DRO >C10-C28  Surrogate: 1-Chlorooctane	<10.0			ND	197	98.7	200	12.2	

Surrogate: 1-Chlorooctadecane

124 %

57.6-158

#### Sample ID: SW CORNER @ 2.' (H102728-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	216	108	200	1.74	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	197	98.7	200	12.2	
Surrogate: 1-Chlorooctane	119	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	120	% 57.6-15	8						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: Reported: 12/19/2011

12/22/2011

Project Name: Project Number: LOCO FEDERAL #7
NONE GIVEN

Project Location:

LOCO HILLS

Sampling Date:

12/12/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: CENTER BTTM @ 2.5' (H102728-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	216	108	200	1.74	
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	197	98.7	200	12.2	
Surrogate: 1-Chlorooctane	114	% 55.5-15	4						

Surrogate: 1-Chlorooctane 114% 55.5-154
Surrogate: 1-Chlorooctadecane 117% 57.6-158

Cardinal Laboratories \*=Accredited Analyte

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#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	Apacite	5.	BI	LL TO	in it	ANALYSIS REQUEST														
Project Manage	r: Natalie Gladden	P.	O; #:																	
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City:	State: NM	Αt	tn:	·						Cations/Anions				1			i 1			
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FOR LAB USE ONLY	8			MATRIX		PRESERV. SAMPLING			$\overline{O}$	TPH	-	<u>[6]</u>	e e							
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analyses. All claims includi service. In no event shall C	PLEASE NOTE: Liability and Danages. Cardinal's liability and client's exclusive remedy for any claim, aising whether pased in contract or you, shall be limited to the errount daid by the client tor the analyses. All claims including those for negligence and any other cause whatscover shall be deemed viewed unless made in witing and received by Cardinal within 30 days after completion of the applicable service. In no every, shall Cardinal be liabile for incidental of consequental damages; including without limitation, butainess interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the portermance of services hereunder by Cardinal, reportless of whether such/claim is based upon any of the above stated reasons or otherwise.																			
Relinquished By:    Date: 12-19-1  Received By:   Time:   22-00										Phone Result: ☐ Yes ☐ No Add'l Phone #:  Fax Result: ☐ Yes ☐ No  Add'l Fax #:  REMARKS:										
Reflinggished By:    Date:										email results Natalie.Gladden@usa.apachecorp.com; Zconder@rice-ecs.com; Bbaker@rice-ecs.com;										
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231

Fax To:

394-2425

Received: Reported: 12/22/2011

12/27/2011

LOCO FEDERAL #7

Project Number: Project Location:

Project Name:

NONE GIVEN

LOCO HILLS

Sampling Date: Sampling Type: 12/12/2011

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 7 @ 1' (H102764-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/22/2011	ND	432	108	400	3.64	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Apache									BILL TO						ANALYSIS REQUEST										
Project Manager	Natalie Gladden							1	P.O. #:														,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
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Lab I.D. H102764	CONTAINERS  # CONTAINERS  GROUNDWATER:  WASTEWATER:  SOIL					OIL	SLUDGE	OTHER:	ICE/COOL	OTHER:	DATE 12-15	TIME 1:00				•	Complete Cations/Anions									
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analyses, All claims including service. In no event shall Ca	LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the amount pa																									
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Sampler - UPS	Bus - Other:		2	2	 [ 	ooi Yes No	intac s 과	Yes No		ĺ		(a)(s)	hcond	er@	rice	·ecs.	com	, Lw	einh	eim	er@i	ice-e	ecs.c	com		

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

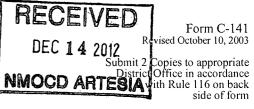
1000 Rio Brazos Road, Aztec, NM 87410

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

#### **Release Notification and Corrective Action**

Name of Company Apache Corp.  Address P.O. Box 1849, Eminica, NM, 88231 Facility Name Loco Federal #7    Mineral Owner   BLM						•	OPERAT	OR		☐ Initial Report ☐ Final Report						
Surface Owner Unknown							Contact Natalie Gladden									
Surface Owner Unknown Mineral Owner BLM Feet from the LOCATION OF RELEASE  Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County  Latitude Longitude  NATURE OF RELEASE  Type of Release Brine Water Volume of Release 30 bbls Volume Recovered 0 bbls  Source of Release Workover/flowback Date and Hour of Occurrence 11/17/11 Date and Hour of Discovery 11/17/11 Unit/17/11  Was Immediate Notice Given? Yes No Not Required Mike Bratcher  By Whom? Natalic Gladden Date and Hour of Discovery 11/17/11 S58 am  Was a Watercourse Reachet? Yes No If Secretary 11/17/11 S58 am  Was a Watercourse Was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.*  While doing a workover procedure to fish out stuck rods and tubing the well flowed back.  Describe Area Affected and Cleanup Action Taken.*  The leak affected the caliche pad surrounding the well head and an area of pasture land including a right-of-way for a high pressure gas pipeline. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples were collected from the excavations and sent to a commercial laboratory for confirmation of chloride and TPH. The executations were backfilled with clean caliche and topsoil and contoured to the evironment. The 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: Natalic efladden Approvable Security of Approvable Security of S				NM, 882	231											
Line   Location   Section   Township   Range   Feet from the   North/South Line   Feet from the   East/West Line   County	Facility Nan	ne Loco F	ederal #7			F	Facility Type Production Well									
Unit Letter   Section   Township   Range   Feet from the   North/South Line   Feet from the   East/West Line   County	Surface Own	ner Unkr	nown		Mineral O	wner I	BLM			API No	. 30-015-3	6638				
Latitude								LEASE								
NATURE OF RELEASE	Unit Letter	ter Section Township Range Feet from the North/South Line Feet from the East/West Line County														
NATURE OF RELEASE  Type of Release Brine Water	В	21	17S	30E	900	FNL		1650	FEL		Eddy					
Type of Release Brine Water  Source of Release Workover/flowback  Date and Hour of Occurrence Date and Hour of Discovery 11/17/11  Date and Hour of Discovery 11/17/11  Was Immediate Notice Given?  Yes No Not Required  Was a Watercourse Reached?  Tyes No Not Required  By Whom? Natalie Gladden  Was a Watercourse Reached?  The Watercourse was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.*  While doing a workover procedure to fish out stuck rods and tubing the well flowed back.  Describe Area Affected and Cleanup Action Taken.*  While doing a workover procedure to fish out stuck rods and tubing the well flowed back.  Describe Area Affected and Cleanup Action Taken.*  The leak affected the califie pad surrounding the well head and an area of pasture land including a right-of-way for a high pressure gas pipeline. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples were collected from the excavations and sent to a commercial laboratory for confirmation of chloride and TPH. The excavations were backfilled with clean caliche and topsoil and contoured to the surrounding area.  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.  OIL CONSERVATION DIVISION  Approved by District Supervisor:  Title: EH&S Environmental Tech  Approv		LatitudeLongitude														
Source of Release Workover/flowback    Date and Hour of Occurrence   11/17/11	NATURE OF RELEASE															
Was Immediate Notice Given?    Yes   No   Not Required   Mike Bratcher																
By Whom? Natalie Gladden  Was a Watercourse Reached?    Yes   No   Date and Hour   11/17/11   858 am     If YES, Volume Impacting the Watercourse.    f YES, Volume Impacting the Watercourse.   If YES, Volume Impacting the Watercourse.   If YES, Volume Impacting the Watercourse.   If YES, Volume Impacting the Watercourse.   If YES, Volume Impacting the Watercourse.   If YES, Volume Impacting the Watercourse.   If Yes, Volume Impacting the Watercourse.   If Yes, Volume Impacting the Watercourse.   If Yes, Volume Impacting the Watercourse.   If Yes, Volume Impacting the Watercourse.   If Yes, Volume Impacting the Watercourse.   If Yes, Volume Impacting the Watercourse.   If Yes, Volume Impacting the Watercourse.   If Yes, Volume Impa	Source of Rel	lease Wo	rkover/flowba	ack				our of Occurrence	e		Hour of Dis	covery				
Was a Watercourse Reached?  Yes No  If YES, Volume Impacting the Watercourse.  If a Watercourse was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.*  While doing a workover procedure to fish out stuck rods and tubing the well flowed back.  Describe Area Affected and Cleanup Action Taken.*  The leak affected the caliche pad surrounding the well head and an area of pasture land including a right-of-way for a high pressure gas pipeline. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples were collected from the excavations and sent to a commercial laboratory for confirmation of chloride and TPH. The excavations were backfilled with clean caliche and topsoil and contoured to the surrounding area.  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 flue 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.  OIL CONSERVATION DIVISION  Signature:  Printed Name: Natalie Gladden  Approval Date:  Expiration Date:  Expiration Date:	Was Immedia	ite Notice C		Yes [	] No ☐ Not Rec	quired			·			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
If a Watercourse was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.*  While doing a workover procedure to fish out stuck rods and tubing the well flowed back.  Describe Area Affected and Cleanup Action Taken.*  The leak affected the caliche pad surrounding the well head and an area of pasture land including a right-of-way for a high pressure gas pipeline. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples were collected from the excavations and sent to a commercial laboratory for confirmation of chloride and TPH. The excavations were backfilled with clean caliche and topsoil and contoured to the surrounding area.  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 "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.  OIL CONSERVATION DIVISION  Signature:  Printed Name: Natalie Gladden  Approved by District Supervisor:  Expiration Date:  Expiration Date:	By Whom?	Vatalie Glad	iden				Date and H	our 11/17/11	858 am							
Describe Cause of Problem and Remedial Action Taken.*  While doing a workover procedure to fish out stuck rods and tubing the well flowed back.  Describe Area Affected and Cleanup Action Taken.*  The leak affected the caliche pad surrounding the well head and an area of pasture land including a right-of-way for a high pressure gas pipeline. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples were collected from the excavations and sent to a commercial laboratory for confirmation of chloride and TPH. The excavations were backfilled with clean caliche and topsoil and contoured to the surrounding area.  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.  OIL CONSERVATION DIVISION  Signature:  District Supervisor:  Expiration Date:  Expiration Date:	Was a Watero	course Reac		Yes 🗵	] No											
Describe Area Affected and Cleanup Action Taken.*  The leak affected the caliche pad surrounding the well head and an area of pasture land including a right-of-way for a high pressure gas pipeline. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples were collected from the excavations and sent to a commercial laboratory for confirmation of chloride and TPH. The excavations were backfilled with clean caliche and topsoil and contoured to the surrounding area.  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.  OIL CONSERVATION DIVISION  Signature:  OIL CONSERVATION DIVISION  Approved by District Supervisor:  E-mail Address: Natalie gladden@anachecorn.com  Conditions of Approval:  Conditions of Approval:	If a Watercou															
The leak affected the caliche pad surrounding the well head and an area of pasture land including a right-of-way for a high pressure gas pipeline. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples were collected from the excavations and sent to a commercial laboratory for confirmation of chloride and TPH. The excavations were backfilled with clean caliche and topsoil and contoured to the surrounding area.  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.  OIL CONSERVATION DIVISION  Signature:  OIL CONSERVATION DIVISION  Approved by District Supervisor:  Expiration Date:  Expiration Date:																
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.    OIL CONSERVATION DIVISION	The leak affersoils were rer	The leak affected the caliche pad surrounding the well head and an area of pasture land including a right-of-way for a high pressure gas pipeline. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples were collected from the excavations and sent to a commercial laboratory for														
Printed Name: Natalie Gladden  Approved by District Supervisor:  Title: EH&S Environmental Tech  Approval Date: Expiration Date:  E-mail Address: Natalie gladden@apachecorn.com  Conditions of Approval:	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															
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E-mail Address: Natalie.gladden@anachecorn.com Conditions of Approval:	1					A	Approved by	District Supervise	or:							
E-mail Address: Natalie.gladden@apachecorp.com Conditions of Approval:	Title: EH&S	Environme	ental Tech			A	Approval Da	e:		Expiration Date:						
Attached Attached	E-mail Addre	ess: Natalie	gladden@ap	achecorp.	com		Conditions of	Approval:		Attached						
Date: 11912 Phone: (575) 390-4186  Attach Additional Sheets If Necessary																