

# **APACHE CORPORATION**

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

# State C Tract 13 #14

# **Closure Report**

API 30-025-39286

Release Date: August 26, 2011

Unit Letter F, Section 36, Township 21S, Range 37E

### **Rice Environmental Consulting & Safety**

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

### April 30, 2012

Geoffrey Leking New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 1 1625 N. French Dr. Hobbs, NM 88240-9273

### RE: TERMINATION REQUEST Apache – State C Tract 13 #14 AD UL/F sec. 36 T21S R37E API No. 30-025-39286

Mr. Leking:

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 and oil associated with the State C Tract 13 #14. A stuffing box leaked, releasing mixed fluids onto the well pad, and caliche was used to soak up standing fluids. An initial form C-141 was submitted by Apache Corporation on August 26, 2011 (Appendix A). The site is located east of Eunice, in unit letter 'F' of section 36, T21S, R37E in Lea County, New Mexico.

On August 26, 2011, RECS personnel initiated work on the State C Tract 13 #14. Surface soil samples were collected and field tested for chloride (Figure 1). 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. Chloride ranged from 8,600 ppm (parts per million or mg/kg) to 12,000 ppm. GRO ranged from 4,750 ppm to 10,700 ppm and DRO ranged from 11,100 ppm to 18,900 ppm.

On September 1, 2011, RECS personnel collected soil samples from the final excavation (Figure 2). Representative grab samples were collected from the excavation walls and the excavation floor, and submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses. Chloride did not exceed 48 ppm in all samples. TPH did not exceed 15.5 ppm in all samples (Appendix C).

Impacted soils were removed from the excavation and transported to a NMOCD approved disposal facility. The excavation was backfilled with clean caliche and contoured to the surrounding area. See Appendix B for photographs of field activities.

### Conclusion

Due to the complete removal of impacted soils, 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 Bacher

Bruce Baker Head Foreman RECS (575) 631-5157

Attachments:

Figure 1:Site Plat with Initial Sampling Lab DataFigure 2:Site Plat with Final Excavation Lab DataAppendix A:Initial Form C-141Appendix B:Site PhotographsAppendix C:Laboratory ResultsAppendix D:Final Form C-141

# Figures

## Site Plat



Site Plat



## Appendix A Initial Form C-141

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.

1220 S. St. Fran	ncis Dr., Sant	a Fe, NM 8750	5	Sa	anta F	e, NM 875	505				
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		C Tract 13 #				Facility Typ					
				L							
Surface Ow	ner Walla	ch		Mineral C	Owner	State of NM		API No	. 30-025-3	39286	
				LOCA	ATIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West Line	County		
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By Whom?					equireu	Date and H					
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			Yes 🛛	No			nume impacting (	ne watereouise.			
	leak was for	em and Remeeund. Due una osal.			s, calich	e was brough	t in to dry up stan	ding fluid's then th	at material	was exc	avated and
Describe Are Contaminatio	a Affected a	and Cleanup A	Action Tak to NMOC	en.* D Standards.							
public health should their o	or the envir perations ha	are required to onment. The ave failed to a ddition, NMO	acceptanc dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease no rt by the emediate	otifications ar NMOCD ma contamination	ad perform correct arked as "Final Reconstruction that pose a three	nderstand that purs tive actions for rele eport" does not reli eat to ground water esponsibility for co	eases which eve the oper	may en ator of	danger liability
Signature:	OIL CONSERVATION DIVISION										
Printed Name	: Natalie G	ladden			1	Approved by	Environmental Sp	pecialist:			
Title: EHS E	nvironmenta	al Tech			1	Approval Date	3:	Expiration I	Date:		
E-mail Addre	ss: natalie.g	ladden@apac	hecorp.com	m	(	Conditions of	Approval:		Attached		
Date: 8/26/	11	Phone: 575-3	90-4186								

\* Attach Additional Sheets If Necessary

# Appendix B Site Photographs

### State C Tract 13 #4

Unit Letter F, Section 36, T21S R37E





Exporting soil, facing north

8/30/2011



Final excavation, facing south

9/1/2011



Site complete, facing northwest

6/22/2012



Final excavation, facing east

9/1/2011



Site complete, facing southwest

6/22/2012

# Appendix C Laboratory Results



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

Received:	09/01/2011	Sampling Date:	08/26/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	STATE C TRACT 13 WELL #014	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: SP 1 @ SURFACE (H101860-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	09/02/2011	ND	416	104	400	7.41	
TPH 8015M	mg/kg		Analyzed By: ab						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10700	100	09/04/2011	ND	174	87.2	200	0.657	
DRO >C10-C28	18900	100	09/04/2011	ND	177	88.3	200	0.760	
Surrogate: 1-Chlorooctane	225	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	89.5	% 57.6-15	8						

#### Sample ID: SP 2 @ SURFACE (H101860-02)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	09/02/2011	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: ab					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4750	100	09/04/2011	ND	174	87.2	200	0.657	
DRO >C10-C28	11100	100	09/04/2011	ND	177	88.3	200	0.760	
Surrogate: 1-Chlorooctane	180 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	94.1	% 57.6-15	8						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/01/2011	Sampling Date:	08/26/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	STATE C TRACT 13 WELL #014	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: SP 3 @ SURFACE (H101860-03)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	09/02/2011	ND	416	104	400	7.41	
TPH 8015M	mg/kg		Analyzed By: ab						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10600	100	09/06/2011	ND	174	87.2	200	0.657	
DRO >C10-C28	18100	100	09/06/2011	ND	177	88.3	200	0.760	
Surrogate: 1-Chlorooctane	230 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	92.7	% 57.6-15	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL 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

	State: Fax #: Project Owner	Zip:			-	mpany:												
Address: City: Phone #: Project #: Project Name: State	State: Fax #: Project Owner				-													
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	roject Name: State C Tract 13 Well #014					City: State: Zip:			Chlorides	15	$\times$	TPH	Cations/Anions					
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FOR LABUSE ONLY	)			MATRIX	-	PRESERV	SAMPL	ING	C	Hd.		Te	ite				1	
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	Time:		Fax Result:  Yes  No Add'I Fax #: REMARKS:
Relinquished By:	Date: 23 11 11 Time: 2920	Received By: Adi Henson.	email results natalie.gladden@apachecorp.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition CHECKED BY: Cool Intact (Initials)	<ul> <li>Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com</li> </ul>

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

č.,

#26



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

Received:	09/02/2011	Sampling Date:	09/01/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	STATE C TRACT 13 WELL #014	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: WEST WALL CENTER (H101872-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/06/2011	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	15.5	10.0	09/06/2011	ND	157	78.3	200	2.57	
Surrogate: 1-Chlorooctane	113	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	113	% 57.6-15	8						

#### Sample ID: NORTH WALL CENTER (H101872-02)

Chloride, SM4500Cl-B	mg	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/06/2011	ND	400	100	400	7.69	
TPH 8015M	mg,	′kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	157	78.3	200	2.57	
Surrogate: 1-Chlorooctane	111	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	113	57.6-15	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/02/2011	Sampling Date:	09/01/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	STATE C TRACT 13 WELL #014	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: EAST WALL CENTER (H101872-03)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	16.0 09/06/2011		400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	157	78.3	200	2.57	
Surrogate: 1-Chlorooctane	108	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	-Chlorooctadecane 110 % 57.6-1.		8						

#### Sample ID: SOUTH WALL CENTER (H101872-04)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2011	ND	400	100	400	7.69	
TPH 8015M	mg	mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	157	78.3	200	2.57	
Surrogate: 1-Chlorooctane	110	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	112 % 57.6-15		8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/02/2011	Sampling Date:	09/01/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	STATE C TRACT 13 WELL #014	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: WEST MID BOTTOM (H101872-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/06/2011	09/06/2011 ND 400		100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	157	78.3	200	2.57	
Surrogate: 1-Chlorooctane	102	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	102 % 57.6-15		8						

#### Sample ID: EAST N.W. CORNER (H101872-06)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/06/2011	ND	400	100	400	7.69	
TPH 8015M	mg	mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	157	78.3	200	2.57	
Surrogate: 1-Chlorooctane	105	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	tadecane 108 % 57.6-12		8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/02/2011	Sampling Date:	08/31/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	STATE C TRACT 13 WELL #014	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: EAST MID BOTTOM (H101872-07)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/06/2011	ND	400		400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	157	78.3	200	2.57	
Surrogate: 1-Chlorooctane	106	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108 % 57.6-15		8						

#### Sample ID: EAST S.E. CORNER (H101872-08)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/06/2011	ND	400	100	400	7.69	
TPH 8015M	mg	mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	157	78.3	200	2.57	
Surrogate: 1-Chlorooctane	107	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	e: 1-Chlorooctadecane 109 % 57.6-1.		8						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 7 of 7

## Appendix D Final Form C-141

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

State of New Mexico Energy Minerals and Natural Resources

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

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												
						<b>OPERATOR</b> Initial Report X Final Re						Final Report	
Name of Co		Apache (				Contact Natalie Gladden							
Address		ox 1849, Eu		, 88231		Telephone No. (575) 390-4186							
Facility Nar	ne Sta	te C Tract 1	3 #14			Facility Typ	e Productio	on Well					
Surface Ow	ner Wa	allach		Mineral C	Owner	State of NM	1	]	Lease N	o. 30-025-	39286	)	
	LOCATION OF RELEASE												
Unit Letter	Section	Township	Range	Feet from the	Nort	h/South Line	Feet from the	East/Wes	st Line	County			
F	36	21S	37E	450	FNL		990	FWL	-	Lea			
			Lat	itude		Longitu	de						
				NAT	URI	E OF REL	EASE						
Type of Rele	ase Prod	luced Water/C	Dil Mixture				Release 10 bbl	V	olume R	ecovered	) bbl		
Source of Re		ck pressure va	lve			08/26/11	Iour of Occurrenc		ate and 1 8/26/11	Hour of Dis	covery		
Was Immedia	ate Notice (		Yes 🗌	No 🛛 Not R	equired	If YES, To	Whom?						
By Whom?	· · · · · ·					Date and H							
Was a Water	course Read		Yes 🗵	No		If YES, Vo	olume Impacting t	he Waterco	ourse.				
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.'	;		I							
Describe Cau Stuffing box hauled to Sur	leak was fo	und. Due to u			icks, ca	lliche was brou	ight in to dry up s	tanding flu	ids then	that materia	l was e	excavated and	
The leak affe samples were	cted the cal collected f		ounding th vation and	e wellhead. Impa sent to a commer			ved to a NMOCD loride and TPH co						
I hereby certi regulations a public health should their o or the environ	fy that the i ll operators or the envir operations h nment. In a	information g are required t ronment. The ave failed to	iven above o report ar e acceptance adequately OCD accept	is true and comp ad/or file certain r to of a C-141 report investigate and r	elease ort by t emedia	notifications a he NMOCD m ate contaminati	knowledge and u nd perform correc uarked as "Final R ion that pose a thre ye the operator of p	tive action eport" does eat to groun responsibil	s for rele s not reli nd water lity for co	eases which eve the oper- , surface way ompliance v	may er rator of ter, hu vith any	ndanger f liability man health	
Signature:	$\int a$	tali	Gil	odden	)		OIL CON	<u>SERVA'</u>	TION	DIVISIC	<u>DN</u>		
Printed Name	e: Natali	e Gladden				Approved by	District Supervise	or:					
Title: EH&	&S Environ	mental Tech				Approval Da	te:	Exp	piration l	Date:			
E-mail Addre	ess: Nata	llie.gladden@	apachecor	p.com		Conditions of Approval:				Attached			
Date:	191	L Ita If Nacasa	Phone	(575) 390-4186									

Attach Additional Sheets If Necessary