19 - 425 - 31

REPORTS

DATE

2006

Vac Jet 26-6 1R-425-31

Rinal

Report

RECEIVED

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ADD - 3 2007

Environmental Bureau
Oil Conservation Division

Closure

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM JU	JNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DI	MENSIONS -	FEET
Vacuum	jct. K-6	к	6	188	35E	Lea	Length	Width	Depth
	,			<u> </u>			no box	System abando	onment
LAND TYPE: BLM	STA	ATE X	EEE I AND	OWNER			OTHER		
Depth to Groundwa									
Date Started	8/23/20	005	Date Co	mpleted	5/23/2006	NMO	CD Witness	<u>n</u>	0
Soil Excavated	44	cubic yar	ds Exc	cavation Le	ength 10	Width	10	Depth	12 fee
Soil Disposed	36	cubic yar	ds Of	fsite Facility	Sunc	lance	Location	Eunice	e, NM
FINAL ANALYTI	CAL RE	SULTS:	Sampi	le Date	9/21/20 5/23/20	005, 006	Sample De	epth	12, 45 ft
5-point composite sa							-		
sidewalls. TPH and ch	loride labor	atory test re	sults comp	leted by usi	ng an appro		CHLOR	RIDE FIELD T	ESTS
laboratory and	a testing pro	ceaures pur	suant to in	MOCD guid	ielines.		OCATION	DEPTH (ft)	ppm
Sample	PID	GR	20	DRO	Chloride		wall comp.	n/a	1367
Location	ppm	mg/	/kg	mg/kg	mg/kg	bo	ottom comp.	12	275
4-WALL COMP.	0.0	<10	0.0	<10.0	1820		ckfill comp.	n/a	806
воттом сомр.	0.0	<10	0.0	<10.0	435		······	25	579
BACKFILL	0.0	<10	0.0	<10.0	1050			30	375
SOIL BORE @ 45 ft	0.0	<10	0.0	<10.0	178		soil bore	35	209
								40	220
General Description of	Remedial A	action:	This junction	box was addr	essed as	1		45	169
art of the Vacuum SWD Sy	ystem Abando	nment. After t	he box was re	emoved, delin	eation trenches				
ere made at and around th	ne former junc	tion using a tra	ckhoe. The	excavation wa	s extended to				
0 x 10 x 12-ft (to the grass	line) where co	omposite samp	les were coll	ected for lab c	onfirmation. H	ydrocarbon w	as not present	within the lab's o	detection
mits, meeting NMOCD gu	idelines. Chlo	oride concentra	ations were c	onsistent to 12	ft BGS. The	excavated soil	was blended	on site and then	backfilled
nto the excavation to appro	x.8ftBGS.T	he remaining o	excavated so	il was dispose	d of off-site an	d clean, impo	ted topsoil was	s brought in as re	placement.
he remainder of the excav	ation was back	kfilled with the	clean, impor	ted fill and cor	ntoured to the s	urrounding su	urface. On 5/2	3/06, a soil bore	was
onducted to further investig	gate chloride d	concerns. Chlo	oride concent	trations declin	ed throughout	the bore and	drilling was sto	pped at 45 ft BG	S where
hloride was <250 ppm and	the hole was	plugged with t	pentonite. Th	ne disturbed so	urface was see	ded with a ble	nd of native ve	egetation and is e	expected
return to productive capa	city at a norma	al rate.							
		enclosure	s: photos, lat	results, PID:	screenings, ch	loride graph, o	disposal manife	ests, soil bore log	, cross-section
I HEREBY (CERTIFY TI	HAT THE IN				ID COMPL	ETE TO THE	E BEST OF M	Υ
			KNOV	VLEDGE AN	NU BELIEF.				
SITE SUPERVISOR	Roy Rascon	SIGN	NATURE 7	Key K	KASC	, <u>67</u> сомр	ANY RICI	E Operating Com	npany
	. , , , , , , , , , , , , , , , , , , ,			<i>V</i>	<i>V.</i>	, ,		Ω	. _
REPORT ASSEMBLED BY	Kri	istin Farris Pop	oe	SIGNATURE		(28/1)	CV (1771	s rot	<u> </u>
DATE		7/31/2006		TITLE		r	Project Scientic	. /	

Sundance Services, Inc.

P.O. Box 1737 **★** Eunice, New Mexico 88231 (505) 394-2511



	()		Ticket # 2495
Lease Operator/Shipper/Company:	- Ruch	<u> </u>	
Lease Name:	TO VAC	JCT	K-6
Transporter Company:RW	I-	_Time	AM/PM
Date: 2/15/06 Vehicle No.	# 79	Driver No	o
Charge To:			
ТҮРЕ	OF MATERIA	L	
Produced Water	Drilling Fluids	· · □	Completion Fluids
☐ Tank Bottoms	Contaminated Soil		C-117 No.:
Other Materials	BS&W Content:		
Description: O/D			JETOUT CALLOUT
VOLUME OF MATERIAL	BBLS. /2	ARDS	
AS A CONDITION TO SUNDANCE SERVICES, IN JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND MATERIAL EXEMPT FROM THE RESOURCE, CONSERTIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SEVENTURE OF THE EXEMPTION AFFORDED DRILLIN WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION ALSO AS A CONDITION TO SUNDANCE SERVICE TICKET, TRANSPORTER REPRESENTS AND WARRANT TRANSPORTER IS NOW DELIVERED BY TRANSPORTED THAN SPORTED THAN SPORTED THAN SPORTED THAN SPORTED THAN SPORTED THAN SOURCE AND WARRANT AND WALL CERTIFY that the above Transported to additional materials were additional materials were additional materials.	WARRANTS THAT THE WARTION AND RECOVERY SAF. CODE 361.001 ET SEIG FLUIDS, PRODUCED WUCTION OF CRUDE OIL CES. INC.'S ACCEPTANCE IS THAT ONLY THE MATIER TO SUNDANCE SERVICANSPORTER loaded the data it was tendered	ASTE MATER ACT OF 1976 Q., AND REG VATERS, AND DR NATURAL OF THE MAT ERIAL DELIV CES, INC.'S F material re by the above	RIAL SHIPPED HEREWITH IS 5, AS AMENDED FROM TIME TO ULATIONS RELATED THERETO, 0 OTHER WASTE ASSOCIATED . GAS OR GEOTHERMAL ENERGY. TERIALS SHIPPED WITH THIS JOB VERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL. Expresented by this Transporter we described shipper: This will
DRIVER:			
	111 1	1	
FACILITY REPRESENTATIVE:	Mille	人	Annual Control of the

Sundance Services, Inc. P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

		7),		Ticket # 2541
Lease Operator/Shipp	per/Company:	/Carl	7	
Lease Name:	= #HEVAC	K-6 J	CT	
Transporter Company	y: RWS	forecome.	Time	AM/PM
3/1-1		4 1		
Date:	Vehicle No.		Driver N	lo
Charge To:	1chep			
	TYP	E OF MATER	RIAL	
☐ Produced Wa	ter 🗌	Drilling Fluids		Completion Fluids
☐ Tank Bottoms		Contaminated S	Soil	C-117 No.:
Other Materia	ils 🗌	BS&W Content:		1
Description:	0/0			JETOUT CALLOUT
VOLUME OF MATERIA	AL	BBLS.	Z ARDS	
		•		
JOB TICKET, OPERATOR/SHI MATERIAL EXEMPT FROM T TIME, 40 U.S.C. 6901, ET SEQ BY VIRTUE OF THE EXEMPT	THE RESOURCE, CONSEI)., THE NM HEALTH AND FION AFFORDED DRILLE	O WARRANTS THAT TI RVATION AND RECOV O SAF. CODE 361.001 E NG FLUIDS, PRODUC	HE WASTE MATE VERY ACT OF 197 T SEQ., AND REC ED WATERS, ANI	LS SHIPPED WITH THIS RIAL SHIPPED HEREWITH IS 6, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED L GAS OR GEOTHERMAL ENERGY.
	PRESENTS AND WARRAN	NTS THAT ONLY THE	MATERIAL DELIV	TERIALS SHIPPED WITH THIS JOB VERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL.
Statement at the above a	described location, an	d that it was tende	red by the abo	epresented by this Transporter ve described shipper. This will naterial was delivered without
DRIVER:				
	5,1	11 /	1	***************************************
FACILITY REPRESENTA	TIVE:	ly Ko		NR-ARE distinguished to the second

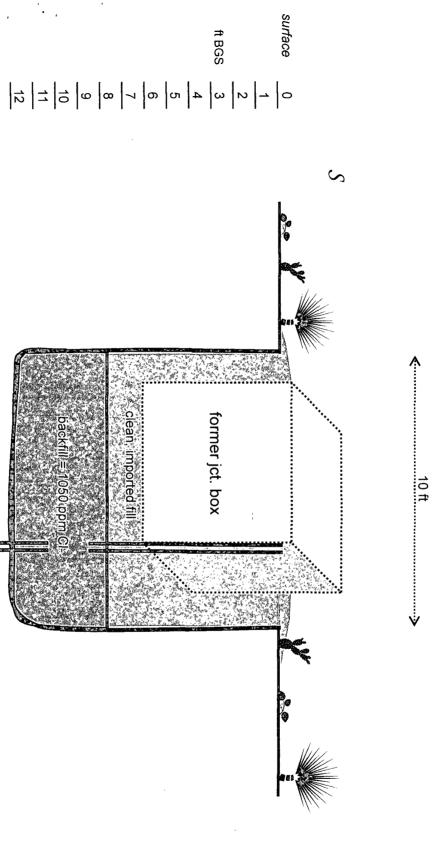
Sundance Services, Inc. P.O. Box 1737 * Eunice, New Mexico 88231

(505) 394-2511

			7 .		Ticket # 2587
Lease O	perator/Shipper/Co	ompany:	Kuc	0	
Lease N	ame:	& VACK	6 Jct		
Transpo	rter Company:	RWI	PROCES	Time	AM/PM
Date:	2/15/060	Vehicle No	4 79	Driver	No
Charge	то:	ico			
		TYPE	OF MATERIA	\L	
	Produced Water		Drilling Fluids		Completion Fluids
	Tank Bottoms	J	Contaminated Soil		C-117 No.:
	Other Materials		BS&W Content:		· · · · · · · · · · · · · · · · · · ·
	Description:	0/0			JETOUT CALLOUT
VOLUME	OF MATERIAL	E	BBLS. $\sqrt{3}$	Z-ARDS	
JOB TICKE' MATERIAL TIME, 40 U. BY VIRTUE WITH THE I ALSO TICKET, TR TRANSPOR THIS	I, OPERATOR/SHIPPER I EXEMPT FROM THE RE S.C. 6901, ET SEQ., THE OF THE EXEMPTION A EXPLORATION, DEVELO AS A CONDITION TO S ANSPORTER REPRESEN TER IS NOW DELIVERE S WILL CERTIFY to at the above describe	REPRESENTS AND WESOURCE, CONSERVAND HEALTH AND SAFFORDED DRILLING DEPOSITION OF PRODUCTURE AND WARRANTS DEPOSITE OF THE PRODUCTURE OF THE	ARRANTS THAT THE ATION AND RECOVER AF. CODE 361.001 ET S FLUIDS, PRODUCED CTION OF CRUDE OIL S, INC.'S ACCEPTANCE THAT ONLY THE MAINTO SUNDANCE SERVE AS PORTER LOADED THAT WAS tendered that it was tendered.	WASTE MATI Y ACT OF 19' EQ., AND RE WATERS, AN OR NATURA E OF THE MATERIAL DELI CICES, INC.'S E material is d by the abo	ALS SHIPPED WITH THIS ERIAL SHIPPED HEREWITH IS 76, AS AMENDED FROM TIME TO GULATIONS RELATED THERETO, D OTHER WASTE ASSOCIATED AL GAS OR GEOTHERMAL ENERGY. ATERIALS SHIPPED WITH THIS JOB EVERED BY OPERATOR/SHIPPER TO FACILITY FOR DISPOSAL. The presented by this Transporter Ever described shipper. This will material was delivered without
DRIVER: _	REPRESENTATIVE:	ZZ. Kell	De Roac	h	
		a Taggir* Ne			

Vacuum jct. K-6
10 x 10 x 12 ft

Excavation Cross-Section



soil bore to 45 ft

*** not to scale ***

Vacuum jct. K-6



jct. box site with box removed; before excavation







9/21/05

 $10 \times 10 \times 12$ -ft-deep excavation

2/15/06



completing backfill; spreading topsoil

2/16/06



soil bore delineation

5/23/06



raking seed at backfilled site

2/22/06



plugging soil bore with bentonite

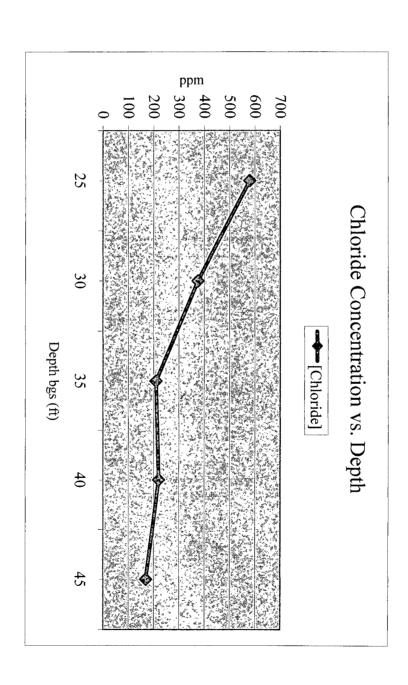
5/23/06

Vacuum jct. K-6 unit 'K', Sec. 6, T18S, R35E

SOIL BORE 5/23/2006

45	40	35	30	25	Depth bgs (ft)
169	220	209	375	579	

Groundwater = 95 ft



RICE OPERATING COMPANY

122 WEST TAYLOR

HOBBS, NEW MEXICO 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

AIR

METER READING

EXP. DATE: 8-1-06

ACCURACY: 100,0

SERIAL NO: 104412

100 PPM

BALANCE

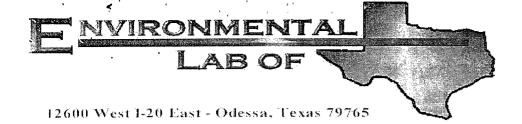
FILL DATE: 2-1-05

ACCURACY: 7/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
VAC	JCT K-6	K	6	185	35E

	* * * * * * * * * * * * * * * * * * * *		and the second second
SAMPLE	PID RESULT	SAMPLE	PID RESULT
4-WBII Comp. 10	X10'X12'	ļ.	
	0.0	5 · · · · · · · · · · · · · · · · · · ·	1
,			ĺ.
BTM 5 PT. Con	pe 12'		
	0,0		
Blended Soil	Backfill		
	0.0		
	·		

I certify that I have calibrated the above instrument in accordance to the manufacture operation manual.





Analytical Report

Prepared for:

Roy Rascon Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: Vacuum Jct. K-6
Project Number: None Given
Location: None Given

Lab Order Number: 5I22001

Report Date: 09/27/05

Project: Vacuum Jct. K-6

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 09/27/05 08:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
10'X10' 4 Wall Comp.	5I22001-01	Soil	09/21/05 10:45	09/22/05 08:00
Blended Soil	5122001-02	Soil	09/21/05 10:48	09/22/05 08:00
Bottom 5 PT 10'X10'X12'@ 12'	5122001-03	Soil	09/21/05 10:12	09/22/05 08:00

Project: Vacuum Jct. K-6

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 09/27/05 08:51

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analysiad	Method	Notes
				Dilution	Batch	герагеа	Analyzed	Method	Notes
10'X10' 4 Wall Comp. (5122001-01) So)II								
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52304	09/23/05	09/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	D.	"	n	11	II.	*1	
Total Hydrocarbon C6-C35	ND	10.0	41	11	11	11	U	II .	
Surrogate: 1-Chlorooctane		75.0 %	70-1.	30	11	"	"	n	
Surrogate: 1-Chlorooctadecane		89.4 %	70-1.	30	"	"	"	"	
Blended Soil (5I22001-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	. 1	E152304	09/23/05	09/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	и '	n n	п	19	u	И	
Total Hydrocarbon C6-C35	ND	10.0	It	п	н	ш	U	R	
Surrogate: 1-Chlorooctane		80.0 %	70-1.	30	"	"	"	n n	
Surrogate: 1-Chlorooctadecane		105 %	70-1.	30	"	H	u	"	
Bottom 5 PT 10'X10'X12'@ 12' (51220	001-03) Soil								
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52304	09/23/05	09/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11	11	11	п	11	n	
Total Hydrocarbon C6-C35	ND	10.0	*1	#1	+1	II	и	н	
Surrogate: 1-Chlorooctane		95.2 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-1.	30	"	"	"	"	

Project: Vacuum Jct. K-6

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 09/27/05 08:51

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10'X10' 4 Wall Comp. (5122001-01) S	oil								
Chloride	1820	25.0	mg/kg	50	E152305	09/22/05	09/23/05	EPA 300.0	
% Moisture	4.2	0.1	%	1	E152301	09/22/05	09/23/05	% calculation	
Blended Soil (5122001-02) Soil									
Chloride	1050	20.0	mg/kg	40	EI52305	09/22/05	09/23/05	EPA 300.0	
% Moisture	4.5	0.1	%	1	EI52301	09/22/05	09/23/05	% calculation	
Bottom 5 PT 10'X10'X12'@ 12' (5122	001-03) Soil								
Chloride	435	10.0	mg/kg	20	EI52305	09/22/05	09/23/05	EPA 300.0	
% Moisture	5.9	0.1	%	1	EI52301	09/22/05	09/23/05	% calculation	

Project: Vacuum Jct. K-6

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 09/27/05 08:51

Organics by GC - Quality Control Environmental Lab of Texas

Analyte Batch E152304 - Solvent Extraction (Blank (E152304-BLK1) Gasoline Range Organics C6-C12 Diesel Range Organics >C12-C35	GC) ND ND								Limit	
Blank (E152304-BLK1) iasoline Range Organics C6-C12	ND									
asoline Range Organics C6-C12				Prepared	& Analyze	ed: 09/23/0)5			
Piesel Range Organics >C12-C35	ND	10.0	mg/kg wet	· · · · · · · · · · · · · · · · · · ·						
		10.0	11							
otal Hydrocarbon C6-C35	ND	10.0								
urrogate: 1-Chlorooctane	44.0		mg/kg	50.0		88.0	70-130			
urrogate: 1-Chlorooctadecane	37.7		"	50.0		75.4	70-130			
CS (EI52304-BS1)				Prepared	& Analyze	ed: 09/23/0)5			
Gasoline Range Organics C6-C12	404	10.0	mg/kg wet	500		80.8	75-125			
Diesel Range Organics >C12-C35	489	10.0	Ħ	500		97.8	75-125			
otal Hydrocarbon C6-C35	893	10.0	11	1000		89.3	75-125			
urrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.6	70-130			
iurrogate: 1-Chlorooctadecane	48.3		"	50.0		96.6	70-130			
Calibration Check (EI52304-CCV1)				Prepared:	09/23/05	Analyzed	: 09/24/05			
Gasoline Range Organics C6-C12	413		mg/kg	500		82.6	80-120			
Diesel Range Organics >C12-C35	443		u	500		88.6	80-120			
otal Hydrocarbon C6-C35	856		н	1000		85.6	80-120			
urrogate: 1-Chlorooctane	45.3		"	50.0		90.6	0-200			
urrogate: 1-Chlorooctadecane	44.1		"	50.0		88.2	0-200			
Aatrix Spike (E152304-MS1)	So	urce: 512200	01-01	Prepared: 09/23/05 Analyzed: 09/24/05						
asoline Range Organics C6-C12	457	10.0	mg/kg dry	522	ND	87.5	75-125			
Diesel Range Organics >C12-C35	494	10.0	11	522	ND	94.6	75-125			
otal Hydrocarbon C6-C35	951	10.0	II	1040	ND	91.4	75-125			
lurrogate: 1-Chlorooctane	55.3		mg/kg	50.0		111	70-130			
urrogate: 1-Chlorooctadecane	51.8		<i>n</i> ,	50.0		104	70-130			
Aatrix Spike Dup (EI52304-MSD1)	So	urce: 51220	01-01	Prepared:	09/23/05	Analyzed	: 09/24/05			
Basoline Range Organics C6-C12	463	10.0	mg/kg dry	522	ND	88.7	75-125	1.30	20	
Diesel Range Organics >C12-C35	500	10.0	11	522	ND	95.8	75-125	1.21	20	
otal Hydrocarbon C6-C35	963	10.0	U	1040	ND	92.6	75-125	1.25	20	
urrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130			

Project: Vacuum Jet. K-6

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 09/27/05 08:51

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch E152301 - General Preparation (Prep)									
Blank (E152301-BLK1)				Prepared:	09/22/05	Analyzed:	: 09/23/05			
% Solids	100		%							
Duplicate (EI52301-DUP1)	So	urce: 512101.	3-01	Prepared:	09/22/05	Analyzed:	: 09/23/05			
% Solids	86.5		%		86.1			0.464	20	
Duplicate (EI52301-DUP2)	So	urce: 5122008	8-07	Prepared:	09/22/05	Analyzed:	: 09/23/05			
% Solids	99.4		%		98.9			0.504	20	
Duplicate (EI52301-DUP3)	So	urce: 512201	9-03	Prepared:	09/22/05	Analyzed:	: 09/23/05			
% Solids	97.6		%		97.8			0.205	20	
Duplicate (EI52301-DUP4)	So	urce: 512202	1-18	Prepared:	09/22/05	Analyzed:	: 09/23/05			
% Solids	90.8	SEC 100 100 100 100 100 100 100 100 100 10	%		90.6			0.221	20	
Batch E152305 - Water Extraction										
Blank (E152305-BLK1)				Prepared:	09/22/05	Analyzed:	: 09/23/05			
Chloride	ND	0.500	mg/kg						·	A SEE VERYING
LCS (El52305-BS1)				Prepared:	09/22/05	Analyzed:	: 09/23/05			
Chloride	9.07		mg/L	10.0		90.7	80-120			
Calibration Check (EI52305-CCV1)				Prepared:	09/22/05	Analyzed:	: 09/23/05			
Chloride	9.29		mg/L	10.0		92.9	80-120			
Duplicate (EI52305-DUP1)	So	urce: 512101.	3-01	Prepared:	09/22/05	Analyzed	: 09/23/05			
Chloride	90.7	0.500	mg/kg		91.3			0.659	20	

Project: Vacuum Jct. K-6

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 09/27/05 08:51

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

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Report Approved By:

Date: 9-27-05

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763

Phone: 915-563-1800

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Fax: 915-563-1713

Project Name: VAC Project #: Project Loc: ₽O #: Fax No: (505) 397-147 Operating Company Address: A. M. Taylar Rascon Sampler Signature: Roy R. RASCON Telephone No:(505) 393-9174 Cliy/State/Zlp: Hobbs, NM Company Name BLOE Project Manager:

TOLP

The companies The companie				<u> </u>		Preservative	ıvaliv	0	Г		Matrix			 	_	98								
Date Time Received by: 1 1 1 1 1 1 1 1 1	FIELD CODE	balqms2 als0	bəlqms∂ əmi⊺						(Specify)				TDS (C) SAR / EC						0503/81508 X3T8					Islubario2-919) TAT HZUR
Stended Set		9-21-05	10 454	<u></u>							>		>		>		<u> </u>			<u> </u>			<u> </u>	1
8 Tim S PT 10 x 1 v x v v v v v v v v v v v v v v v v	Blended Soil	9-21-05	10 98 A	<u> </u>							>		>											
45 CON 9-21 CS 123C	BITIN S PT 10×10×12 @ 12'	9-21-05	1012 A	<u>ر</u> 							-3		>											
#\$ Con 9.21 & 1300 Part Part Part 1		-																						
## CON 9-2' 03-1/23C				<u> </u>			<u> </u>	<u> </u>			<u> </u> 	<u> </u>		 	<u> </u>	<u> </u>	_				<u> </u>		 	
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# Scripte Containers Inter Date Time Received by:					-			-			-	_			-	 	<u> </u>			<u> </u>			 	-
#\$ CON 9-2' CS 1220 (Manually ElOT) Date Time Received by: Date Time Received by: Time Received by:					<u> </u>		 	1			} -	-		 	┼─	-	<u> </u>		1	-	ļ		╁	-
45 CON 9-21 CS - 123C				-			-	<u> </u>			-	-				\vdash	<u> </u>			-	<u> </u>			+-
Sample Containers, Interf Part				 	_		-	-			 	-	1		 	 	<u> </u>			+	ļ		<u> </u>	\vdash
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9.21-55-1220 (Mitany 12.1) 18:00 (Maxy 2.1) Date Time Recaived by ELOT: 1000 (Maxy 2.1) 9/2 8/00 (Maxy 1.1) 1000		Received by:	1, 1						_	Da	9	-	Tim.	0			~	Š	ì	Ÿ	~~	ŋ		
Time Recaived by HLOT STOO (Ag A.C. (OCC (721/M5 STO)			(tary	5)	١					/		Ž	3			2 3	Ĭ.	در) }	Ĭ	۸.		
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

	1		•	-
lient: <u>Pice Op.</u>				
Date/Time: 9/22/05 8:00				
Order #: <u>6T_22001</u>				
nitials:				
Sample I	Receipt Check	list		
Temperature of container/cooler?	Yes	No	-1.0	C
Shipping container/cooler in good condition?	(ES)	No		
Custody Seals intact on shipping container/cooler?	(es	No	Not preser	nt
Custody Seals intact on sample bottles?	Yes	No	Not preser	ıt
Chain of custody present?	(CES)	No		
Sample Instructions complete on Chain of Custody?	YES	No		
Chain of Custody signed when relinquished and receive		No		
Chain of custody agrees with sample label(s)	\(\forall z \)	No		
Container labels legible and intact?	Yes,	No		
Sample Matrix and properties same as on chain of cust		No		
Samples in proper container/bottle?	Yes	No		
Samples properly preserved?	E	No		
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	Yas,			
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?	Yes	No		
VOC samples have zero headspace?	(es)	No	Not Applica	hle
Other observations:				
Variance Contact Person: Date/Time Regarding:	e Documentatio e:		Contacted t	эу:
Corrective Action Taken				
Corrective Action Taken:		·		
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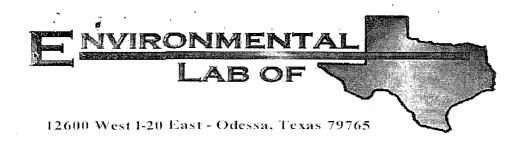
RICE OPERATING COMPANY

122 West Taylor Hobbs, NM **88**240 Phone: (505) 393-9174 Fax: (505) 397-1471

VOC FIELD TEST REPORT FORM

PID METER READING & CALIBRATION

CK. MODEL NO. LOT NO: FILL DATE: ACCURACY: +/-	MODEL: PGM 761S MODEL: PGM 761S MODEL: PGM 7600	GAS COMP		SERIAL NO: SERIAL NO: SERIAL NO: DBUTYLENE 100P EXP. DAT READING ACCUR	104490 110-12383 PM / AIR: BALANCE TE:
SYSTEM	JUNCTION	UNIT S	SECTION	TOWNSHIP	RANGE
Uac	JC+ K-6			185	35E
Bore SAMPLE 5' Das 10' bas 15' bas 30' bas 30' bas 45' bas	PID RESULT O O O O O O O O O O O O O O O O O O	IS SAMPLE	ker 5'	PID RESU	ŪLTS ————————————————————————————————————
l verify	that I have calibrated the above	ve instrument in		the manufacure ope	2





Analytical Report

Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: Vac. K-6

Project Number: None Given

Location: None Given

Lab Order Number: 6E25003

Report Date: 05/30/06

Project: Vac. K-6

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

Reported: 05/30/06 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
45' bgs	6E25003-01	Soil	05/23/06 11:46	05/25/06 08:00

Project: Vac. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/30/06 14:27

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
45' bgs (6E25003-01) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62508	05/25/06	05/26/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	11	#	17	rr ·	u u	u .	
Carbon Ranges C28-C35	ND	10.0	11	17	11	н	*1	rr .	
Total Hydrocarbon nC6-nC35	ND	10.0	II.	Ħ	H	"	19	н	
Surrogate: I-Chlorooctane		98.8 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-1	30	"	"	"	"	

Project: Vac. K-6

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

Reported: 05/30/06 14:27

General Chemistry Parameters by EPA / Standard Methods **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
45' bgs (6E25003-01) Soil									
Chloride	178	10.0	mg/kg	20	EE62605	05/26/06	05/26/06	EPA 300.0	
% Moisture	1.6	0.1	%	1	EE62607	05/25/06	05/26/06	% calculation	

Project: Vac. K-6 Project Number: None Given

Project Number: None Given
Project Manager: Kristin Farris-Pope

Spike

Source

%REC

Fax: (505) 397-1471

Reported: 05/30/06 14:27

RPD

Organics by GC - Quality Control Environmental Lab of Texas

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE62508 - Solvent Extraction	(GC)									
Blank (EE62508-BLK1)				Prepared	& Analyz	ed: 05/25/	06			
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	11							
Carbon Ranges C28-C35	ND	10.0	n							
Total Hydrocarbon nC6-nC35	ND	10.0	11							
Surrogate: 1-Chlorooctane	44.0		mg/kg	50.0		88.0	70-130			
Surrogate: 1-Chlorooctadecane	46.1		"	50.0		92.2	70-130			
LCS (EE62508-BS1)				Prepared	& Analyz	ed: 05/25/	06			
Carbon Ranges C6-C12	539	10.0	mg/kg wet	500		108	75-125			
Carbon Ranges C12-C28	481	10.0	11	500		96.2	75-125			
Total Hydrocarbon nC6-nC35	1020	10.0	n	1000		102	75-125			
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	70-130			
Surrogate: 1-Chlorooctadecane	44.0		"	50.0		88.0	70-130			
Calibration Check (EE62508-CCV1)				Prepared:	05/25/06	Analyzed	d: 05/26/06			
Carbon Ranges C6-C12	283		mg/kg	250		113	80-120			
Carbon Ranges C12-C28	295		**	250		118	80-120			
Total Hydrocarbon nC6-nC35	578		н	500		116	80-120			
Surrogate: 1-Chlorooctane	48.0		11	50.0		96.0	70-130			
Surrogate: 1-Chlorooctadecane	47.6		"	50.0		95.2	70-130			
Matrix Spike (EE62508-MS1)	So	urce: 6 E24 0	01-07	Prepared	& Analyz	ed: 05/25/	06			
Carbon Ranges C6-C12	578	10.0	mg/kg dry	538	ND	107	75-125			
Carbon Ranges C12-C28	462	10.0	11	538	ND	85.9	75-125			
Total Hydrocarbon nC6-nC35	1040	10.0	11	1080	ND	96.3	75-125			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	48.3		"	50.0		96.6	70-130			

Project: Vac. K-6

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

Reported: 05/30/06 14:27

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE62508 - Solvent Extra	ction (GC)									

Matrix Spike Dup (EE62508-MSD1)	Sour	ce: 6E240	01-07	Prepared a	& Analyz	ed: 05/25/	06		
Carbon Ranges C6-C12	586	10.0	mg/kg dry	538	ND	109	75-125	1.37	20
Carbon Ranges C12-C28	471	10.0	11	538	ND	87.5	75-125	1.93	20
Total Hydrocarbon nC6-nC35	1060	10.0	u	1080	ND	98.1	75-125	1.90	20
Surrogate: 1-Chlorooctane	52.3		mg/kg	50.0		105	70-130		
Surrogate: 1-Chlorooctadecane	48.7		"	50.0		97.4	70-130		

Project: Vac. K-6

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

Reported: 05/30/06 14:27

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE62605 - Water Extraction										
Blank (EE62605-BLK1)				Prepared	& Analyze	ed: 05/26/	06			
Chloride	ND	0.500	.mg/kg							
LCS (EE62605-BS1)				Prepared	& Analyze	ed: 05/26/	06			
Chloride	10.0	0.500	mg/kg	10.0		100	80-120			
Calibration Check (EE62605-CCV1)				Prepared	& Analyze	ed: 05/26/	06			
Chloride	10.2		mg/kg	10.0		102	80-120			
Duplicate (EE62605-DUP1)	Sour	ce: 6E2200	04-32	Prepared	& Analyze	ed: 05/26/	06			
Chloride	13.3	5.00	mg/kg		14.6			9.32	20	
Duplicate (EE62605-DUP2)	Sour	ce: 6E2301	0-02	Prepared	& Analyze	ed: 05/26/	06			
Chloride	70.3	10.0	mg/kg		66.8			5.11	20	
Matrix Spike (EE62605-MS1)	Sour	ce: 6E2200	14-32	Prepared	& Analyze	ed: 05/26/	06			
Chloride	103	5.00	mg/kg	100	14.6	88.4	80-120			
Matrix Spike (EE62605-MS2)	Sour	ce: 6E2301	0-02	Prepared	& Analyze	ed: 05/26/	06			
Chloride	257	10.0	mg/kg	200	66.8	95.1	80-120	100 10444		
Batch EE62607 - General Preparation	(Prep)	· · · · · · · · · · · · · · · · · · ·								
Blank (EE62607-BLK1)				Prepared:	05/25/06	Analyzec	1: 05/26/06			
% Solids	100		%							
Duplicate (EE62607-DUP1)	Sour	ce: 6E2401	6-01	Prepared:	05/25/06	Analyzed	l: 05/26/06			
% Solids	96.6		%		96.8			0.207	20	

Project: Vac. K-6

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

Reported: 05/30/06 14:27

General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	TODATI	Diffic		150 (0)	resure	701120		10.10		
Batch EE62607 - General Prepar	ration (Prep)									
Duplicate (EE62607-DUP2)	Sou	rce: 6E24016	5-21	Prepared:	05/25/06	Analyzed	1: 05/26/06			
% Solids	99.6		%		99.9			0.301	20	
Duplicate (EE62607-DUP3)	Sou	ırce: 6E24016	5-41	Prepared:	05/25/06	Analyzed	1: 05/26/06			
% Solids	99.7		%		99.5			0.201	20	
Duplicate (EE62607-DUP4)	Sou	rce: 6E25007	7-02	Prepared:	05/25/06	Analyzed	l: 05/26/06			
% Solids	90.8		%		89.7			1.22	20	

Project: Vac. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/30/06 14:27

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

LCS

Laboratory Control Spike

MS

Matrix Spike

Dup

Duplicate

Report Approved By:

Raland K Juril

Date: <u>5-30-06</u>

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763

Phone: 915-563-1800 Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Project Manager:	Company Name	:	City/State/Zip:	Telephone No:	Sampler Signature:													. I	.	j	1 "
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

ent: ACC OP-				
e/Time: <u>5/25/04</u> 8:00			•	
der#: <u>UE250Q3</u>				
ials:				
Sample Receip	ot Checkli	ist		
mperature of container/cooler?	Yes	No	2,0	CI
pping container/cooler in good condition?	Yes	No		
stody Seals intact on shipping container/cooler?	Yes	No	Not prese	nt i
stody Seals intact on sample bottles?	Yes	No	Not prese	
ain of custody present?	(Es)	No		
mple Instructions complete on Chain of Custody?	(23)	No		<u>-</u>
nain of Custody signed when relinquished and received?	(E3)	No		 i
nain of Custody signed when remiduance and received in a control of custody agrees with sample label(s)	(Fess	No		
ntainer labels legible and intact?	(Fes	No		
imple Matrix and properties same as on chain of custody?	Xes	No		
imple Marrix and properties same as on enam of editody?	1 X/es	No		
imples in prober container/bottle:	(F)	No		
amples properly preserved : ample bottles intact?	Yes	No		
eservations documented on Chain of Custody?	YES	1 No		
eservations documented on Chain of Custody? Ontainers documented on Chain of Custody?		No		!
ontainers documented on Chain of Custody: ufficient sample amount for indicated test?	(ES	No		
I samples received within sufficient hold time?		I No		
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ther observations:				
Maria a para				
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Contact Person: Date/Time:	-		Contacted	ph:
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orrective Action Taken:				
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Soil Bore GW:95 Location: Jct. K-6 Landowner: State Lease to Giles M Lee System: Vac Soil Bore: Bore #1 NE of Marker GPS Coord. System UTM Nad 27 Lat. & Long. 32*46.537N 103* 30.101 W T18S R 35E UL/ K Sec.6 Depth PID Color Time CI. 11:22 5' 687 0 11:25 10' 581 0 11:28 285 0 15' 11:31 20' 428 0 11:34 25' 579 0 11:37 30' 375 0 11:40 35' 209 0 11:43 40' 220 0 LAB 11:46 45' 169 0 178

Notes: Sent 45' sample to the lab for CI and TPH. Location cleaned up at 45' stopped drilling and plugg	ed hole
with bentonite plug.	

Signature Claus 4 MM Mobate 5/23/000

Road

Road

Road

Road

Road