KOLAR Document ID: 1392851

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form U3C June 2015 Form must be Typed Form must be completed on a per well basis

ANNUAL REPORT OF PRESSURE MONITORING, FLUID INJECTION AND ENHANCED RECOVERY

Complete all blanks - add pages if needed. Copy to be retained for five (5) years after filing date.

OPER	ATOR: License #		[API No.:		
Name	:			Permit No:		
Addre	ss 1:			Reporting Year:		
Addre	ss 2:				(January 1 to December	r 31)
City: _		State: Zip:	+		Sec Twp S.	R E 🗌 W
Conta	ct Person:			(Q/Q/Q/Q)	feet from N /	S Line of Section
Phone	e: ()				feet from E /	W Line of Section
				County:		
Well N	lumber:					
			I			
-	ection Fluid:	_	_	_	_	
	Туре <i>(Pick one)</i> :	Fresh Water	Treated Brine	Untreated Brine	Water/Brine	
	Source:	Produced Water	Other (Attach list)			
			mg/I Specific Grav	vity: Additives:		
(Attach water analysi	is, îl avaliadie)				
	ell Data:			nai Inization Z anaa		
		I Injection Pressure:				
		I Injection Rate:				
	IOLAI MUMBELOI EMIA	anced Recovery Injection Wells	Covered by this Permit	(Include TA's)		
III.	Month:	Total Fluid Injected BBL	Maximum Fluid Pressure	Total Gas Injected MCF	Maximum Gas Pressure	# Days of Injection
	January					
	February					
	March					
	April					
	Мау					
	June					
	July					
	August					
	September					
	October					
	November					
	December					

Submitted Electronically

TOTAL



10/03/13

Technical Report for

Rosewood Resources, Inc.

Rosewood

Accutest Job Number: D50964



Sampling Date: 09/25/13

Report to:

Rosewood Resources, Inc. 1498 US Highway 36 Saint Francis, KS 67756 wmahon@rosewd.com

ATTN: Wayne Mahon

Total number of pages in report: 20



Scool with

Scott Heideman Laboratory Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

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Mountain States • 4036 Youngfield St. • Wheat Ridge, CO 80033-3862 • tel: 303-425-6021 • fax: 303-425-6854 • http://www.accutest.com



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Sample Summary

Rosewood Resources, Inc.

Rosewood

Job No: D50964

Sample	Collected			Matr	rix	Client
Number	Date	Time By	Received	Code	е Туре	Sample ID
D50964-1	09/25/13	10:00 WM	09/26/13	AQ	Surface Water	ISERNHAGEN 3-23 SWD
D50964-2	09/25/13	10:45 WM	09/26/13	AQ	Surface Water	RRI SWD 21-11



Summary of Hits

Job Number:	D50964
Account:	Rosewood Resources, Inc.
Project:	Rosewood
Collected:	09/25/13

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
D50964-1 ISERNHAGEN 3	-23 SWD				
TPH-GRO (C6-C10) TPH-DRO (C10-C28)	1.91 23.4	0.20 1.9	0.10 1.7	mg/l mg/l	SW846 8015B SW846-8015B
D50964-2 RRI SWD 21-11					
TPH-GRO (C6-C10) ^a TPH-DRO (C10-C28)	0.932 3.30	0.20 0.19	0.10 0.17	mg/l mg/l	SW846 8015B SW846-8015B

(a) The pH of the sample was > 2 at time of analysis.

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Section 3



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Sample Results

Report of Analysis



			Керо		ai y 515			rage 1 01 1
Client Sar Lab Samp Matrix: Method: Project:	ole ID: D5096 AQ - S	Surface Wa 6 8015B				Date	I I	1/25/13 1/26/13 a
Run #1 Run #2	File ID GA19710.D	DF 1	Analyzed 09/27/13	By EV	Prep Da n/a	ate	Prep Batch n/a	Analytical Batch GGA1105
Run #1 Run #2	Purge Volume 5.0 ml	;						
CAS No.	Compound		Result	RL	MDL	Units	Q	
	TPH-GRO (C	6-C10)	1.91	0.20	0.10	mg/l		
CAS No.	Surrogate Re	coveries	Run# 1	Run# 2	Lim	its		
120-82-1	1,2,4-Trichlo	robenzene	119%		60-1	40 %		

Report of Analysis

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6 of 20 ACCUTEST. D50964

ND = Not detected MDL - Method Detection Limit

- **RL** = **Reporting Limit**
- **E** = Indicates value exceeds calibration range
- J = Indicates an estimated value
- **B** = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound

				Repo	rt of An	alysis			Page 1 of 1
Client Sam Lab Samp Matrix: Method: Project:	le ID:	D50964 AQ - Su	-1 irface V 8015B	7 3-23 SWD Vater SW846 3510C			Date	I I I I I I I I I I I I I I I I I I I	/25/13 /26/13 a
Run #1 Run #2	File ID FH0136	14.D	DF 10	Analyzed 10/02/13	By TU	Prep D 10/01/1		Prep Batch OP8663	Analytical Batch GFH720
Run #1 Run #2	Initial V 1050 ml	olume	Final 1.0 m	Volume l					
CAS No.	Compo	und		Result	RL	MDL	Units	Q	
	TPH-D	RO (C1	0-C28)	23.4	1.9	1.7	mg/l		
CAS No.	CAS No. Surrogate Recoveries			Run# 1	Run# 2	Lim	its		
84-15-1	4-15-1 o-Terphenyl					20-1	40%		

MDL - Method Detection Limit ND = Not detected

RL = **Reporting Limit**

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

				Repo	rt of An	alysis				Page 1 of 1
Client Sam Lab Sampl Matrix: Method: Project:	-	D509 AQ -	Surface Water 6 8015B				Date	Sampled: Received: ent Solids:	09	/25/13 /26/13 a
Run #1 ^a Run #2	File ID GA197		DF 1	Analyzed 09/27/13	By EV	Prep D n/a	ate	Prep Bate n/a	ch	Analytical Batch GGA1105
Run #1 Run #2	Purge 5.0 ml	Volum	e							
CAS No.	Comp	ound		Result	RL	MDL	Units	Q		
	TPH-C	GRO (O	C6-C10)	0.932	0.20	0.10	mg/l			
CAS No.	Surro	gate R	ecoveries	Run# 1	Run# 2	Lim	its			
120-82-1	1,2,4-'	Trichlo	orobenzene	103%		60-1	40%			

(a) The pH of the sample was > 2 at time of analysis.

MDL - Method Detection Limit ND = Not detected

RL = **Reporting Limit**

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound

Page 1 of 1

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3.2



E = Indicates value exceeds calibration range

				Repo	rt of An	alysis			Page 1 of 1
Client Sam Lab Samp Matrix: Method: Project:		RRI SW D50964 AQ - Su SW846- Rosewo	-2 Irface V 8015B	Vater			Date	I I	0/25/13 0/26/13 a
Run #1 Run #2	File ID FH0136	16.D	DF 1	Analyzed 10/02/13	By TU	Prep D 10/01/1		Prep Batch OP8663	Analytical Batch GFH720
Run #1 Run #2	Initial V 1030 ml		Final 1.0 m	Volume l					
CAS No.	Compo	ound		Result	RL	MDL	Units	Q	
	TPH-D	RO (C1	0-C28)	3.30	0.19	0.17	mg/l		
CAS No.	Surrog	gate Rec	overies	Run# 1	Run# 2	Lim	its		
84-15-1	4-15-1 o-Terphenyl			81%		20-1	40 %		

MDL - Method Detection Limit ND = Not detected

RL = **Reporting Limit**

E = Indicates value exceeds calibration range

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound

3.2

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Section 4

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Custody Documents and Other Forms	Includes the following where applicable:	Misc. Forms		
		Custody Documents and	d Other Forms	
			re applicable:	



ACCUTE		C	HAIN					Y													C)F
A SHARE SHOW AND A SHARE	TORIES		4036 Youngh	ield Stree	t Wheat	ountain St Ridge, Co 77-737-45	80033						ED-EX	racking #				Bottle On Accutest	der Control	•	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	* 1 /
Client / Reporting Informatio				FAX 3	03-425-60 rmatio	21	21						cculest.		sted An	a			L	25	09	64
Company Name	Project Nam	9	11010	iss and s	a national de	Managara					1000023	96575 22	1000	reque	steu an		See 1		OUE/SR	eery		Matrix Codes
Street Address	CCS_INC. Street																					DW - Drinking Water GW - Ground Water WW - Water
1498 US HWY 36	Zīp City:			B	illing Inf iny Name	ormation	(if di	iffere	nt fror	n Rej	port to	»										SW - Surface Water SO - Soil
St. Francis, HS 6-	1756		-																			SL- Sludge SED-Sediment
Project Contact E-m Wayne Mahon Wmah Phone #	noil Project#			Street	Address																	OI - Oil LIQ - Other Liquid AIR - Air
Phone # Fox	Client PO#			City			Ste	ote			Zip											SOL - Other Solid WP - Wipe
970-630-6834 (78 Sampler(s) Name(s) Pho	Client PO#	ger		Attenti	on:				PO#			_										FB-Field Blank EB- Equipment Blan
Wayne Mahon 970-6	20-6834												1									RB- Rinse Blank TB-Trip Blank
			Collection					Т	of pres	*	_ #	æ	đ									
Accutest Scomple # Field ID / Point of Collection	MEOH/DI VI	il # Date	Time	Sampled by	Matrix	# of bottles	HCI HOM	HN03	H2SO4 NONE	D! Wa	MEOH	Bisulfo	H									LAB USE ONLY
1 Isernhagen 3-2	3 SWD	9-25-13	10:00	wm	3	5							X									QL
2 BRI SWD 21-11		9-25-13	10:45	wm	SW	5					_		X				ļ					102
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					8651047745	Dete	Deliv	arahi	5 In 30		00		(Paris)				omm	ents / 2	Special	Instru	ctions _	
Turnaround Time (Business a	lays) Approved By	(Accutest PM): / Date:				iai "A" {L	evel 1)	1		Ste	ate For					(menopolitica)	*****	MANNELLS				
Std. 10 Business Days Std. 5 Business Days (By Contract	-t only)					ial "B" (L iai "B" +N] ED] PD	ID Fan IF	mat _		-+								
5 Day R/ SH					FULLT1 (Level 3+4	4 }															
2 Day EMERGENCI						Commerc				-				-								
1 Day EMERGENCI Emergency & Rush T/A data available VIA L	abiink					Commerc												KINSKING				and the second s
Relinguished by Sampler:	Date Time:	Sample Custody mi Received By:	ust be docum	ented b	elow end	h time s	amp lə Relinq			0556	ssion,	, inclu	iding	courier	delivery. Date	Time:		Receive	id By:			$\overline{11}$
1 beauna gration	Date Time:						2									hel		2			1	 / /0:oc
Relinguished by Sampler:	Date Time:	Received By: 3					Reling 4	plahec	By:				/			Time:		Receive	Fé	10	w	9.26-1
Relinguished by:	Date Time:	Received By:					Custo	dy Sol	14			K	ntact lot intac		eserved wi	tere appli	cable		10	onge	Co	pler Tehp. 3.5
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D50964: Chain of Custody Page 1 of 2



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Accutest Laboratories Sample Receipt Summary

Client: ROSEWOOD Accutest Job Number: D50964 Date / Time Received: 9/26/2013 10:00:00 AM No. Coolers: 1

Immediate	Client	Services	Action	Required:	No

Client Service Action Required at Login: No

N/A

✓

✓

Airhill #'s UDS

Project:		Airbill #'s: UPS			
Cooler Security Y	or N	Y or N Sample Integrity - Documentation	Y	or	N
1. Custody Seals Present: Image: Custody Seals Intact: 2. Custody Seals Intact: Image: Custody Seals Intact:	3. COC Present: 4. Smpl Dates/Time 0	Image: Second system Image: Second system Image: Second system Ima	y		
Cooler Temperature	Y or N	3. Sample container label / COC agree:	✓		
 Temp criteria achieved: Cooler temp verification: Cooler media: Quality Control Preservation 	☑ □ Infared gun Ice (bag) _Y or N N/A	Sample Integrity - Condition 1. Sample recvd within HT: 2. All containers accounted for: 3. Condition of sample:	Ү 	or Intact	N □ □ t
1. Trip Blank present / cooler:		Sample Integrity - Instructions	Y	or	N
2. Trip Blank listed on COC:		1. Analysis requested is clear:	~		
3. Samples preserved properly:		2. Bottles received for unspecified tests			✓
4. VOCs headspace free:		 Sufficient volume rec'd for analysis: Compositing instructions clear: Filtering instructions clear: 			

Comments

Accutest Laboratories V:(303) 425-6021

4036 Youngfield Street F: (303) 425-6854

Wheat Ridge, CO www/accutest.com

D50964: Chain of Custody Page 2 of 2





Section 5

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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary Job Number: D50964

Job Number Account: Project:		wood Resources, Inc.					
Sample GGA1105-M	File ID IB GA19705.D	DF Analyzed 1 09/27/13	By EV	Pre n/a	p Date	Prep Batch n/a	Analytical Batch GGA1105
The QC rep D50964-1, D		o the following sampl	es:			Method: SW84	3 8015B
	Compound TPH-GRO (C6-C10)	Result	RL 0.20	MDL 0.10	Units mg/l	Q	
CAS No.	Surrogate Recoveri	es	Limit:	5	<u>8</u> , 1		

Page 1 of 1



Blank Spike Summary

Job Number Account: Project:	:: D50964 ROSRKSS Rosewoo Rosewood	od Resources, I	nc.				0
Sample GGA1105-B	File ID DH S GA19706.D 1	F Analy 09/27/		By EV	Prep Date n/a	Prep Batch n/a	Analytical Batch GGA1105
The QC rep D50964-1, D	orted here applies to th 050964-2	ne following sa	mples:			Method: SW84	6 8015B
CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits		
	TPH-GRO (C6-C10)	2.2	2.14	97	70-130		
CAS No.	Surrogate Recoveries	BSP	L	limits			
120-82-1	1,2,4-Trichlorobenzene	102%	6	0-140%			

5.2.1

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Matrix Spike/Matrix Spike Duplicate Summary Page 1 of 1 Job Number: D50964 **ROSRKSS Rosewood Resources**, Inc. Account: **Project:** Rosewood Sample **Prep Date Prep Batch Analytical Batch** File ID DF Analyzed By D50948-1MS **GGA1105** GA19708.D 1 09/27/13 EV n/a n/a D50948-1MSD **GGA1105** GA19709.D 1 09/27/13 EV n/a n/a D50948-1 GA19707.D 1 09/27/13 **GGA1105** EV n/a n/a Method: SW846 8015B The QC reported here applies to the following samples: D50964-1, D50964-2 D50948-1 Spike MS MS MSD MSD Limits CAS No. Compound RPD **Rec/RPD** mg/l Q mg/l mg/l % mg/l % TPH-GRO (C6-C10) ND 2.22.00 91 1.96 89 2 70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D50948-1	Limits
120-82-1	1,2,4-Trichlorobenzene	93%	99 %	89 %	60-140%

5.3.1

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Section 6

6



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary Job Number: D50964

Job Numbe Account: Project:	er: D50964 ROSRKSS Rosewood I Rosewood	Resources, Inc.					
Sample OP8663-MI	File ID DF 3 FH013600.D 1	Analyzed 10/02/13	By TU		p Date 01/13	Prep Batch OP8663	Analytical Batch GFH720
The QC rej D50964-1, 1	ported here applies to the f	ollowing sample	25:			Method: SW84	6-8015B
CAS No.	Compound TPH-DRO (C10-C28)	Result ND	RL 0.20	MDL 0.18	Units mg/l	Q	
CAS No.	Surrogate Recoveries	ND	Limits		ing/1		
84-15-1	o-Terphenyl	45%	20-140)%			



Blank Spike Summary

Job Number: Account: Project:	D50964 ROSRKSS Rosewood I Rosewood	Resources, I	nc.				
Sample OP8663-BS	File ID DF FH013602.D 1	Analy 10/02/		y U	Prep Date 10/01/13	Prep Batch OP8663	Analytical Batch GFH720
The QC repo D50964-1, D5	rted here applies to the fo 60964-2	ollowing sa	mples:			Method: SW84	6-8015B
	Compound	Spike mg/l	BSP mg/l	BSP %	Limits		
	PH-DRO (C10-C28)	20	11.2	56	36-140		
	urrogate Recoveries -Terphenyl	BSP 70%		mits -140%			

Matrix Spike/Matrix Spike Duplicate Summary Page 1 of 1 Job Number: D50964 Account: **ROSRKSS Rosewood Resources, Inc. Project:** Rosewood Sample **Prep Batch Analytical Batch** File ID DF Analyzed By **Prep Date OP8663-MS OP8663 GFH720** FH013604.D1 10/02/13 TU 10/01/13 **OP8663-MSD OP8663** FH013606.D1 10/02/13 TU 10/01/13 **GFH720** D48570-28 FH013608.D1 TU 10/01/13 **OP8663 GFH720** 10/02/13 Method: SW846-8015B The QC reported here applies to the following samples: D50964-1, D50964-2 D48570-28 Spike MS MS MSD MSD Limits CAS No. Compound RPD **Rec/RPD** mg/l Q mg/l mg/l % mg/l % **TPH-DRO (C10-C28)** ND 20 11.0 55 13.6 68 21 28-140/30

MSD

78%

MS

64%

D48570-28

74%

Limits

20-140%

CAS No.

84-15-1

Surrogate Recoveries

o-Terphenyl



6.3.1

6