

#### Kansas Corporation Commission Oil & Gas Conservation Division

341656

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.

OPEF	RATOR: License # _			API No.:									
Name	ə:			Permit No:									
Addre	ess 1:			Reporting Year:									
Addre	ess 2:			(January 1 to December 31)									
		State: Zip:			SecS.	R							
-		·		(Q/Q/Q/Q)	feet from N /								
Phone	e: ( )												
	,			County:									
Well N	Number:			,									
	ection Fluid:  Type (Pick one):  Source:	Fresh Water	Treated Brine Other (Attach list)	Untreated Brine	Water/Brine								
		I Dissolved Solids:		rity: Additives:									
	(Attach water analys			,									
		d Injection Rate:anced Recovery Injection Wells											
III.	Month:	Total Fluid Injected BBL	Maximum Fluid Pressure	Total Gas Injected MCF	Maximum Gas Pressure	# Days of Injection							
	January												
	February												
	March												
	April					_							
	May												
	June												
	July												
	August												
	September												
	October												
	November												
	December												
	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



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.

Scott Heideman Laboratory Director

Sepol wall

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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#### **Accutest Laboratories**

## **Sample Summary**

Rosewood Resources, Inc.

Job No:

D50964

Rosewood

Sample	Collected			Matr	ix	Client
Number	Date	Time By	Received	Code	Type	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

Rosewood Resources, Inc. Account:

**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) <sup>a</sup> TPH-DRO (C10-C28)	0.932 3.30	0.20 0.19	0.10 0.17	mg/l mg/l	SW846 8015B SW846-8015B

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



Sample Results		
Report of Analysis		



#### **Report of Analysis**

Page 1 of 1

Client Sample ID: ISERNHAGEN 3-23 SWD

Lab Sample ID:D50964-1Date Sampled:09/25/13Matrix:AQ - Surface WaterDate Received:09/26/13Method:SW846 8015BPercent Solids:n/a

Project: Rosewood

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 GA19710.D 1 09/27/13 EV n/a n/a GGA1105

Run #2

Purge Volume

Run #1 5.0 ml

Run #2

CAS No. Compound Result RL MDL Units Q

TPH-GRO (C6-C10) 1.91 0.20 0.10 mg/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

120-82-1 1,2,4-Trichlorobenzene 119% 60-140%

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



C

#### **Report of Analysis**

Page 1 of 1

Client Sample ID: ISERNHAGEN 3-23 SWD

Lab Sample ID:D50964-1Date Sampled:09/25/13Matrix:AQ - Surface WaterDate Received:09/26/13Method:SW846-8015B SW846 3510CPercent Solids:n/a

Project: Rosewood

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 FH013614.D 10 10/02/13 TU 10/01/13 OP8663 GFH720

Run #2

Initial Volume Final Volume Run #1 1050 ml 1.0 ml

Run #2

CAS No. Compound Result RL MDL Units Q

TPH-DRO (C10-C28) 23.4 1.9 1.7 mg/l

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

84-15-1 o-Terphenyl 62% 20-140%

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



C

#### **Report of Analysis**

Client Sample ID: RRI SWD 21-11

Lab Sample ID: D50964-2 Date Sampled: 09/25/13 Matrix: AQ - Surface Water **Date Received:** 09/26/13 Method: SW846 8015B **Percent Solids:** n/a

**Project:** Rosewood

File ID DF **Prep Date Prep Batch Analytical Batch** Analyzed By Run #1 a GA19711.D 1 09/27/13 **EV** n/a n/a **GGA1105** 

Run #2

**Purge Volume** 

Run #1 5.0 ml

Run #2

CAS No. Compound Result RL**MDL** Units Q

> mg/l **TPH-GRO (C6-C10)** 0.9320.200.10

CAS No. **Surrogate Recoveries** Run#1 Run# 2 Limits

120-82-1 1,2,4-Trichlorobenzene 103% 60-140%

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

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



#### **Report of Analysis**

Client Sample ID: RRI SWD 21-11

Lab Sample ID: D50964-2 Date Sampled: 09/25/13 **Matrix:** AQ - Surface Water **Date Received:** 09/26/13 Method: SW846-8015B SW846 3510C **Percent Solids:** n/a

**Project:** Rosewood

File ID DF **Prep Date Prep Batch Analytical Batch** Analyzed By 10/02/13 10/01/13 **OP8663 GFH720** Run #1 FH013616.D 1 TU

Run #2

**Initial Volume Final Volume** 1030 ml 1.0 ml Run #1

Run #2

CAS No. Compound Result RL**MDL** Units Q

> **TPH-DRO (C10-C28)** 3.30 0.19 0.17 mg/l

CAS No. **Surrogate Recoveries** Run#1 Run# 2 Limits

84-15-1 o-Terphenyl 81% 20-140%

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



Page 1 of 1



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Misc.	Forms
	1.011112

### **Custody Documents and Other Forms**

Includes the following where applicable:

• Chain of Custody



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	LA	BORAT	ORIES

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<b>ACCUTEST</b>			Accui			lountain S Ridon Co		22					FED-E	X Trackir	9#			E	Bottle Order Control #					
LABORATORIES	ı			3-425-60		77-737-45		55					Accule	st Quote	*			-	Accutes	I Job # *	77	50	90	,4
Client / Reporting Information			Proje	and the second second	ormatic	Ohntellando zoon								Rec	ueste	d Ana	ysis (	see TE	ST C	ODE :	sheet)			Matrix Codes
Eompany Name Rosewach Besources Inc	Project Name																							DW - Drinking Water
Street Address	Street:																							GW - Ground Water WW - Water
1498 US HW4 36 City State Zip	City:				Billin <b>g In</b> any Name	ormation	1 ( )f :	differe	ent fi	rom F	epo.	rt to)	1											SW - Surface Water SO - Soil SL- Sludge
St. Francis, 15 67756	Project#		-	Street	Address																			SED-Sediment OI - Oil
Wayne Mahan wmahan @rosew	w/ cm				. / (0.000																			LIQ - Other Liquid AIR - Air
Phone # Fox # POX # 1782 732 - 78	Client PO#			City				State			Zip													SOL - Other Solid WP - Wipe FB-Field Blank
970-630-6834 (785)333-35 Sampler(s) Name(s) Phone#	Project Manager			Attent	ion:				PO	¥			1											EB- Equipment Blank RB- Rinse Blank
Wayne Mahan 970-630-6834		1	Collection				Τ	Marsh	or of o	reserve	ad bas	Ann	4											TB-Trip Blank
			Collection	L			П		72	2	ž _	ш	ξ Ω	1									į	
Accutest Scenple # Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	모	HNO3	HZSC	NON	MEG.	ENCOR	1								<u> </u>			LAB USE ONLY
1 Isernhagen 3-23 SWD		9-25-13	10:00		SW	_5_	Н	_	<u>                                     </u>	4	_		X	↓							<u></u>	1	_	QL
2 BRI SWD 21-11		9-25-13	10:45	wm	SW	5	H	+	Н		-	$\vdash$	X			-				$\sqcup$	-		_	02
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Std. 10 Business Days Std. 5 Business Days (By Contract only)				L		:lal "B" ( L :lal "B" +l						Format		_										***************************************
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**D50964: Chain of Custody** 

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#### **Accutest Laboratories Sample Receipt Summary**

Accutest Job Number: D5096	64 Client: ROSEWOC	DD	Immediate Client Services Action Require						
Date / Time Received: 9/26/2	2013 10:00:00 AM No. Co	olers: 1	Client Service Action Required at Login:						
Project:			Airbill #'s: UPS						
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:	or N 3. COC Present: 4. Smpl Dates/Time OK	Y or N  ✓ □  ✓ □	Sample Integrity - Documentation  1. Sample labels present on bottles: 2. Container labeling complete:	<u>Y or N</u> ✓ □					
Cooler Temperature	Y or N		3. Sample container label / COC agree:						
Temp criteria achieved:     Cooler temp verification:     Cooler media:	Infared gun		Sample Integrity - Condition  1. Sample recvd within HT:  2. All containers accounted for:	<u>Y</u> or N ✓ □					
Quality Control Preservation	Y or N N/A		3. Condition of sample:	Intact					
1. Trip Blank present / cooler:			Sample Integrity - Instructions	Y or N	N/A				
<ul><li>2. Trip Blank listed on COC:</li><li>3. Samples preserved properly:</li></ul>			Analysis requested is clear:     Bottles received for unspecified tests						
4. VOCs headspace free:			Sufficient volume rec'd for analysis:     Compositing instructions clear:     Filtering instructions clear:		y y				
Accutest Laboratories V:(303) 425-6021			gfield Street 425-6854	Wheat Ridge, CO www/accutest.com					

**D50964: Chain of Custody** 

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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

Account: ROSRKSS Rosewood Resources, Inc.

Project: Rosewood

Sample File ID DF Analyzed By Prep Date Prep Batch Analytical Batch GGA1105-MB GA19705.D 1 09/27/13 EV n/a n/a GGA1105

The QC reported here applies to the following samples: Method: SW846 8015B

D50964-1, D50964-2

CAS No. Compound Result RL MDL Units Q

TPH-GRO (C6-C10) ND 0.20 0.10 mg/l

CAS No. Surrogate Recoveries Limits

120-82-1 1,2,4-Trichlorobenzene 87% 60-140%

### **Blank Spike Summary**

Job Number: D50964

Account: ROSRKSS Rosewood Resources, Inc.

Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA1105-BS	GA19706.D	1	09/27/13	EV	n/a	n/a	GGA1105

The QC reported here applies to the following samples: Method: SW846 8015B

D50964-1, D50964-2

CAS No. Compound Spike BSP BSP mg/l mg/l % Limits

TPH-GRO (C6-C10) 2.2 2.14 97 70-130

CAS No. Surrogate Recoveries BSP Limits

120-82-1 1,2,4-Trichlorobenzene 102% 60-140%



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<sup>\* =</sup> Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary Job Number: D50964

Account: **ROSRKSS Rosewood Resources, Inc.** 

**Project:** Rosewood

Sample D50948-1MS D50948-1MSD	File ID GA19708.D GA19709.D	_	Analyzed 09/27/13 09/27/13	By EV EV	Prep Date n/a n/a	Prep Batch n/a n/a	Analytical Batch GGA1105 GGA1105
D50948-1MSD D50948-1	GA19709.D GA19707.D	_	09/27/13 09/27/13	EV EV	n/a n/a	n/a n/a	GGA1105 GGA1105

The QC reported here applies to the following samples: Method: SW846 8015B

D50964-1, D50964-2

CAS No.	Compound	D50948-1 mg/l Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	2.2	2.00	91	1.96	89	2	70-130/30
CAS No.	Surrogate Recoveries	MS	MSD	D50	)948-1	Limits			
120-82-1	1,2,4-Trichlorobenzene	93%	99%	89%	6	60-140%	6		



<sup>\* =</sup> Outside of Control Limits.



### **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

Account: ROSRKSS Rosewood Resources, Inc.

Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date 10/01/13	Prep Batch	Analytical Batch
OP8663-MB	FH013600.D	1	10/02/13	TU		OP8663	GFH720

The QC reported here applies to the following samples: Method: SW846-8015B

D50964-1, D50964-2

CAS No. Compound Result RL MDL Units Q

TPH-DRO (C10-C28) ND 0.20 0.18 mg/l

CAS No. Surrogate Recoveries Limits

84-15-1 o-Terphenyl 45% 20-140%

**Blank Spike Summary** 

Job Number: D50964

Account: ROSRKSS Rosewood Resources, Inc.

Project: Rosewood

Sample File ID DF Analyzed By Prep Date Prep Batch Analytical Batch OP8663-BS FH013602.D 1 10/02/13 TU 10/01/13 OP8663 GFH720

The QC reported here applies to the following samples: Method: SW846-8015B

D50964-1, D50964-2

CAS No. Compound Spike BSP BSP mg/l mg/l % Limits

TPH-DRO (C10-C28) 20 11.2 56 36-140

CAS No. Surrogate Recoveries BSP Limits

84-15-1 o-Terphenyl 70% 20-140%



<sup>\* =</sup> Outside of Control Limits.

Method: SW846-8015B

# Matrix Spike/Matrix Spike Duplicate Summary Job Number: D50964

**ROSRKSS Rosewood Resources, Inc.** Account:

**Project:** Rosewood

Sample OP8663-MS OP8663-MSD	File ID FH013604 FH013606	.D 1	Analyzed 10/02/13 10/02/13	By TU TU	Prep Date 10/01/13 10/01/13	Prep Batch OP8663 OP8663	Analytical Batch GFH720 GFH720
D48570-28	FH013608		10/02/13	TU	10/01/13	OP8663	GFH720

The QC reported here applies to the following samples:

D50964-1, D50964-2

CAS No.	Compound	D48570-28 mg/l Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND	20	11.0	55	13.6	68	21	28-140/30
CAS No.	<b>Surrogate Recoveries</b>	MS	MSD D48570-28		Limits				
84-15-1	o-Terphenyl	64%	<b>78</b> %	74%		20-140%			



<sup>\* =</sup> Outside of Control Limits.