

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.

OPERATOR: License # _____
Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Contact Person: _____
Phone: (_____) _____
Lease Name: _____
Well Number: _____

API No.: _____
Permit No.: _____
Reporting Year: _____
(January 1 to December 31)
____ - ____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ E W
(a/a/a/a)
_____ feet from N / S Line of Section
_____ feet from E / W Line of Section
County: _____

I. Injection Fluid:

Type (Pick one): Fresh Water Treated Brine Untreated Brine Water/Brine
Source: Produced Water Other (Attach list)
Quality: Total Dissolved Solids: _____ mg/l Specific Gravity: _____ Additives: _____
(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: _____ psi Injection Zone: _____
Maximum Authorized Injection Rate: _____ barrels per day
Total Number of Enhanced 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	_____	_____	_____	_____	_____
	May	_____	_____	_____	_____	_____
	June	_____	_____	_____	_____	_____
	July	_____	_____	_____	_____	_____
	August	_____	_____	_____	_____	_____
	September	_____	_____	_____	_____	_____
	October	_____	_____	_____	_____	_____
	November	_____	_____	_____	_____	_____
	December	_____	_____	_____	_____	_____
	TOTAL	_____	_____	_____	_____	_____

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(a/a/a/a)
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	February	_____	_____	_____	_____	_____
	March	_____	_____	_____	_____	_____
	April	_____	_____	_____	_____	_____
	May	_____	_____	_____	_____	_____
	June	_____	_____	_____	_____	_____
	July	_____	_____	_____	_____	_____
	August	_____	_____	_____	_____	_____
	September	_____	_____	_____	_____	_____
	October	_____	_____	_____	_____	_____
	November	_____	_____	_____	_____	_____
	December	_____	_____	_____	_____	_____
	TOTAL	_____	_____	_____	_____	_____

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

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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Test results relate only to samples analyzed.

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Sample Summary

Rosewood Resources, Inc.

Job No: D50964

Rosewood

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client 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	Result/ Qual	RL	MDL	Units	Method
D50964-1	ISERNHAGEN 3-23 SWD					
TPH-GRO (C6-C10)		1.91	0.20	0.10	mg/l	SW846 8015B
TPH-DRO (C10-C28)		23.4	1.9	1.7	mg/l	SW846-8015B
D50964-2	RRI SWD 21-11					
TPH-GRO (C6-C10) ^a		0.932	0.20	0.10	mg/l	SW846 8015B
TPH-DRO (C10-C28)		3.30	0.19	0.17	mg/l	SW846-8015B

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



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: ISERNHAGEN 3-23 SWD	Date Sampled: 09/25/13
Lab Sample ID: D50964-1	Date Received: 09/26/13
Matrix: AQ - Surface Water	Percent Solids: n/a
Method: SW846 8015B	
Project: Rosewood	

Run #	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							

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

Report of Analysis

Client Sample ID: ISERNHAGEN 3-23 SWD	Date Sampled: 09/25/13
Lab Sample ID: D50964-1	Date Received: 09/26/13
Matrix: AQ - Surface Water	Percent Solids: n/a
Method: SW846-8015B SW846 3510C	
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

Report of Analysis

Client Sample ID: RRI SWD 21-11	Date Sampled: 09/25/13
Lab Sample ID: D50964-2	Date Received: 09/26/13
Matrix: AQ - Surface Water	Percent Solids: n/a
Method: SW846 8015B	
Project: Rosewood	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
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
	TPH-GRO (C6-C10)	0.932	0.20	0.10	mg/l	
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	Date Sampled: 09/25/13
Lab Sample ID: D50964-2	Date Received: 09/26/13
Matrix: AQ - Surface Water	Percent Solids: n/a
Method: SW846-8015B SW846 3510C	
Project: Rosewood	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH013616.D	1	10/02/13	TU	10/01/13	OP8663	GFH720
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
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	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D50964 Client: ROSEWOOD Immediate Client Services Action Required: No
 Date / Time Received: 9/26/2013 10:00:00 AM No. Coolers: 1 Client Service Action Required at Login: No
 Project: _____ Airbill #'s: UPS

Cooler Security Y or N Y or N
 1. Custody Seals Present: 3. COC Present:
 2. Custody Seals Intact: 4. Smpl Dates/Time OK

Cooler Temperature Y or N
 1. Temp criteria achieved:
 2. Cooler temp verification: Infrared gun
 3. Cooler media: Ice (bag)

Quality Control Preservation Y or N N/A
 1. Trip Blank present / cooler:
 2. Trip Blank listed on COC:
 3. Samples preserved properly:
 4. VOCs headspace free:

Sample Integrity - Documentation Y or N
 1. Sample labels present on bottles:
 2. Container labeling complete:
 3. Sample container label / COC agree:

Sample Integrity - Condition Y or N
 1. Sample recvd within HT:
 2. All containers accounted for:
 3. Condition of sample: Intact

Sample Integrity - Instructions Y or N N/A
 1. Analysis requested is clear:
 2. Bottles received for unspecified tests:
 3. Sufficient volume rec'd for analysis:
 4. Compositing instructions clear:
 5. Filtering instructions clear:

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www.accutest.com

4.1
4

GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

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%

5.1.1

5

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 mg/l	BSP mg/l	BSP %	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%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D50964
Account: ROSRKSS Rosewood Resources, Inc.
Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D50948-1MS	GA19708.D	1	09/27/13	EV	n/a	n/a	GGA1105
D50948-1MSD	GA19709.D	1	09/27/13	EV	n/a	n/a	GGA1105
D50948-1	GA19707.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	D50948-1 mg/l	Spike Q	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	D50948-1	Limits
120-82-1	1,2,4-Trichlorobenzene	93%	99%	89%	60-140%

* = Outside of Control Limits.

5.3.1
5

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	Prep Batch	Analytical Batch
OP8663-MB	FH013600.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	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%

6.1.1

6

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 mg/l	BSP mg/l	BSP %	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%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D50964
Account: ROSRKSS Rosewood Resources, Inc.
Project: Rosewood

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8663-MS	FH013604.D	1	10/02/13	TU	10/01/13	OP8663	GFH720
OP8663-MSD	FH013606.D	1	10/02/13	TU	10/01/13	OP8663	GFH720
D48570-28	FH013608.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	D48570-28 mg/l	Spike Q	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.	Surrogate Recoveries	MS	MSD	D48570-28	Limits
84-15-1	o-Terphenyl	64%	78%	74%	20-140%

* = Outside of Control Limits.

6.3.1

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