

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	_____	_____	_____	_____	_____

December 22, 2021

Jacob (Jake) Dyson
SCS Engineers
11120 E. 26th St N
Wichita, KS 67226

RE: Project: MARCH EXPLORATION
Pace Project No.: 60388183

Dear Jacob (Jake) Dyson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Heather Wilson
heather.wilson@pacelabs.com
1(913)563-1407
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MARCH EXPLORATION

Pace Project No.: 60388183

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MARCH EXPLORATION

Pace Project No.: 60388183

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60388183001	FALL OFF LINE	Water	12/06/21 16:52	12/09/21 12:00

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SAMPLE ANALYTE COUNT

Project: MARCH EXPLORATION
Pace Project No.: 60388183

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60388183001	FALL OFF LINE	SM 2540C	BLA	1	PASI-K
		SM 4500-H+B	LDB	1	PASI-K
		EPA 300.0	MAW	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARCH EXPLORATION

Pace Project No.: 60388183

Sample: FALL OFF LINE		Lab ID: 60388183001		Collected: 12/06/21 16:52	Received: 12/09/21 12:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	38200	mg/L	2000	1		12/13/21 06:27		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.3	Std. Units	0.10	1		12/13/21 11:12		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	18600	mg/L	2000	2000		12/22/21 13:40	16887-00-6	

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QUALITY CONTROL DATA

Project: MARCH EXPLORATION

Pace Project No.: 60388183

QC Batch: 761224	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60388183001

METHOD BLANK: 3046135 Matrix: Water

Associated Lab Samples: 60388183001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/13/21 06:25	

LABORATORY CONTROL SAMPLE: 3046136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1060	106	80-120	

SAMPLE DUPLICATE: 3046137

Parameter	Units	60387711009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	127	134	5	10	

SAMPLE DUPLICATE: 3046138

Parameter	Units	60387935001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5500	5460	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: MARCH EXPLORATION

Pace Project No.: 60388183

QC Batch: 761147

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60388183001

SAMPLE DUPLICATE: 3045725

Parameter	Units	60387639002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.1	1	5	H6

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QUALITY CONTROL DATA

Project: MARCH EXPLORATION

Pace Project No.: 60388183

QC Batch: 762571

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60388183001

METHOD BLANK: 3050895

Matrix: Water

Associated Lab Samples: 60388183001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	12/20/21 12:52	

METHOD BLANK: 3053061

Matrix: Water

Associated Lab Samples: 60388183001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	12/21/21 08:51	

METHOD BLANK: 3054012

Matrix: Water

Associated Lab Samples: 60388183001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	12/22/21 08:46	

LABORATORY CONTROL SAMPLE: 3050896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	93	90-110	

LABORATORY CONTROL SAMPLE: 3053062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	

LABORATORY CONTROL SAMPLE: 3054013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: MARCH EXPLORATION

Pace Project No.: 60388183

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3050897												3050898	
Parameter	Units	60387879001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	103	100	100	197	197	94	94	80-120	0	15		

MATRIX SPIKE SAMPLE: 3050899		60388098006	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	% Rec Limits	
Chloride	mg/L	7360	5000	12900	111	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MARCH EXPLORATION

Pace Project No.: 60388183

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 60388183001

[1] Samples requiring thermal preservation were received outside of recommended temperature limits of 0-6 degrees Celsius.

ANALYTE QUALIFIERS

H6 Analysis initiated outside of the 15 minute EPA required holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARCH EXPLORATION

Pace Project No.: 60388183

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60388183001	FALL OFF LINE	SM 2540C	761224		
60388183001	FALL OFF LINE	SM 4500-H+B	761147		
60388183001	FALL OFF LINE	EPA 300.0	762571		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60388183



Client Name: SLS ENGINEERS

Courier: FedEx [x] UPS [] VIA [] Clay [] PEX [] ECI [] Pace [] Xroads [] Client [] Other []

Tracking #: 775427097340 Pace Shipping Label Used? Yes [] No [x]

Custody Seal on Cooler/Box Present: Yes [] No [x] Seals intact: Yes [] No [x]

Packing Material: Bubble Wrap [x] Bubble Bags [x] Foam [] None [] Other []

Thermometer Used: T299 Type of Ice: Wet Blue [x] None []

Cooler Temperature (°C): As-read 16.2 Corr. Factor -0.2 Corrected 15.9°C

Date and initials of person examining contents: 8/2/18

Temperature should be above freezing to 6°C

Table with 3 columns: Question, Yes/No/N/A checkboxes, and handwritten notes. Includes rows for Chain of Custody, Short Hold Time, Rush Turn Around Time, and various sample analysis checks.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Address: _____

Regulatory Program: DW NPDES RCRA Other:

Client Contact Company Name: <u>SCS Engineers</u> Address: <u>1120 E 26th St + N Ste. 1100</u> City/State/Zip: <u>Wichita, KS 67226</u> Phone: <u>316-315-4581</u> Fax: _____ Project Name: <u>March Exploration</u> Site: <u>Hillcrest</u> PO# <u>27221397.00 Tank 001</u>		Project Manager: Jake D'Yon Tel/Email: <u>joys@discsengineers.com</u> Analysis Turnaround Time: <u>30m</u> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Lab Contact: _____ Carrier: _____ Date: _____ COC No: _____ of _____ COCs	
Sample Identification Sample Date: <u>12/6 16:52</u> Sample Time: <u>16:52</u> Sample Type (C=Comp, G=Grab): <u>G</u> Matrix: <u>Water</u> # of Cont.: <u>1</u> Filtered Sample (Y/N): <u>N</u> Perform MS/MSD (Y/N): <u>X X X</u> Sample Specific Notes: <u>60388183</u> <u>email to: joys@discsengineers.com</u> <u>fill at 17.06 temp 12.5C</u>		Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____ Possible Hazard Identification: _____ Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.			
Special Instructions/QC Requirements & Comments: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Received by: _____ Date/Time: _____ Received in Laboratory by: <u>Muec/BA</u> Date/Time: <u>12/9/21 1200</u> Company: <u>SCS</u> Company: <u>SCS</u> Company: <u>SCS</u>			

SBS Client: *SCS KENNETT*
 DI Site:
 MeOH (only)
 BK
 Kit

Notes

COC Line Item	Matrix	AG9H	DG9H	VG9U	DG9U	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	JGFU	WGKU	ZPLC	DG9M	DG9B	
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Container Codes

	Glass	Plastic	Misc.
DG9B	40mL bisulfate clear vial	BP1C	I Wipe/Swab
DG9H	40mL HCl amber vial	BP1N	1L HNO3 plastic
DG9M	40mL MeOH clear vial	BP1S	1L H2SO4 plastic
DG9Q	40mL TSP amber vial	BP1U	1L unpreserved plastic
DG9S	40mL H2SO4 amber vial	BP1Z	1L NaOH, Zn Acetate
DG9T	40mL Na Thio amber vial	BP2C	500mL NaOH plastic
DG9U	40mL amber unpreserved	BP2N	500mL HNO3 plastic
VG9H	40mL HCl clear vial	BP2S	500mL H2SO4 plastic
VG9T	40mL Na Thio. clear vial	BP2U	500mL unpreserved plastic
VG9U	40mL unpreserved clear vial	BP2Z	500mL NaOH, Zn Acetate
BG1S	1liter H2SO4 clear glass	BP3C	250mL NaOH plastic
BG1U	1liter unpres glass	BP3F	250mL HNO3 plastic - field filtered
BG3H	250mL HCl Clear glass	BP3N	250mL HNO3 plastic
BG3U	250mL Unpres Clear glass	BP3U	250mL unpreserved plastic
		BP3S	250mL H2SO4 plastic
		BP3Z	250mL NaOH, Zn Acetate
		BP4U	125mL unpreserved plastic
		BP4N	125mL HNO3 plastic
		BP4S	125mL H2SO4 plastic
			Matrix
		WT	Water
		SL	Solid
		NAL	Non-aqueous Liquid
		OL	OIL
		WP	Wipe
		DW	Drinking Water