

Summary Report

Tommy Folsom
Murchison Oil & Gas Inc.
P.O. Box 627
Carlsbad, NM, 88220

Report Date: August 16, 2007

Work Order: 7081618

**30-015-34653**

Project Location: Insitu pit outside of active pit
Project Name: Rio State #4

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
133369	N Wall & Floor	soil	2007-08-14	16:00	2007-08-16
133370	S Wall & Floor	soil	2007-08-14	16:40	2007-08-16
133371	E Wall & Floor	soil	2007-08-14	17:10	2007-08-16
133372	W Wall & Floor	soil	2007-08-14	17:50	2007-08-16

Sample: 133369 - N Wall & Floor

Param	Flag	Result	Units	RL
Chloride		218	mg/Kg	5.00

Sample: 133370 - S Wall & Floor

Param	Flag	Result	Units	RL
Chloride		197	mg/Kg	5.00

Sample: 133371 - E Wall & Floor

Param	Flag	Result	Units	RL
Chloride		207	mg/Kg	5.00

Sample: 133372 - W Wall & Floor

Param	Flag	Result	Units	RL
Chloride		215	mg/Kg	5.00

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Tommy Folsom
Murchison Oil & Gas Inc.
P.O. Box 627
Carlsbad, NM, 88220

Report Date: August 16, 2007

Work Order: 7081618



Project Location: Insitu pit outside of active pit
Project Name: Rio State #4
Project Number: Rio State #4

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
133369	N Wall & Floor	soil	2007-08-14	16:00	2007-08-16
133370	S Wall & Floor	soil	2007-08-14	16:40	2007-08-16
133371	E Wall & Floor	soil	2007-08-14	17:10	2007-08-16
133372	W Wall & Floor	soil	2007-08-14	17:50	2007-08-16

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Rio State #4 were received by TraceAnalysis, Inc. on 2007-08-16 and assigned to work order 7081618. Samples for work order 7081618 were received intact at a temperature of 22.0 deg.C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
Chloride (Titration)	SM 4500-Cl B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7081618 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 133369 - N Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40143	Date Analyzed:	2007-08-16	Analyzed By:	MM
Prep Batch:	34739	Sample Preparation:	2007-08-16	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		218	mg/Kg	10	5.00

Sample: 133370 - S Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40143	Date Analyzed:	2007-08-16	Analyzed By:	MM
Prep Batch:	34739	Sample Preparation:	2007-08-16	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		197	mg/Kg	10	5.00

Sample: 133371 - E Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40143	Date Analyzed:	2007-08-16	Analyzed By:	MM
Prep Batch:	34739	Sample Preparation:	2007-08-16	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		207	mg/Kg	10	5.00

Sample: 133372 - W Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	40143	Date Analyzed:	2007-08-16	Analyzed By:	MM
Prep Batch:	34739	Sample Preparation:	2007-08-16	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		215	mg/Kg	10	5.00

Method Blank (1) QC Batch: 40143

QC Batch:	40143	Date Analyzed:	2007-08-16	Analyzed By:	MM
Prep Batch:	34739	QC Preparation:	2007-08-16	Prepared By:	JS

Parameter	Flag	MDL Result	Units	RL
Chloride		<3.25	mg/Kg	5

Laboratory Control Spike (LCS-1)

QC Batch: 40143 Date Analyzed: 2007-08-16 Analyzed By: MM
Prep Batch: 34739 QC Preparation: 2007-08-16 Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.9	mg/Kg	1	100	<3.25	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	97.1	mg/Kg	1	100	<3.25	97	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 133232

QC Batch: 40143 Date Analyzed: 2007-08-16 Analyzed By: MM
Prep Batch: 34739 QC Preparation: 2007-08-16 Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 13500	mg/Kg	200	20000	10800	14	84.6 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	² 13700	mg/Kg	200	20000	10800	14	84.6 - 117	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 40143 Date Analyzed: 2007-08-16 Analyzed By: MM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-08-16

Standard (CCV-1)

QC Batch: 40143 Date Analyzed: 2007-08-16 Analyzed By: MM

¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.
²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: August 16, 2007
Rio State #4

Work Order: 7081618
Rio State #4

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Insitu pit outside of active pit

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2007-08-16

TraceAnalysis, Inc.

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Company Name: Murchison Oil & Gas, Inc. Phone #: 505-706-0667
Address: (Street, City, Zip) Carlsbad, NM 88220 Fax #:
Contact Person: Tommy Folsom E-mail: tfolsom@valornet.com
Invoice to:
(If different from above)
Project #: Rio State #4 Project Name:
Project Location (including state): Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		Turn Around Time if different from standard	Hold
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME		
133369	N Walks Floor	1		X									X	8/4/01	1600	Soil CH ₂ on all samples	X
370	S Walks Floor	1		X									X		1640		
371	E " "	1		X									X		1710	Email results to:	
372	W " "	1		X									X		1750	tfolsom@valornet.com cmulink@mac.com mike.bratcher@state.nm.us	
Main pit area to be used for insitu after all materials were removed to 15'.																	

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received at Laboratory by: Date: Time:

Submission of samples constitutes agreement to terms and Conditions listed on reverse side of C O C.

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LAB USE ONLY

Intact Y / N
Headspace Y / N
Temp 22
Log-in-Review X

REMARKS:

24 Hr Turnaround

- ☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # BWS GLI3042094825