

Summary Report

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

Report Date: April 19, 2007

Work Order: 7041911



30-015-34993

Project Number: Bob Cat *Fed Com #1*

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
122178	N Wall & Floor Comp	soil	2007-04-18	12:00	2007-04-19
122179	S Wall & Floor Comp	soil	2007-04-18	12:10	2007-04-19
122180	W Wall & Floor Comp	soil	2007-04-18	12:20	2007-04-19
122181	E Wall & Floor Comp	soil	2007-04-18	12:40	2007-04-19

Sample: 122178 - N Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		2570	mg/Kg	5.00

Sample: 122179 - S Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		79.0	mg/Kg	5.00

Sample: 122180 - W Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		136	mg/Kg	5.00

Sample: 122181 - E Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		71.8	mg/Kg	5.00



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Analytical and Quality Control Report

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

Report Date: April 19, 2007

Work Order: 7041911



Project Number: Bob Cat

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
122178	N Wall & Floor Comp	soil	2007-04-18	12:00	2007-04-19
122179	S Wall & Floor Comp	soil	2007-04-18	12:10	2007-04-19
122180	W Wall & Floor Comp	soil	2007-04-18	12:20	2007-04-19
122181	E Wall & Floor Comp	soil	2007-04-18	12:40	2007-04-19

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 were received by TraceAnalysis, Inc. on 2007-04-19 and assigned to work order 7041911. Samples for work order 7041911 were received intact at a temperature of 22 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 7041911 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 preformed 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: 122178 - N Wall & Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	36613	Date Analyzed:	2007-04-19	Analyzed By:	SM
Prep Batch:	31755	Sample Preparation:	2007-04-19	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2570	mg/Kg	100	5.00

Sample: 122179 - S Wall & Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	36613	Date Analyzed:	2007-04-19	Analyzed By:	SM
Prep Batch:	31755	Sample Preparation:	2007-04-19	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		79.0	mg/Kg	4	5.00

Sample: 122180 - W Wall & Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	36613	Date Analyzed:	2007-04-19	Analyzed By:	SM
Prep Batch:	31755	Sample Preparation:	2007-04-19	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		136	mg/Kg	10	5.00

Sample: 122181 - E Wall & Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	36613	Date Analyzed:	2007-04-19	Analyzed By:	SM
Prep Batch:	31755	Sample Preparation:	2007-04-19	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		71.8	mg/Kg	4	5.00

Method Blank (1) QC Batch: 36613

QC Batch:	36613	Date Analyzed:	2007-04-19	Analyzed By:	SM
Prep Batch:	31755	QC Preparation:	2007-04-19	Prepared By:	SM

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

Laboratory Control Spike (LCS-1)

QC Batch: 36613
Prep Batch: 31755

Date Analyzed: 2007-04-19
QC Preparation: 2007-04-19

Analyzed By: SM
Prepared By: SM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.6	mg/Kg	1	100	<3.25	100	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	94.4	mg/Kg	1	100	<3.25	94	90 - 110	5	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: 122185

QC Batch: 36613
Prep Batch: 31755

Date Analyzed: 2007-04-19
QC Preparation: 2007-04-19

Analyzed By: SM
Prepared By: SM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 551	mg/Kg	20	2000	303.393	12	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	² 543	mg/Kg	20	2000	303.393	12	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: 36613

Date Analyzed: 2007-04-19

Analyzed By: SM

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	2007-04-19

Standard (CCV-1)

QC Batch: 36613

Date Analyzed: 2007-04-19

Analyzed By: SM

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.

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Bob Cat

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2007-04-19

TraceAnalysis, Inc.

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Company Name: Murchison Oil & Gas Co. Inc. Phone #: _____

Address: (Street, City, Zip) Carlsbad, NM 88220 Fax #: 505-706-0667

Contact Person: Tommy Folsom E-mail: tfolsom@valnet.com

Invoice to: _____

(If different from above)

Project #: Bib Cat Project Name: CDW

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		
122178	NWAVE Clear Camp	1		X									X	7/18/07	1200		
79	S "	1		X									X		1210		
80	W "	1		X									X		1230		
81	E "	1		X									X		1240		

Relinquished by: Sheryl Vonder Date: 7/18/07 Time: 1400

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received at Laboratory by: Victoria Ripley Date: 7-19-07 Time: 11:00

LAB USE ONLY

Intact (Y) N

Headspace Y / N

Temp 22°C

Log-in-Review CDW

REMARKS:

24 Hour

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

Carrier # BUSCET1690314400

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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