

Summary Report

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

Report Date: February 26, 2007

Work Order: 7022601



30-015-34206

Project Number: Mud Cat #1 Insitu Pit #3

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
117380	N Wall & Floor Insitu Pit #3	soil	2007-02-23	12:10	2007-02-24
117381	South Wall & Floor Insitu Pit #3	soil	2007-02-23	12:40	2007-02-24
117382	E Wall & Floor Insitu Pit #3	soil	2007-02-23	13:00	2007-02-24
117383	W Wall & Floor Insitu Pit #3	soil	2007-02-23	13:20	2007-02-24

Sample: 117380 - N Wall & Floor Insitu Pit #3

Param	Flag	Result	Units	RL
Chloride		80.4	mg/Kg	5.00

Sample: 117381 - South Wall & Floor Insitu Pit #3

Param	Flag	Result	Units	RL
Chloride		89.6	mg/Kg	5.00

Sample: 117382 - E Wall & Floor Insitu Pit #3

Param	Flag	Result	Units	RL
Chloride		93.3	mg/Kg	5.00

Sample: 117383 - W Wall & Floor Insitu Pit #3

Param	Flag	Result	Units	RL
Chloride		128	mg/Kg	5.00



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Analytical and Quality Control Report

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

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Project Number: Mud Cat #1 Insitu Pit #3

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
117380	N Wall & Floor Insitu Pit #3	soil	2007-02-23	12:10	2007-02-24
117381	South Wall & Floor Insitu Pit #3	soil	2007-02-23	12:40	2007-02-24
117382	E Wall & Floor Insitu Pit #3	soil	2007-02-23	13:00	2007-02-24
117383	W Wall & Floor Insitu Pit #3	soil	2007-02-23	13:20	2007-02-24

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 4 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.

Analytical Report

Sample: 117380 - N Wall & Floor Insitu Pit #3

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35038	Date Analyzed:	2007-02-26	Analyzed By:	JS
Prep Batch:	30411	Sample Preparation:	2007-02-26	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		80.4	mg/Kg	2	5.00

Sample: 117381 - South Wall & Floor Insitu Pit #3

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35038	Date Analyzed:	2007-02-26	Analyzed By:	JS
Prep Batch:	30411	Sample Preparation:	2007-02-26	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		89.6	mg/Kg	2	5.00

Sample: 117382 - E Wall & Floor Insitu Pit #3

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35038	Date Analyzed:	2007-02-26	Analyzed By:	JS
Prep Batch:	30411	Sample Preparation:	2007-02-26	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		93.3	mg/Kg	2	5.00

Sample: 117383 - W Wall & Floor Insitu Pit #3

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35038	Date Analyzed:	2007-02-26	Analyzed By:	JS
Prep Batch:	30411	Sample Preparation:	2007-02-26	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		128	mg/Kg	4	5.00

Method Blank (1) QC Batch: 35038

QC Batch:	35038	Date Analyzed:	2007-02-26	Analyzed By:	JS
Prep Batch:	30411	QC Preparation:	2007-02-26	Prepared By:	SM

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

Laboratory Control Spike (LCS-1)

QC Batch: 35038
Prep Batch: 30411

Date Analyzed: 2007-02-26
QC Preparation: 2007-02-26

Analyzed By: JS
Prepared By: SM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	102	mg/Kg	1	100	<3.25	102	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	102	mg/Kg	1	100	<3.25	102	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: 117383

QC Batch: 35038
Prep Batch: 30411

Date Analyzed: 2007-02-26
QC Preparation: 2007-02-26

Analyzed By: JS
Prepared By: SM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 317	mg/Kg	4	400	128.159	47	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	² 304	mg/Kg	4	400	128.159	44	84.6 - 117	4	20

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

Standard (ICV-1)

QC Batch: 35038

Date Analyzed: 2007-02-26

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.5	100	85 - 115	2007-02-26

Standard (CCV-1)

QC Batch: 35038

Date Analyzed: 2007-02-26

Analyzed By: JS

¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

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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	100	100	85 - 115	2007-02-26

TraceAnalysis, Inc.

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Address: (Street, City, Zip) <i>Carsbad, NM 88220</i>	Fax #:
Contact Person: <i>L. Folsom</i>	E-mail: <i>l.folsom@valernet.com</i>
Invoice to: (If different from above)	
Project #: <i>Mud Cat #1 Insitu pit #3</i>	Project Name: <i>OSAN</i>
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		MTBE 8021B / 602 BTEX 8021B / 602 TPH 418.1 / TX1005	TPH 8015 GRO / DFO PAH 8270C / 625 Total Metals Ag As Ba C TCLP Metals Ag As TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B / GC/MS Semi. Vol. 8 PCB's 8082 / 608 Pesticides 8081A / 6 BOD, TSS, pH Moisture Content	Turn Around Time if	Hold
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME				
117380	N wall & floor insitu pit #3	1		X							X	2/23/07	1210		Soil Ch ₂ small samples		X		
81	South wall & floor insitu pit #3	1		X							X		1240						
82	E wall & floor insitu pit #3	1		X							X		1300		E-mail to:				
83	N wall & floor insitu pit #3	1		X							X		1320		t-folsom@valernet.com mike_brotherton@state.nm.us cmwink@mac.com				

Relinquished by: <i>Sheryl Cindler</i>	Date: <i>2/23/07</i>	Time: <i>1500</i>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:

LAB USE ONLY

Intact ☒ Y / ☐ N
 Headspace ☐ Y / ☒ N
 Temp *RT*
 Log-in-Review *SM*

REMARKS:

24 hr.

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

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

Carrier #

Buscetta 555 6610