



Summary Report

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

Report Date: May 11, 2007

Work Order: 7051116



30-015-34475

MUSTANG F20 Com #1

Project Number: Mustang N end of Pit Resample

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
123895	N 1/2 East Side Comp Wall & Floor	soil	2007-05-10	13:20	2007-05-11
123896	N 1/2 West Side Comp. Wall & Floor	soil	2007-05-10	13:00	2007-05-11

Sample: 123895 - N 1/2 East Side Comp Wall & Floor

Param	Flag	Result	Units	RL
Chloride		358	mg/Kg	5.00

Sample: 123896 - N 1/2 West Side Comp. Wall & Floor

Param	Flag	Result	Units	RL
Chloride		354	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: May 11, 2007

Work Order: 7051116



30-015-34475

MURMUR FEA Com #1

Project Number: Mustang N end of Pit Resample

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
123895	N 1/2 East Side Comp Wall & Floor	soil	2007-05-10	13:20	2007-05-11
123896	N 1/2 West Side Comp. Wall & Floor	soil	2007-05-10	13:00	2007-05-11

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.

Case Narrative

Samples for project were received by TraceAnalysis, Inc. on 2007-05-11 and assigned to work order 7051116. Samples for work order 7051116 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 7051116 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: 123895 - N 1/2 East Side Comp Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37154	Date Analyzed:	2007-05-11	Analyzed By:	JS
Prep Batch:	32230	Sample Preparation:	2007-05-11	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		358	mg/Kg	20	5.00

Sample: 123896 - N 1/2 West Side Comp. Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37154	Date Analyzed:	2007-05-11	Analyzed By:	JS
Prep Batch:	32230	Sample Preparation:	2007-05-11	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		354	mg/Kg	20	5.00

Method Blank (1) QC Batch: 37154

QC Batch:	37154	Date Analyzed:	2007-05-11	Analyzed By:	JS
Prep Batch:	32230	QC Preparation:	2007-05-11	Prepared By:	JS

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

Laboratory Control Spike (LCS-1)

QC Batch:	37154	Date Analyzed:	2007-05-11	Analyzed By:	JS
Prep Batch:	32230	QC Preparation:	2007-05-11	Prepared By:	JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.4	mg/Kg	1	100	<3.25	98	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	101	mg/Kg	1	100	<3.25	101	90 - 110	3	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: 123896

QC Batch: 37154
Prep Batch: 32230

Date Analyzed: 2007-05-11
QC Preparation: 2007-05-11

Analyzed By: JS
Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 559	mg/Kg	20	2000	354	10	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	² 559	mg/Kg	20	2000	354	10	84.6 - 117	0	20

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

Standard (ICV-1)

QC Batch: 37154

Date Analyzed: 2007-05-11

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.6	100	85 - 115	2007-05-11

Standard (CCV-1)

QC Batch: 37154

Date Analyzed: 2007-05-11

Analyzed By: JS

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	2007-05-11

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.

TraceAnalysis, Inc.

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Address: (Street, City, Zip) Carlsbad, NM 88220 Fax #:

Contact Person: Tommy Tolson E-mail: ttolson@valerinet.com

Invoice to:

(If different from above)

Project #: Mustang Nend of pit sample Project Name: QW

Project Location (including state): Sampler Signature: QW

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		
123895	N 1/2 east side comp. wall & floor	1			X								X	5/10/07	1320		
123896	N 1/2 west side comp. wall & floor	1			X								X	5/10/07	1300		
All samples are composite																	

Relinquished by: Cheryl Funder Date: 5/10/07 Time: 1530

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received at Laboratory by: Reena Piplay Date: 5-10-07 Time: 11:15

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

ORIGINAL COPY

LAB USE ONLY

Intact: Y/N

Headspace: Y/N

Temp: 22°C

Log-In/Review: _____

REMARKS: 24 Hr.

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Carrier # Bus C-L 1168 855 6831