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Analytical and Quality Control Report

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

Report Date: October 10, 2006

Work Order: 6100906



Project Number: Puma No. 1

30-015-34461

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
105421	Pit Wall	soil	2006-10-06	11:35	2006-10-07
105422	Backfill Right 1/3	soil	2006-10-06	11:30	2006-10-07
105423	Backfill Middle 1/3	soil	2006-10-06	11:20	2006-10-07
105424	Backfill Left 1/3	soil	2006-10-06	11:00	2006-10-07

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

Analytical Report

Sample: 105421 - Pit Wall

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	30827	Date Analyzed:	2006-10-09	Analyzed By:	WB
Prep Batch:	26844	Sample Preparation:	2006-10-09	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1380	mg/Kg	100	1.00

Sample: 105422 - Backfill Right 1/3

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	30827	Date Analyzed:	2006-10-09	Analyzed By:	WB
Prep Batch:	26844	Sample Preparation:	2006-10-09	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		673	mg/Kg	50	1.00

Sample: 105423 - Backfill Middle 1/3

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	30827	Date Analyzed:	2006-10-09	Analyzed By:	WB
Prep Batch:	26844	Sample Preparation:	2006-10-09	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1910	mg/Kg	100	1.00

Sample: 105424 - Backfill Left 1/3

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	30827	Date Analyzed:	2006-10-09	Analyzed By:	WB
Prep Batch:	26844	Sample Preparation:	2006-10-09	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3420	mg/Kg	100	1.00

Matrix Blank (1) QC Batch: 30827

QC Batch:	30827	Date Analyzed:	2006-10-09	Analyzed By:	WB
Prep Batch:	26844	QC Preparation:	2006-10-09	Prepared By:	WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0222	mg/Kg	1

Laboratory Control Spike (LCS-1)

QC Batch: 30827
Prep Batch: 26844

Date Analyzed: 2006-10-09
QC Preparation: 2006-10-09

Analyzed By: WB
Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	13.2	mg/Kg	1	12.5	<0.0222	105	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	12.9	mg/Kg	1	12.5	<0.0222	105	90 - 110	2	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: 105424

QC Batch: 30827
Prep Batch: 26844

Date Analyzed: 2006-10-09
QC Preparation: 2006-10-09

Analyzed By: WB
Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	4470	mg/Kg	100	1250	3420	84	15.3 - 175

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	4480	mg/Kg	100	1250	3420	85	15.3 - 175	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: 30827

Date Analyzed: 2006-10-09

Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.0	96	90 - 110	2006-10-09

Standard (CCV-1)

QC Batch: 30827

Date Analyzed: 2006-10-09

Analyzed By: WB

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	11.9	95	90 - 110	2006-10-09

Log-in-Review Can ☐ Check If Special Reporting Limits Are Needed

Carrier # Grayhound 6L1690133731

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

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El Paso, Texas 79932
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Company Name: Murchison Oil & Gas, Inc. Phone # 505-706-0667
Address: PO Box 637, Carlsbad, NM 88320
Contact Person: Tommy Folsom E-mail: tommyfolsom@valmet.com
Invoice to: Tommy Folsom
Project # Puma #1 Project Name: Gray
Project Location (including state): Puma #1
Sampler Signature: Gray

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX					PRESERVATIVE METHOD					SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
105421	Pt wall (solidification)	1		X									X	10/6	1135
23	Backfill Right 1/3	1		X									X	10/6	1130
23	" Middle 1/3	1		X									X	10/6	1120
24	" Left 1/3	1		X									X	10/6	1100

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

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

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

LAB USE ONLY
Intact Y / N
Headspace Y / N
Turn Around Time if different from standard 24 Hour

REMARKS: 24 Hour

☐ Dry Weight Basis Required
☐ TRRP Report Required

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4100906

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 EX(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B / 624	GC/MS Semi Vol 8270C / 625	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard

Soil Characterization comp.

Email to: tommyfolsom@valmet.com
mike.bratcher@state.nm.us
caunter@men.com

Summary Report

Tommy Folsom
Murchison Oil & Gas Inc.
P.O. Box 627
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Param	Flag	Result	Units	RL
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Chloride		1910	mg/Kg	1.00

Sample: 105424 - Backfill Left 1/3

Param	Flag	Result	Units	RL
Chloride		3420	mg/Kg	1.00