



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: February 6, 2007

Work Order: 7020524



Project Location: Mud Cat Insitu #2 and Main Pit
Project Name: Mud Cat No. 1
Project Number: Mud Cat No. 1

30-015-34206

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
115587	N Wall Floor Comp	soil	2007-02-02	11:00	2007-02-05
115588	S Wall Floor Comp	soil	2007-02-02	11:20	2007-02-05
115589	E Wall Floor Comp	soil	2007-02-02	11:40	2007-02-05
115590	W Wall Floor Comp	soil	2007-02-02	12:00	2007-02-05

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.

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Analytical Report

Sample: 115587 - N Wall Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	Sample Preparation:	2007-02-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		558	mg/Kg	4	5.00

Sample: 115588 - S Wall Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	Sample Preparation:	2007-02-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1070	mg/Kg	10	5.00

Sample: 115589 - E Wall Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	Sample Preparation:	2007-02-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		535	mg/Kg	4	5.00

Sample: 115590 - W Wall Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	Sample Preparation:	2007-02-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		352	mg/Kg	2	5.00

Method Blank (1) QC Batch: 34338

QC Batch:	34338	Date Analyzed:	2007-02-06	Analyzed By:	SM
Prep Batch:	29798	QC Preparation:	2007-02-05	Prepared By:	SM

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

Laboratory Control Spike (LCS-1)

QC Batch: 34338
Prep Batch: 29798

Date Analyzed: 2007-02-06
QC Preparation: 2007-02-05

Analyzed By: SM
Prepared By: SM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	93.2	mg/Kg	1	100	<3.25	93	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	94.9	mg/Kg	1	100	<3.25	95	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: 115470

QC Batch: 34338
Prep Batch: 29798

Date Analyzed: 2007-02-06
QC Preparation: 2007-02-05

Analyzed By: SM
Prepared By: SM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 152	mg/Kg	2	200	<6.50	76	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	² 154	mg/Kg	2	200	<6.50	77	84.6 - 117	1	20

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

Standard (ICV-1)

QC Batch: 34338

Date Analyzed: 2007-02-06

Analyzed By: SM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.9	99	85 - 115	2007-02-06

Standard (CCV-1)

QC Batch: 34338

Date Analyzed: 2007-02-06

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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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2007-02-06

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LAB Order ID #

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TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-12965002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-34436015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: Murchison Oil & Gas, Inc. Phone #: 505-706-0667
 Address: Carlsbad, NM 88220 Fax #:
 Contact Person: Tommy Folsom E-mail: tfolsom@valernet.com
 Invoice to:
 (If different from above)
 Project #: Mud Cat No. 1 Project Name:
 Project Location (including state): Sampler Signature:

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		
115587	N wall of floor comp	1		X									X	2/6/7	1700		X
588	S " " "	1		X									X	"	1120		
589	E " " "	1		X									X	1140			
590	W " " "	1		X									X	noon			

Relinquished by: [Signature] Date: 2/6/7 Time: 1420
 Received by: Date: Time:
 Relinquished by: Date: Time:
 Received by: Date: Time:
 Relinquished by: Date: Time:
 Received at Laboratory by: Rebecca Diplaris Date: 2-5-07 Time: 11:15

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	BTX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRC / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 60108/2007	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	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold

LAB USE ONLY
 Intact RI N
 Headspace Y / N
 Temp RT
 Log-in-Review PI
 REMARKS:
24 Hr.
☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed
 Carrier # 217 1108 588 585 3

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