

Summary Report

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

Report Date: June 26, 2007

Work Order: 7062606

**30-015-34653**

Project Name: Rio State #4 Pit 2 & Original Pit

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
128557	N Wall & Floor Comp	soil	2007-06-25	07:00	2007-06-26
128558	S Wall & Floor Comp	soil	2007-06-25	07:10	2007-06-26
128559	E Wall & Floor Comp	soil	2007-06-25	07:15	2007-06-26
128560	W Wall & Floor Comp	soil	2007-06-25	07:20	2007-06-26
128561	SE Original Pit Comp	soil	2007-06-25	07:30	2007-06-26
128562	NE Original Pit Comp	soil	2007-06-25	07:35	2007-06-26
128563	S Original Pit Comp	soil	2007-06-25	07:40	2007-06-26

Sample: 128557 - N Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		65.2	mg/Kg	5.00

Sample: 128558 - S Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		73.9	mg/Kg	5.00

Sample: 128559 - E Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		116	mg/Kg	5.00

Sample: 128560 - W Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		470	mg/Kg	5.00

Sample: 128561 - SE Original Pit Comp

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This is only a summary. Please, refer to the complete report package for quality control data.

Param	Flag	Result	Units	RL
Chloride		3630	mg/Kg	5.00

Sample: 128562 - NE Original Pit Comp

Param	Flag	Result	Units	RL
Chloride		3140	mg/Kg	5.00

Sample: 128563 - S Original Pit Comp

Param	Flag	Result	Units	RL
Chloride		4930	mg/Kg	5.00



1731 Anderson Avenue, Suite 100 Lubbock, Texas 79424 800•378•1796 800•794•1716 FAX 806•794•1796
200 East Sunset Road, Suite E El Paso, Texas 79922 868•538•3443 915•585•3443 FAX 915•585•4974
5037 Basin Street, Suite A1 Midland, Texas 79703 432•693•6301 FAX 432•688•6313
6015 Interstate Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5250
E-Mail: info@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: June 26, 2007

Work Order: 7062606



30-015-34653

Project Name: Rio State #4 Pit 2 & Original Pit
Project Number: Rio State #4 Pit 2 & Original Pit

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
128557	N Wall & Floor Comp	soil	2007-06-25	07:00	2007-06-26
128558	S Wall & Floor Comp	soil	2007-06-25	07:10	2007-06-26
128559	E Wall & Floor Comp	soil	2007-06-25	07:15	2007-06-26
128560	W Wall & Floor Comp	soil	2007-06-25	07:20	2007-06-26
128561	SE Original Pit Comp	soil	2007-06-25	07:30	2007-06-26
128562	NE Original Pit Comp	soil	2007-06-25	07:35	2007-06-26
128563	S Original Pit Comp	soil	2007-06-25	07:40	2007-06-26

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 Rio State #4 Pit 2 & Original Pit were received by TraceAnalysis, Inc. on 2007-06-26 and assigned to work order 7062606. Samples for work order 7062606 were received intact at a temperature of 22.0 deg 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 7062606 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: 128557 - N Wall & Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38547	Date Analyzed:	2007-06-26	Analyzed By:	JS
Prep Batch:	33358	Sample Preparation:	2007-06-26	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		65.2	mg/Kg	4	5.00

Sample: 128558 - S Wall & Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38547	Date Analyzed:	2007-06-26	Analyzed By:	JS
Prep Batch:	33358	Sample Preparation:	2007-06-26	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		73.9	mg/Kg	4	5.00

Sample: 128559 - E Wall & Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38547	Date Analyzed:	2007-06-26	Analyzed By:	JS
Prep Batch:	33358	Sample Preparation:	2007-06-26	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		116	mg/Kg	4	5.00

Sample: 128560 - W Wall & Floor Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38547	Date Analyzed:	2007-06-26	Analyzed By:	JS
Prep Batch:	33358	Sample Preparation:	2007-06-26	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		470	mg/Kg	10	5.00

Sample: 128561 - SE Original Pit Comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	38547	Date Analyzed:	2007-06-26	Analyzed By:	JS
Prep Batch:	33358	Sample Preparation:	2007-06-26	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3630	mg/Kg	100	5.00

Sample: 128562 - NE Original Pit Comp

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 38547 Date Analyzed: 2007-06-26 Analyzed By: JS
Prep Batch: 33358 Sample Preparation: 2007-06-26 Prepared By: JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3140	mg/Kg	100	5.00

Sample: 128563 - S Original Pit Comp

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 38547 Date Analyzed: 2007-06-26 Analyzed By: JS
Prep Batch: 33358 Sample Preparation: 2007-06-26 Prepared By: JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4930	mg/Kg	100	5.00

Method Blank (1) QC Batch: 38547

QC Batch: 38547 Date Analyzed: 2007-06-26 Analyzed By: JS
Prep Batch: 33358 QC Preparation: 2007-06-26 Prepared By: JS

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

Laboratory Control Spike (LCS-1)

QC Batch: 38547 Date Analyzed: 2007-06-26 Analyzed By: JS
Prep Batch: 33358 QC Preparation: 2007-06-26 Prepared By: JS

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	100	mg/Kg	1	100	<3.25	100	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: 128557

QC Batch: 38547
Prep Batch: 33358

Date Analyzed: 2007-06-26
QC Preparation: 2007-06-26

Analyzed By: JS
Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	289	mg/Kg	4	100	<13.0	289	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	302	mg/Kg	4	100	<13.0	302	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: 38547

Date Analyzed: 2007-06-26

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.4	99	85 - 115	2007-06-26

Standard (CCV-1)

QC Batch: 38547

Date Analyzed: 2007-06-26

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	2007-06-26

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.
 email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
 Lubbock, Texas 79424
 Tel (806) 794-1296
 Fax (806) 794-1296
 1 (800) 378-1296

5002 Basin Street, Suite A1
 Midland, Texas 79703
 Tel (432) 689-6301
 Fax (432) 689-6313

200 East Sunset Rd., Suite E
 El Paso, Texas 79922
 Tel (915) 585-3443
 Fax (915) 585-4944
 1 (888) 586-3443

6015 Harms Pkwy, Suite 110
 Ft. Worth, Texas 76132
 Tel (817) 201-5260

Company Name: Wardlaw Oil & Gas, Inc. Phone #: 505-706-0667

Address: Carlsbad, NM 88220 Fax #: _____

Contact Person: Tommy Folson E-mail: tfolson@valnet.com

Invoice to: _____

(If different from above)

Project #: Rio State #4 Pit 2 Project Name: Coal

Project Location (including state): Original Pit Sampler Signature: _____

ANALYSIS REQUEST
 (Circle or Specify Method No.)

LAB #	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
12857	N wall 8' near camp			X									X	6/25	0700
83	" "			X									X	6/25	0710
9	" "			X									X	6/25	0715
60W	" "			X									X	6/25	0720
1	SE Original Pit comp.			X									X	6/25	0730
2NE	" "			X									X	6/25	0735
3S	" "			X									X	6/25	0740

Reinquired by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

Reinquired by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

Reinquired by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Intact ☒ Y ☐ N

Headspace ☐ Y ☒ N

Temp 22

Log-in-Review _____

REMARKS: 24 Hr.

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Carrier # BUS G L F 168587327