Summary Report

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

30-015-34261

Report Date: February 9, 2007

Work Order: 7020910

Project Number: Quail State #1

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
115965	N. Wall & Floor	soil	2007-02-08	12:00	2007-02-09
115966	S Wall & Floor	soil	2007-02-08	12:30	2007-02-09
115967	E Wall & Floor	soil	2007-02-08	13:00	2007-02-09
115968	W Wall & Floor	soil	2007-02-08	13:30	2007-02-09

Sample: 115965 - N. Wall & Floor

Param	Flag	Result	Units	RL
Chloride		**118**	mg/Kg	5.00

Sample: 115966 - S Wall & Floor

Param	Flag	Result	Units	RL
Chloride		**145**	mg/Kg	5.00

Sample: 115967 - E Wall & Floor

Param	Flag	Result	Units	RL
Chloride		**630**	mg/Kg	5.00

Sample: 115968 - W Wall & Floor

Param	Flag	Result	Units	RL
Chloride		**26.1**	mg/Kg	5.00

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

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

Report Date: February 9, 2007

Work Order: 7020910

Project Number: Quail State #1

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
115965	N. Wall & Floor	soil	2007-02-08	12:00	2007-02-09
115966	S Wall & Floor	soil	2007-02-08	12:30	2007-02-09
115967	E Wall & Floor	soil	2007-02-08	13:00	2007-02-09
115968	W Wall & Floor	soil	2007-02-08	13:30	2007-02-09

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.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 115965 - N. Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34488	Date Analyzed:	2007-02-09	Analyzed By:	SM
Prep Batch:	29939	Sample Preparation:	2007-02-09	Prepared By:	SM

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**118**		mg/Kg	2	5.00

Sample: 115966 - S Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34488	Date Analyzed:	2007-02-09	Analyzed By:	SM
Prep Batch:	29939	Sample Preparation:	2007-02-09	Prepared By:	SM

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**145**		mg/Kg	2	5.00

Sample: 115967 - E Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34488	Date Analyzed:	2007-02-09	Analyzed By:	SM
Prep Batch:	29939	Sample Preparation:	2007-02-09	Prepared By:	SM

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**630**		mg/Kg	4	5.00

Sample: 115968 - W Wall & Floor

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	34488	Date Analyzed:	2007-02-09	Analyzed By:	SM
Prep Batch:	29939	Sample Preparation:	2007-02-09	Prepared By:	SM

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**26.1**		mg/Kg	4	5.00

Method Blank (1) QC Batch: 34488

QC Batch:	34488	Date Analyzed:	2007-02-09	Analyzed By:	SM
Prep Batch:	29939	QC Preparation:	2007-02-09	Prepared By:	JS

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

Laboratory Control Spike (LCS-1)

QC Batch: 34488 Date Analyzed: 2007-02-09 Analyzed By: SM
Prep Batch: 29939 QC Preparation: 2007-02-09 Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	94.3	mg/Kg	1	100	<3.25	94	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	92.0	mg/Kg	1	100	<3.25	92	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: 115966

QC Batch: 34488 Date Analyzed: 2007-02-09 Analyzed By: SM
Prep Batch: 29939 QC Preparation: 2007-02-09 Prepared By: JS

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[1]	298	mg/Kg	4	400	<13.0	74	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	<13.0	76	84.6 - 117	2	20

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

Standard (ICV-1)

QC Batch: 34488 Date Analyzed: 2007-02-09 Analyzed By: SM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2007-02-09

Standard (CCV-1)

QC Batch: 34488 Date Analyzed: 2007-02-09 Analyzed By: SM

[1]Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.
[2]Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

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	2007-02-09

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

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Carrier # BUS-GL 160 6353 178

LAB Order ID # 7020910 Page 1 of 1

TraceAnalysis, Inc.

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

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

Contact Person: Tommy Folsom E-mail: tfolsom@valornet.com

Invoice to: (if different from above)

Project #: Quail State #1 Project Name:

Project Location (including state): Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (lab use only)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
5946	N wall & floor	1			X								X	2/8/07	1200
5947	S wall & floor	1			X										1230
5948	E wall & floor	1			X										1300
5949	W wall & floor	1			X								↓	↓	1330
	All composites														

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(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	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content					Turn Around Time if different from standard	Hold
					Std	Cl$_2$																X	

Email results to:
tfolsom@valornet.com
Mike.Bratcher@state.nm.us
cawnker@msn.com

REMARKS:
24 Hr.

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Cheryl Wheeler	2/8/07	1410			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Jessica Kindley	Date: 2-9-07	Time: 11:00

LAB USE ONLY

Intact (Y) N
Headspace Y / N
Temp 2.1 °C
Log-in-Review

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