



02470090

05-067-00800

Loc # 306805

DEPARTMENT OF NATURAL RESOURCES

Bill Owens, Governor

1120 Lincoln St., Suite 801

Denver, CO 80203

Phone: (303) 894-2100

FAX: (303) 894-2109

www.oil-gas.state.co.us

## FACSIMILE TRANSMISSION

DATE:	June 23, 2003
TO:	Carla S. Shaw
COMPANY:	Maralex Resources
FAX:	970-563-4116
FROM:	Debbie Baldwin
PAGES:	67
RE:	water well sampling per orders 112-156 & 157

REFAX 11/12/03

**MESSAGE:** Attached are excerpts from the COGCC Order 112-156 & 112-157 that require water well sampling for infill coalbed methane wells.

During our telephone conversation you mentioned that your pumper had collected the water samples for methane analysis. There is a protocol that must be used to collect valid samples for methane analysis and unless he has been instructed on what to do, then the analytical results for the samples he collected would not be considered valid.

As I mentioned the person used by most of the other operators in La Plata County to sample water wells is Lynn Fechter, Four Corners Geoscience, 970-247-5046. In addition to making the required field measurements & tests, Lynn collects the water samples and submits them to Green Analytical (Durango) for chemical analysis of the required inorganic parameters and she has her own gas chromatograph that she uses to analyze the sample for methane. There may be other environmental consultants in the area that can do these tests, but I do not know who they are.

The order requires that samples from the water wells be analyzed for the following parameters:

Major cations (calcium, sodium, potassium, magnesium)

Major anions (chloride, sulfate, bicarbonate, and carbonate)

Total dissolved solids (TDS)

Iron

Manganese

Nutrients (nitrates and nitrites)

Selenium

Dissolved methane

ph, specific conductance, and field hydrogen sulfide

bacteria

Test prior to drilling, within 1 year after completion, 3 yr and 6 yr thereafter

If you have any questions, please call me at (303) 894-2100 ex 111

DEPARTMENT OF NATURAL RESOURCES: Greg E. Walcher, Executive Director

COGCC COMMISSION: Tom Ann Casey - Brian Cree - Michael Kilsh - Peter Mueller - J. Thomas Reagan - Lynn Shook - Stephen Sonnenberg

COGCC STAFF: Richard T. Griebeling, Director - Brian J. Macke, Deputy Director - Morris Bell, Operations Manager

Patricia C. Beaver, Hearings Manager - Thomas J. Kerr, Information Manager



RECEIVED

MAY 12 03

COGCC

518 17th Street, Suite 1600  
Denver, Colorado 80202  
(303) 292-5636  
FAX (303) 292-5382

P.O. Box 338  
Ignacio, Colorado 81137  
(970) 563-4000  
FAX (970) 563-4116

May 8, 2003

State of Colorado  
Oil & Gas Conservation Commission  
1120 Lincoln St., Suite 801  
Denver, CO 80203

Re: Mollie Corynne 33-7-2 # 2A APD  
1136' FNL; 775' FEL  
Section 2-T33N-R7W  
La Plata County, CO  
067-8800

Gentlemen:

Please find attached the water well samples taken in regards for the above-captioned Application for Permit To Drill. Please supplement the original APD.  
Thank you.

Sincerely,

Maralex Resources, Inc.

A handwritten signature in cursive script, reading 'Carla S. Shaw'.

Carla S. Shaw  
Production Technician

Encl.

612 E. Murray Drive  
Farmington, NM 87499

Off: (505) 327-1072  
FAX: (505) 327-1496

*iiná bá*

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

**iiná bá, Ltd.**

**Date:** 21-Apr-03

**CLIENT:** Maralex Resources, Inc.

**Project:** Wanda Kenner

**Lab Order:** 0304005

## CASE NARRATIVE

---

Two aqueous samples were sub-contracted to Air Toxics, Ltd in Folsom, CA for analysis.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

RECEIVED

MAY 12 03

COGCC

**WORK ORDER #: 0304124**

Work Order Summary

**CLIENT:** Mr. Dave Cox  
iina ba, Ltd.  
612 E. Murray  
Farmington, NM 87401

**BILL TO:** Mr. Dave Cox  
iina ba, Ltd.  
612 E. Murray  
Farmington, NM 87401

**PHONE:** 505-327-1072

**P.O. #**

**FAX:** 505-327-1496

**PROJECT #**

**DATE RECEIVED:** 4/4/03

**CONTACT:** Karen Burden

**DATE COMPLETED:** 4/15/03

**FRACTION #**

**NAME**

**TEST**

01A

0304005-001A

Mod. RSK-175

02A

0304005-002A

Mod. RSK-175

03A

Lab Blank

Mod. RSK-175

04A

LCS

Mod. RSK-175

CERTIFIED BY:

Laboratory Director

DATE: 04/16/03

Certification numbers: AR DEQ, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/02, Expiration date: 06/30/03

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

## LABORATORY NARRATIVE

### Modified RSK 175

iina ba, Ltd.

Workorder# 0304124

Two VOA Vial-40 mL samples were received on April 04, 2003. The laboratory performed analysis via Modified RSK 175 for Methane using GC/FID. The method involves placing an aliquot of the sample in a headspace vial. The vial is then placed into HP7694 Headspace Autosampler equipped with oven, shaker and 1 mL sample loop. Sample is baked and then equilibrated at 40°C for 15 minutes with high agitation. Finally, a direct injection of the headspace is performed. See the data sheets for the reporting limits for each compound.

<i>Requirement</i>	<i>RSK 175</i>	<i>ATL Modifications</i>
Sample Collection	Collect sample in 60 mL crimp-top vial.	Collect sample in 40 mL VOA vial.
Headspace Generation	Headspace is generated in 60 mL sample vial by displacing volume of liquid with Helium. The amount of liquid should be 10% of sample volume in bottle, up to 10 mL.	5.0 mL of sample is displaced with 5.0 mL Nitrogen and transferred to a Nitrogen purged and capped autosampler vial. Headspace is then generated in the autosampler vial.
Sample Preparation	Sample is shaken 5 min. to equilibrate analyte between headspace and liquid phase.	Prior to injection, autosampler shakes sample for 15 min. while heating to 40°C.
Headspace Injection	Syringe injection of 300 mL headspace into GC.	Autosampler pressurizes sample to fill 1.0 mL loop with headspace sample.
Calibration and Quantitation	Direct injections of gas phase standards are used to obtain a Calibration Curve. Henry's Law is used to calculate mg of gas per Liter of water. Calculation requires recording total volume of serum bottle and headspace, and sample temperature.	Calibration standards are prepared by addition of a gaseous spike solution to clean water. Response factors are calculated for each level of a multi point calibration, and the mean is used to calculate quantitation for each target analyte.
Initial Calibration Curve (ICAL)	Linear regression	% RSD $\leq$ 30%, use average RF to quantify results
Lab Blanks	Blank subtraction is performed.	No blank subtraction; Lab Blank must be less than the Reporting Limit.
Specified Detectors	FID or ECD	FID or TCD

### Receiving Notes

There were no receiving discrepancies.

### Analytical Notes

There were no analytical discrepancies.

### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit.
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

## AIR TOXICS LTD.

SAMPLE NAME: 0304005-001A

Wanda Kenner, Home

شماره  
ID#: 0304124-01A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7040816	Date of Collection:	4/2/03
Dil. Factor:	1.00	Date of Analysis:	4/8/03

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	Not Detected

Container Type: VOA Vial-40 mL

# AIR TOXICS LTD.

SAMPLE NAME: 0304005-002A

Wanda Kenner, Trip Blank

4/2/03

ID#: 0304124-02A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7040817	Date of Collection:	4/2/03
Dil. Factor:	1.00	Date of Analysis:	4/8/03

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	Not Detected

Container Type: VOA Vial-40 mL



## AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0304124-03A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7040804-	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/8/03

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	Not Detected

Container Type: NA - Not Applicable

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0304124-04A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7040802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/8/03

Compound	%Recovery
Methane	74

Container Type: NA - Not Applicable