



02216331

Page 1
FORM
4
Re: 1205

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 861-2100 Fax: (303) 861-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED
9/26/2011

1. OGCC Operator Number: 10255	4. Contact Name: Todd Hutson - Environmental Manager	Complete the Attachment Checklist OGCC
2. Name of Operator: Quicksilver Resources Inc.	Phone: 817-422-2883	
3. Address: 801 Cherry Street, Suite 3700, Unit 19 City: Fort Worth State: TX Zip: 76102	Fax: 817-665-4191	
5. API Number 05-081-07672-00	OGCC Facility ID Number: 425038	Survey Plat
6. Well/Facility Name: Horse Gulch Federal	7. Well/Facility Number: 13-12	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NW/4 SW/4 Section 12, T6N, R93W, 6th Meridian		Surface Equip Diagram
9. County: Moffat	10. Field Name: Wildcat	Technical Info Page
11. Federal, Indian or State Lease Number: COC65175		Other Lab Results

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	PHUFBL PHUFWL
Change of Surface Footage to Exterior Section Lines:	
Change of Bottomhole Footage from Exterior Section Lines:	
Change of Bottomhole Footage to Exterior Section Lines:	attach directional survey,
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line Distance to nearest bldg, public rd, utility or RR
Longitude	Distance to nearest lease line Is location in a High Density Area (rule 603b)? Yes/No
Ground Elevation	Distance to nearest well same formation Surface owner consultation date:
GPS DATA: Date of Measurement PDOP Reading Instrument Operator's Name	
<input type="checkbox"/> CHANGE SPACING UNIT Formation Formation Code Spacing order number Unit Acreage Unit configuration	<input type="checkbox"/> Remove from surface bond Signed surface use agreement attached
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	<input type="checkbox"/> CHANGE WELL NAME NUMBER From: To: Effective Date:
<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date	
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent Approximate Start Date:	<input type="checkbox"/> Report of Work Done Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)	
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing Cementing Program Change	<input checked="" type="checkbox"/> Other: Background
	<input checked="" type="checkbox"/> E&P Waste Disposal <input type="checkbox"/> Beneficial Reuse of E&P Waste <input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Todd Hutson Date: 9/26/11 Email: thutson@qrrinc.com
Print Name: Todd Hutson Title: Environmental Manager

OGCC Approved: Alex Fischer Title: ERS Date: 9/30/11

CONDITIONS OF APPROVAL, IF ANY: for Alex Fischer



TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- | | |
|-----------------------------------------------------------------------------------------------|-----------------------------|
| 1. OGCC Operator Number: 10255 | API Number: 05-081-07672-00 |
| 2. Name of Operator: Quicksilver Resources Inc. | OGCC Facility ID # |
| 3. Well/Facility Name: Horse Gulch Federal | Well/Facility Number: 13-12 |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NW/4 SW/4, Section 12, T6N, R93W, 6th Meridian | |

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

This COGCC Form 4 is being submitted as a request to meet the background concentration levels for arsenic at the Horse Gulch Federal 13-12 pad in accordance with footnote 1 to the COGCC table 910-1.

The request is based on the analytical results presented below (see attached laboratory report).

The cuttings contained in the pit were generated from the surface hole drilling using a water-based drilling mud. One composite sample was collected from six separate locations within the pit to determine the arsenic concentration of the cuttings. The arsenic concentration was reported as 4.0 mg/kg. All other concentrations were reported to meet the COGCC table 910-1 criteria.

One grab sample was collected from nearby non-impacted, native soil to establish a background arsenic concentration. The background concentration was reported as 6.0 mg/kg.

Quicksilver is requesting this approval in order to proceed with closure and reclamation of the cuttings pit located at the Horse Gulch Federal 13-12 pad.



12055 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr Jared Black
Quicksilver Resources, Inc.
801 Cherry Street, Suite 3700
Fort Worth, TX 76102

Report Summary

Tuesday September 20, 2011

Report Number: L536103

Samples Received: 09/15/11

Client Project: 2011054030

Description: Horse Gulch Federal 13-12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Craig Cothron , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

Mr Jared Black
Quicksilver Resources, Inc.
801 Cherry Street, Suite 3700
Fort Worth, TX 76102

September 20, 2011

Date Received : September 15, 2011
Description : Horse Gulch Federal 13-12
Sample ID : FRESH CUTTING PIT
Collected By : David Chavira
Collection Date : 09/14/11 00:00

ESC Sample # : L536103-01
Site ID : CO
Project # : 2011054030

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	530	10.	mg/kg	9056	09/16/11	1
Sulfate	520	50.	mg/kg	9056	09/16/11	1
Chromium,Hexavalent	BDL	2.0	mg/kg	3050A/7196A	09/16/11	1
Chromium,Trivalent	6.0	0.50	mg/kg	Calc.	09/16/11	1
ORP	28.		mV	2580	09/16/11	1
pH	9.7		su	9045D	09/17/11	1
Sodium Adsorption Ratio	31.			Calc.	09/17/11	1
Specific Conductance	2000		umhos/cm	9050AMod	09/18/11	1
Total Solids	64.		%	2540G	09/16/11	1
Mercury	BDL	0.020	mg/kg	7471	09/16/11	1
Arsenic	4.0	1.0	mg/kg	6010B	09/16/11	1
Barium	420	0.25	mg/kg	6010B	09/16/11	1
Boron	10.	10.	mg/kg	6010B	09/16/11	1
Cadmium	0.35	0.25	mg/kg	6010B	09/16/11	1
Chromium	6.0	0.50	mg/kg	6010B	09/16/11	1
Copper	9.5	1.0	mg/kg	6010B	09/16/11	1
Lead	8.2	0.25	mg/kg	6010B	09/16/11	1
Nickel	7.3	1.0	mg/kg	6010B	09/16/11	1
Selenium	BDL	1.0	mg/kg	6010B	09/16/11	1
Silver	BDL	0.50	mg/kg	6010B	09/16/11	1
Zinc	31.	1.5	mg/kg	6010B	09/16/11	1
TPH (GC/FID) Low Fraction	1.7	0.50	mg/kg	8015D/GRO	09/16/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	95.3		% Rec.	602/8015	09/16/11	5
Benzene	BDL	0.0050	mg/kg	8260B	09/15/11	5
Toluene	BDL	0.025	mg/kg	8260B	09/15/11	5
Ethylbenzene	0.012	0.0050	mg/kg	8260B	09/15/11	5
Total Xylenes	0.061	0.015	mg/kg	8260B	09/15/11	5
Surrogate Recovery						
Toluene-d3	100.		% Rec.	8260B	09/15/11	5
Dibromofluoromethane	100.		% Rec.	8260B	09/15/11	5
a,a,a-Trifluorotoluene	98.1		% Rec.	8260B	09/15/11	5
4-Bromofluorobenzene	92.7		% Rec.	8260B	09/15/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L536103-01 (PH) - 9.68@20.7c



12045 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 750-5858
 1-800-747-5859
 Fax (615) 758-5859
 Tax I.D. 62-0814283
 Est. 1970

REPORT OF ANALYSIS

September 20, 2011

Mr Jared Black
 Quicksilver Resources, Inc.
 801 Cherry Street, Suite 3700
 Fort Worth, TX 76102

Date Received : September 15, 2011
 Description : Horse Gulch Federal 13-12
 Sample ID : FRESH CUTTING PIT
 Collected By : David Chavira
 Collection Date : 09/14/11 00:00

ESC Sample # : L536103-01
 Site ID : CO
 Project # : 2011054030

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	220	4.0	mg/kg	3546/DRO	09/16/11	1
Surrogate recovery(%)						
o-Terphenyl	90.4		% Rec.	3546/DRO	09/16/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Acenaphthene	0.025	0.0060	mg/kg	8270C-SIM	09/18/11	1
Acenaphthylene	0.013	0.0060	mg/kg	8270C-SIM	09/18/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Fluoranthene	0.011	0.0060	mg/kg	8270C-SIM	09/18/11	1
Fluorene	0.037	0.0060	mg/kg	8270C-SIM	09/18/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Naphthalene	0.12	0.0060	mg/kg	8270C-SIM	09/18/11	1
Phenanthrene	0.047	0.0060	mg/kg	8270C-SIM	09/18/11	1
Pyrene	0.023	0.0060	mg/kg	8270C-SIM	09/18/11	1
1-Methylnaphthalene	0.19	0.0060	mg/kg	8270C-SIM	09/18/11	1
2-Methylnaphthalene	0.21	0.0060	mg/kg	8270C-SIM	09/18/11	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	09/18/11	1
Surrogate Recovery						
Nitrobenzene-d5	148.		% Rec.	8270C-SIM	09/18/11	1
2-Fluorobiphenyl	96.1		% Rec.	8270C-SIM	09/18/11	1
p-Terphenyl-d14	73.3		% Rec.	8270C-SIM	09/18/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 09/20/11 10:53 Printed: 09/20/11 10:53

L536103-01 (PH) - 9.68@20.7c



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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REPORT OF ANALYSIS

Mr Jared Black
Quicksilver Resources, Inc.
801 Cherry Street, Suite 3700
Fort Worth, TX 76102

September 20, 2011

Date Received : September 15, 2011
Description : Horse Gulch Federal 13-12
Sample ID : BACK GROUND SAMPLE
Collected By : David Chavira
Collection Date : 09/14/11 00:00

ESC Sample # : L536103-02
Site ID : CO
Project # : 2011054030

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.		%	2540G	09/16/11	1
Arsenic	6.0	1.0	mg/kg	6010B	09/16/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 09/20/11 10:53 Printed: 09/20/11 10:53

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L536103-01	WG555696	SAMP	Nitrobenzene-d5	R1862995	J1
	WG555502	SAMP	ORF	R1861092	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAP. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
09/20/11 at 10:53:34

TSR Signing Reports: 034
R4 - Rush: Three Day

Sample: L536103-01 Account: QUIFWTX Received: 09/15/11 09:00 Due Date: 09/20/11 00:00 RPT Date: 09/20/11 10:53

Sample: L536103-02 Account: QUIFWTX Received: 09/15/11 09:00 Due Date: 09/20/11 00:00 RPT Date: 09/20/11 10:53

Quicksilver Resources, Inc.

801 Cherry Street, Suite 3700
Fort Worth, TX 76102

Billing information:

Quicksilver Resources, Inc.
Accounts Payable
P O Box 2347
Fort Worth, TX 76113

Report to: Mr Jared Black

Email:

jblack@qrinc.com

Project Description:

Horse Gulch Federal #13-12

Phone: (817) 665-5000

FAX:

Client Project #:

2011054030

City/State Collected

Colondo

Lab Project #

QUIFWTX-900

Site/Facility ID#:

CO

P.O.#:

Rush? (Lab MUST Be Notified)

Same Day 200%

Next Day 100%

Two Day 50%

Three Day 25%

Collected by (signature):

[Signature]

Immediately Packed on Ice

N Y X

Sample ID

Fresh Cutting Pit

Back Ground Sample

Comp/Grab

SS

SS

Depth

Date

No. of

7

1

Date Results Needed

Email? _No_ _Yes_

X

FAX? _No_ _Yes_

Analysis/Container/Preservative

A098



12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (600) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Account: QUIFWTX (lab use only)

Templated/Prelog T73014 P363239

Order #: 35 1329

Shipped Via FedEx Ground

Remarks/Contaminant Sample # (lab only)

LS36103-01

02

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH Temp

Remarks:

Flow Other

Relinquished by: (Signature)	Date: 9/14/11	Time: 13:30	Received by: (Signature)	Date: 9-15-11	Time: 9:00	Condition	Y N NA
Relinquished by: (Signature)	Date: 9/14/11	Time: 13:30	Received by: (Signature)	Date: 9-15-11	Time: 9:00	COC Seal Intact	Y N NA
Relinquished by: (Signature)	Date: 9/14/11	Time: 13:30	Received by: (Signature)	Date: 9-15-11	Time: 9:00	pH Checked	Y N NA

4825-5516 85-22