

FORM
4
Rev 12/05

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



02121291



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

SEP 13 2011

OGCC/Rifle Office

Complete the Attachment
Checklist

OP OGCC

1. OGCC Operator Number: 10255	4. Contact Name Cindy Keister	<table border="1"> <tr><td>Survey Plat</td><td></td><td></td></tr> <tr><td>Directional Survey</td><td></td><td></td></tr> <tr><td>Surface Eqpm Diagram</td><td></td><td></td></tr> <tr><td>Technical Info Page</td><td></td><td></td></tr> <tr><td>Other</td><td></td><td></td></tr> </table>	Survey Plat			Directional Survey			Surface Eqpm Diagram			Technical Info Page			Other		
Survey Plat																	
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Technical Info Page																	
Other																	
2. Name of Operator: Quicksilver Resources Inc.	Phone: (817) 665-5572																
3. Address: 801 Cherry St., Suite 3700, Unit #19	Fax: (817) 665-5009																
City: Fort Worth State: TX Zip: 76102																	
5. API Number 05-081-07672-00	OGCC Facility ID Number																
6. Well/Facility Name: Horse Gulch Federal	7. Well/Facility Number 13-12																
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NW/4 SW/4 Section 12, T6N, R93W, 6th Meridian	10. Field Name: Wildcat																
9. County: Moffat																	
11. Federal, Indian or State Lease Number: COC65175																	

General Notice

☐ 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:	FNL/FSL	FEL/FWL
Change of Surface Footage to Exterior Section Lines:		
Change of Bottomhole Footage from Exterior Section Lines:		
Change of Bottomhole Footage to Exterior Section Lines:		

Bottomhole location Qtr/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: _____

attach directional survey

GPS DATA:

Date of Measurement _____ PDOP Reading _____ Instrument Operator's Name _____

☐ CHANGE SPACING UNIT

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ Remove from surface bond
Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):

Effective Date: _____

Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME

From: _____ NUMBER _____

To: _____

Effective Date: _____

☐ ABANDONED LOCATION:

Was location ever built? ☐ Yes ☐ No

Is site ready for inspection? ☐ Yes ☐ No

Date Ready for Inspection: _____

☐ NOTICE OF CONTINUED SHUT IN STATUS

Date well shut in or temporarily abandoned: _____

Has Production Equipment been removed from site? ☐ Yes ☐ No

MIT required if shut in longer than two years. Date of last MIT _____

☒ SPUD DATE: 09/11/2011 at 11:00 P.M. CST

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK

*submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

☐ 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

☐ Notice of Intent

Approximate Start Date: _____

☐ 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"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input checked="" type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: _____	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: Cindy Keister Date: 09/13/11 Email: ckeister@qrinc.com

Print Name: Cindy Keister Title: Director Regulatory Affairs

OGCC Approved: [Signature] Title: EIT 3 Date: 9/15/11

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

RECEIVED

SEP 13 2011

COGCC/Rifle Office

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

Quicksilver is requesting to amend the cementing procedure for the surface casing that has been approved. Attached is the proposed cementing procedure with the changes in bold.

HORSE GULCH FEDERAL 31-31
API #05-081-07672-00

String	Depth	Hole Size	Casing Size	Weight	Grade	Thread Type	New	Burst	Collapse
Surface	3400	12 1/4	9 5/8	36#/ft	J-55	LTC	New	9190	8830
Production	7400	8 3/4	5 1/2	20#/ft	L-80	LTC	New	3520	2020

Cement Information

Surface	Type and Amount	yield	density	volume	additives
Cemented with 2 stages					
Stage 1 (2200-3400)	180 sks lead class g	1.87 ft ³ /sk	12.7 lb/gal	336 ft ³	.125 lb/sk poly e flake
	150 sks tail class c	1.72 ft ³ /sk	13.5 lb/gal	258 ft ³	.125 lb/sk poly e flake 3lb/sk gilsonite
Stage 2 (1000-2200)	215 sks lead class c	2.24 ft ³ /sk	12.3 lb/gal	482 ft ³	.125 lb/sk poly e flake
	50 sks tail class c	1.72 ft ³ /sk	13.5 lb/gal	86 ft ³	.125 lb/sk poly e flake
Stage 3 (0-1000)	245 sks lead class c	2.24 ft ³ /sk	12.3 lb/gal	549 ft ³	.125 lb/sk poly e flake
	50 sks tail class c	1.72 ft ³ /sk	13.5 lb/gal	86 ft ³	.125 lb/sk poly e flake
Surface cemented interval is 0-3400 feet. Stage tools located at 1000 feet and 2200 feet.					

Production	Type and Amount	yield	density	volume	additives
Cemented with	460 sks lead class a	2.22 ft ³ /sk	12.2 lb/gal	1021 ft ³	.125 lb/sk poly e flake, .4% fluid loss control,
	340 sks tail class g	1.73 ft ³ /sk	13.5 lb/gal	588 ft ³	.2% retarder, .5% fluid loss
Production cemented interval is 2000-7400 feet.					

