

FORM  
2

Rev  
08/13

State of Colorado

Oil and Gas Conservation Commission

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



Document Number:

400483572

APPLICATION FOR PERMIT TO:

Drill  Deepen  Re-enter  Recomplete and Operate

Date Received:

09/20/2013

TYPE OF WELL OIL  GAS  COALBED  OTHER \_\_\_\_\_

Refilling

ZONE TYPE SINGLE ZONE  MULTIPLE ZONES  COMMINGLE ZONES

Sidetrack

Well Name: Pirtlaw Partners Ltd. Well Number: 32-09  
Name of Operator: QUICKSILVER RESOURCES INC COGCC Operator Number: 10255  
Address: 801 CHERRY ST - #3700 UNIT 19  
City: FT WORTH State: TX Zip: 76102  
Contact Name: Pamela Osburn Phone: (817)665-4918 Fax: (817)665-5009  
Email: posburn@qrinc.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20080107

WELL LOCATION INFORMATION

QtrQtr: SWNE Sec: 9 Twp: 6N Rng: 87W Meridian: 6  
Latitude: 40.496215 Longitude: -107.152379

Footage at Surface: 1336 feet FNL/FSL FNL 2385 feet FEL/FWL FEL

Field Name: BEAR RIVER Field Number: 5950

Ground Elevation: 6616 County: ROUTT

GPS Data:

Date of Measurement: 11/14/2011 PDOP Reading: 1.8 Instrument Operator's Name: DOWLING LAND SURVEYORS

If well is  Directional  Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_ Bottom Hole: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_

Sec: \_\_\_\_\_ Twp: \_\_\_\_\_ Rng: \_\_\_\_\_ Sec: \_\_\_\_\_ Twp: \_\_\_\_\_ Rng: \_\_\_\_\_

LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership:  Fee  State  Federal  Indian

The Surface Owner is:  is the mineral owner beneath the location.

(check all that apply)  is committed to an Oil and Gas Lease.

has signed the Oil and Gas Lease.

is the applicant.

The Mineral Owner beneath this Oil and Gas Location is:  Fee  State  Federal  Indian

The Minerals beneath this Oil and Gas Location will be developed by this Well: Yes

The right to construct the Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

**LEASE INFORMATION**

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

SEE ATTACHED LEGAL DESCRIPTION

Total Acres in Described Lease: 2342 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # \_\_\_\_\_

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 1545 Feet

**CULTURAL DISTANCE INFORMATION**

Distance to nearest:

Building: 4670 Feet

Building Unit: 5280 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 1500 Feet

Above Ground Utility: 3100 Feet

Railroad: 3095 Feet

Property Line: 1336 Feet

**INSTRUCTIONS:**

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).

- Enter 5280 for distance greater than 1 mile.

- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.

- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

**DESIGNATED SETBACK LOCATION INFORMATION**

Check all that apply. This location is within a:  Buffer Zone  
 Exception Zone  
 Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit

- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.

- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: \_\_\_\_\_

**SPACING and UNIT INFORMATION**

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 1545 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 1545 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

**SPACING & FORMATIONS COMMENTS**

\_\_\_\_\_

**OBJECTIVE FORMATIONS**

| Objective Formation(s) | Formation Code | Spacing Order Number(s) | Unit Acreage Assigned to Well | Unit Configuration (N/2, SE/4, etc.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| FRONTIER               | FRTR           |                         |                               |                                      |
| NIOBRARA               | NBRR           |                         |                               |                                      |

**DRILLING PROGRAM**

Proposed Total Measured Depth: 8500 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 4175 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? Yes

BOP Equipment Type:  Annular Preventor  Double Ram  Rotating Head  None

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? \_\_\_\_\_

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

## CASING PROGRAM

| Casing Type | Size of Hole | Size of Casing | Wt/Ft | Csg/Liner Top | Setting Depth | Sacks Cmt | Cmt Btm | Cmt Top |
|-------------|--------------|----------------|-------|---------------|---------------|-----------|---------|---------|
| CONDUCTOR   | 20           | 16             | 65    | 0             | 40            |           |         |         |
| SURF        | 17+1/2       | 13+3/8         | 68    | 0             | 1200          | 850       | 1200    | 0       |
| 1ST         | 12+1/4       | 9+5/8          | 40    | 0             | 5200          | 915       | 5200    | 0       |

Conductor Casing is NOT planned

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

## GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- Rule 318A.a. Exception Location (GWA Windows).
- Rule 318A.c. Exception Location (GWA Twinning).

## RULE 502.b VARIANCE REQUEST

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

## OTHER LOCATION EXCEPTIONS

Check all that apply:

- Rule 318.c. Exception Location from Rule or Spacing Order Number 318.a
- Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

**OPERATOR COMMENTS AND SUBMITTAL**

Comments

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: 430437

Is this application being submitted with an Oil and Gas Location Assessment application? \_\_\_\_\_ No

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

Signed: \_\_\_\_\_ Print Name: Pamela Osburn

Title: Sr. Regulatory Analyst Date: 9/20/2013 Email: posburn@qvinc.com

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

**API NUMBER**

05 107 06250 00

**Conditions Of Approval**

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

**COA Type**                      **Description**

|  |  |
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**Best Management Practices****No BMP/COA Type**                      **Description**

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Data retrieval failed for the subreport 'ImpPolicy\_MTO' located at: W:\ncatpub\Nat\Reports\policy\_etc\_rdl. Please check th

**Attachment Check List**

| <b>Att Doc Num</b> | <b>Name</b>             |
|--------------------|-------------------------|
| 400483572          | FORM 2 SUBMITTED        |
| 400483680          | ACCESS ROAD MAP         |
| 400483681          | CONST. LAYOUT DRAWINGS  |
| 400483683          | HYDROLOGY MAP           |
| 400483684          | LEGAL/LEASE DESCRIPTION |
| 400483685          | LOCATION DRAWING        |
| 400483686          | SURFACE AGRMT/SURETY    |
| 400483688          | PLAT                    |
| 400483689          | REFERENCE AREA MAP      |
| 400483690          | REFERENCE AREA PICTURES |
| 400483691          | LOCATION PICTURES       |
| 400485444          | VARIANCE REQUEST        |

Total Attach: 12 Files

## General Comments

| <u>User Group</u> | <u>Comment</u>   | <u>Comment Date</u>     |
|-------------------|--|-------------------------|
| Permit            | Returned to Draft: Casing programs (pilot hole and horizontal) should match on pipe set to date. | 9/23/2013<br>3:25:11 PM |

Total: 1 comment(s)