

FORM
2A

Rev
04/01

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:

400291226

Date Received:

06/04/2012

Oil and Gas Location Assessment

☒ New Location ☐ Amend Existing Location Location#: _____

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a standalone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this Assessment will allow for the construction of the below specified location; however, it does not supersede any land use rules applied by the local land use authority. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:

429513

Expiration Date:

07/04/2015

☐ This location assessment is included as part of a permit application.

1. CONSULTATION

- ☐ This location is included in a Comprehensive Drilling Plan. CDP # _____
- ☒ This location is in a sensitive wildlife habitat area.
- ☐ This location is in a wildlife restricted surface occupancy area.
- ☐ This location includes a Rule 306.d.(1)A.ii. variance request.

2. Operator

Operator Number: 10255

Name: QUICKSILVER RESOURCES INC

Address: 801 CHERRY ST - #3700 UNIT 19

City: FT WORTH State: TX Zip: 76102

3. Contact Information

Name: Pamela Osburn

Phone: (817) 665-4918

Fax: (817) 665-5009

email: posburn@qrinc.com

4. Location Identification:

Name: STODDARD Number: CTB

County: MOFFAT

QuarterQuarter: LOT 10 Section: 30 Township: 6N Range: 90W Meridian: 6 Ground Elevation: 6518

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 1469 feet FNL, from North or South section line, and 2483 feet FWL, from East or West section line.

Latitude: 40.452072 Longitude: -107.534858 PDOP Reading: 1.3 Date of Measurement: 04/20/2012

Instrument Operator's Name: UINTAH ENGINEERING

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: <input type="text"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: 1	Separators: <input type="text"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: 1
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: 8	Fuel Tanks: <input type="text"/>	

Other: 2 heater treaters

6. Construction:

Date planned to commence construction: 11/15/2012 Size of disturbed area during construction in acres: 4.31
Estimated date that interim reclamation will begin: 11/15/2013 Size of location after interim reclamation in acres: 3.50
Estimated post-construction ground elevation: 6531 Will a closed loop system be used for drilling fluids: Yes ☐
Will salt sections be encountered during drilling: Yes ☐ No ☐ Is H2S anticipated? Yes ☐ No ☒
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes ☐ No ☐
Mud disposal: Offsite ☐ Onsite ☐ Method: Land Farming ☐ Land Spreading ☐ Disposal Facility ☐
Other: _____

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 03/20/2012
Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian
Mineral Owner: ☐ Fee ☐ State ☐ Federal ☐ Indian
The surface owner is: ☐ the mineral owner ☐ committed to an oil and gas lease
☐ is the executer of the oil and gas lease ☐ the applicant
The right to construct the location is granted by: ☐ oil and gas lease ☒ Surface Use Agreement ☐ Right of Way
☐ applicant is owner
Surface damage assurance if no agreement is in place: ☐ \$2000 ☐ \$5000 ☐ Blanket Surety ID _____

8. Reclamation Financial Assurance:

☐ Well Surety ID: 20080107 ☐ Gas Facility Surety ID: _____ ☐ Waste Mgmt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒
Distance, in feet, to nearest building: 443, public road: 6583, above ground utilit: 1354
, railroad: 11669, property line: 8

10. Current Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP
Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____
Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

11. Future Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP
Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____
Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

12. Soils:

List all soil map units that occur within the proposed location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.gov/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 80 - Forelle-Evanot complex, 12 to 25 percent slopes

NRCS Map Unit Name: _____
NRCS Map Unit Name: _____

13. Plant Community:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes ☐ No ☒

Plant species from: ☒ NRCS or, ☐ field observation Date of observation: _____

List individual species: sagebrush spp, rabbitbrush

Check all plant communities that exist in the disturbed area.

- ☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
☐ Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
☐ Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
☐ Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
☐ Mountain Riparian (Cottonwood, Willow, Blue Spruce)
☐ Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
☐ Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
☐ Alpine (above timberline)
☒ Other (describe): grass, sagebrush, sage/rabbitbrush mix, sage/grass mix

14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: ☐ No ☒ Yes Was a Rule 901.e. Sensitive Areas Determination performed: ☐ No ☒ Yes

Distance (in feet) to nearest surface water: 572, water well: 2022, depth to ground water: 117

Is the location in a riparian area: ☒ No ☐ Yes Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes

Is the location within a Rule 317B Surface Water Supply Area buffer zone:

☒ No ☐ 0-300 ft. zone ☐ 301-500 ft. zone ☐ 501-2640 ft. zone

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: ☐ No ☐ Yes

15. Comments:

This location is a central tank battery for Quicksilver's Stoddard and Simoes wells.

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

Signed: _____ Date: 06/04/2012 Email: posburn@qrincc.com

Print Name: Pamela S. Osburn Title: Sr. Regulatory Analyst

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: 7/5/2012

**CONDITIONS OF
APPROVAL, IF ANY:**

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

SITE SPECIFIC COAs:

Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines.

Operator must ensure secondary containment for any volume of fluids contained at tank battery site during operations (as shown on the Proposed BMPs attachment); including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the tank battery site location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.

Berms or other containment devices shall be constructed to be sufficiently impervious (preferably corrugated steel with poly liner) to contain any spilled or released material around crude oil, condensate, and produced water storage tanks.

Attachment Check List

Att Doc Num	Name
1533255	SURFACE AGRMT/SURETY
1533256	SURFACE AGRMT/SURETY
1638184	LOCATION DRAWING
2034408	CORRESPONDENCE
2034440	CORRESPONDENCE
2034441	PROPOSED BMPs
400291226	FORM 2A SUBMITTED
400291324	ACCESS ROAD MAP
400291325	PROPOSED BMPs
400291326	CONST. LAYOUT DRAWINGS
400291327	HYDROLOGY MAP
400291331	LOCATION PICTURES
400291337	REFERENCE AREA PICTURES
400291806	REFERENCE AREA MAP
400291807	LOCATION DRAWING

Total Attach: 15 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comments. Final Review--passed.	7/3/2012 9:02:32 AM
DOW	<p>Wildlife concern: The proposed central tank battery is within Elk winter concentration Sensitive Wildlife Habitat.</p> <p>The operator has agreed to the following BMPs:</p> <ol style="list-style-type: none"> 1. Conduct construction activities outside the time period from December 1 through April 15 to minimize disturbance to Elk in their winter concentration area. 2. Restrict tank battery visitations to between the hours of 10:00 a.m. and 3:00 p.m. and reduce site visitations between December 1 and April 15 in elk winter range. 3. Establish company guidelines (policies) to minimize wildlife mortality from vehicle collisions on roads (post speed limits on private roads, conduct safety training, etc). 4. Gate single-purpose roads and restrict general public access to reduce traffic disruptions to wildlife if applicable on private roads. 5. Close and immediately reclaim all roads that are redundant, not used regularly, or have been abandoned to the maximum extent possible to minimize disturbance and habitat fragmentation. 6. Avoid aggressive non-native grasses and shrubs in elk habitat restoration. 7. Reclaim elk habitats with native shrubs, grasses, and forbs appropriate to the ecological site disturbed. 8. Reclaim site (interim and final) to match existing vegetation. CPW can assist the landowner and operator in recommending a site appropriate seed mix. 9. Establish bank stabilization, erosion control, and storm water management techniques for susceptible well pad cut and fill slopes. 10. Production equipment which has open-vent exhaust systems, such as heater treaters, separators, dehydration units, and flare stacks, shall be designed and constructed to prevent birds and bats from entering or nesting in or on such units, and to the extent practical, to discourage birds from perching on the exhaust stacks. COGCC Rule 604 b-7. 11. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location following COGCC Rule 1204 a-1. 12. Muffle sound from compressors, pump jacks or other motors necessary to run operations at the site. If mufflers are used, point upward to dissipate sound and vibration. <p>Jacob Davidson, 6-29-2012, 10:59</p>	6/29/2012 10:59:30 AM
Permit	Central tank battery; no mineral lease involved. Unchecked mineral owner is committed to oil & gas lease. Attached SUA's. Included comment per oper.	6/29/2012 9:00:30 AM
OGLA	Initiated/Completed OGLA Form 2A review on 06-12-12 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, and tank berming COAs from operator on 06-12-12; received acknowledgement of COAs from operator on 06-13-12; changed to sensitive area due to close SW; passed by CPW on 06-29-12 with operator agreed to BMPs acceptable; passed OGLA Form 2A review on 06-29-12 by Dave Kubeczko; fluid containment, spill/release BMPs, and tank berming COAs.	6/12/2012 4:36:09 PM
Total: 4 comment(s)		

BMP

<u>Type</u>	<u>Comment</u>
Wildlife	<ol style="list-style-type: none">1. Conduct construction activities outside the time period from December 1 through April 15 to minimize disturbance to Elk in their winter concentration area.2. Restrict tank battery visitations to between the hours of 10:00 a.m. and 3:00 p.m. and reduce site visitations between December 1 and April 15 in elk winter range.3. Establish company guidelines (policies) to minimize wildlife mortality from vehicle collisions on roads (post speed limits on private roads, conduct safety training, etc).4. Gate single-purpose roads and restrict general public access to reduce traffic disruptions to wildlife if applicable on private roads.5. Close and immediately reclaim all roads that are redundant, not used regularly, or have been abandoned to the maximum extent possible to minimize disturbance and habitat fragmentation.6. Avoid aggressive non-native grasses and shrubs in elk habitat restoration.7. Reclaim elk habitats with native shrubs, grasses, and forbs appropriate to the ecological site disturbed.8. Reclaim site (interim and final) to match existing vegetation. CPW can assist the landowner and operator in recommending a site appropriate seed mix.9. Establish bank stabilization, erosion control, and storm water management techniques for susceptible well pad cut and fill slopes.10. Production equipment which has open-vent exhaust systems, such as heater treaters, separators, dehydration units, and flare stacks, shall be designed and constructed to prevent birds and bats from entering or nesting in or on such units, and to the extent practical, to discourage birds from perching on the exhaust stacks. COGCC Rule 604 b-7.11. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location following COGCC Rule 1204 a-1.12. Muffle sound from compressors, pump jacks or other motors necessary to run operations at the site. If mufflers are used, point upward to dissipate sound and vibration.

Total: 1 comment(s)