

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:
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Date Received:
05/21/2013

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 421574

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:
421574
Expiration Date:
06/23/2016

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: 27742
Name: EOG RESOURCES INC
Address: 600 17TH ST STE 1100N
City: DENVER State: CO Zip: 80202

3. Contact Information

Name: Kaylene Gardner
Phone: (303) 824-5586
Fax: (303) 824-5577
email: kaylene_gardner@eogresources.com

4. Location Identification:

Name: Garden Creek Number: 14-21H
County: WELD
Quarter: NWNW Section: 21 Township: 11N Range: 62W Meridian: 6 Ground Elevation: 5223

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: 895 feet FNL, from North or South section line, and 502 feet FWL, from East or West section line.
Latitude: 40.913475 Longitude: -104.332986 PDOP Reading: 0.9 Date of Measurement: 09/12/2010
Instrument Operator's Name: Robert Kay

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

Special Purpose Pits: <input type="checkbox"/>	Drilling Pits: <input type="checkbox"/>	Wells: <input type="text" value="1"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="2"/>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/>	Cavity Pumps: <input type="text" value="2"/>	LACT Unit: <input type="text" value="1"/>	Pump Jacks: <input type="text" value="1"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="text" value="1"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text" value="1"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text" value="5"/>	Fuel Tanks: <input type="checkbox"/>	

Other: 1 Emergency Tank, 1 Meter Run, Ambitrol, 2 Lined Heaters for Trace System, 1 Well Head

6. Construction:

Date planned to commence construction: 06/24/2013 Size of disturbed area during construction in acres: 4.06
 Estimated date that interim reclamation will begin: 09/24/2013 Size of location after interim reclamation in acres: 1.64
 Estimated post-construction ground elevation: 5222 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: Backfill and cover

7. Surface Owner:

Name: _____ Phone: _____
 Address: _____ Fax: _____
 Address: _____ Email: _____
 City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 11/23/2010
 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 20090114

8. Reclamation Financial Assurance:

Well Surety ID: 20030058 Gas Facility Surety ID: _____ Waste Mgnt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes No
 Distance, in feet, to nearest building: 4337, public road: 502, above ground utility: 4404,
 railroad: 5280, property line: 502

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 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: 4 Ascalon fine sandy loam, 0 to 6 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: Western wheatgrass, Needleandthread, Sideoats grama

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): _____

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: 1640, water well: 2297, depth to ground water: 110
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 Suppl 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:

Flare stack will be removed after a gas line is installed. One of the two heater treaters will be removed when production volumes fall below the capacity of a single heater treater. The closest water well is Water Well Permit No. 261503. Depth to ground water determined from Water Well Permit No. 160858-A, which is the closest water well with depth to groundwater information. The location was checked as sensitive as the location lies in the Upper Crow Creek designated basin. The closed loop system utilized to drill the referenced well is a semi closed loop system. Drilling mud and cuttings will be remediated to COGCC Table 910-1 standards prior to burial onsite. The distance to the nearest surface water and water well have been updated. All other information in the original OGLA shall remain the same.

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

Signed: _____ Date: 05/21/2013 Email: Kaylene_Gardener@eogresources.com
Print Name: Kaylene Gardner Title: Regulatory Supervisor

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: 6/24/2013

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.

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Attachment Check List

Att Doc Num	Name
1667720	CORRESPONDENCE
400403643	FORM 2A SUBMITTED
400407673	ACCESS ROAD MAP
400407674	CONST. LAYOUT DRAWINGS
400407675	HYDROLOGY MAP
400407678	LOCATION DRAWING
400407679	LOCATION PICTURES
400407681	REFERENCE AREA MAP
400407683	REFERENCE AREA PICTURES
400407691	NRCS MAP UNIT DESC

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	6/24/2013 1:13:55 PM
OGLA	Per operator, removed 1 drilling pit from Facilities list, changed construction start date to 6/24/2013 and interim reclamation begin date to 9/24/2013, modified Comments section to indicate drilling mud will be remediated to COGCC Table 910-1 standards, and removed BMP indicating operator participates in COGA Voluntary Baseline Groundwater Sampling Program due to COGCC Rule 609 now in effect. OGLA review complete. OGLA task passed.	6/24/2013 10:24:21 AM
Permit	Form 2A to amend existing location is being submitted as refile for expiring previous Form 2A . Initial review complete.	6/24/2013 2:34:30 PM

Total: 3 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Storm Water/Erosion Control	EOG will implement a storm water and erosion plan to prevent sedimentation and erosion.

Total: 1 comment(s)