

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

400028786

## 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 stand alone 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:

**415812**

Expiration Date:

**02/19/2013**
☒ 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: Jennifer Yu

Phone: (303) 824-5576

Fax: (303) 824-5577

email: Jennifer\_Yu@eogresources.com

## 4. Location Identification:

Name: Garden Creek Number: 9-16H

County: WELD

Quarter: SESE Section: 16 Township: 11N Range: 62W Meridian: 6 Ground Elevation: 5150

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: 501 feet, from North or South section line: FSL and 600 feet, from East or West section line: FEL

Latitude: 40.916639 Longitude: -104.318208 PDOP Reading: 1.5 Date of Measurement: 12/21/2009

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

Special Purpose Pits: <u>1</u>	Drilling Pits: <u>1</u>	Wells: <u>1</u>	Production Pits: <u>0</u>	Dehydrator Units: <u>0</u>
Condensate Tanks: <u>0</u>	Water Tanks: <u>2</u>	Separators: <u>1</u>	Electric Motors: <u>0</u>	Multi-Well Pits: <u>0</u>
Gas or Diesel Motors: <u>0</u>	Cavity Pumps: <u>2</u>	LACT Unit: <u>1</u>	Pump Jacks: <u>1</u>	Pigging Station: <u>0</u>
Electric Generators: <u>1</u>	Gas Pipeline: <u>1</u>	Oil Pipeline: <u>1</u>	Water Pipeline: <u>0</u>	Flare: <u>0</u>
Gas Compressors: <u>0</u>	VOC Combustor: <u>1</u>	Oil Tanks: <u>5</u>	Fuel Tanks: <u>0</u>	

Other: special purpose pit is a flare pit, drilling pit will be lined, 1 Emergency Tank, 1 Meter Run, 1 Ambitrol, 1 Lined Heater for Tracy System, 1 Well Head

6. Construction:

Date planned to commence construction: 04/01/2010 Size of disturbed area during construction in acres: 3.70  
Estimated date that interim reclamation will begin: 06/01/2010 Size of location after interim reclamation in acres: 3.00  
Estimated post-construction ground elevation: 5150 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: Back fill & cover

7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: 01/12/2010  
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 \_\_\_\_\_

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: 9142, public road: 4592, above ground utilit: 635  
, railroad: 91872, property line: 600

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: Platner Loam 0-3% Slopes

NRCS Map Unit Name: Renohill Fine Sandy Loam. 0-6% Slopes

NRCS Map Unit Name: Ascalon Fine Sandy Loam. 0-6% Slopes

### 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. Green needlegrass. Needleandthread. Sideoats grama

Check all plant communities that exist in the disturbed area.

- ☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)  
☒ Native Grassland (Bluestern, 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: 1009, water well: 1955, depth to ground water: 50

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:

reference area located adjacent to and easterly of the location. location pictures are reference area pictures. water well permit #261503, no static level, therefore depth used sensitive area due to location in Upper Crow Creek Designated Groundwater Basin No improvements were identified within 400' of the proposed well site.

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

Signed: \_\_\_\_\_ Date: 01/16/2010 Email: jennifer\_yu@eogresources.com

Print Name: Jennifer Yu Title: Lead Regulatory Assistant

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

*David S. Nash*

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: 2/20/2010

### **Attachment Check List**

Att Doc Num	Name	Doc Description
1784797	CORRESPONDENCE	LF @2396602 1784797
400029385	LOCATION PICTURES	LF @2219180 400029385
400029387	LOCATION DRAWING	LF @2219182 400029387
400029389	HYDROLOGY MAP	LF @2219183 400029389
400029391	ACCESS ROAD MAP	LF @2219184 400029391
400029394	REFERENCE AREA MAP	LF @2219185 400029394
400029395	REFERENCE AREA PICTURES	LF @2219186 400029395
400029396	NRCS MAP UNIT DESC	LF @2219187 400029396
400029397	NRCS MAP UNIT DESC	LF @2219188 400029397
400029398	NRCS MAP UNIT DESC	LF @2219189 400029398
400029399	NRCS MAP UNIT DESC	LF @2219190 400029399
400029400	NRCS MAP UNIT DESC	LF @2219191 400029400
400029401	NRCS MAP UNIT DESC	LF @2219192 400029401
400029403	FORM 2A APPROVED	400029403.pdf
400044024	FORM 2A SUBMITTED	LF @2219193 400044024

Total Attach: 15 Files