

FORM
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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:

400199733

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:

426365

Expiration Date:

11/05/2014
☒ 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: Peterson Ridge Number: 01-20H

County: JACKSON

QuarterQuarter: SWSE Section: 20 Township: 8N Range: 80W Meridian: 6 Ground Elevation: 8113

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: 219 feet FSL, from North or South section line, and 1820 feet FEL, from East or West section line.

Latitude: 40.644586 Longitude: -106.394469 PDOP Reading: 1.2 Date of Measurement: 11/30/2010

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="text"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text" value="1"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="2"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	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="text"/>
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="text"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text" value="5"/>	Fuel Tanks: <input type="text"/>	

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

6. Construction:

Date planned to commence construction: 06/01/2012 Size of disturbed area during construction in acres: 4.28
Estimated date that interim reclamation will begin: 12/03/2012 Size of location after interim reclamation in acres: 1.57
Estimated post-construction ground elevation: 8115 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: 10/27/2010
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: _____ ☐ 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: 2693, public road: 261, above ground utilit: 636
, railroad: 134904, property line: 1525

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: Te - Tealson-Rock land association

NRCS Map Unit Name: Bn - Blevinton sandy loam, 8 to 20% slopes

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: Big sagebrush, Achnatherum pinetorum, Muttongrass

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: 1603, water well: 1202, depth to ground water: 44

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:

Flare Stack to be removed after gas line installation. One of the two heater treaters will be removed when production volumes fall below the capacity of a single heater treater. Static water well information obtained from Water Well Permit #40552 approximately 1202 feet southeast from the proposed location.

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

Signed: _____ Date: 08/26/2011 Email: jennifer_yu@eogresources.com

Print Name: Jennifer Yu Title: Regulatory Administrator

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: David S. Neslin Director of COGCC Date: 11/6/2011

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:

Location may be a sensitive area due to potentially shallow groundwater; therefore, either a closed loop system must be used (which operator has indicated on the Form 2A), or the drilling pit must be lined and constructed above the top of groundwater.

Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; 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 well pad location will be stabilized, inspected at regular intervals, and maintained in good condition.

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

The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts.

If fracing operations occur, flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or pit located on the well pad or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.

Attachment Check List

Att Doc Num	Name
2033986	CORRESPONDENCE
2034056	PROPOSED BMPs
400199733	FORM 2A SUBMITTED
400199817	LOCATION PICTURES
400199823	ACCESS ROAD MAP
400199824	REFERENCE AREA MAP
400199827	NRCS MAP UNIT DESC
400199858	HYDROLOGY MAP
400199861	REFERENCE AREA PICTURES
400200292	LOCATION DRAWING
400200294	CONST. LAYOUT DRAWINGS

Total Attach: 11 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	11/4/2011 9:40:00 AM
Permit	onsite 10/5/2011. wildlife BMP's added.	11/4/2011 9:39:58 AM
Permit	ON HOLD: w/o additional BMP's. OK to pass.	10/11/2011 10:34:53 AM
DOW	CPW and EOG attended a site visit for this location on 10-4-11 after numerous attempts by EOG and CPW to find a good date that would work for both parties. BMPs were discussed and most of them were agreed upon. Several BMPs require EOG to get additional review and approval from management. A complete set of BMPs is forthcoming. Friday, October 7, 2011 at 3:20 p.m.	10/7/2011 3:18:11 PM
Permit	Received and attached federal permit to form 2. confirmed property line at 1525' per operator.	9/7/2011 3:54:48 PM
Permit	Requesting confirmation of property line and copy of federal permit.	9/6/2011 10:14:18 AM
OGLA	Initiated/Completed OGLA Form 2A review on 08-29-11 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, flowback to tanks, cuttings low moisture, and lined pit/closed loop COAs from operator on 08-29-11; received acknowledgement of COAs from operator on 08-29-11; passed by CDOW on 10-07-11 with CDPW and operator agreed to BMPs on 11-01-11 (included as attachment and listed on the BMP tab) acceptable; passed OGLA Form 2A review on 11-01-11 by Dave Kubeczko; fluid containment, spill/release BMPs, flowback to tanks, cuttings low moisture, and lined pit/closed loop COAs.	8/29/2011 9:17:03 AM

Total: 7 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Wildlife	EOG will use a closed loop system during drilling operations for all three locations. The closed loop system will include 1- cuttings pit, and 4-6 400-bbl tanks. If the well is a producing location, EOG will install mufflers on production equipment reducing noise levels in accordance with COGCC Rules and Regulations. In accordance with EOGs Safety Rules and Regulations all company employees must complete a Smith Driving System Training class. EOG company policies prohibit the use or carrying of firearms in company offices and in company vehicles. Interim reclamation will be completed after completion activities or as early as possible to take advantage of available ground moisture. EOG will use a seed mix approved by the authorized officer for all reclamation activities. EOG agrees to conduct drilling and completion activities in accordance with COAs as established by Bureau of Land Management on Indian Creek 1-05H and Peterson Ridge 1-20H.

Total: 1 comment(s)